

**Project 546
MONETA PORCUPINE OPTION
ASSESSMENT REPORT ON
1996 DIAMOND DRILL PROGRAM
Porcupine Mining Division
Timmins, Ontario**

N.T.S. 42A/6

**WORK DONE FOR: Placer Dome Canada
Suite 600 - 1055 Dunsmuir Street
Vancouver, British Columbia V7X 1L3**

DECEMBER 1996

KATHY FARRELL



42A11SW0143 W9660.00848 MURPHY

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010C

LIST OF SECTIONS

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INTRODUCTION

Between July 17 and August 14, 1996 Norex Drilling Limited of South Porcupine, Ontario completed 1,666.86m of drilling. The seven hole program tested I.P. anomalies, HLEM anomalies and magnetic highs to locate the extension of the Hoyle Pond - Bell Creek Mine Trend west of the Burrows Benedict fault.

DDH 546-001 tested the North Volcanic Package at the volcanic/sediment contact with coincident magnetic high and HLEM conductor. DDH 546-002 and 546-003 were spotted due south of the first hole to form a fence through the North Volcanic Package and DDH 546-004 was spotted 400m to the west to test a bedrock topographic high. DDH 546-005 tested a magnetic low with a coincident HLEM conductor within the South Volcanic Package. This horizon had been previously drilled in 1987 and 1988 by Moneta Porcupine Mines Inc. and contains minor gold results within a graphitically altered mafic tuff. DDH 546-006 and 546-007 tested the same volcanic/sediment contact as DDH 546-001 although 1km to the west and closer to a proposed fold nose within the volcanics.

The property of 78 mining claims was optioned from Moneta Porcupine Mines Inc. on September 25, 1995 and is located 6 km north of Timmins on Highway 655.

PROPERTY

LOCATION, ACCESS AND TOPOGRAPHY

The property is located 6 km north of the City of Timmins, Ontario (Figure 1) on Highway 655. Highway 655 cuts through the western portion of the property going northeast/southwest (Figure 2). There are many gravel pits in the area and bush roads making summer and winter access (via snow machine) easy. The smaller claim block or Porcupine Prime block is more easily accessed in the winter due to swampy ground.

The claim blocks fall within the jurisdiction of the Porcupine Mining Division, of the Ontario Ministry of Northern Development and Mines.

The property lies mainly in northern Tisdale Township where there is less than 1% outcrop. The area is host to many sand and gravel pits which are exploiting an esker trending northeast. Overburden ranges from 5 to over 50 metres at the sand and gravel ridge.

MINERAL CLAIMS

The Moneta Option consists of 48 unpatented mining claims (Table 1); 24 patented mining claims, mining rights only (Table 2); and 6 patented mining claims, mining rights and full or partial surface rights (Table 3). The claims are located in Tisdale and Murphy Townships, north of Timmins, Figure 3. They form two separate claim blocks the larger termed the Murphy/Tisdale block and the smaller termed Porcupine Prime block.

Table 1: Unpatented Mineral Claims

CLAIM NUMBER	LOCATION	TOWNSHIP
P948710	SW ¼ N ½ Lot 6 Con 1	Murphy
P948711	NW ¼ N ½ Lot 6 Con 1	Murphy
P948712	NE ¼ N ½ Lot 6 Con 1	Murphy
P948713	SE ¼ N ½ Lot 6 Con 1	Murphy
P915963	NW ¼ S ½ Lot 6 Con 1	Murphy
P915964	SW ¼ S ½ Lot 6 Con 1	Murphy
P915965	SE ¼ S ½ Lot 6 Con 1	Murphy
P948706	NW ¼ N ½ Lot 7 Con 1	Murphy
P948707	SW ¼ N ½ Lot 7 Con 1	Murphy
P948708	NE ¼ N ½ Lot 7 Con 1	Murphy
P948709	SE ¼ N ½ Lot 7 Con 1	Murphy
P948702	NW ¼ N ½ Lot 8 Con 1	Murphy
P948703	SW ¼ N ½ Lot 8 Con 1	Murphy
P948704	SE ¼ N ½ Lot 8 Con 1	Murphy
P948705	NE ¼ N ½ Lot 8 Con 1	Murphy
P594790	SW ¼ N ½ Lot 6 Con 6	Tisdale
P594791	NW ¼ N ½ Lot 6 Con 6	Tisdale
P594789	SEpt Npt Lot 7 Con 6	Tisdale
P594784	SWpt Npt Lot 7 Con 6	Tisdale
P594792	NEpt Npt Lot 7 Con 6	Tisdale
P594793	NWpt Npt Lot 7 Con 6	Tisdale
P594785	NW ¼ S ½ Lot 7 Con 6	Tisdale
P594781	NW ¼ S ½ Lot 8 Con 6	Tisdale
P594783	SE ¼ N ½ Lot 8 Con 6	Tisdale
P594782	SW ¼ N ½ Lot 8 Con 6	Tisdale
P529974	SW ¼ N ½ Lot 9 Con 6	Tisdale
P529973	NW ¼ N ½ Lot 9 Con 6	Tisdale
P948857	SE ¼ S ½ Lot 5 Con 5	Tisdale
P948856	SW ¼ S ½ Lot 5 Con 5	Tisdale
P948849	SE ¼ S ½ Lot 6 Con 5	Tisdale
P996962	SW ¼ S ½ Lot 7 Con 5	Tisdale
P997758	SW ¼ S ½ Lot 8 Con 5	Tisdale
P987556	NE ¼ S ½ Lot 9 Con 5	Tisdale
P987557	SE ¼ S ½ Lot 9 Con 5	Tisdale
P1114867	SE ¼ N ½ Lot 9 Con 5	Tisdale
P1031808	SE ¼ S ½ Lot 10 Con 5	Tisdale
P948854	SW ¼ N ½ Lot 5 Con 4	Tisdale
P948858	NE ¼ N ½ Lot 5 Con 4	Tisdale
P948855	NW ¼ N ½ Lot 5 Con 4	Tisdale
P948850	NE ¼ N ½ Lot 6 Con 4	Tisdale
P948851	NW ¼ N ½ Lot 6 Con 4	Tisdale
P948852	SW ¼ N ½ Lot 6 Con 4	Tisdale
P948853	SE ¼ N ½ Lot 6 Con 4	Tisdale
P1028784	NW ¼ N ½ Lot 9 Con 4	Tisdale
P1028783	NE ¼ N ½ Lot 9 Con 4	Tisdale
P1031369	Npt SW ¼ N ½ Lot 9 Con 4	Tisdale
P1031810	Npt SE ¼ N ½ Lot 10 Con 4	Tisdale
P1031809	NE ¼ N ½ Lot 10 Con 4	Tisdale

Table 2: Patented Mineral Claims (mining rights only)

PARCEL NUMBER	LOCATION	TOWNSHIP
16380SEC	S ½ Lot 7 Con 1	Murphy
13262W+T	Spt Lot 6 Con 6	Tisdale
2728W+T	NE ¼ S ½ Lot 8 Con 6	Tisdale
2726W+T	SE ¼ S ½ Lot 8 Con 6	Tisdale
2727W+T	SW ¼ S ½ Lot 8 Con 6	Tisdale
3078W+T	NE ¼ N ½ Lot 8 Con 6	Tisdale
3079W+T	NW ¼ N ½ Lot 8 Con 6	Tisdale
3080W+T	NE ¼ N ½ Lot 9 Con 6	Tisdale
2729W+T	NE ¼ S ½ Lot 9 Con 6	Tisdale
2730W+T	SE ¼ N ½ Lot 9 Con 6	Tisdale
5143W+T	NE ¼ S ½ Lot 6 Con 5	Tisdale
1891SND	SE ¼ N ½ Lot 6 Con 5	Tisdale
2731W+T	NW ¼ N ½ Lot 8 Con 5	Tisdale
12204W+T	NW ¼ N ½ Lot 9 Con 5	Tisdale
1741SND	NW ¼ S ½ Lot 9 Con 5	Tisdale
12583W+T	SW ¼ S ½ Lot 9 Con 5	Tisdale
2725W+T	NE ¼ N ½ Lot 9 Con 5	Tisdale
1743SND	SW ¼ N ½ Lot 9 Con 5	Tisdale
6408W+T	pt SE ¼ S ½ Lot 10 Con 5	Tisdale
1029W+T	NE ¼ S ½ Lot 5 Con 4	Tisdale
1031SND	SE ¼ N ½ Lot 5 Con 4	Tisdale
1889SND	NW ¼ N ½ Lot 8 Con 4	Tisdale
10561W+T	Spt SW ¼ N ½ Lot 9 Con 4	Tisdale
10653W+T	Spt SE ¼ N ½ Lot 10 Con 4	Tisdale

Table 3: Patented Mineral Claims (mining and surface rights)

PARCEL NUMBER	LOCATION	TOWNSHIP
3081W+T	SE ¼ N ½ Lot 9 Con 6	Tisdale
1691SND	SW ¼ S ½ Lot 6 Con 5 SR west Hwy 655 = MPMI SR east Hwy = R. Rochon	Tisdale
1888SND	NW ¼ S ½ Lot 6 Con 5	Tisdale
1890SND	SW ¼ N ½ Lot 6 Con 5	Tisdale
1866SND	SE ¼ S ½ Lot 7 Con 5	Tisdale
1589SND	SEpt Spt Lot 6 Con 4	Tisdale



**MONETA OPTION
PROPERTY LOCATION**

PROJECT NO. 546		
MONETA PROPERTY ONTARIO LOCATION MAP		
DATE: 11\96	ORIG BY: K.FARRELL DRAWN BY: WNC	DWG.NO. G:\ACADDWGS\546
SCALE: 1:140,000	NTS. REF.	

Figure 1

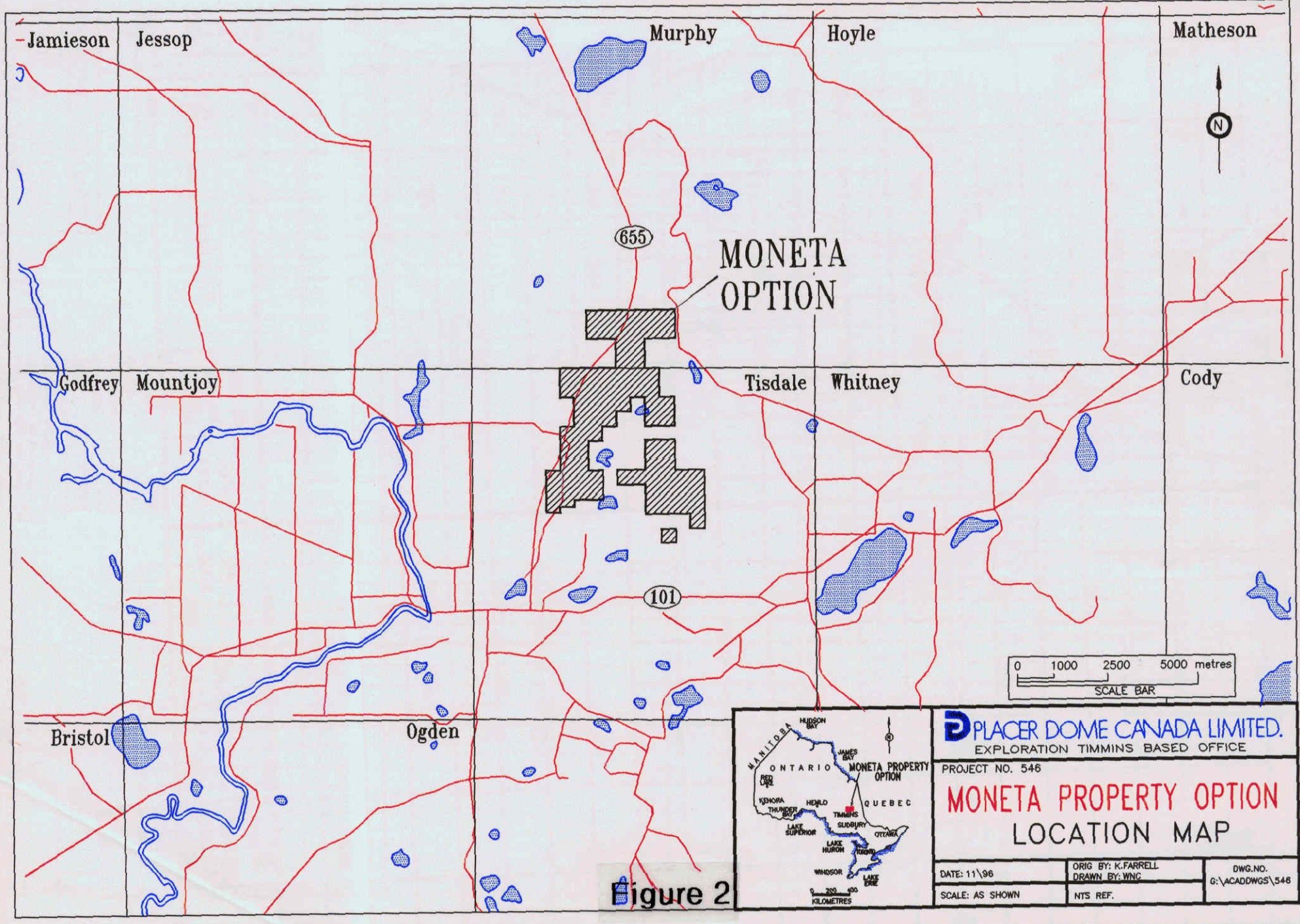


Figure 2

PLACER DOME CANADA LIMITED. EXPLORATION TIMMINS BASED OFFICE		
PROJECT NO. 546		
MONETA PROPERTY OPTION LOCATION MAP		
DATE: 11\96	ORIG BY: K.FARRELL DRAWN BY: WNC	DWG.NO. G:\ACADDWGS\546
SCALE: AS SHOWN	NTS REF.	

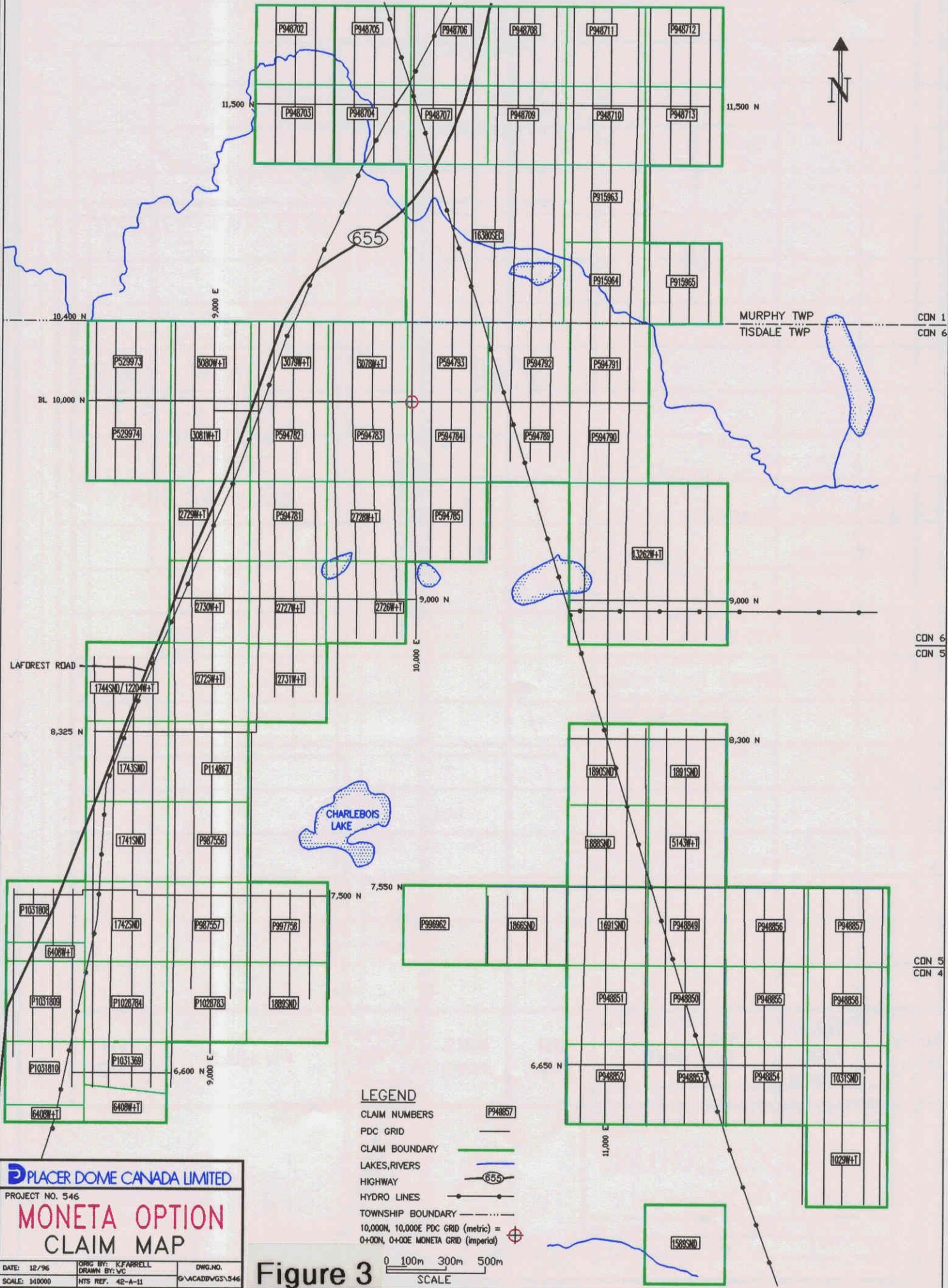
LOT 9

LOT 8

LOT 7

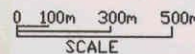
LOT 6

LOT 5



LEGEND

- CLAIM NUMBERS P948857
- PDC GRID
- CLAIM BOUNDARY
- LAKES, RIVERS
- HIGHWAY 655
- HYDRO LINES
- TOWNSHIP BOUNDARY
- 0+00N, 0+00E PDC GRID (metric) =
- 0+00N, 0+00E MONETA GRID (imperial)



PLACER DOME CANADA LIMITED
 PROJECT NO. 546
MONETA OPTION
CLAIM MAP
 DATE: 12/96 DRG. BY: CFARRELL DWG. NO.
 SCALE: 1:10000 NTS REF. 42-A-11 G\ACADD\VG\546

Figure 3

CON 1
CON 6
CON 5
CON 5
CON 4



LEGEND

- PROPERTY BOUNDARY
- PDC GRID
- POWER LINE
- HIGHWAY 655
- DRILLHOLE TRACE
- CLAIM NUMBER
- TOWNSHIP BOUNDARY
- CLAIM BOUNDARY
- COMMON GRID CENTRE

PDC 10000N, 10000E PDC GRID (metric)
0+00N, 0+00E MONETA GRID (Imperial)



PLACER DOME CANADA LIMITED
PROJECT NO. 546

DRILLHOLE LOCATIONS
MONETA OPTION

DATE: 12/96	ORIG BY: K.FARRELL	DWG. NO.
SCALE: AS SHOWN	DRAWN BY: MC	G:\ACADINGS\546
	NTS REF. 42 A-11	

Figure 4

APPENDIX A

CERTIFICATE OF QUALIFICATIONS

CERTIFICATE OF QUALIFICATIONS

THIS IS TO CERTIFY THAT:

I have been a resident of 88A William Avenue, in South Porcupine, Ontario since November 1995.

I have graduated with distinction from Laurentian University, Sudbury, Ontario with an Honours Bachelor of Science degree in Geology in 1995.

I have been practising my profession as an exploration geologist since graduation.

I am a member of the Prospectors and Developers Association of Canada.

Statements made within this report are based upon work performed on the property by Placer Dome Canada and the study of previous geological reports on the property.

I have disclosed all relevant material, descriptive and interpretive, which is, to the best of my knowledge, necessary to gain a complete understanding of the viability of the project and the recommendations.

I have participated and supervised a drilling program, consisting of 7 holes and 1666.86 metres, on the Moneta Porcupine Option from July 17 to August 14, 1996.

I have no interest, direct or indirect, in the property described, nor do I anticipate receiving any such interest.



**Kathy Farrell, Hons.B.Sc.
Geologist**

December 1996

APPENDIX B
DIAMOND DRILL HOLE RECORDS

Date: 11 Dec, 1996

PLACER DOME CANADA LIMITED
MONETA PORCUPINE OPTION
DRILL HOLE RECORD

Page: 1 of 14

Northing: 10405
Easting: 10050
Surveyed: No

Drill Hole: 546-001
Hole Length: 225.70 metres

Collar Azi.: 360
Collar Dip: -45

Sperry Sun Tests
Depth Azi. Dip

Drilled by: Norex Drilling Limited
Drill type: 25
Core size: NQ
Date Started: July 17, 1996
Date Finished: July 20, 1996

NTS Reference: 42A/06

140.0 354 -41
225.7 351 -37

Claim: Patent 16380SEC
Length per claim: 225.70m

Core Samples: 185
Sludge Samples: 41
Sample Type: Au

Logged by: Kathy Farrell
Date Logging Started: July 20, 1996
Date Logging Finished: July 29, 1996
Geotechnical Log By: Michael De Luca

Post Location:
Depth to bedrock: 20m
Material left in hole: Casing pulled, hole cemented.

Purpose: Test North Volcanic Zone, mag high, HLEM conductor
Local Reference: 5m N of Murphy/Tisdale Twp Line & 690m E of Hwy 655
Core Storage: Returned to Moneta Porcupine Mines Inc.

Signature: 

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
.00	20.20	0VB	Assay values of 0.000 g/t represent less than 0.005 g/t or below the detection limit. OVERBURDEN Overburden. Casing went 1 meter into bedrock, therefore 21 m casing.					
20.20	27.00	1A2	BASALTIC KOMATIITE Altered Basaltic Komatiite. Texture - stockworked, and foliated. Moderately hard, light blueish-grey, very fine to fine grained. 0.% total sulphides. Moderate stringers of carbonatization. Weak to moderate stringers of silicification. Trace fracture filling chloritization. 5% stringers of quartz-carbonate. 1% fracture filling carbonate. The hole collared in ultramafics with up to 5 quartz carbonate veins and stringers. The veins anastomose throughout the core. The core is more serpentine altered near the contact with the fault gouge. The ultramafic is not magnetic, mag sus is not over one. 20.20 21.12 5% stringers of quartz-carbonate. Foliation at 55 dca. Quartz veins at 50 dca. 20.49 .04 m crosscutting quartz-carbonate vein at 50 dca. 21.12 22.19 5% stringers of quartz-carbonate. Foliation at 55 dca. Quartz veins at 50 dca. 22.19 23.50 5% veins of quartz-carbonate. Foliation at 55 dca. Quartz veins at 65 dca. 23.50 24.00 1% stringers of quartz-carbonate. Foliation at 55 dca. Quartz veins at 55 dca. 24.00 25.00 10% stringers of quartz-carbonate. Foliation at 55 dca. Quartz veins at 35 dca. 25.00 26.00 5% stringers of quartz-carbonate. Foliation at 50 dca. Quartz veins at 55 dca. 25.24 .02 m very strong fracture at 55 dca. 100% associated sericite. 26.80 27.00 2% Fault. Very soft, pale green, very fine grained. .00% total sulphides. The fault occurs at the lower contact of the ultramafic although no lower core angle has been measured.	TM23980	20.20	21.12	.92	.000
				TM23981	21.12	22.19	1.07	.000
				TM23982	22.19	23.50	1.31	.000
				TM23983	23.50	24.00	.50	.000
				TM23984	24.00	25.00	1.00	.000
				TM23985	25.00	26.00	1.00	.000
27.00	40.71	2A3	26.80 .20 m intense fault zone 15% associated talc. MAGNESIUM BASALT Magnesium Basalt. Texture - massive, and microveined. Moderately hard to hard, light green, fine					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			grained. .00% total sulphides. Moderate veins of carbonatization. 3% veins of quartz-carbonate. Magnesian mafic flow with a gradational lower contact with ultramafics. Variable alteration and veining within unit. 27.00 29.44 Massive mafic flow with minor patchy carbonate alteration.					
			27.00 Faulted contact.					
			27.51 Very weak foliation at 55 dca.					
			29.30 30.34 2% veins of quartz-carbonate. Foliation at 50 dca. Quartz veins at 30 dca.	TM23986	29.30	30.34	1.04	.005
			29.44 33.69 5% quartz-carbonate veining and stringers. The angle is variable. No sulphides are associated with veins.					
			30.22 .01 m quartz-carbonate vein at 30 dca.					
			30.34 31.07 5% veins of quartz-carbonate. Foliation at 50 dca. Quartz veins at 30 dca.	TM23987	30.34	31.07	.73	.020
			31.07 32.00 10% veins of quartz-carbonate. Foliation at 55 dca. Quartz veins at 40 dca.	TM23988	31.07	32.00	.93	.000
			31.68 .08 m quartz-carbonate vein at 40 dca.					
			32.00 32.94 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM23989	32.00	32.94	.94	.010
			32.27 Weak foliation at 55 dca.					
			32.94 33.22 Trace blebs of pyrite. 40% veins of quartz-carbonate. 1% lenses of chlorite. Foliation at 55 dca. Quartz veins at 55 dca.	TM23990	32.94	33.22	.28	.000
			33.22 33.72 5% veins of quartz-carbonate. Foliation at 55 dca. Quartz veins at 85 dca.	TM23991	33.22	33.72	.50	.035
			33.72 34.94 2% stringers of quartz-carbonate. Foliation at 55 dca. Quartz veins at 45 dca.	TM23992	33.72	34.94	1.22	.000
			33.90 34.94 Less than 1% quartz-carbonate veining/stringers. Mainly massive mafic volcanic.					
			34.15 Very weak foliation at 55 dca.					
			34.94 35.94 Up to 3% quartz-carbonate stringers up to contact with carbonatized and slightly silicified mafics.					
			34.94 35.92 10% veins of quartz-carbonate. Foliation at 55 dca. Quartz veins at 55 dca.	TM23993	34.94	35.92	.98	.000
			35.92 37.46 10% lenses of quartz-carbonate. Foliation at 50 dca. Quartz veins at 65 dca.	TM23994	35.92	37.46	1.54	.015
			35.94 37.45 Carbonatized and slightly silicified mafic volcanics with 5% quartz-carbonate stringers.					
			36.16 .03 m quartz-carbonate vein at 55 dca.					
			37.45 38.23 Massive carbonatized mafics, no stringers.					
			37.69 Weak foliation at 50 dca.					
			38.19 38.89 20% lenses of quartz-carbonate. Foliation at 50 dca. Quartz veins at 80 dca.	TM23995	38.19	38.89	.70	.020
			38.23 40.71 5-10% quartz-carbonate stringers and veins in carbonatized mafic volcanics. Slight silicification adjacent to veins.					
			38.89 39.67 15% veins of quartz-carbonate. Foliation at 50 dca. Quartz veins at 70 dca.	TM23996	38.89	39.67	.78	.020
			39.67 40.71 25% lenses of quartz-carbonate. Foliation at 50 dca. Quartz veins at 45 dca.	TM23997	39.67	40.71	1.04	.000
			39.67 40.71 QC Sample tm23998 - DUP : 0.00 g/tonne.					
			39.96 .06 m quartz-carbonate vein at 0 dca.					
40.71	62.56	1A	ULTRAMAFIC FLOW Talcose Ultramafic Flow. Texture - brecciated, and microveined. Moderately hard, light blueish-grey, fine grained. .00% total sulphides. Weak microveins of carbonatization. Very weak microveins of silicification. 5% veins of quartz-carbonate. 2% blebs of carbonate. This unit of ultramafic flows has a gradational contact with the overlying basalt, it is talcose with quartz-carbonate veins and stringers and possible clusters of ankerite proximal to the veins. The ankerite appears as blebs or clusters and stringers. The lower contact with the mafic volcanics is gradational. 40.71 43.36 Zone of 10-15% quartz-carbonate (ankerite) veining and stringers. The clusters (blebs) of ankerite are associated with more chloritic sections. As well the areas appear almost brecciated by the intensity of the stringers.					
			40.71 QC Sample tm23999 - B : 0.00 g/tonne.	TM24000	40.71	41.76	1.05	.000
			40.71 41.76 20% lenses of quartz-carbonate. Quartz veins at 60 dca.					
			41.76 43.36 25% veins of quartz-carbonate. 5% patchy quartz-ankerite. Quartz veins at 60 dca.	TM24001	41.76	43.36	1.60	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
43.36	44.08		Less than 5% veining within massive ultramafic.					
44.08	44.76		Area of intense alteration. Quartz-carbonate veining general angle is 25 degrees, they cross-cut the carbonate (ankerite) patch of clusters.					
44.08	44.76		15% lenses of quartz-carbonate. 1% patchy quartz-ankerite. Quartz veins at 25 dca.	TM24002	44.08	44.76	.68	.000
44.24			.01 m quartz-carbonate vein at 25 dca.					
44.76	46.41		Massive ultramafics, no alteration or veining.					
46.37	47.21		3% stringers of calcite. 5% stringers of chlorite. Foliation at 50 dca. Quartz veins at 15 dca.	TM24003	46.37	47.21	.84	.000
46.41	47.90		Up to 15% chlorite, calcite and serpentine stringers and veins. The core is very blocky and foliations vary.					
47.21	48.10		20% stringers of calcite. 10% stringers of chlorite. Foliation at 50 dca. Quartz veins at 15 dca.	TM24004	47.21	48.10	.89	.025
47.90	50.61		Contains chlorite stringers with carbonate in stringers and as patches within the matrix (only 1%).					
48.10	49.06		10% stringers of calcite. 10% stringers of chlorite. Foliation at 50 dca. Quartz veins at 20 dca.	TM24005	48.10	49.06	.96	.035
48.24			Very weak foliation at 50 dca.					
49.06	49.92		10% stringers of calcite. 5% stringers of chlorite. Foliation at 50 dca. Quartz veins at 30 dca.	TM24006	49.06	49.92	.86	.000
49.92	50.18		10% veins of quartz-carbonate. 10% stringers of chlorite. Foliation at 50 dca. Quartz veins at 85 dca.	TM24007	49.92	50.18	.26	.000
50.18	50.61		3% stringers of calcite. 15% stringers of chlorite. Foliation at 45 dca.	TM24008	50.18	50.61	.43	.040
50.23			.03 m chlorite stringer at 5 dca. 1% associated calcite.					
50.61	56.57		Up to 15-20% chlorite-carbonate stringers as well as minor quartz-carbonate veins at 50 dca. There is patchy carbonate?? alteration within the matrix, and is located adjacent to stringers/veins with chlorite. All structures occur at an angle to the foliation. The patchy alteration may be talc replacement of ?olivine? or some other mineral.					
50.61	51.49		2% veins of quartz-carbonate. 1% veins of sericite. Foliation at 45 dca. Quartz veins at 40 dca.	TM24009	50.61	51.49	.88	.005
51.00			.01 m quartz vein at 20 dca.					
51.43			.02 m quartz-carbonate vein at 40 dca. 5% associated chlorite.					
51.49	52.51		1% stringers of quartz-carbonate. 20% mottled talc. Foliation at 45 dca. Quartz veins at 40 dca.	TM24010	51.49	52.51	1.02	.000
52.36			Very weak foliation at 45 dca.					
52.51	53.50		5% stringers of quartz-carbonate. 20% intrafolial talc. Foliation at 45 dca. Quartz veins at 10 dca.	TM24011	52.51	53.50	.99	.000
53.50	54.50		5% veins of quartz-carbonate. 30% intrafolial talc. Foliation at 45 dca. Quartz veins at 35 dca.	TM24012	53.50	54.50	1.00	.005
53.79			.01 m carbonate vein at 35 dca. 20% associated sericite.					
54.50	55.50		1% veins of quartz-carbonate. 10% intrafolial talc. Foliation at 45 dca. Quartz veins at 40 dca.	TM24013	54.50	55.50	1.00	.040
55.04			.03 m quartz-carbonate vein at 40 dca. 15% associated chlorite.					
55.50	56.56		1% stringers of quartz-carbonate. 10% intrafolial talc. Foliation at 45 dca. Quartz veins at 15 dca.	TM24014	55.50	56.56	1.06	.050
56.51			Very weak foliation at 45 dca.					
56.56	57.53		3% veins of quartz-carbonate. 1% intrafolial sericite. Foliation at 45 dca. Quartz veins at 50 dca.	TM24015	56.56	57.53	.97	.020
56.57	58.17		Minor (5%) chlorite stringers with 1% quartz-carbonate veining. Possibly some talc within the fractures.					
57.06			.03 m carbonate vein at 50 dca. 10% associated chlorite.					
58.17	60.40		Blocky core, that is highly fractured with much talc.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
			58.20 .04 m carbonate stringer at 5 dca. 50% associated chlorite. 60.40 62.56 Massive ultramafic with an alteration zone at the contact from 62.28 to 62.50. It is possibly talc and chlorite.					
			62.07 Weak to moderate foliation at 50 dca. 62.20 62.56 60% intrafolial sericite. Foliation at 50 dca. Quartz veins at 40 dca. 62.20 62.56 QC Sample tm24017 - DUP : 0.41 g/tonne. 62.44 .20 m carbonate vein at 40 dca. 10% associated sericite.	TM24016	62.20	62.56	.36	.080
62.56	160.94	2A3	MAGNESIUM BASALT Magnesium Basalt. Texture - flow brecciated, and pillowed. Moderately hard to hard, light green, fine grained. 1% blebs of pyrite overall. 1% blebs of pyrrhotite overall. .01% total sulphides. Weak to moderate stringers of carbonatization. 05% veins of quartz-carbonate. 05% stringers of carbonate. This mafic volcanic has a gradational contact with the overlying ultramafic unit. The mafic is chlorite rich and is moderately foliated, with the stringers and veins generally parallel to the foliation. This alteration looks like banding in the rock, or maybe the rock is flow banded. There is a zone where black selvages occur and contain magnetite and disseminated pyrrhotite through the zone and especially along the contact. The zones occur parallel to the foliation. They may also be very thin bands of interflow sediments. 62.56 68.88 There are carbonatized and silicified zones parallel to the foliation. The zones are lensoid and range from 1cm to 50cm wide. There are few distinctive veins. 62.56 QC Sample tm24018 - B : 0.00 g/tonne. 62.56 Gradational contact. 63.02 63.30 10% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 60 dca. 63.14 .04 m quartz-carbonate vein at 60 dca. 64.30 64.85 40% lenses of quartz-carbonate. Foliation at 45 dca. 64.88 Weak to moderate foliation at 45 dca. 64.90 Weak to moderate foliation at 45 dca. 65.43 66.50 50% lenses of quartz-carbonate. Foliation at 35 dca. 66.50 67.50 45% lenses of quartz-carbonate. Foliation at 60 dca. 66.70 Moderate foliation at 35 dca. 67.22 Moderate foliation at 60 dca. 67.50 68.50 45% lenses of quartz-carbonate. Foliation at 45 dca. 67.85 Moderate foliation at 45 dca. 68.50 68.91 55% lenses of quartz-carbonate. Foliation at 55 dca. 68.77 Weak to moderate foliation at 55 dca. 68.88 76.53 Massive mafic volcanics, moderately to strongly foliated. Up to 3% calcite stringers following the foliation, as well as 1% yellowish brown sericite stringers. This section contains the thin 0.5 to 4.5 cm magnetite rich interflow sediments with 5-10% pyrrhotite. The edges of the zones are silicified. They average one zone per metre. Minor disseminated pyrrhotite is also found within the main mafic adjacent to the contact with the magnetite rich zone. 70.00 71.00 Trace dissemination pyrrhotite. 5% stringers of quartz-carbonate. 2% lenses of magnetite. Foliation at 55 dca. Quartz veins at 40 dca. 72.32 Moderate foliation at 55 dca. 75.33 Weak to moderate foliation at 45 dca. 75.50 76.00 Trace disseminated pyrrhotite. 1% stringers of quartz-carbonate. 15% lenses of magnetite. Foliation at 45 dca. 76.00 77.00 10% stringers of quartz-carbonate. Foliation at 45 dca. 76.25 Weak to moderate foliation at 50 dca.					
			62.56 QC Sample tm24018 - B : 0.00 g/tonne.	TM24019	63.02	63.30	.28	.010
			63.02 63.30 10% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 60 dca.					
			63.14 .04 m quartz-carbonate vein at 60 dca.					
			64.30 64.85 40% lenses of quartz-carbonate. Foliation at 45 dca.	TM24020	64.30	64.85	.55	.025
			64.88 Weak to moderate foliation at 45 dca.					
			64.90 Weak to moderate foliation at 45 dca.					
			65.43 66.50 50% lenses of quartz-carbonate. Foliation at 35 dca.	TM24021	65.43	66.50	1.07	.010
			66.50 67.50 45% lenses of quartz-carbonate. Foliation at 60 dca.	TM24022	66.50	67.50	1.00	.030
			66.70 Moderate foliation at 35 dca.					
			67.22 Moderate foliation at 60 dca.					
			67.50 68.50 45% lenses of quartz-carbonate. Foliation at 45 dca.	TM24023	67.50	68.50	1.00	.000
			67.85 Moderate foliation at 45 dca.					
			68.50 68.91 55% lenses of quartz-carbonate. Foliation at 55 dca.	TM24024	68.50	68.91	.41	.000
			68.77 Weak to moderate foliation at 55 dca.					
			68.88 76.53 Massive mafic volcanics, moderately to strongly foliated. Up to 3% calcite stringers following the foliation, as well as 1% yellowish brown sericite stringers. This section contains the thin 0.5 to 4.5 cm magnetite rich interflow sediments with 5-10% pyrrhotite. The edges of the zones are silicified. They average one zone per metre. Minor disseminated pyrrhotite is also found within the main mafic adjacent to the contact with the magnetite rich zone.					
			70.00 71.00 Trace dissemination pyrrhotite. 5% stringers of quartz-carbonate. 2% lenses of magnetite. Foliation at 55 dca. Quartz veins at 40 dca.	TM24025	70.00	71.00	1.00	.000
			72.32 Moderate foliation at 55 dca.					
			75.33 Weak to moderate foliation at 45 dca.					
			75.50 76.00 Trace disseminated pyrrhotite. 1% stringers of quartz-carbonate. 15% lenses of magnetite. Foliation at 45 dca.	TM24026	75.50	76.00	.50	.000
			76.00 77.00 10% stringers of quartz-carbonate. Foliation at 45 dca.	TM24027	76.00	77.00	1.00	.000
			76.25 Weak to moderate foliation at 50 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
76.53	81.63		The carbonate alteration increases in the form of quartz- calcite veins parallel to and crosscutting foliation. Possible sericite veins have also increased up to 3%. The veins have spots of sericite adjacent to the contact.					
77.00	78.00		15% stringers of quartz-carbonate. Foliation at 30 dca. Quartz veins at 40 dca.	TM24028	77.00	78.00	1.00	.000
77.22			Moderate foliation at 30 dca.					
77.92			.02 m quartz-carbonate vein at 40 dca.					
78.00	79.00		10% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 30 dca.	TM24029	78.00	79.00	1.00	.000
78.52			.03 m quartz-carbonate vein at 30 dca.					
79.00	80.00		10% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 45 dca.	TM24030	79.00	80.00	1.00	.000
79.12			Moderate foliation at 45 dca.					
80.58			Moderate foliation at 45 dca.					
80.74	81.62		20% stringers of quartz-carbonate. Foliation at 30 dca. Quartz veins at 40 dca.	TM24031	80.74	81.62	.88	.000
81.00			.01 m quartz-ankerite vein at 40 dca.					
81.55			Moderate foliation at 30 dca.					
81.63	92.17		Large quartz-calcite veins from 3 to 12cm begin around 84.65m. No mineralization is associated with these veins. Calcite stringers are still present parallel to foliation. The mafic gradually lightens and becomes softer and more talcose, possibly it has become a komatiitic basalt.					
83.40	84.50		10% stringers of quartz-carbonate. 20% stringers of serpentine. Foliation at 30 dca.	TM24032	83.40	84.50	1.10	.000
84.50	85.47		20% veins of quartz-carbonate. Foliation at 30 dca. Quartz veins at 15 dca.	TM24033	84.50	85.47	.97	.000
84.70			.06 m crosscutting quartz-carbonate vein at 15 dca.					
85.23			.05 m quartz-carbonate vein at 30 dca.					
86.00	86.48		40% stringers of quartz-carbonate. Foliation at 45 dca.	TM24034	86.00	86.48	.48	.000
86.83			Weak to moderate foliation at 45 dca.					
87.50	88.50		15% veins of quartz-carbonate. 1% stringers of chlorite. Foliation at 45 dca. Quartz veins at 40 dca.	TM24035	87.50	88.50	1.00	.000
88.11			.02 m quartz-carbonate vein at 40 dca.					
88.50	89.50		20% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 50 dca.	TM24036	88.50	89.50	1.00	.020
88.50	89.50		QC Sample tm24037 - DUP : 0.01 g/tonne.					
89.06			.18 m quartz-carbonate vein at 50 dca.					
89.50			QC Sample tm24038 - B : 0.01 g/tonne.					
90.50	91.50		2% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 50 dca.	TM24039	90.50	91.50	1.00	.000
90.95			.02 m quartz-carbonate vein at 50 dca.					
92.17	117.00		20% Magnesium Basalt. Texture - massive, and equigranular. Moderately hard to hard, pale greyish-green, medium to coarse grained. .00% total sulphides.					
			This section has a gradational contact with the fine grained mafic above making this portion a massive flow instead of an intrusive. The contact area is softer, more talcose/chloritic than the main portion of the massive medium grained flow. The change takes place over a 2m span. The rock contains 30% plagioclase, 20% quartz, 5% sericite, and remnants of altered mafic minerals as amphiboles and chlorite. Sections are slightly silicified as well as having minor (<1%) veining. The minerals are parallel to the foliations which varies throughout the section. Up to 1% silicification occurs as patchy greyish zones, minor calcite is associated with these zones. 92.17 94.73 Moderate hardness, talcose alteration. It is part of the gradational contact, the grain size increases from very fine to medium grained in the main portion of the flow. Foliation is more intense in this section.					
92.65			Very weak foliation at 35 dca.					
94.00			Weak to moderate foliation at 40 dca.					
96.00	97.00		10% veins of quartz-carbonate. 5% fracture filling serpentine. Foliation at 40 dca. Quartz veins at 40 dca.	TM24040	96.00	97.00	1.00	.020

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			96.38 .01 m quartz-carbonate vein at 40 dca.					
			96.65 Weak foliation at 40 dca.					
			97.11 100.52 The flow becomes more coarse grained, for 20cm @ 99.80m it is very coarse grained, possibly associated with alteration. There are up to 5% quartz-calcite veins within this rock although no sulphides are present.					
			98.50 99.00 10% stringers of quartz-carbonate. Foliation at 45 dca.	TM24041	98.50	99.00	.50	.015
			99.00 100.10 5% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 25 dca.	TM24042	99.00	100.10	1.10	.000
			99.21 Weak foliation at 45 dca.					
			100.52 111.00 Generally back to medium grained flow with less than 5% quartz-calcite veining.					
			101.57 102.06 15% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 40 dca.	TM24043	101.57	102.06	.49	.025
			101.66 .03 m quartz-carbonate vein at 40 dca.					
			101.92 .02 m quartz-carbonate vein at 65 dca.					
			103.25 Weak to moderate foliation at 35 dca.					
			103.50 104.50 2% stringers of quartz-carbonate. 15% veins of chlorite. Foliation at 35 dca.	TM24044	103.50	104.50	1.00	.005
			104.72 .02 m quartz-carbonate vein at 45 dca.					
			105.50 106.50 10% veins of quartz-carbonate. 5% stringers of chlorite. Foliation at 50 dca. Quartz veins at 35 dca.	TM24045	105.50	106.50	1.00	.035
			105.56 Weak foliation at 35 dca.					
			105.74 .01 m crosscutting quartz-carbonate vein at 35 dca. 20% associated serpentine.					
			106.31 Weak to moderate foliation at 50 dca.					
			107.34 Weak to moderate foliation at 45 dca.					
			109.00 110.00 10% patchy quartz. Foliation at 45 dca.	TM24046	109.00	110.00	1.00	.025
			109.31 Weak to moderate foliation at 45 dca.					
			110.76 Moderate foliation at 55 dca.					
			110.96 111.44 5% veins of quartz-carbonate. 30% intrafolial chlorite. Foliation at 25 dca. Quartz veins at 25 dca.	TM24047	110.96	111.44	.48	.005
			111.00 111.40 Strong foliation @ 25 dca with 30% chlorite parallel to foliation and associated with the quartz-calcite vein following the same direction.					
			111.16 Strong foliation at 25 dca.					
			111.16 .01 m quartz-carbonate vein at 25 dca. 20% associated chlorite.					
			111.40 113.23 Fine to medium grain size to beginning of the gradational contact back into very fine grained mafic flow.					
			111.91 Moderate foliation at 45 dca.					
			112.29 .01 m quartz-carbonate vein at 50 dca.					
			113.23 117.00 Transitional from fine to very fine grained and well foliated mafics. There is 1% quartz-calcite veins.					
			113.29 114.00 10% veins of quartz-carbonate. Foliation at 40 dca. Quartz veins at 65 dca.	TM24048	113.29	114.00	.71	.000
			113.70 .04 m quartz-carbonate vein at 65 dca.					
			114.18 Weak to moderate foliation at 40 dca.					
			114.65 .01 m quartz-carbonate stringer at 50 dca. 30% associated chlorite.					
			114.73 .02 m quartz-carbonate vein at 70 dca.					
			115.51 Moderate foliation at 45 dca.					
			116.05 117.00 5% veins of quartz-carbonate. 2% stringers of chlorite. Foliation at 65 dca.	TM24049	116.05	117.00	.95	.000
			117.00 124.00 Globular, patchy silicification which are elongate and parallel to foliation (15%). There is 1-2% quartz-calcite veining.	TM24050	117.00	118.00	1.00	.015
			117.00 118.00 10% veins of quartz-carbonate. 5% stringers of chlorite. Foliation at 65 dca.					
			118.25 119.02 05% mottled quartz. Foliation at 50 dca.	TM24051	118.25	119.02	.77	.010
			118.77 Moderate foliation at 50 dca.					
			119.02 120.20 7% mottled quartz. Foliation at 50 dca.	TM24052	119.02	120.20	1.18	.010

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
120.20	120.48		15% veins of quartz. 10% pervasive silicification. Foliation at 50 dca. Quartz veins at 40 dca.	TM24053	120.20	120.48	.28	.005
120.38			.01 m quartz vein at 40 dca. Lower core angle at 45 dca.					
120.48	121.47		2% veins of quartz. 10% mottled silicification. Foliation at 55 dca. Quartz veins at 65 dca.	TM24054	120.48	121.47	.99	.040
121.28			Moderate foliation at 55 dca.					
121.47	122.26		20% mottled quartz. Foliation at 55 dca. Quartz veins at 65 dca.	TM24055	121.47	122.26	.79	.025
121.72			Quartz stringer at 65 dca.					
122.26	123.26		25% pervasive quartz. 8% veins of quartz-carbonate. Foliation at 50 dca. Quartz veins at 70 dca.	TM24056	122.26	123.26	1.00	.020
122.26	123.26		QC Sample tm24057 - DUP : 0.00 g/tonne.					
122.49			.03 m quartz-carbonate vein at 70 dca.					
123.04			.02 m quartz-carbonate vein at 70 dca.					
123.26			QC Sample tm24058 - B : 0.00 g/tonne.					
123.26	124.00		10% mottled quartz. 5% stringers of chlorite. Foliation at 50 dca.	TM24059	123.26	124.00	.74	.015
123.37			Weak to moderate foliation at 50 dca.					
124.00	125.00		Pervasively silicified zone with patchy carbonatization adjacent to the zone. Minor (2%) chlorite stringers.					
124.00	125.00		25% pervasive quartz. 5% stringers of chlorite. Foliation at 45 dca.	TM24060	124.00	125.00	1.00	.055
124.82			Weak to moderate foliation at 45 dca.					
125.00	126.93		10% quartz-calcite veining, average vein is 1.5cm wide.					
125.00	125.94		01% blebs of pyrrhotite. 10% veins of quartz. Foliation at 45 dca. Quartz veins at 45 dca.	TM24061	125.00	125.94	.94	.040
125.48			.03 m quartz-carbonate vein at 45 dca.					
125.94	126.93		.5% blebs of pyrrhotite. 15% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 55 dca.	TM24062	125.94	126.93	.99	.025
126.08			.01 m quartz-carbonate vein at 55 dca.					
126.49			.01 m quartz vein at 55 dca.					
126.63			.02 m quartz-carbonate vein at 25 dca.					
126.76			Weak to moderate foliation at 45 dca.					
126.93	127.32		Strongly pervasive silicified zone with quartz stringers.					
126.93	127.32		01% disseminated pyrrhotite. 90% pervasive quartz. Foliation at 45 dca.	TM24063	126.93	127.32	.39	.020
127.32	128.42		35% quartz-calcite veins and stringers, parallel and cross-cutting the foliation. All appear to be the same generation of veining.					
127.32	128.42		Trace disseminated pyrrhotite. 40% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 75 dca.	TM24064	127.32	128.42	1.10	.000
127.66			.02 m quartz-carbonate vein at 75 dca.					
128.42	130.53		13cm quartz vein and quartz-calcite stringers within mafic with 1-5% pyrrhotite. The sulphide elongate parallel to foliation.					
128.42	129.71		10% stringers of quartz-carbonate. Foliation at 50 dca. Quartz veins at 20 dca.	TM24065	128.42	129.71	1.29	.000
128.68			Quartz-carbonate stringer at 20 dca.					
128.87			Weak to moderate foliation at 50 dca.					
129.71	129.98		80% veins of quartz. Foliation at 55 dca. Quartz veins at 55 dca.	TM24066	129.71	129.98	.27	.000
129.79			.14 m quartz vein at 55 dca. Lower core angle at 75 dca.					
129.98	130.53		05% disseminated pyrrhotite. 3% stringers of quartz-carbonate. Foliation at 55 dca.	TM24067	129.98	130.53	.55	.000
130.53	131.91		Large quartz-calcite vein with zones of brecciated chlorite and biotite within the vein. Blebs of pyrrhotite and chalcopyrite up to 1% associated with the vein. 2mm blebs and disseminated pyrrhotite within matrix adjacent to the veins.					
130.53	131.24		99% veins of quartz-carbonate. 5% microveins of chlorite. Quartz veins at 60 dca.	TM24068	130.53	131.24	.71	.000
130.58			.66 m quartz vein at 60 dca. 02% associated calcite. Lower core angle at 25 dca.					
131.24	131.49		50% veins of quartz-carbonate. 10% microveins of chlorite. Foliation at 45 dca. Quartz	TM24069	131.24	131.49	.25	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
			veins at 70 dca.					
131.49	131.91		02% blebs of pyrrhotite. 99% veins of quartz-carbonate. 3% microveins of chlorite. Quartz veins at 85 dca.	TM24070	131.49	131.91	.42	.000
131.49	131.91		QC Sample tm24071 - DUP : 0.00 g/tonne.					
131.54			.37 m quartz-carbonate vein at 85 dca. Lower core angle at 75 dca.					
131.91	138.30		5% quartz-calcite stringers cross-cutting foliation.					
131.91			QC Sample tm24072 - B : 0.00 g/tonne.	TM24073	131.91	132.92	1.01	.000
131.91	132.92		5% stringers of quartz-carbonate. Foliation at 45 dca.					
133.10			Moderate foliation at 45 dca.					
134.08			Quartz-carbonate stringer at 45 dca. .0% associated chlorite.					
137.22			Weak to moderate foliation at 55 dca.					
138.26	139.53		01% disseminated pyrrhotite. 7% veins of quartz-carbonate. Foliation at 55 dca. Quartz veins at 45 dca.	TM24074	138.26	139.53	1.27	.000
138.30	140.09		Quartz-calcite veins and stringers and pervasively silicified sections. There is a sharp fault contact at 140.09 with a quartz along the contact. The rock downhole from the fault is less altered than the uphole mafic. As well it contains up to 5% disseminated pyrrhotite along foliation.					
138.58			Quartz-carbonate stringer at 45 dca.					
139.43			Weak to moderate foliation at 55 dca.					
139.53	140.09		40% lenses of quartz-carbonate. Foliation at 55 dca.	TM24075	139.53	140.09	.56	.000
140.09			Thrust fault at 5 dca.					
140.09	140.43		05% disseminated pyrrhotite. 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM24076	140.09	140.43	.34	.000
140.89			Weak to moderate foliation at 55 dca.					
141.79	142.53		.5% disseminated pyrrhotite. 25% stringers of quartz-carbonate.	TM24077	141.79	142.53	.74	.000
141.80	142.50		Mottled quartz-calcite alteration, variably contorted stringers throughout core.					
142.53	143.77		.5% disseminated pyrrhotite. 20% veins of quartz-carbonate. Foliation at 55 dca. Quartz veins at 50 dca.	TM24078	142.53	143.77	1.24	.005
142.77			.03 m quartz-carbonate vein at 50 dca.					
142.96			.01 m quartz-carbonate vein at 55 dca.					
143.77	144.51		10% veins of quartz-carbonate. 2% stringers of chlorite. Foliation at 45 dca.	TM24079	143.77	144.51	.74	.010
144.25	148.50		There are 5% quartz-calcite stringers and veins, the first generation follows the foliation, and there are two more sets which crosscut the foliation perpendicular and then obliquely. At 145.65 there is up to 3% foliated disseminated pyrrhotite within the matrix and fractures. The rock here is well foliated and chloritized.					
144.51	145.47		Trace disseminated pyrrhotite. 2% veins of quartz. 5% stringers of quartz-carbonate. Foliation at 45 dca. Quartz veins at 50 dca.	TM24080	144.51	145.47	.96	.010
145.12			.01 m quartz-carbonate vein at 50 dca.					
145.47	146.57		2% disseminated pyrrhotite. 3% anastomosing stringers of quartz-carbonate. Foliation at 45 dca.	TM24081	145.47	146.57	1.10	.000
146.57	147.33		1% veins of quartz. 3% stringers of quartz-carbonate. Foliation at 55 dca.	TM24082	146.57	147.33	.76	.000
146.60			Weak to moderate foliation at 45 dca.					
147.33	147.91		1% stringers of pyrrhotite. 5% stringers of chlorite. Foliation at 55 dca.	TM24083	147.33	147.91	.58	.000
147.34			Weak to moderate foliation at 55 dca.					
148.39	149.22		Trace disseminated pyrrhotite. 25% pervasive quartz. 1% veins of quartz-carbonate. Foliation at 50 dca. Quartz veins at 40 dca.	TM24084	148.39	149.22	.83	.000
148.50	149.12		Pervasively silicified throughout matrix and there are stringers and veins of quartz running through and brecciating the core.					
148.89			.01 m quartz vein at 40 dca.					
149.12	154.62		From 5-10% quartz-calcite veins and stringers variably contorted. 5% of 5-10cm intense zones of pervasive silicification or quartz stringers. Trace pyrrhotite.					
149.22	150.21		4% intrafolial pyrrhotite. 7% stringers of quartz-carbonate. Foliation at 50 dca.	TM24085	149.22	150.21	.99	.030

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			149.68 Moderate foliation at 50 dca.					
			150.21 151.21 30% pervasive quartz. 05% stringers of quartz-carbonate. Foliation at 50 dca.	TM24086	150.21	151.21	1.00	.015
			151.21 152.24 10% veins of quartz-carbonate. Foliation at 50 dca. Quartz veins at 55 dca.	TM24087	151.21	152.24	1.03	.000
			151.74 .01 m quartz-carbonate vein at 55 dca.					
			152.06 .01 m quartz-carbonate vein at 70 dca.					
			152.24 153.32 10% stringers of quartz. Foliation at 70 dca.	TM24088	152.24	153.32	1.08	.000
			153.32 153.76 35% pervasive quartz. Foliation at 70 dca.	TM24089	153.32	153.76	.44	.000
			153.82 Weak to moderate foliation at 70 dca.					
			154.35 155.40 5% intrafolial pyrrhotite. 40% lenses of quartz-carbonate. Foliation at 45 dca.	TM24090	154.35	155.40	1.05	.000
			154.45 .04 m quartz-carbonate vein at 80 dca.					
			154.62 155.86 Up to 40% carbonatization and 3% possible quartz-ankerite veins parallel to foliation. Trace pyrrhotite is associated with the carbonatization.					
			155.10 Moderate foliation at 45 dca.					
			155.40 156.42 5% intrafolial pyrrhotite. 5% veins of quartz-carbonate. 1% veins of ankerite. Foliation at 45 dca. Quartz veins at 85 dca.	TM24091	155.40	156.42	1.02	.025
			155.40 156.42 QC Sample tm24092 - DUP : 0.01 g/tonne.					
			155.48 .01 m quartz-ankerite vein at 85 dca.					
			155.86 160.66 The rock is well foliated to 1m from the chill margin. There is 2% quartz-carbonate and possible quartz-ankerite veining, as well as 10% quartz stringers cutting through the rock at all angles. There is a small zone of silicification causing brecciation of the core at 158.83.					
			156.42 QC Sample tm24093 - B : 0.01 g/tonne.	TM24094	156.42	157.42	1.00	.000
			156.42 157.42 10% anastomosing stringers of quartz. 1% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 45 dca.					
			156.62 .02 m quartz-carbonate vein at 45 dca.					
			156.69 Weak to moderate foliation at 45 dca.					
			157.42 158.52 10% anastomosing stringers of quartz. 2% stringers of ankerite. Quartz veins at 40 dca.	TM24095	157.42	158.52	1.10	.000
			158.34 Quartz ankerite stringer at 40 dca.					
			158.52 159.10 10% pervasive quartz. 1% stringers of quartz-carbonate. Foliation at 50 dca.	TM24096	158.52	159.10	.58	.005
			159.27 Moderate foliation at 50 dca.					
			159.55 160.03 15% stringers of quartz-carbonate. Quartz veins at 40 dca.	TM24097	159.55	160.03	.48	.000
			159.66 160.94 Very fine grained chill margin of the gabbroic intrusive. There is a blotchy section of white halos around chloritic centres. This may be a replacement texture due to the intrusive.					
			159.78 Quartz-carbonate stringer at 40 dca.					
			160.29 Quartz-carbonate stringer at 75 dca.					
160.94	174.95	10A	GABBRO Gabbro. Texture - chill margined, and foliated. Moderately hard to hard, light greyish-green, medium grained. .00% total sulphides. Trace blotchy carbonatization. 7% veins of quartz-carbonate. The unit is marked to begin near the end of the chill margin, although the contact is gradational as the grain size increases away from the margin. The gabbro is moderately foliated with 10% quartz-calcite veins oblique to foliation. The veins vary from 5 dca to 55 dca. This unit is not mineralized. The last 50cm of this unit has 30% crosscutting quartz- calcite veins and stringers. Mineralogy consists of feldspar and pyroxenes altered to amphibole as well as quartz, calcite and chlorite.					
			161.96 Moderate foliation at 55 dca.	TM24098	162.00	163.00	1.00	.010

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			162.00 163.00 3% veins of quartz-carbonate. Foliation at 55 dca. Quartz veins at 30 dca.					
			162.25 .01 m crosscutting quartz-carbonate vein at 30 dca.					
			163.00 164.00 2% stringers of quartz-carbonate. 5% blotchy calcite. Foliation at 45 dca.	TM24099	163.00	164.00	1.00	.000
			163.68 Moderate foliation at 45 dca.					
			164.00 165.00 2% veins of quartz-carbonate. 1% stringers of calcite. Foliation at 60 dca. Quartz veins at 30 dca.	TM24100	164.00	165.00	1.00	.015
			164.40 .03 m quartz-carbonate vein at 30 dca. 1% associated chlorite.					
			164.88 Moderate foliation at 60 dca.					
			165.00 166.00 5% veins of quartz-carbonate. Foliation at 60 dca. Quartz veins at 50 dca.	TM24101	165.00	166.00	1.00	.010
			165.43 .02 m crosscutting quartz-carbonate vein at 50 dca.					
			165.91 Crosscutting quartz-carbonate stringer at 35 dca.					
			166.00 167.00 5% veins of quartz-carbonate. Foliation at 55 dca. Quartz veins at 25 dca.	TM24102	166.00	167.00	1.00	.000
			166.10 .01 m quartz-carbonate vein at 5 dca.					
			166.69 Quartz-carbonate stringer at 25 dca.					
			167.00 168.00 2% veins of quartz-carbonate. Foliation at 55 dca. Quartz veins at 30 dca.	TM24103	167.00	168.00	1.00	.000
			167.02 Crosscutting quartz-carbonate stringer at 30 dca.					
			168.00 169.00 5% veins of quartz-carbonate. Foliation at 55 dca. Quartz veins at 15 dca.	TM24104	168.00	169.00	1.00	.015
			168.60 Quartz-carbonate vein at 15 dca.					
			168.94 Moderate foliation at 55 dca.					
			170.13 Weak to moderate foliation at 60 dca.					
			171.19 Quartz-carbonate stringer at 10 dca.					
			172.98 Weak to moderate foliation at 55 dca.					
			174.04 .01 m crosscutting quartz-carbonate vein at 45 dca.					
			174.14 .01 m crosscutting quartz-carbonate vein at 55 dca.					
			174.50 175.50 20% veins of quartz-carbonate. Foliation at 55 dca. Quartz veins at 45 dca.	TM24105	174.50	175.50	1.00	.055
174.95	220.55	2A3	MAGNESIUM BASALT Magnesium Basalt. Texture - brecciated, and microveined. Moderately hard to hard, light greyish-green, aphanitic. Trace fracture filling pyrite overall. 2% vein associated pyrrhotite overall. Trace vein associated chalcopyrite overall. 1% total sulphides. Weak pervasive silicification. Moderate stringers of chloritization. 2% microveins of quartz. 2% stringers of quartz-carbonate. This unit has been brecciated by fractures and microveins some of which have undergone a second generation of brecciation. One third of the brecciated veins contain pyrrhotite and minor chalcopyrite to as well the fragments adjacent to the veins have 1mm pockets of disseminated pyrrhotite. Microfractures of pyrrhotite (possible pyrite) are associated with the breccia veins. The majority of the microfractures are chloritic. 174.95 179.06 5% quartz-calcite veins and stringers within very chloritized, massive mafic. There are 10-15cm zones of brecciation. Blotchy calcite occurs within 5% of this rock and is associated with the stringers and veins.					
			175.45 Weak to moderate foliation at 60 dca.	TM24106	176.00	177.00	1.00	.000
			176.00 177.00 5% stringers of quartz-carbonate. Foliation at 60 dca. Quartz veins at 55 dca.					
			176.67 Quartz-carbonate stringer at 55 dca.					
			176.75 Quartz-carbonate stringer at 30 dca.					
			177.00 177.68 .5% fracture filling pyrite. 1% fracture filling pyrrhotite. 2% stringers of quartz-carbonate. Foliation at 60 dca.	TM24107	177.00	177.68	.68	.005
			177.68 178.62 5% fracture filling pyrrhotite. Trace blebs of chalcopyrite. .5% stringers of quartz-carbonate. 3% stringers of calcite. Foliation at 65 dca. Quartz veins at 65 dca.	TM24108	177.68	178.62	.94	.115
			177.68 178.62 QC Sample tm24109 - DUP : 0.08 g/tonne.					
			177.69 178.63 Up to 5% pyrrhotite and trace chalcopyrite within breccia zones. The sulphides are disseminated and blebby and are associated with chlorite and calcite veins. The fragments contain 1-2% disseminated pyrrhotite in the pockets in this zone.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			178.37 Quartz-carbonate stringer at 65 dca.					
			178.62 QC Sample tm24110 - B : 0.02 g/tonne.					
			178.62 179.61 1% fracture filling pyrrhotite. 3% stringers of quartz-carbonate. 1% stringers of calcite. Foliation at 65 dca.	TM24111	178.62	179.61	.99	.015
			179.61 180.62 1% fracture filling pyrrhotite. 3% blotchy quartz-carbonate. Foliation at 65 dca.	TM24112	179.61	180.62	1.01	.005
			180.42 Moderate foliation at 65 dca.					
			180.62 181.60 Trace fracture filling pyrrhotite. 1% stringers of quartz-carbonate. Foliation at 65 dca.	TM24113	180.62	181.60	.98	.010
			182.13 182.77 1% fracture filling pyrrhotite. 10% anastomosing stringers of quartz-carbonate. Foliation at 65 dca.	TM24114	182.13	182.77	.64	.110
			182.74 Moderate foliation at 65 dca.					
			182.77 183.13 Trace fracture filling pyrrhotite. 3% stringers of quartz-carbonate. 25% fracture filling chlorite. Foliation at 65 dca.	TM24115	182.77	183.13	.36	.000
			183.13 184.23 Trace fracture filling pyrrhotite. 5% patchy quartz-carbonate.	TM24116	183.13	184.23	1.10	.005
			184.23 184.55 20% veins of quartz-carbonate. Quartz veins at 65 dca.	TM24117	184.23	184.55	.32	.000
			184.36 .04 m quartz-carbonate vein at 25 dca. Lower core angle at 65 dca.					
			185.00 186.00 Trace fracture filling pyrrhotite. 1% anastomosing stringers of quartz-carbonate.	TM24118	185.00	186.00	1.00	.000
			186.50 187.50 Trace fracture filling pyrrhotite. .5% veins of quartz-carbonate. .5% anastomosing stringers of calcite.	TM24119	186.50	187.50	1.00	.000
			187.50 188.44 Trace blebs of pyrrhotite. Trace stringers of quartz-carbonate. Foliation at 45 dca.	TM24120	187.50	188.44	.94	.000
			188.44 189.50 Trace vein associated pyrite. .2% vein associated pyrrhotite. 2% anastomosing stringers of quartz-carbonate. Foliation at 45 dca.	TM24121	188.44	189.50	1.06	.000
			189.50 190.32 Trace disseminated pyrrhotite. 1% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 45 dca.	TM24122	189.50	190.32	.82	.010
			189.52 Weak foliation at 45 dca.					
			190.13 Crosscutting quartz-carbonate stringer at 45 dca.					
			190.32 190.80 Trace fracture filling pyrite. 2% fracture filling pyrrhotite. Trace fracture filling chalcopyrite.	TM24123	190.32	190.80	.48	.000
			190.80 191.09 Trace fracture filling pyrite. 1% fracture filling pyrrhotite. 35% veins of quartz-carbonate. Quartz veins at 35 dca.	TM24124	190.80	191.09	.29	.030
			190.99 .04 m crosscutting quartz-carbonate vein at 35 dca.					
			191.09 192.09 Trace disseminated pyrrhotite. .5% stringers of quartz-carbonate.	TM24125	191.09	192.09	1.00	.000
			191.39 Crosscutting quartz-carbonate stringer at 55 dca.					
			192.09 192.50 2% fracture filling pyrrhotite. Trace stringers of quartz-carbonate.	TM24126	192.09	192.50	.41	.000
			193.06 194.00 Trace blebs of pyrrhotite. Trace blotchy quartz-carbonate.	TM24127	193.06	194.00	.94	.000
			193.51 Quartz-carbonate stringer at 25 dca.					
			194.00 195.00 Trace blebs of pyrrhotite.	TM24128	194.00	195.00	1.00	.010
			195.50 196.50 Trace disseminated pyrrhotite. 1% flooded quartz. 1% stringers of quartz-carbonate.	TM24129	195.50	196.50	1.00	.030
			197.23 198.07 .5% fracture filling pyrrhotite. .5% flooded quartz. 2% stringers of quartz-carbonate.	TM24130	197.23	198.07	.84	.000
			197.47 Quartz-carbonate stringer at 25 dca.					
			198.07 199.00 .5% disseminated pyrrhotite. .5% flooded quartz.	TM24131	198.07	199.00	.93	.015
			199.00 200.00 1% breccia filled pyrrhotite. 5% stringers of quartz-carbonate. 05% stringers of chlorite. Quartz veins at 35 dca.	TM24132	199.00	200.00	1.00	.000
			199.26 Quartz-carbonate stringer at 35 dca.					
			200.00 201.00 1% disseminated pyrrhotite. 2% stringers of quartz-carbonate. 05% stringers of chlorite. Foliation at 50 dca. Quartz veins at 35 dca.	TM24133	200.00	201.00	1.00	.000
			200.85 Weak to moderate foliation at 50 dca.					
			200.95 Quartz-carbonate stringer at 35 dca.					
			203.00 203.58 2% veins of quartz-carbonate. Foliation at 50 dca. Quartz veins at 25 dca.	TM24134	203.00	203.58	.58	.000
			203.43 .01 m crosscutting quartz-carbonate vein at 25 dca.					
			203.58 204.57 .5% stringers of quartz-carbonate. 05% stringers of chlorite. Foliation at 50 dca.	TM24135	203.58	204.57	.99	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			204.41 Weak to moderate foliation at 50 dca.					
	204.57	205.00	.5% vein associated pyrrhotite. 25% veins of quartz-carbonate. 01% vein associated fuchsite. Foliation at 50 dca. Quartz veins at 65 dca.	TM24136	204.57	205.00	.43	.000
	204.57	205.00	QC Sample tm24137 - DUP : 0.00 g/tonne.					
	204.64	204.86	Quartz-calcite veins from 2-4cm wide with chlorite and possible fuchsite. Oxidizing pyrrhotite stringers are found in the rock following the vein contact.					
	204.69		.04 m quartz-carbonate vein at 65 dca. Lower core angle at 85 dca.					
	204.80		.03 m crosscutting quartz-carbonate vein at 35 dca. 5% associated fuchsite. Lower core angle at 45 dca.					
	204.86	211.20	Pervasively silicified and carbonatized intense breccia zone. Quartz stringers and 1mm blotches of calcite form 20%. The quartz veins in the above zone and the stringers crosscut the breccia and the first generation are more calcite rich and conform to the foliation within the breccia. Interfragmental quartz make up 8-10% of the alteration. Trace to 1% pyrrhotite as stringers proximal to the intense breccia and chloritized areas and disseminated within the fragments.					
	205.00		QC Sample tm24138 - B : 0.00 g/tonne.	TM24139	205.00	206.00	1.00	.060
	205.00	206.00	Trace fracture filling pyrrhotite. 10% flooded quartz. 5% blotchy calcite. 15% stringers of chlorite. Foliation at 60 dca.					
	206.00	207.00	Trace fracture filling pyrrhotite. 15% flooded quartz. 2% stringers of quartz-carbonate. 15% stringers of chlorite. Foliation at 60 dca.	TM24140	206.00	207.00	1.00	.000
	206.79		Quartz-carbonate stringer at 35 dca.					
	207.00	208.00	Trace fracture filling pyrrhotite. 15% flooded quartz. 1% stringers of quartz-carbonate. 15% stringers of chlorite. Foliation at 60 dca.	TM24141	207.00	208.00	1.00	.000
	207.16		Moderate foliation at 60 dca.					
	208.00	209.00	Trace fracture filling pyrrhotite. 5% flooded quartz. 1% stringers of quartz-carbonate. 10% stringers of chlorite. Foliation at 45 dca.	TM24142	208.00	209.00	1.00	.000
	209.00	209.64	Trace fracture filling pyrrhotite. 1% stringers of quartz-carbonate. Foliation at 45 dca.	TM24143	209.00	209.64	.64	.030
	209.64	210.00	Trace fracture filling pyrrhotite. 2% flooded quartz. 5% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 80 dca.	TM24144	209.64	210.00	.36	.040
	209.79		Quartz stringer at 10 dca.					
	209.97		Quartz-carbonate stringer at 80 dca.					
	210.00	210.65	Trace fracture filling pyrrhotite. 10% flooded quartz. 1% stringers of quartz-carbonate. Foliation at 45 dca.	TM24145	210.00	210.65	.65	.000
	210.65	211.00	Trace fracture filling pyrrhotite. 20% flooded quartz. Foliation at 45 dca.	TM24146	210.65	211.00	.35	.000
	210.76		Moderate foliation at 45 dca.					
	211.00	212.21	Trace fracture filling pyrrhotite. 1% flooded quartz. 2% stringers of quartz-carbonate. Foliation at 45 dca.	TM24147	211.00	212.21	1.21	.010
	211.20	213.54	Intense (60%) pervasive carbonate alteration associated with 15% quartz veins and trace blebby and disseminated pyrrhotite. The foliation changes from 50 dca above this area to 25 dca within and 45 dca in the rock below.					
	211.34		Quartz-carbonate stringer at 30 dca.					
	211.52		.03 m quartz-carbonate vein at 30 dca.					
	211.78		Moderate foliation at 45 dca.					
	212.21	213.55	Trace vein associated pyrrhotite. 15% veins of quartz. 40% pervasive quartz-carbonate. Foliation at 25 dca. Quartz veins at 10 dca.	TM24148	212.21	213.55	1.34	.000
	212.37		Quartz-carbonate stringer at 40 dca.					
	212.85		Weak to moderate foliation at 25 dca.					
	213.18		.03 m quartz-carbonate vein at 10 dca.					
	213.54	218.40	Breccia with larger fragments up to 15cm. Quartz-calcite veins and stringers and quartz flooding between breccia fragments constitute 5%. Pyrrhotite content increases					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			down the hole as does graphite content. The pyrrhotite is associated with the chloritic and minor graphitic matrix as stringers and blebs. It is also disseminated throughout the fragments. It ranges from trace to 3% pyrrhotite.					
	213.55	214.51	2% stringers of quartz-carbonate. Foliation at 50 dca.	TM24149	213.55	214.51	.96	.000
	213.76		Quartz-carbonate stringer at 65 dca.					
	214.51	215.12	10% stringers of quartz-carbonate. Foliation at 50 dca.	TM24150	214.51	215.12	.61	.000
	215.12	215.51	5% fracture filling pyrrhotite. 7% veins of quartz-carbonate. Foliation at 50 dca. Quartz veins at 80 dca.	TM24151	215.12	215.51	.39	.050
	215.18		Quartz-carbonate stringer at 80 dca.					
	215.24		Quartz-carbonate stringer at 75 dca.					
	215.51	216.41	2% disseminated pyrrhotite. 3% flooded quartz. Foliation at 50 dca.	TM24152	215.51	216.41	.90	.005
	216.41	217.47	2% disseminated pyrrhotite. 2% flooded quartz. 5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24153	216.41	217.47	1.06	.005
	217.47	218.39	5% wispy pyrrhotite. 1% flooded quartz. 1% stringers of quartz-carbonate. Foliation at 50 dca.	TM24154	217.47	218.39	.92	.000
	218.39	219.06	8% disseminated pyrrhotite. .5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24155	218.39	219.06	.67	.000
	218.40	220.54	The pyrrhotite content decreases down hole and pyrite increases as well as graphite. Pyrite cubes (1-3mm) and large blebs (3cm) increase towards the contact with the graphite unit. Proximal to the contact the pyrite is associated with pervasive quartz-calcite alteration.					
	218.48		Moderate foliation at 50 dca.					
	218.56		.02 m pyrite chlorite stringer at 50 dca.					
	219.06	219.99	3% crystals of pyrite. 4% disseminated pyrrhotite. 2% stringers of quartz-carbonate. Foliation at 50 dca.	TM24156	219.06	219.99	.93	.000
	219.58		Quartz pyrrhotite stringer at 60 dca.					
	219.99	220.55	20% wispy pyrite. 1% disseminated pyrrhotite. 10% pervasive quartz-carbonate. 5% intrafolial graphite. Foliation at 50 dca.	TM24157	219.99	220.55	.56	.000
	220.17		Moderate foliation at 35 dca.					
	220.25		Pyrrhotite stringer at 45 dca.					
220.55	221.57	6J	GRAPHITE Graphite. Texture - brecciated, and foliated. Soft to moderately hard, very dark black, aphanitic. 50% semi-massive pyrite overall. Trace disseminated pyrrhotite overall. 5.00% total sulphides. 10% breccia filled quartz-carbonate.					
	220.55	221.05	Semi-massive diagenetic pyrite which as been brecciated and the matrix infilled with quartz-carbonate. The pyrite is colloform banded making the brecciation more obvious. Pyrite cubes (up to 1mm) fill fractures within colloform pyrite and along the edges of the quartz-carbonate matrix.	TM24158	220.55	221.05	.50	.030
	220.55	221.05	70% semi-massive pyrite. Trace disseminated pyrrhotite. 15% breccia filled quartz-carbonate. Foliation at 55 dca.					
	220.55	221.05	QC Sample tm24159 - DUP : 0.03 g/tonne.					
	221.05	221.57	Massive graphite with 10% quartz-carbonate-pyrite stringers following and crenulated foliation.					
	221.05		QC Sample tm24171 - B : 0.01 g/tonne.	TM24172	221.05	221.57	.52	.020
	221.05	221.57	10% vein associated pyrite. 15% stringers of quartz-carbonate. Foliation at 55 dca.					
	221.43		Moderate foliation at 55 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
221.57	225.70	6L	<p>INTERBEDDED MUDSTONE AND ARGILLITE</p> <p>Interbedded mudstone and argillite. Texture - graded bedding, and foliated. Moderately hard to hard, medium grey, very fine grained. 2% blebs of pyrite overall. 2% total sulphides. 5% stringers of quartz-carbonate.</p> <p>Interbedded argillite and mudstone with graded bedding implying tops is down hole. The contact between beds are sharp. Near the end of the hole there are microfaults displacing the beds at 85 dca and 45 dca (perpendicular to bedding). 221.57 221.95 Graphite content decreases away from the contact. Pyrite stringers are parallel to foliation as well there is disseminated pyrite decreasing down hole.</p> <p>221.57 221.95 5% disseminated pyrite. 5% stringers of quartz-carbonate. Foliation at 45 dca.</p> <p>221.95 222.94 1% disseminated pyrite. 3% stringers of quartz-carbonate. Foliation at 45 dca.</p> <p>222.30 Concordant bedding at 50 dca. Lower core angle at 50 dca.</p> <p>222.94 223.95 1% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 60 dca.</p> <p>222.96 Crosscutting quartz-carbonate stringer at 40 dca.</p> <p>223.59 .02 m quartz-carbonate vein at 60 dca.</p> <p>224.14 Crosscutting quartz-carbonate stringer at 60 dca.</p> <p>225.15 Concordant bedding at 60 dca.</p> <p>225.35 Weak hairline fault at 85 dca. 10% associated quartz.</p> <p>225.40 Weak hairline fault at 45 dca. 2% associated quartz.</p>	TM24173	221.57	221.95	.38	.010
				TM24174	221.95	222.94	.99	.000
				TM24175	222.94	223.95	1.01	.020

Date: 11 Dec, 1996

PLACER DOME CANADA LIMITED
MONETA PORCUPINE OPTION
DRILL HOLE RECORD

Page: 1 of 12

Northing: 10200
Easting: 10000
Surveyed: No

Drill Hole: 546-002
Hole Length: 251.00 metres

Collar Azi.: 360
Collar Dip: -45

Sperry Sun Tests
Depth Azi. Dip

Drilled by: Norex Drilling Limited
Drill type: 25
Core size: NQ
Date Started: July 20, 1996
Date Finished: July 22, 1996

NTS Reference: 42A/06

36.0 359 -46
119.0 359 -46
251.0 357 -44

Logged by: Kathy Farrell
Date Logging Started: July 30, 1996
Date Logging Finished: August 3, 1996
Geotechnical Log By: Michael De Luca

Depth to Bedrock: 21m
Claim: P594793
Length per Claim: 251m

Core Samples: 195
Sludge Samples: 0
Sample Type: Au

Material Left in Hole: Casing pulled, hole cemented.
Post Location: 25m east and 200m south of 3 post of claim P594793
Purpose: Test North Volcanic zone with IP anomaly
Local Reference: 200m S of Murphy/Tisdale Twp Line & 730m E of Hwy 655
Core Storage: Returned to Moneta Porcupine Mines Inc.

Signature: 

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
.00	21.50	OVB	Assay values of 0.000 g/t represent less than 0.005 g/t or below the detection limit. OVERBURDEN Overburden. The drillers note 21m of casing, it appears there is Lost Core core within the first run.					
21.50	69.93	2A3	MAGNESIUM BASALT Magnesium Basalt. Texture - pillowed, and variolitic. Hard, light yellow, aphanitic. Trace disseminated pyrrhotite overall. .1% total sulphides. Lower contact at 35 dca. Moderate pervasive carbonatization. Strong pervasive silicification. 1% stringers of quartz. 3% veins of quartz-carbonate. The hole collars in pillowed mafic volcanic which is intensely silicified and carbonated. At 24.35 to 24.45 there is a boulder which is misplaced. The pillows are deformed and altered with densely packed varioles in the centre and lessening towards the edge of the pillow. A possible pillow breccia from 25.33 to 25.60 with a carbonate-chlorite matrix. The pillows range from 20cm to 1.5m with massive looking interiors. The selvages contain bands of chlorite and carbonate alteration. 22.06 22.06 quartz-carbonate stringer at 40 dca. 22.27 23.38 20% pervasive quartz. 3% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 50 dca. 22.54 Quartz-carbonate stringer at 50 dca. 23.76 Weak foliation at 45 dca. 25.30 26.19 20% pervasive quartz. 10% breccia filled quartz-carbonate. Foliation at 45 dca. 26.10 .01 m quartz-carbonate vein at 60 dca. 26.19 27.19 10% pervasive quartz. 2% stringers of quartz-carbonate. Foliation at 45 dca. 26.46 Weak foliation at 45 dca. 27.19 28.00 5% pervasive quartz. 2% stringers of quartz-carbonate. Foliation at 45 dca. 27.32 Quartz-carbonate stringer at 55 dca. 28.00 28.33 20% veins of quartz. 28.10 .05 m quartz vein at 65 dca. 28.33 29.32 Trace fracture filling pyrite. 1% stringers of quartz-carbonate. 02% stringers of chlorite. Foliation at 45 dca.	TM24176	22.27	23.38	1.11	.000
				TM24177	25.30	26.19	.89	.000
				TM24178	26.19	27.19	1.00	.010
				TM24179	27.19	28.00	.81	.005
				TM24180	28.00	28.33	.33	.000
				TM24181	28.33	29.32	.99	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
29.32	29.68		10% lenses of ankerite. Foliation at 35 dca.	TM24182	29.32	29.68	.36	.000
30.74			Weak foliation at 35 dca.					
31.34	32.00		5% veins of quartz-carbonate. Foliation at 35 dca.	TM24183	31.34	32.00	.66	.000
31.57			.01 m quartz-carbonate vein at 65 dca.					
32.00	33.00		10% pervasive quartz. 10% lenses of quartz-carbonate. Foliation at 35 dca.	TM24184	32.00	33.00	1.00	.000
33.00	34.00		5% pervasive quartz. 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM24185	33.00	34.00	1.00	.000
33.04			.01 m quartz-carbonate vein at 50 dca.					
33.21			Quartz-carbonate stringer at 40 dca.					
34.00	35.00		15% pervasive quartz. 1% stringers of quartz-carbonate. Foliation at 55 dca.	TM24186	34.00	35.00	1.00	.000
34.08			Quartz-carbonate stringer at 55 dca.					
36.55			Weak foliation at 55 dca.					
40.00	41.00		20% pervasive quartz. 5% lenses of quartz-carbonate. Foliation at 40 dca.	TM24187	40.00	41.00	1.00	.000
40.00	41.00		QC Sample tm24188 - DUP : 0.00 g/tonne.					
40.59			Quartz-carbonate stringer at 50 dca.					
40.70			.01 m quartz-carbonate vein at 50 dca.					
41.00			QC Sample tm24189 - B : 0.00 g/tonne.	TM24190	41.00	42.00	1.00	.000
41.00	42.00		5% pervasive quartz. Foliation at 40 dca.					
41.31			Weak to moderate foliation at 40 dca.					
42.00	42.37		20% pervasive quartz. Foliation at 40 dca.	TM24191	42.00	42.37	.37	.000
42.37	43.46		1% stringers of quartz-carbonate. 3% stringers of chlorite. Foliation at 40 dca.	TM24192	42.37	43.46	1.09	.045
43.46	43.91		30% pervasive quartz. Foliation at 55 dca.	TM24193	43.46	43.91	.45	.000
43.91	44.95		3% lenses of quartz. Foliation at 55 dca.	TM24194	43.91	44.95	1.04	.000
44.72			Weak foliation at 55 dca.					
44.95	45.99		10% pervasive quartz. 1% stringers of quartz-carbonate. Foliation at 55 dca.	TM24195	44.95	45.99	1.04	.000
45.00			Quartz-carbonate stringer at 50 dca.					
45.99	47.07		20% pervasive quartz. 1% stringers of quartz-carbonate. Foliation at 45 dca.	TM24196	45.99	47.07	1.08	.000
46.07			Weak foliation at 45 dca.					
47.07	47.59		Trace vein associated pyrrhotite. Trace vein associated chalcopyrite. 5% veins of quartz. 5% stringers of quartz-carbonate. Foliation at 45 dca. Quartz veins at 60 dca.	TM24197	47.07	47.59	.52	.000
47.26			.02 m quartz-carbonate vein at 60 dca..% associated pyrrhotite..% associated chalcopyrite					
47.59	48.60		10% stringers of quartz-carbonate. Foliation at 45 dca.	TM24198	47.59	48.60	1.01	.000
47.73			.01 m quartz-carbonate vein at 50 dca.					
47.91			Quartz-carbonate stringer at 50 dca.					
48.60	49.60		10% pervasive quartz. 10% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 60 dca.	TM24199	48.60	49.60	1.00	.000
49.23			.01 m quartz-carbonate vein at 60 dca.					
49.60	50.41		2% stringers of quartz-carbonate. Foliation at 45 dca.	TM24200	49.60	50.41	.81	.000
50.41	51.00		20% flooded quartz. 3% stringers of quartz-carbonate. Foliation at 50 dca.	TM24201	50.41	51.00	.59	.000
51.00	52.00		2% flooded quartz. 1% stringers of quartz-carbonate. Foliation at 50 dca.	TM24202	51.00	52.00	1.00	.000
51.93			Weak foliation at 50 dca.					
52.00	52.56		40% pervasive quartz. .5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24203	52.00	52.56	.56	.000
52.56	53.00		20% pervasive quartz. Trace stringers of quartz-carbonate. Foliation at 50 dca.	TM24204	52.56	53.00	.44	.000
53.00	53.68		35% pervasive calcite. 20% stringers of chlorite. Foliation at 30 dca.	TM24205	53.00	53.68	.68	.000
53.00	53.68		QC Sample tm24206 - DUP : 0.00 g/tonne.					
53.50			Moderate to strong foliation at 30 dca.					
53.68			QC Sample tm24207 - B : 0.00 g/tonne.	TM24208	53.68	54.55	.87	.000
53.68	54.55		10% pervasive quartz. 5% stringers of quartz-carbonate. Foliation at 40 dca.					
54.55	55.65		5% flooded quartz. 5% lenses of quartz-carbonate. Foliation at 40 dca.	TM24209	54.55	55.65	1.10	.000
55.65	56.56		1% veins of quartz. 10% lenses of quartz-carbonate. 10% stringers of chlorite. Foliation at 40 dca.	TM24210	55.65	56.56	.91	.000
56.13			Weak to moderate foliation at 40 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			56.56 57.56 10% flooded quartz. 5% stringers of quartz-carbonate.	TM24211	56.56	57.56	1.00	.015
			56.63 .02 m quartz-carbonate vein at 65 dca.					
			56.77 Quartz-carbonate stringer at 65 dca.					
			57.18 .01 m quartz-carbonate vein at 45 dca.					
			57.56 58.10 20% pervasive quartz.	TM24212	57.56	58.10	.54	.000
			58.10 58.97 30% pervasive quartz. 3% lenses of quartz-carbonate. Foliation at 40 dca.	TM24213	58.10	58.97	.87	.000
			58.64 .01 m quartz-carbonate vein at 55 dca.					
			58.97 59.58 Massive section with 2% disseminated pyrrhotite and 10% quartz-calcite stringers.					
			59.07 59.58 2% disseminated pyrrhotite. 20% stringers of quartz-carbonate.	TM24214	58.97	59.58	.61	.000
			59.07 Quartz-carbonate stringer at 45 dca.					
			59.46 Crosscutting quartz-carbonate stringer at 25 dca.					
			59.58 60.38 20% pervasive quartz. 15% breccia filled calcite.	TM24215	59.58	60.38	.80	.000
			60.38 61.23 Trace disseminated pyrrhotite. 5% flooded quartz. 10% fracture filling calcite.	TM24216	60.38	61.23	.85	.000
			61.23 61.92 5% disseminated pyrrhotite. 10% veins of quartz-carbonate. Foliation at 40 dca. Quartz veins at 50 dca.	TM24217	61.23	61.92	.69	.010
			61.23 61.92 QC Sample tm24218 - DUP : 0.02 g/tonne.					
			61.25 62.53 Massive section with 15% quartz-calcite veining and 2% disseminated and 1mm blebs of pyrrhotite throughout the core. The sulphide is not associated with the veins.					
			61.49 .01 m quartz-carbonate stringer at 50 dca.					
			61.82 .01 m crosscutting quartz-carbonate vein at 50 dca.					
			61.92 QC Sample tm24219 - B : 0.01 g/tonne.	TM24220	61.92	62.53	.61	.010
			61.92 62.53 2% disseminated pyrrhotite. 10% stringers of quartz-carbonate. Foliation at 40 dca.					
			61.97 Quartz-carbonate stringer at 30 dca.					
			62.36 Weak foliation at 40 dca.					
			62.53 63.41 1% veins of quartz. 15% fracture filling calcite. Foliation at 45 dca.	TM24221	62.53	63.41	.88	.020
			63.16 Quartz-carbonate stringer at 60 dca.					
			63.41 64.31 10% stringers of quartz-carbonate. 10% fracture filling calcite. Foliation at 45 dca.	TM24222	63.41	64.31	.90	.020
			64.31 65.00 5% stringers of quartz-carbonate. 10% fracture filling calcite. Foliation at 45 dca.	TM24223	64.31	65.00	.69	.035
			65.30 Very weak foliation at 45 dca.					
			66.37 Quartz-carbonate stringer at 60 dca.					
			66.83 67.94 Highly fractured area with a possible fault at 67.50m and 67.80m. The core is weathered, crumbly oxidized.					
			67.50 .10 m fault 10% associated limonite.					
			68.00 69.00 1% stringers of quartz-carbonate. 2% fracture filling calcite. Foliation at 45 dca.	TM24224	68.00	69.00	1.00	.025
			68.84 Quartz stringer at 60 dca.					
			69.00 Weak to moderate foliation at 45 dca.					
			69.00 69.76 5% flooded quartz. 10% stringers of calcite. Foliation at 45 dca.	TM24225	69.00	69.76	.76	.010
			69.81 69.93.% Crystal tuff Mafic Pyroclastic. Texture - foliated, hard, light brownish grey, variable. .00% total sulphides. Lower contact at 60 dca.					
			This section contains one 2 cm and one 7.5 cm crystal tuff layer. There is 2 cm massive flow between the layers, the contacts are not as sharp as the upper and lower contacts. The crystal size varies from 2mm to up to 0.5mm, although altered the angular nature of the larger crystals is evident.					
			69.81 Sharp contact at 35 dca.					
			69.90 Weak to moderate foliation at 45 dca.					
69.93	110.19	2A3	MAGNESIUM BASALT Magnesium Basalt. Texture - massive, and variolitic. Moderately hard to hard, light brownish-green, aphanitic. .00% total sulphides. Lower contact at 55 dca. Moderate pervasive carbonatization. 2%	TM24226	71.00	72.04	1.04	.025

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
			veins of quartz. 8% veins of quartz-carbonate. 1% stringers of carbonate. This part of the volcanic package is more massive than that above. There are still areas of possible varioles. There are zones of intense carbonatization throughout this unit. They form 25% of the unit. There are 5-10% quartz-calcite stringers and 1-2% quartz veining. The fractures within the less altered sections are chlorite filled. Note: This section could still be pillowed. There are 3-15cm areas that are banded, contorted and brecciated which may be altered selvages.					
			71.00 72.04 10% stringers of quartz-carbonate. Foliation at 45 dca.					
			71.37 Moderate foliation at 45 dca.					
			72.04 73.08 15% pervasive quartz. 10% stringers of quartz-carbonate. Foliation at 35 dca.	TM24227	72.04	73.08	1.04	.020
			72.80 Quartz-carbonate stringer at 60 dca.					
			73.89 74.29 15% stringers of quartz-carbonate. 20% intrafolial chlorite. Foliation at 35 dca.	TM24228	73.89	74.29	.40	.035
			73.91 Moderate foliation at 35 dca.					
			74.29 74.88 10% anastomosing stringers of calcite. Foliation at 35 dca.	TM24229	74.29	74.88	.59	.010
			74.88 75.28 30% pervasive quartz-carbonate. 20% intrafolial chlorite. Foliation at 35 dca.	TM24230	74.88	75.28	.40	.025
			75.28 76.13 5% stringers of quartz-carbonate. 10% anastomosing stringers of calcite. Foliation at 35 dca.	TM24231	75.28	76.13	.85	.015
			76.13 77.07 30% lenses of quartz-carbonate. Foliation at 35 dca.	TM24232	76.13	77.07	.94	.010
			77.07 77.50 55% pervasive quartz-carbonate. Foliation at 35 dca.	TM24233	77.07	77.50	.43	.010
			77.50 78.73 .5% veins of quartz. 2% stringers of quartz-carbonate. Foliation at 35 dca.	TM24234	77.50	78.73	1.23	.015
			77.72 Quartz-carbonate stringer at 60 dca.					
			78.19 .01 m calcite chlorite stringer at 45 dca.					
			78.57 .01 m quartz vein at 60 dca.					
			78.73 79.57 10% anastomosing stringers of quartz-carbonate. Foliation at 35 dca.	TM24235	78.73	79.57	.84	.000
			79.31 Weak to moderate foliation at 35 dca.					
			79.57 79.90 30% pervasive quartz-carbonate. Foliation at 35 dca.	TM24236	79.57	79.90	.33	.000
			79.79 Quartz-carbonate stringer at 60 dca.					
			79.90 80.58 10% pervasive quartz-carbonate. 15% anastomosing stringers of calcite. Foliation at 35 dca.	TM24237	79.90	80.58	.68	.000
			80.58 81.03 20% anastomosing stringers of calcite. Foliation at 35 dca.	TM24238	80.58	81.03	.45	.035
			81.03 81.41 .5% stringers of quartz-carbonate. Foliation at 35 dca.	TM24239	81.03	81.41	.38	.000
			81.41 82.14 3% pervasive quartz. 10% anastomosing stringers of calcite. Foliation at 35 dca.	TM24240	81.41	82.14	.73	.010
			81.44 Quartz-carbonate stringer at 50 dca.					
			81.81 Moderate foliation at 35 dca.					
			82.14 82.37 60% pervasive quartz. 10% anastomosing stringers of calcite. Foliation at 35 dca.	TM24241	82.14	82.37	.23	.010
			82.46 83.05 30% anastomosing stringers of calcite. Foliation at 40 dca.	TM24242	82.46	83.05	.59	.025
			83.05 83.71.% Lapilli tuff Mafic Pyroclastic. Texture - foliated, moderately hard to hard, medium brownish-green, variable. .00% total sulphides. Lower contact at 30 dca.					
			83.05 83.72 5% stringers of quartz-carbonate. 15% anastomosing stringers of calcite. Foliation at 40 dca.	TM24243	83.05	83.72	.67	.010
			The lapilli tuff has variable fragments from 2mm to 4cm. There are 10% chloritic stringers and 5% quartz-calcite stringers parallel to foliation.					
			83.16 Quartz-carbonate stringer at 55 dca.					
			83.57 Moderate to strong foliation at 40 dca.					
			84.31 .03 m quartz vein at 75 dca.					
			85.48 Weak to moderate foliation at 50 dca.					
			86.33 87.28 5% veins of quartz-carbonate. 15% lenses of calcite. Foliation at 50 dca.	TM24244	86.33	87.28	.95	.005
			86.48 Quartz-carbonate stringer at 50 dca.					
			86.76 .01 m quartz-carbonate vein at 50 dca.					
			87.28 87.50 35% flooded quartz. 15% lenses of calcite.	TM24245	87.28	87.50	.22	.015

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			87.28 87.50 QC Sample tm24246 - DUP : 0.00 g/tonne.					
			87.32 .01 m quartz vein at 65 dca.					
			87.50 QC Sample tm24247 - B : 0.01 g/tonne.	TM24248	87.50	87.76	.26	.000
			87.50 87.76 10% anastomosing stringers of calcite.					
			88.37 Weak to moderate foliation at 40 dca.					
			90.53 Carbonate stringer at 55 dca.					
			91.00 91.24 5% stringers of quartz-carbonate. 10% anastomosing stringers of calcite.	TM24249	91.00	91.24	.24	.000
			93.59 94.00 5% veins of quartz-carbonate. Foliation at 55 dca. Quartz veins at 55 dca.	TM24250	93.59	94.00	.41	.000
			93.73 .03 m quartz-carbonate vein at 55 dca.					
			94.00 94.91 5% stringers of quartz-carbonate. 20% anastomosing stringers of calcite. Foliation at 55 dca.	TM24251	94.00	94.91	.91	.000
			94.35 .01 m carbonate vein at 70 dca.					
			94.42 Weak to moderate foliation at 55 dca.					
			95.26 95.59 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM24252	95.26	95.59	.33	.000
			95.31 Quartz-carbonate stringer at 65 dca.					
			95.59 96.31 10% lenses of calcite. Foliation at 55 dca.	TM24253	95.59	96.31	.72	.000
			95.76 Quartz-carbonate stringer at 55 dca.					
			96.31 96.48 20% pervasive calcite. Foliation at 55 dca.	TM24254	96.31	96.48	.17	.000
			97.07 .03 m quartz-carbonate vein at 60 dca.					
			98.39 99.24 10% veins of quartz-carbonate. 10% anastomosing stringers of calcite. Foliation at 40 dca	TM24255	98.39	99.24	.85	.000
			98.43 Quartz-carbonate stringer at 55 dca.					
			98.73 Moderate to strong foliation at 40 dca.					
			99.21 .01 m quartz-carbonate vein at 50 dca.					
			99.24 100.05 10% veins of quartz. Foliation at 40 dca. Quartz veins at 70 dca.	TM24256	99.24	100.05	.81	.000
			99.77 .05 m quartz-carbonate vein at 70 dca. Lower core angle at 50 dca.					
			100.05 101.00 5% anastomosing stringers of calcite. Foliation at 40 dca.	TM24257	100.05	101.00	.95	.015
			101.00 102.00 5% veins of quartz. 5% stringers of quartz-carbonate. Foliation at 35 dca. Quartz veins at 50 dca.	TM24258	101.00	102.00	1.00	.050
			101.24 .03 m quartz vein at 50 dca.					
			102.00 102.88 6% stringers of quartz-carbonate. Foliation at 35 dca.	TM24259	102.00	102.88	.88	.035
			102.25 Quartz stringer at 50 dca.					
			102.60 Moderate to strong foliation at 35 dca.					
			102.88 103.03 80% pervasive quartz. 2% stringers of quartz-carbonate.	TM24260	102.88	103.03	.15	.025
			105.23 Moderate foliation at 50 dca.					
			105.59 105.97 40% veins of quartz-carbonate. Foliation at 40 dca.	TM24261	105.59	105.97	.38	.000
			105.97 107.00 3% stringers of quartz-carbonate. Foliation at 40 dca.	TM24262	105.97	107.00	1.03	.000
			106.09 Weak to moderate foliation at 40 dca.					
			107.00 108.00 3% veins of quartz. 2% veins of quartz-carbonate. Foliation at 40 dca. Quartz veins at 70 dca.	TM24263	107.00	108.00	1.00	.020
			107.12 .01 m quartz-carbonate vein at 50 dca.					
			107.29 .03 m quartz vein at 70 dca.					
			108.00 109.00 4% coatings of quartz. 10% anastomosing stringers of quartz-carbonate. Foliation at 45 dca.	TM24264	108.00	109.00	1.00	.000
			108.12 Quartz stringer at 60 dca.					
			108.49 Quartz stringer at 55 dca.					
			109.47 Weak to moderate foliation at 45 dca.					
110.19	118.22	2A3	MAGNESIUM BASALT Silicified Magnesium Basalt. Texture - pillowed, and foliated. Hard, light greyish-green, very fine grained. .00% total sulphides. Lower contact at 60 dca. Strong pervasive silicification. .5% veins of quartz. 5% stringers of quartz-carbonate.	TM24265	110.19	111.00	.81	.005

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			<p>This unit does not have a sharp contact with the massive flow above. The pillows range in size from 10cm to 1.5m. The varioles are densely packed in the centre and more identifiable near the selvage. The selvages are highly altered with contorted banding. The selvages are more chloritic than the pillows. Pockets of carbonate alteration occur within the selvages and pillows. The pillows are strongly silicified, the varioles are coated as well the selvages are flooded. Microfractures of calcite and chlorite form 5% of the unit and are mainly found within the centre of the bigger pillows. 110.20 110.20 quartz stringer at 45 dca.</p> <p>110.19 111.00 1% stringers of quartz. 5% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 65 dca.</p> <p>110.30 Strong foliation at 45 dca.</p> <p>110.50 .05 m quartz-carbonate vein at 65 dca.</p> <p>111.00 111.52 5% anastomosing stringers of quartz-carbonate. Foliation at 45 dca.</p> <p>111.52 112.11 15% coatings of quartz. 5% lenses of quartz-carbonate. Foliation at 45 dca.</p> <p>111.52 112.11 QC Sample tm24268 - DUP : 0.01 g/tonne.</p> <p>112.11 QC Sample tm24269 - B : 0.00 g/tonne.</p> <p>113.05 Moderate to strong foliation at 50 dca.</p> <p>113.64 .01 m quartz-carbonate vein at 55 dca.</p> <p>114.39 Quartz-carbonate stringer at 60 dca.</p> <p>115.69 116.53 35% pervasive quartz. Foliation at 55 dca.</p> <p>115.71 118.22 A colour change from greyish-green to a more dominant light grey occurs due to the strong silicification.</p>					
			<p>116.04 Moderate foliation at 55 dca.</p> <p>116.53 117.53 15% pervasive quartz. Foliation at 55 dca.</p> <p>117.53 118.22 35% pervasive quartz. Foliation at 55 dca.</p>	TM24266	111.00	111.52	.52	.000
				TM24267	111.52	112.11	.59	.000
				TM24270	115.69	116.53	.84	.000
				TM24271	116.53	117.53	1.00	.000
				TM24272	117.53	118.22	.69	.025
118.22	251.00	2A3	<p>MAGNESIUM BASALT</p> <p>Magnesium Basalt. Texture - massive, and foliated. Moderately hard to hard, light brownish-green, variable. Trace blebs of pyrite overall. 1% disseminated pyrrhotite overall. Trace blebs of chalcopryrite overall. 1.2% total sulphides. Strong pervasive carbonatization. Very strong pervasive silicification. 2% veins of quartz. 3% veins of quartz-carbonate. 5% stringers of carbonate.</p> <p>119.29 Moderate foliation at 55 dca.</p> <p>119.56 Quartz-carbonate stringer at 50 dca.</p> <p>120.00 121.00 40% pervasive quartz. 10% veins of quartz-carbonate. Foliation at 20 dca. Quartz veins at 45 dca.</p> <p>120.07 Quartz-carbonate stringer at 50 dca.</p> <p>120.12 Strong foliation at 20 dca.</p> <p>120.76 .03 m quartz-carbonate vein at 45 dca.</p> <p>122.45 Moderate foliation at 40 dca.</p> <p>122.78 Quartz-carbonate stringer at 50 dca.</p> <p>122.96 Moderate foliation at 55 dca.</p> <p>124.05 129.51 This section is carbonatized and silicified. Silicification occurs in isolated 10-15cm zones. The Carbonate is interstitial and occurs within the silicified zones and extends beyond. This section also has 5% quartz-calcite stringers and 1% quartz veining.</p> <p>124.50 125.50 20% pervasive quartz. 5% anastomosing stringers of quartz-carbonate. Foliation at 55 dca.</p> <p>125.10 Quartz-carbonate stringer at 60 dca.</p> <p>125.50 126.00 10% pervasive quartz. Foliation at 55 dca.</p> <p>126.00 127.00 20% pervasive quartz. 5% stringers of quartz-carbonate. Foliation at 55 dca.</p>					
				TM24273	120.00	121.00	1.00	.030
				TM24274	124.50	125.50	1.00	.000
				TM24275	125.50	126.00	.50	.000
				TM24276	126.00	127.00	1.00	.040

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
			126.05 .03 m quartz vein at 75 dca.					
			127.59 Moderate to strong foliation at 50 dca.					
			128.67 Quartz-carbonate stringer at 60 dca.					
			129.51 133.27 This unit is pervasively silicified where the medium grained section has coatings/halos on the phenocrysts.					
			130.12 Strong foliation at 30 dca.					
			130.12 131.00 40% coatings of quartz. 1% stringers of quartz-carbonate. Foliation at 45 dca.	TM24277	130.12	131.00	.88	.000
			131.00 132.00 40% coatings of quartz. 5% anastomosing stringers of calcite. Foliation at 45 dca.	TM24278	131.00	132.00	1.00	.000
			131.81 Moderate to strong foliation at 45 dca.					
			132.00 133.23 30% coatings of quartz. 10% anastomosing stringers of calcite. Foliation at 45 dca.	TM24279	132.00	133.23	1.23	.005
			132.45 .01 m quartz-carbonate vein at 50 dca.					
			133.23 133.50 45% pervasive quartz. 5% stringers of quartz-carbonate. Foliation at 45 dca.	TM24280	133.23	133.50	.27	.080
			133.50 134.22 5% anastomosing stringers of calcite. Foliation at 45 dca.	TM24281	133.50	134.22	.72	.000
			134.22 140.83 This section has 10% quartz-carbonate veining and 5-8% carbonate stringers. There is 0.5-2% pyrrhotite and trace chalcopryrite disseminated, along fractures and within the veins. Chlorite occurs along foliation planes up to 10% more than in the rest of the unit.					
			134.22 134.83 06% disseminated pyrrhotite. 20% pervasive quartz. 5% anastomosing stringers of calcite. Foliation at 45 dca.	TM24282	134.22	134.83	.61	.100
			134.76 Chlorite stringer at 45 dca.					
			137.00 138.00 5% pervasive quartz. 10% stringers of quartz-carbonate. Foliation at 45 dca.	TM24283	137.00	138.00	1.00	.025
			137.54 Moderate foliation at 45 dca.					
			138.00 139.00 20% pervasive quartz. 6% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 50 dca.	TM24284	138.00	139.00	1.00	.000
			138.05 .03 m quartz vein at 50 dca.					
			138.96 .02 m quartz vein at 55 dca.					
			139.00 140.00 Trace vein associated pyrrhotite. Trace vein associated chalcopryrite. 20% pervasive quartz. 10% veins of quartz-carbonate. Foliation at 45 dca. Quartz veins at 60 dca.	TM24285	139.00	140.00	1.00	.000
			139.30 .01 m quartz-carbonate vein at 60 dca. % associated pyrrhotite. .0% associated chalcopryrite.					
			140.00 141.00 5% disseminated pyrrhotite. Trace disseminated chalcopryrite. 30% pervasive quartz. 5% veins of quartz-carbonate. Foliation at 55 dca. Quartz veins at 45 dca.	TM24286	140.00	141.00	1.00	.000
			140.00 141.00 QC Sample tm24287 - DUP : 0.00 g/tonne.					
			140.06 .01 m quartz-carbonate vein at 45 dca.					
			140.95 Quartz-carbonate stringer at 55 dca.					
			141.00 QC Sample tm24288 - B : 0.00 g/tonne.	TM24289	141.00	142.00	1.00	.000
			141.00 142.00 10% pervasive quartz. 10% stringers of quartz-carbonate. Foliation at 60 dca.					
			141.50 Quartz-carbonate stringer at 55 dca.					
			141.80 Moderate foliation at 60 dca.					
			143.99 149.00 5% altered Mafic Flow. Texture - foliated, moderately hard to hard, light brownish-green, aphanitic. .00% total sulphides.					
			There are no definite upper or lower contacts, only the appearance of selvages and well defined varioles close to the edge of the pillow. The pillows are generally small to ranging from 6cm up to 80cm. The selvages and the varioles are the most altered portions of the pillows. Pervasive silicification and coatings of quartz affect the varioles. Carbonate lenses and stringers are found throughout the unit (5%). Bands (veins) of black chlorite are found between 152-158m with pyrite (1%) at the margins.					
			144.82 Moderate foliation at 55 dca.					
			144.88 145.65 15% coatings of quartz. 3% stringers of quartz-carbonate. Foliation at 55 dca.	TM24290	144.88	145.65	.77	.000
			145.65 146.35 1% stringers of quartz-carbonate. 2% anastomosing stringers of calcite. Foliation at	TM24291	145.65	146.35	.70	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
			55 dca.					
146.35	147.00		10% coatings of quartz. 2% stringers of quartz-carbonate. 5% pervasive calcite. Foliation at 55 dca.	TM24292	146.35	147.00	.65	.000
146.38			Quartz-carbonate stringer at 50 dca.					
147.00	147.91		2% coatings of quartz. 5% stringers of quartz-carbonate. 2% pervasive calcite. Foliation at 55 dca.	TM24293	147.00	147.91	.91	.000
147.91	148.54		20% coatings of quartz. 1% stringers of quartz-carbonate. Foliation at 55 dca.	TM24294	147.91	148.54	.63	.000
149.00	226.00		This section contains up to 1% quartz veins and 5-10% quartz-calcite stringers and lenses. Calcite-chlorite anastomosing stringers occur throughout the unit (3%).					
150.00	151.00		7% stringers of quartz-carbonate. 20% pervasive calcite. Foliation at 55 dca.	TM24295	150.00	151.00	1.00	.000
150.08			Quartz-carbonate stringer at 60 dca.					
150.60			Moderate to strong foliation at 60 dca.					
152.24	152.65		Trace vein associated pyrite. 10% stringers of quartz-carbonate. Foliation at 55 dca.	TM24296	152.24	152.65	.41	.000
152.30			.01 m quartz-carbonate vein at 45 dca. .% associated pyrite.					
153.00	155.00		Blocky core.					
153.36			Moderate foliation at 45 dca.					
154.63	155.03		5% flooded quartz. 5% stringers of quartz-carbonate. 10% pervasive calcite. 10% veins of chlorite. Foliation at 45 dca.	TM24297	154.63	155.03	.40	.000
155.03	156.00		4% stringers of quartz-carbonate. Foliation at 45 dca.	TM24298	155.03	156.00	.97	.000
156.00	157.00		2% flooded quartz. 10% stringers of quartz-carbonate. Foliation at 45 dca.	TM24299	156.00	157.00	1.00	.000
156.36			Quartz-carbonate stringer at 60 dca.					
157.43	158.09		15% pervasive quartz. 3% stringers of quartz-carbonate. 10% veins of chlorite. Foliation at 55 dca.	TM24300	157.43	158.09	.66	.005
158.03			Moderate foliation at 55 dca.					
159.49	160.16		5% pervasive quartz. 15% veins of quartz-carbonate. Foliation at 55 dca. Quartz veins at 45 dca.	TM24301	159.49	160.16	.67	.000
160.07			Quartz-carbonate stringer at 45 dca.					
161.63			Moderate foliation at 50 dca.					
162.00	163.00		10% veins of quartz. 2% stringers of quartz-carbonate. Foliation at 50 dca. Quartz veins at 55 dca.	TM24302	162.00	163.00	1.00	.000
162.40			.02 m quartz vein at 70 dca.					
162.87			.03 m quartz vein at 55 dca. Lower core angle at 60 dca.					
163.00	164.00		10% stringers of quartz-carbonate. Foliation at 50 dca.	TM24303	163.00	164.00	1.00	.000
164.00	165.00		15% lenses of quartz-carbonate. Foliation at 50 dca.	TM24304	164.00	165.00	1.00	.000
164.00	165.00		QC Sample tm24305 - DUP : 0.00 g/tonne.					
164.43			.02 m quartz-carbonate vein at 50 dca.					
165.00			QC Sample tm24306 - B : 0.00 g/tonne.	TM24307	165.00	166.00	1.00	.040
165.00	166.00		20% lenses of quartz-carbonate. Foliation at 45 dca.					
165.93			Moderate to strong foliation at 45 dca.					
169.32			Quartz-carbonate stringer at 50 dca.					
170.00	170.69		10% pervasive quartz. 10% stringers of quartz-carbonate. Foliation at 50 dca.	TM24308	170.00	170.69	.69	.000
171.70			Quartz stringer at 60 dca.					
173.08	173.35		25% pervasive calcite. 5% stringers of chlorite. Foliation at 50 dca.	TM24309	173.08	173.35	.27	.000
173.43			Moderate foliation at 50 dca.					
174.53			Moderate foliation at 50 dca.					
176.39			Quartz-carbonate stringer at 55 dca.					
176.98	177.54		5% flooded quartz. 3% stringers of quartz-carbonate. 30% pervasive calcite. Foliation at 50 dca.	TM24310	176.98	177.54	.56	.000
177.26			Quartz-carbonate stringer at 60 dca.					
177.54	178.47		5% lenses of calcite. Foliation at 55 dca.	TM24311	177.54	178.47	.93	.000
178.47	179.50		2% stringers of quartz-carbonate. 7% lenses of calcite. Foliation at 55 dca.	TM24312	178.47	179.50	1.03	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
			181.13 .01 m quartz vein at 60 dca.					
			181.71 Moderate foliation at 55 dca.					
			184.00 185.00 2% stringers of quartz-carbonate. 5% anastomosing stringers of calcite. Foliation at 40 dca.	TM24313	184.00	185.00	1.00	.000
			184.61 Moderate foliation at 40 dca.					
			185.00 186.00 4% stringers of quartz-carbonate. 20% pervasive calcite. 5% stringers of chlorite. Foliation at 40 dca.	TM24314	185.00	186.00	1.00	.000
			185.22 Quartz-carbonate stringer at 45 dca.					
			185.89 Quartz-carbonate stringer at 55 dca.					
			186.00 187.00 Trace vein associated chalcopyrite. 5% stringers of quartz-carbonate. 3% anastomosing stringers of calcite. Foliation at 40 dca.	TM24315	186.00	187.00	1.00	.000
			186.34 Quartz-carbonate stringer at 65 dca..% associated chalcopyrite.					
			187.00 187.93 5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24316	187.00	187.93	.93	.000
			187.93 188.59 10% stringers of quartz-carbonate. 5% stringers of chlorite. Foliation at 50 dca.	TM24317	187.93	188.59	.66	.000
			188.59 189.50 01% veins of quartz. 5% stringers of quartz-carbonate. 20% pervasive calcite. Foliation at 50 dca.	TM24318	188.59	189.50	.91	.000
			189.32 .02 m quartz-carbonate vein at 65 dca.					
			189.50 190.66 This section is pervasively carbonatized (30%), with 5% intrafolial pyrrhotite. This section is also more chloritic and is much softer.					
			189.50 190.67 5% intrafolial pyrrhotite. 5% stringers of quartz-carbonate. 30% pervasive calcite. Foliation at 50 dca.	TM24319	189.50	190.67	1.17	.115
			189.50 190.67 QC Sample tm24320 - DUP : 0.05 g/tonne.					
			190.20 Moderate to strong foliation at 50 dca.					
			190.67 QC Sample tm24321 - B : 0.00 g/tonne.	TM24322	190.67	191.57	.90	.000
			190.67 191.57 2% stringers of quartz-carbonate. 5% stringers of calcite. Foliation at 50 dca.					
			191.57 191.82 30% veins of quartz-carbonate. 2% stringers of chlorite. Foliation at 50 dca.	TM24323	191.57	191.82	.25	.010
			191.62 Quartz-carbonate stringer at 55 dca.					
			191.73 .04 m quartz-carbonate vein at 45 dca. Lower core angle at 65 dca.					
			194.52 Moderate foliation at 45 dca.					
			194.66 195.37 5% stringers of quartz-carbonate. 20% pervasive calcite. Foliation at 45 dca.	TM24324	194.66	195.37	.71	.000
			195.37 196.44 3% veins of quartz-carbonate. Foliation at 45 dca.	TM24325	195.37	196.44	1.07	.000
			195.47 .02 m quartz-carbonate vein at 45 dca. Lower core angle at 55 dca.					
			196.30 Quartz-carbonate stringer at 60 dca.					
			196.76 Quartz-carbonate stringer at 60 dca.					
			197.50 Crosscutting quartz-carbonate stringer at 20 dca.					
			197.88 Moderate foliation at 55 dca.					
			199.00 200.07 5% stringers of quartz-carbonate. 10% pervasive calcite. Foliation at 55 dca.	TM24326	199.00	200.07	1.07	.015
			199.42 210.10 The section is fine to medium grained, possibly the centre of the massive flow. There is 5-10% quartz-calcite stringers, 1-2% calcite-chlorite stringers and no quartz veins.					
			201.60 202.60 10% stringers of quartz-carbonate. Foliation at 50 dca.	TM24327	201.60	202.60	1.00	.010
			201.68 Quartz-carbonate stringer at 50 dca.					
			202.12 Moderate foliation at 50 dca.					
			202.60 204.00 5% anastomosing stringers of quartz-carbonate. 5% anastomosing stringers of chlorite. Foliation at 50 dca.	TM24328	202.60	204.00	1.40	.010
			203.36 Quartz stringer at 20 dca.					
			206.34 Moderate foliation at 55 dca.					
			206.50 207.50 Trace blebs of pyrrhotite. 2% stringers of quartz-carbonate. 2% anastomosing stringers of calcite. 5% anastomosing stringers of chlorite. Foliation at 55 dca.	TM24329	206.50	207.50	1.00	.015
			206.80 Quartz-carbonate stringer at 55 dca.					
			206.96 Crosscutting quartz-carbonate stringer at 20 dca.					
			208.58 Quartz-carbonate stringer at 25 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			209.14 Moderate to strong foliation at 55 dca.					
	210.85		211.85 15% pervasive quartz. 3% stringers of quartz-carbonate. Foliation at 55 dca.	TM24330	210.85	211.85	1.00	.270
	211.85		212.15 20% pervasive calcite. 5% stringers of chlorite. Foliation at 55 dca.	TM24331	211.85	212.15	.30	.000
	212.15		212.71 15% pervasive quartz. 3% anastomosing stringers of chlorite. Foliation at 55 dca.	TM24332	212.15	212.71	.56	.000
	212.40		Weak to moderate foliation at 50 dca.					
	212.71		213.00 1% stringers of quartz-carbonate. 5% anastomosing stringers of chlorite. Foliation at 55 dca.	TM24333	212.71	213.00	.29	.000
	212.99		Quartz-carbonate stringer at 60 dca.					
	213.00		214.00 Trace vein associated pyrrhotite. 1% stringers of quartz-carbonate. 10% anastomosing stringers of calcite. 10% anastomosing stringers of chlorite. Foliation at 45 dca.	TM24334	213.00	214.00	1.00	.010
	213.50		226.00 Carbonate alteration has increased to 10% pervasive zones and stringers. Note: There are small breccia zones at 211.95-212m and 212.71-212.96m. They are not mineralized but are carbonatized.					
	213.79		Carbonate stringer at 50 dca. associated pyrrhotite.					
	215.23		Moderate foliation at 45 dca.					
	215.33		Carbonate stringer at 65 dca.					
	217.00		218.00 5% stringers of quartz-carbonate. 3% anastomosing stringers of chlorite. Foliation at 50 dca.	TM24335	217.00	218.00	1.00	.030
	217.62		Quartz-carbonate stringer at 50 dca.					
	218.00		219.00 5% stringers of quartz-carbonate. 1% stringers of calcite. Foliation at 50 dca.	TM24336	218.00	219.00	1.00	.000
	218.34		Quartz-carbonate stringer at 50 dca.					
	219.00		220.00 5% veins of quartz-carbonate. Foliation at 50 dca. Quartz veins at 50 dca.	TM24337	219.00	220.00	1.00	.000
	219.54		Moderate to strong foliation at 50 dca.					
	219.71		.02 m quartz-carbonate vein at 50 dca.					
	220.00		221.03 3% stringers of quartz-carbonate. 4% anastomosing stringers of calcite. Foliation at 50 dca.	TM24338	220.00	221.03	1.03	.020
	221.00		Carbonate stringer at 45 dca.					
	221.03		222.00 2% stringers of quartz-carbonate. Foliation at 55 dca.	TM24339	221.03	222.00	.97	.015
	221.63		Crosscutting carbonate stringer at 25 dca.					
	222.00		223.00 5% stringers of quartz-carbonate. 3% anastomosing stringers of calcite. Foliation at 55 dca.	TM24340	222.00	223.00	1.00	.000
	222.11		Carbonate stringer at 40 dca.					
	223.00		223.50 10% pervasive quartz. 3% stringers of quartz-carbonate. Foliation at 55 dca.	TM24341	223.00	223.50	.50	.000
	223.50		224.00 Trace vein associated pyrite. 15% veins of quartz-carbonate. Foliation at 55 dca.	TM24342	223.50	224.00	.50	.025
	223.62		.01 m quartz-carbonate vein at 60 dca. .0% associated pyrite.					
	223.79		.01 m quartz-carbonate vein at 45 dca.					
	223.94		Quartz-carbonate stringer at 50 dca.					
	224.00		225.00 10% pervasive quartz. 2% stringers of quartz-carbonate. Foliation at 55 dca.	TM24343	224.00	225.00	1.00	.010
	224.04		Moderate foliation at 55 dca.					
	225.00		226.00 2% stringers of quartz. 6% veins of quartz-carbonate. Foliation at 55 dca.	TM24344	225.00	226.00	1.00	.005
	225.00		226.00 QC Sample tm24345 - DUP : 0.01 g/tonne.					
	225.67		.02 m quartz-carbonate vein at 40 dca.					
	226.00		251.00 From 1-5% pervasive silicification with 5% quartz-calcite veins and zones of carbonatization (10%). There is trace pyrrhotite and pyrite associated with patchy quartz-calcite alteration. There is highly fractured and blocky core at 237-238m and 240-242.74m.					
	226.00		QC Sample tm24346 - B : 0.00 g/tonne.					
	226.04		227.00 15% pervasive quartz. 10% veins of quartz-carbonate. Foliation at 30 dca.	TM24347	226.04	227.00	.96	.020
	226.48		Strong foliation at 30 dca.					
	226.57		.02 m quartz vein at 30 dca.					
	227.00		227.67 5% stringers of quartz-carbonate. 7% anastomosing stringers of chlorite. Foliation at	TM24348	227.00	227.67	.67	.010

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			30 dca.					
227.67	228.00		Trace disseminated pyrrhotite. 25% veins of quartz. 5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24349	227.67	228.00	.33	.000
227.84			.07 m quartz vein at 70 dca. Lower core angle at 45 dca.					
228.00	229.00		Trace blebs of chalcopyrite. 3% stringers of quartz. Foliation at 50 dca.	TM24350	228.00	229.00	1.00	.000
228.70			Quartz-carbonate stringer at 60 dca.					
228.94			Moderate foliation at 50 dca.					
229.00	230.00		10% pervasive quartz. 5% stringers of quartz-carbonate. 5% anastomosing stringers of chlorite. Foliation at 50 dca.	TM24351	229.00	230.00	1.00	.015
229.35			Carbonate stringer at 50 dca.					
230.00	230.68		Trace disseminated pyrite. 1% stringers of quartz. 5% anastomosing stringers of chlorite. Foliation at 40 dca.	TM24352	230.00	230.68	.68	.005
230.52			Quartz stringer at 45 dca.					
230.68	231.30		20% veins of quartz-carbonate. Foliation at 40 dca.	TM24353	230.68	231.30	.62	.000
231.00			.01 m crosscutting quartz-carbonate vein at 10 dca.					
231.30	232.00		5% stringers of quartz. 5% anastomosing stringers of chlorite. Foliation at 40 dca.	TM24354	231.30	232.00	.70	.005
231.40			Quartz-carbonate stringer at 25 dca.					
232.00	233.00		Trace blebs of pyrite. 01% blebs of pyrrhotite. 2% stringers of quartz. 10% patchy quartz-carbonate. Foliation at 40 dca.	TM24355	232.00	233.00	1.00	.005
232.40			Quartz-carbonate stringer at 25 dca.					
232.50			Moderate foliation at 40 dca.					
233.00	234.00		2% stringers of quartz. 1% stringers of quartz-carbonate. Foliation at 50 dca.	TM24356	233.00	234.00	1.00	.015
233.28			Quartz-carbonate stringer at 45 dca.					
233.93			Moderate foliation at 50 dca.					
236.59	237.14		5% veins of quartz. 5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24357	236.59	237.14	.55	.020
236.84			.01 m quartz-carbonate vein at 65 dca.					
237.05			Quartz-carbonate stringer at 45 dca.					
238.00	239.00		3% pervasive quartz. 3% stringers of quartz-carbonate. 10% patchy calcite. Foliation at 35 dca.	TM24358	238.00	239.00	1.00	.000
238.05			Quartz-carbonate stringer at 60 dca.					
238.16			Carbonate stringer at 65 dca.					
238.63			Strong foliation at 35 dca.					
240.14			Moderate foliation at 40 dca.					
241.00	242.00		Trace vein associated pyrite. 4% stringers of quartz-carbonate. Foliation at 50 dca.	TM24359	241.00	242.00	1.00	.000
241.52			Quartz-carbonate stringer at 50 dca. % associated pyrite.					
242.00	243.00		5% stringers of quartz-carbonate. 5% patchy calcite. Foliation at 50 dca.	TM24360	242.00	243.00	1.00	.005
242.73			Quartz-carbonate stringer at 30 dca.					
243.00	244.00		5% stringers of quartz-carbonate. 20% patchy calcite. Foliation at 50 dca.	TM24361	243.00	244.00	1.00	.000
243.15			Moderate foliation at 50 dca.					
243.30			.04 m quartz-carbonate vein at 25 dca.					
243.64			Quartz-carbonate stringer at 55 dca.					
244.00	245.00		2% stringers of quartz-carbonate. 2% stringers of chlorite. Foliation at 50 dca.	TM24362	244.00	245.00	1.00	.010
245.00	246.00		5% stringers of quartz-carbonate. 5% patchy calcite. 2% stringers of chlorite. Foliation at 55 dca.	TM24363	245.00	246.00	1.00	.000
246.00	247.00		2% patchy quartz. 1% stringers of quartz-carbonate. 2% patchy calcite. 5% stringers of chlorite. Foliation at 55 dca.	TM24364	246.00	247.00	1.00	.000
247.00	248.00		1% patchy quartz. 5% stringers of quartz-carbonate. 5% patchy calcite. 3% stringers of chlorite. Foliation at 55 dca.	TM24365	247.00	248.00	1.00	.100
247.00	248.00		QC Sample tm24366 - DUP : 0.00 g/tonne.					
247.68			Carbonate stringer at 40 dca.					
248.00			QC Sample tm24367 - B : 0.00 g/tonne.	TM24368	248.00	249.00	1.00	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			248.00 249.00 5% patchy quartz. 2% stringers of quartz-carbonate. 10% patchy calcite. 5% stringers of chlorite. Foliation at 55 dca.					
			248.73 Moderate to strong foliation at 55 dca.					
			249.00 250.00 20% pervasive quartz. 1% stringers of quartz-carbonate. 2% stringers of chlorite. Foliation at 55 dca.	TM24369	249.00	250.00	1.00	.000
			249.54 Quartz-carbonate stringer at 85 dca.					
			250.00 251.00 50% pervasive quartz. 2% stringers of chlorite. Foliation at 30 dca.	TM24370	250.00	251.00	1.00	.000
			250.34 Moderate foliation at 30 dca.					

Date: 11 Dec, 1996

PLACER DOME CANADA LIMITED
MONETA PORCUPINE OPTION
DRILL HOLE RECORD

Page: 1 of 15

Northing: 10000
Easting: 10000
Surveyed: No

Drill Hole: 546-003
Hole Length: 268.94 metres

Collar Azi.: 360
Collar Dip: -45

Sperry Sun Tests
Depth Azi. Dip

Drilled by: Norex Drilling Limited
Drill type: 25

NTS Reference: 42A/06

62.0 357 -43
161.0 353 -41
268.9 352 -37

Core size: NQ
Date Started: July 23, 1996
Date Finished: July 25, 1996

Depth to Bedrock: 26m
Claim: P594793
Length per Claim: 268.94m

Core Samples: 237
Sludge Samples: 42
Sample Type: Au

Logged by: Kathy Farrell
Date Logging Started: August 4, 1996
Date Logging Finished: August 7, 1996
Geotechnical Log By: Michael De Luca

Material Left in Hole: Casing pulled, hole cemented.
Post Location: 25m east of 4 post of claim P594784
Purpose: Test North Volcanic Package with IP anomaly
Local Reference: 400m S of Murphy/Tisdale Twp Line & 800m E of Hwy 655
Core Storage: Returned to Moneta Porcupine Mines Inc.

Signature: 

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
.00	26.00	0VB	Assay values of 0.000 g/t represent less than 0.005 g/t or below the detection limit. OVERBURDEN Overburden. The casing went into the bedrock 2m to 28m. The first 12m of core are very blocky.					
26.00	37.05	2B	MAFIC PYROCLASTIC Crystal tuff Mafic Pyroclastic. Texture - foliated, soft to moderately hard, dark grey, coarse grained. Trace vein associated pyrite overall. .1% total sulphides. Lower contact at 55 dca. Moderate patchy carbonatization. 2% veins of quartz. 10% stringers of quartz-carbonate. 5% patchy carbonate. 26.00 29.00 This section is very weathered, blocky and crumbly. It is a greyish-beige with white weathering crystals. 29.00 37.05 Well foliated blocky core with 5% quartz veins with rusty discolouration (leucoxene?). This rusty weathering product occurs parallel to the foliation. It does not appear after 34.79m.	TM24371	29.00	29.78	.78	.000
			29.00 29.78 5% stringers of calcite. 5% intrafolial leucoxene. Foliation at 50 dca. 29.23 Very strong foliation at 50 dca. 29.65 .03 m quartz vein at 60 dca. Lower core angle at 55 dca. 29.76 .09 m quartz-carbonate vein at 50 dca. 29.78 30.12 25% veins of quartz. 40% patchy calcite. 15% intrafolial leucoxene. Foliation at 50 dca. Quartz veins at 50 dca.	TM24372	29.78	30.12	.34	.000
			32.00 32.31 50% veins of quartz. 15% vein associated leucoxene. Foliation at 50 dca. Quartz veins at 50 dca. 32.10 .12 m quartz vein at 50 dca. 15% associated leucoxene. 32.31 32.80 3% stringers of calcite. 10% intrafolial leucoxene. Foliation at 50 dca. 32.80 33.08 Trace disseminated pyrite. 20% veins of quartz. 10% patchy calcite. 5% vein associated leucoxene. Foliation at 55 dca. Quartz veins at 20 dca. 32.92 .06 m quartz-carbonate stringer at 20 dca.	TM24373 TM24374 TM24375	32.00 32.31 32.80	32.31 32.80 33.08	.31 .49 .28	.000 .010 .000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
			33.08 34.00 Trace vein associated pyrite. 4% veins of quartz-carbonate. 8% stringers of calcite. Foliation at 55 dca.	TM24376	33.08	34.00	.92	.015
			34.00 35.00 5% veins of quartz-carbonate. 3% stringers of calcite. 20% intrafolial leucoxene. Foliation at 55 dca.	TM24377	34.00	35.00	1.00	.000
			35.00 36.00 7% stringers of quartz-carbonate. Foliation at 55 dca.	TM24378	35.00	36.00	1.00	.000
			35.31 .03 m quartz-carbonate vein at 50 dca.					
			35.94 Quartz-carbonate stringer at 50 dca.					
			36.00 37.05 1% stringers of quartz. 3% stringers of quartz-carbonate. Foliation at 55 dca.	TM24379	36.00	37.05	1.05	.000
			36.15 Very strong foliation at 55 dca.					
			36.68 Quartz stringer at 60 dca.					
37.05	135.39	2A3	MAGNESIUM BASALT Magnesium Basalt. Texture - massive, and foliated. Moderately hard to hard, light greyish-green, fine grained. Trace disseminated pyrite overall. 1% disseminated pyrrhotite overall. 1.1% total sulphides. Lower contact at 35 dca. Moderate to strong lenses of carbonatization. Weak to moderate patchy silicification. 2% stringers of quartz. 5% stringers of quartz-carbonate. 3% stringers of carbonate.					
			37.05 58.69 This section is well foliated with 10% quartz-calcite stringers and veins parallel to the foliation. The rock is strongly carbonatized (10%), with it stronger proximal to stringers and veins.	TM24380	37.05	38.00	.95	.000
			37.05 38.00 3% stringers of quartz. 10% stringers of quartz-carbonate. Foliation at 55 dca.					
			37.30 Quartz-carbonate stringer at 60 dca.					
			38.00 39.00 2% stringers of quartz. 10% stringers of quartz-carbonate. Foliation at 55 dca.	TM24381	38.00	39.00	1.00	.000
			38.13 Quartz stringer at 75 dca.					
			38.61 Quartz stringer at 45 dca.					
			38.93 Moderate to strong foliation at 55 dca.					
			39.00 40.00 Trace disseminated pyrite. 1% veins of quartz. 5% stringers of quartz-carbonate. 10% patchy calcite. Foliation at 55 dca.	TM24382	39.00	40.00	1.00	.000
			39.05 .01 m quartz vein at 60 dca.					
			40.00 41.00 2% stringers of quartz. 8% stringers of quartz-carbonate. 4% stringers of calcite. Foliation at 55 dca.	TM24383	40.00	41.00	1.00	.010
			40.00 41.00 QC Sample tm24384 - DUP : 0.00 g/tonne.					
			40.47 Quartz-carbonate stringer at 45 dca.					
			41.00 QC Sample tm24385 - B : 0.00 g/tonne.	TM24386	41.00	42.00	1.00	.010
			41.00 42.00 3% stringers of quartz. 5% stringers of quartz-carbonate. 20% pervasive calcite. Foliation at 45 dca.					
			42.00 43.00 10% stringers of quartz-carbonate. 20% pervasive calcite. Foliation at 45 dca.	TM24387	42.00	43.00	1.00	.000
			43.00 44.00 5% stringers of quartz-carbonate. 10% pervasive calcite. Foliation at 45 dca.	TM24388	43.00	44.00	1.00	.000
			43.13 Quartz-carbonate stringer at 45 dca.					
			43.31 Strong foliation at 45 dca.					
			43.82 .02 m quartz-carbonate vein at 60 dca.					
			45.73 46.53 10% stringers of quartz-carbonate. 10% pervasive calcite. Foliation at 50 dca.	TM24389	45.73	46.53	.80	.000
			46.27 Quartz-carbonate stringer at 60 dca.					
			47.77 Strong foliation at 50 dca.					
			48.48 49.50 20% veins of quartz-carbonate. 15% pervasive calcite. Foliation at 50 dca. Quartz veins at 40 dca.	TM24390	48.48	49.50	1.02	.000
			49.16 .04 m quartz-carbonate vein at 35 dca. Lower core angle at 40 dca.					
			49.50 50.50 5% stringers of quartz-carbonate. 10% pervasive calcite. Foliation at 50 dca.	TM24391	49.50	50.50	1.00	.000
			50.50 51.50 2% stringers of quartz. 5% stringers of quartz-carbonate. 3% pervasive calcite. Foliation at 65 dca.	TM24392	50.50	51.50	1.00	.010
			50.88 .01 m quartz-carbonate vein at 55 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
51.21			Quartz-carbonate stringer at 55 dca.					
51.50			Moderate to strong foliation at 65 dca.					
51.50	52.50		.5% intrafolial pyrite. 5% stringers of quartz-carbonate. Foliation at 65 dca.	TM24393	51.50	52.50	1.00	.000
52.50	53.50		2% stringers of quartz-carbonate. 5% patchy calcite. Foliation at 65 dca.	TM24394	52.50	53.50	1.00	.030
53.11			Carbonate stringer at 35 dca.					
53.50	54.50		4% stringers of quartz-carbonate. 4% patchy calcite. Foliation at 55 dca.	TM24395	53.50	54.50	1.00	.000
53.86			Quartz-carbonate stringer at 70 dca.					
54.50	55.50		2% stringers of quartz-carbonate. 5% patchy calcite. Foliation at 55 dca.	TM24396	54.50	55.50	1.00	.000
54.62			Quartz-carbonate stringer at 40 dca.					
55.50	56.32		2% stringers of quartz-carbonate. 15% pervasive calcite. Foliation at 55 dca.	TM24397	55.50	56.32	.82	.000
55.88			Moderate foliation at 55 dca.					
56.32	56.54		This section almost 80% chlorite with up to 1mm stringers of calcite (15%) parallel to foliation. There is one quartz- calcite vein at 25 dca. There is 1.5% blebby pyrite and 0.5% within stringers. This may be an interflow sediment.					
56.32	56.54		01% blebs of pyrite. 5% veins of quartz-carbonate. 15% stringers of calcite. 80% massive chlorite. Foliation at 55 dca.	TM24398	56.32	56.54	.22	.000
56.32			.22 m sharp alteration contact at 65 dca. Lower core angle at 55 dca.					
56.32	56.54		QC Sample tm24399 - DUP : 0.02 g/tonne.					
56.54			QC Sample tm24400 - B : 0.01 g/tonne.					
56.54	56.92		Trace blebs of pyrite. 3% stringers of quartz-carbonate. 10% pervasive calcite. Foliation at 55 dca.	TM24401	56.54	56.92	.38	.005
56.92	58.00		5% stringers of quartz-carbonate. 10% pervasive calcite. Foliation at 55 dca.	TM24402	56.92	58.00	1.08	.015
58.00	59.00		5% stringers of quartz-carbonate. 15% pervasive calcite. 2% veins of chlorite. Foliation at 40 dca.	TM24403	58.00	59.00	1.00	.035
58.69	75.36		This section has a weak foliation and is less chloritic than the above rock. Pervasive carbonatization is less apparent but there are 10-15% quartz-calcite veins and stringers.					
59.00	60.00		3% stringers of quartz-carbonate. Foliation at 40 dca.	TM24404	59.00	60.00	1.00	.005
60.00	61.00		10% stringers of quartz-carbonate. Foliation at 40 dca.	TM24405	60.00	61.00	1.00	.005
60.18			.01 m quartz-carbonate vein at 50 dca.					
60.43			Quartz-carbonate stringer at 45 dca.					
61.00	62.00		6% stringers of quartz-carbonate. Foliation at 40 dca.	TM24406	61.00	62.00	1.00	.010
61.66			Weak to moderate foliation at 40 dca.					
61.84			.02 m quartz-carbonate vein at 55 dca.					
63.88	64.94		15% veins of quartz-carbonate. 5% patchy calcite. Foliation at 50 dca.	TM24407	63.88	64.94	1.06	.005
63.96			.02 m quartz-carbonate vein at 70 dca.					
64.40			Quartz-carbonate stringer at 50 dca.					
64.55			Weak to moderate foliation at 50 dca.					
65.78			Quartz-carbonate stringer at 35 dca.					
66.43	67.00		10% veins of quartz-carbonate. 5% patchy calcite. Foliation at 45 dca. Quartz veins at 55 dca.	TM24408	66.43	67.00	.57	.030
66.86			.02 m quartz-carbonate vein at 55 dca.					
69.65	70.10		15% veins of quartz-carbonate. Foliation at 45 dca.	TM24409	69.65	70.10	.45	.005
69.72			Quartz-carbonate stringer at 45 dca.					
69.94			.04 m quartz-carbonate vein at 65 dca. Lower core angle at 60 dca.					
70.18			Moderate foliation at 45 dca.					
71.00	72.00		5% stringers of quartz-carbonate. Foliation at 60 dca.	TM24410	71.00	72.00	1.00	.000
71.23			Quartz-carbonate stringer at 80 dca.					
71.74			Quartz-carbonate stringer at 50 dca.					
72.00	72.51		1% stringers of quartz-carbonate. Foliation at 60 dca.	TM24411	72.00	72.51	.51	.000
72.51	73.07		15% veins of quartz-carbonate. Foliation at 60 dca. Quartz veins at 20 dca.	TM24412	72.51	73.07	.56	.025
72.89			.02 m quartz-carbonate vein at 20 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
	73.07		74.00 1% stringers of quartz-carbonate. Foliation at 50 dca.	TM24413	73.07	74.00	.93	.005
	73.17		Weak to moderate foliation at 60 dca.					
	74.00		75.00 5% stringers of quartz-carbonate. 10% pervasive calcite. Foliation at 50 dca.	TM24414	74.00	75.00	1.00	.000
	74.27		Quartz-carbonate stringer at 65 dca.					
	75.00		75.64 2% stringers of quartz-carbonate. 3% patchy calcite. Foliation at 50 dca.	TM24415	75.00	75.64	.64	.010
	75.36		79.00 Quartz-calcite veining up to 20% with patchy carbonate alteration associated with them.					
	75.57		Moderate foliation at 50 dca.					
	75.64		75.85 70% veins of quartz-carbonate. Foliation at 50 dca. Quartz veins at 50 dca.	TM24416	75.64	75.85	.21	.015
	75.69		.12 m quartz-carbonate vein at 50 dca. Lower core angle at 40 dca.					
	75.85		77.00 1% stringers of quartz-carbonate. Foliation at 50 dca.	TM24417	75.85	77.00	1.15	.010
	77.00		78.00 Trace vein associated pyrite. 15% stringers of quartz-carbonate. 5% patchy calcite. Foliation at 50 dca.	TM24418	77.00	78.00	1.00	.000
	77.00		78.00 QC Sample tm24419 - DUP : 0.00 g/tonne.					
	77.40		Quartz-carbonate stringer at 85 dca.					
	77.55		Quartz-carbonate vein at 15 dca.					
	78.00		QC Sample tm24420 - B : 0.00 g/tonne.	TM24421	78.00	79.11	1.11	.015
	78.00		79.11 5% stringers of quartz-carbonate. 2% patchy calcite. Foliation at 50 dca.					
	78.39		Quartz-carbonate stringer at 55 dca.					
	79.00		88.00 Same as above rock but quartz-calcite stringers have decreased to 2-3%.					
	80.12		Moderate foliation at 40 dca.					
	81.30		Quartz-carbonate stringer at 55 dca.					
	81.95		Quartz-carbonate stringer at 30 dca.					
	83.00		84.00 5% stringers of quartz-carbonate. 3% patchy calcite. Foliation at 40 dca.	TM24422	83.00	84.00	1.00	.015
	84.00		84.50 5% stringers of quartz-carbonate. Foliation at 40 dca.	TM24423	84.00	84.50	.50	.000
	84.50		85.50 5% stringers of quartz-carbonate. 10% patchy calcite. Foliation at 60 dca.	TM24424	84.50	85.50	1.00	.000
	84.93		.01 m quartz-carbonate vein at 65 dca.					
	85.24		.01 m quartz-carbonate vein at 60 dca.					
	85.75		Moderate foliation at 60 dca.					
	86.57		Quartz-carbonate stringer at 70 dca.					
	88.00		105.03 Quartz-calcite veins and stringers up to 10% and carbonate alteration patches up to 2-5% within massive mafic volcanic.					
	88.00		89.00 8% pervasive quartz. 5% stringers of quartz-carbonate. 2% patchy calcite. Foliation at 55 dca.	TM24425	88.00	89.00	1.00	.005
	88.29		.02 m quartz-carbonate vein at 45 dca.					
	88.36		Quartz-carbonate stringer at 60 dca.					
	88.74		Weak to moderate foliation at 55 dca.					
	89.00		90.00 3% stringers of quartz-carbonate. 2% patchy calcite. Foliation at 55 dca.	TM24426	89.00	90.00	1.00	.005
	89.43		Quartz-carbonate stringer at 60 dca.					
	89.89		Quartz-carbonate stringer at 75 dca.					
	90.00		91.00 8% veins of quartz-carbonate. Foliation at 55 dca. Quartz veins at 40 dca.	TM24427	90.00	91.00	1.00	.000
	90.19		Quartz-carbonate stringer at 70 dca.					
	90.68		.01 m quartz-carbonate vein at 40 dca.					
	91.00		92.00 10% patchy quartz-carbonate. Foliation at 55 dca.	TM24428	91.00	92.00	1.00	.005
	92.00		93.00 5% pervasive quartz. 1% patchy calcite. Foliation at 45 dca.	TM24429	92.00	93.00	1.00	.005
	93.00		94.00 10% veins of quartz-carbonate. 1% vein associated chlorite. Foliation at 45 dca. Quartz veins at 55 dca.	TM24430	93.00	94.00	1.00	.005
	93.22		.06 m quartz-carbonate vein at 55 dca. Lower core angle at 50 dca.					
	93.84		Quartz-carbonate stringer at 60 dca.					
	94.00		95.00 3% stringers of quartz-carbonate. Foliation at 45 dca.	TM24431	94.00	95.00	1.00	.000
	94.21		Quartz-carbonate stringer at 50 dca.					
	94.42		Weak to moderate foliation at 45 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
95.00	95.50		2% stringers of quartz-carbonate. 2% patchy calcite. Foliation at 45 dca.	TM24432	95.00	95.50	.50	.000
95.50	96.44		10% stringers of quartz-carbonate. 8% patchy calcite. Foliation at 45 dca.	TM24433	95.50	96.44	.94	.000
95.73			.03 m quartz-carbonate vein at 70 dca.					
95.90			.02 m quartz-carbonate vein at 50 dca.					
96.21			.02 m quartz-carbonate vein at 45 dca.					
96.44	96.95		2% stringers of quartz-carbonate. Foliation at 45 dca.	TM24434	96.44	96.95	.51	.000
96.52			Quartz-carbonate stringer at 55 dca.					
96.95	97.51		2% stringers of quartz-carbonate. 10% intrafolial calcite. Foliation at 45 dca.	TM24435	96.95	97.51	.56	.000
97.15			Weak fault at 65 dca.					
97.28			Weak to moderate foliation at 45 dca.					
97.51	98.55		2% stringers of quartz-carbonate. Foliation at 45 dca.	TM24436	97.51	98.55	1.04	.000
98.06			Quartz-carbonate stringer at 55 dca.					
98.55	99.46		5% stringers of quartz-carbonate. Foliation at 45 dca.	TM24437	98.55	99.46	.91	.000
98.79			.01 m quartz-carbonate vein at 60 dca.					
99.46	100.46		10% veins of quartz-carbonate. 5% patchy calcite. 5% lenses of chlorite. Foliation at 45 dca.	TM24438	99.46	100.46	1.00	.000
99.58			Quartz-carbonate stringer at 35 dca.					
99.66			Quartz-carbonate stringer at 50 dca.					
100.15			Quartz-carbonate stringer at 55 dca.					
100.33			.02 m quartz-carbonate vein at 55 dca.					
100.46	101.18		1% stringers of quartz-carbonate. Foliation at 50 dca.	TM24439	100.46	101.18	.72	.000
101.18	102.18		1% flooded quartz. 10% veins of quartz-carbonate. 5% pervasive calcite. Foliation at 50 dca.	TM24440	101.18	102.18	1.00	.000
101.34			.02 m quartz-carbonate vein at 60 dca.					
102.06			.03 m quartz-carbonate vein at 55 dca. Lower core angle at 75 dca.					
102.18	103.18		1% stringers of quartz-carbonate. Foliation at 50 dca.	TM24441	102.18	103.18	1.00	.000
103.18	103.62		70% patchy quartz-carbonate. Foliation at 50 dca.	TM24442	103.18	103.62	.44	.000
103.28			Quartz-carbonate stringer at 55 dca.					
103.62	104.24		1% stringers of quartz-carbonate. Foliation at 50 dca.	TM24443	103.62	104.24	.62	.000
104.24	105.03		10% veins of quartz. 3% stringers of quartz-carbonate. Foliation at 50 dca.	TM24444	104.24	105.03	.79	.000
104.27			Weak to moderate foliation at 50 dca.					
104.65			.03 m quartz-carbonate vein at 65 dca.					
105.03	112.50		This section contains 5% calcite-chlorite stringers, 5-10% quartz-calcite veins and stringers and 5% spotty silicification. The silicification is associated with quartz-calcite veins and stringers.					
105.03	105.71		10% blotchy quartz. 5% stringers of quartz-carbonate. Foliation at 40 dca.	TM24445	105.03	105.71	.68	.000
105.03	105.71		QC Sample tm24446 - DUP : 0.00 g/tonne.					
105.12			Quartz-carbonate stringer at 60 dca.					
105.71			QC Sample tm24447 - B : 0.00 g/tonne.	TM24448	105.71	106.45	.74	.000
105.71	106.45		10% stringers of quartz-carbonate. Foliation at 40 dca.					
105.96			Quartz-carbonate stringer at 65 dca.					
106.05			Moderate foliation at 40 dca.					
106.17			Quartz-carbonate stringer at 55 dca.					
106.37			.01 m quartz-carbonate vein at 50 dca.					
107.05			Weak to moderate foliation at 55 dca.					
107.97	108.74		5% blotchy quartz. 5% stringers of quartz-carbonate. 2% patchy calcite. Foliation at 40 dca.	TM24449	107.97	108.74	.77	.005
108.22			Quartz-carbonate stringer at 60 dca.					
110.53			Moderate foliation at 60 dca.					
111.50	112.50		10% blotchy quartz. 5% stringers of quartz-carbonate. Foliation at 60 dca.	TM24450	111.50	112.50	1.00	.000
111.87			Quartz-carbonate stringer at 55 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
112.50	130.56		Medium grained massive flow which is intensely altered. There are 5% very soft chloritic anastomosing stringers occurring alone or in contact with quartz-calcite veins and stringers. There are 10% quartz-calcite veins and stringers as well as 3-5% patchy calcite. This section contains 1-5% disseminated pyrrhotite within the mafic and from 5-10% within quartz-calcite veins. The pyrrhotite within the veins may be blebby, disseminated or stringers along the vein edges.					
112.50	113.50		5% veins of quartz-carbonate. Foliation at 60 dca.	TM24451	112.50	113.50	1.00	.000
112.95			.01 m quartz-carbonate vein at 60 dca.					
114.56			Weak to moderate foliation at 55 dca.					
115.50	116.50		15% veins of quartz-carbonate. 5% stringers of chlorite. Foliation at 55 dca.	TM24452	115.50	116.50	1.00	.000
115.92			.03 m quartz-carbonate vein at 80 dca. Lower core angle at 50 dca.					
116.50	117.50		2% stringers of quartz-carbonate. 5% stringers of chlorite. Foliation at 55 dca.	TM24453	116.50	117.50	1.00	.000
117.50	118.50		Trace disseminated pyrrhotite. 4% stringers of quartz-carbonate. 5% stringers of chlorite. Foliation at 55 dca.	TM24454	117.50	118.50	1.00	.000
118.27			Quartz-carbonate stringer at 65 dca.					
118.50	119.00		1% disseminated pyrrhotite. 5% veins of quartz-carbonate. Foliation at 55 dca.	TM24455	118.50	119.00	.50	.000
118.85			.03 m quartz-carbonate vein at 70 dca.					
119.00	120.00		1% disseminated pyrrhotite. 3% stringers of quartz-carbonate. 2% patchy calcite. 5% stringers of chlorite. Foliation at 55 dca.	TM24456	119.00	120.00	1.00	.000
120.00	121.00		1% disseminated pyrrhotite. 3% stringers of quartz-carbonate. 5% stringers of chlorite. Foliation at 55 dca.	TM24457	120.00	121.00	1.00	.000
120.05			Quartz-carbonate stringer at 55 dca.					
121.00	122.00		1% disseminated pyrrhotite. 1% stringers of quartz-carbonate. 2% stringers of chlorite. Foliation at 55 dca.	TM24458	121.00	122.00	1.00	.000
121.50			Moderate foliation at 55 dca.					
122.00	123.00		2% disseminated pyrrhotite. 3% stringers of quartz-carbonate. 1% stringers of chlorite. Foliation at 50 dca.	TM24459	122.00	123.00	1.00	.000
122.89			Quartz-carbonate stringer at 45 dca.					
123.00	124.00		2% disseminated pyrrhotite. 5% stringers of quartz-carbonate. 2% stringers of chlorite. Foliation at 50 dca.	TM24460	123.00	124.00	1.00	.000
124.00			Quartz-carbonate stringer at 60 dca.					
124.00	125.00		1% vein associated pyrrhotite. 10% veins of quartz-carbonate. 1% stringers of chlorite. Foliation at 50 dca.	TM24461	124.00	125.00	1.00	.000
124.23			Moderate foliation at 50 dca.					
124.36			.03 m quartz-carbonate vein at 65 dca. 02% associated pyrrhotite.					
125.00	126.00		.5% disseminated pyrrhotite. 5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24462	125.00	126.00	1.00	.005
126.00	127.00		Trace disseminated pyrrhotite. 5% stringers of quartz-carbonate. Foliation at 45 dca.	TM24463	126.00	127.00	1.00	.000
126.11			Quartz-carbonate stringer at 45 dca.					
126.75			Quartz-carbonate stringer at 30 dca.					
127.00	127.69		Trace disseminated pyrrhotite. 1% stringers of quartz-carbonate. 1% stringers of chlorite. Foliation at 45 dca.	TM24464	127.00	127.69	.69	.000
127.69	128.04		10% vein associated pyrrhotite. 40% veins of quartz-carbonate. 5% stringers of chlorite. Foliation at 45 dca.	TM24465	127.69	128.04	.35	.000
127.69	128.04		QC Sample tm24466 - DUP : 0.00 g/tonne.					
127.81			.06 m quartz-carbonate vein at 30 dca. 10% associated pyrrhotite. Lower core angle at 45 dca.					
128.04			QC Sample tm24467 - B : 0.01 g/tonne.					
128.04	129.00		10% pervasive quartz. 2% stringers of quartz-carbonate. Foliation at 45 dca.	TM24468	128.04	129.00	.96	.000
128.37	135.39		Very blocky and broken up core until 133m. There are 10-15 percent chlorite stringers. One section from 132.33-132.46 is pervasively silicified. No pyrrhotite is found within this section. A slight plunge to the east is visible from fractures. It is					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			approximately 65-75 degrees.					
			128.55 Moderate foliation at 45 dca.					
			128.97 Quartz-carbonate stringer at 45 dca.					
			129.00 130.00 10% pervasive quartz. 1% stringers of quartz-carbonate. Foliation at 45 dca.	TM24469	129.00	130.00	1.00	.030
			131.61 Weak to moderate foliation at 55 dca.					
			132.26 133.00 30% pervasive quartz. 1% stringers of quartz-carbonate. 3% stringers of chlorite. Foliation at 55 dca.	TM24470	132.26	133.00	.74	.000
			133.00 134.00 10% veins of quartz-carbonate. 15% pervasive calcite. Foliation at 55 dca.	TM24471	133.00	134.00	1.00	.000
			133.51 .01 m quartz-carbonate vein at 80 dca.					
			133.55 .01 m quartz-carbonate vein at 55 dca.					
			133.94 Quartz-carbonate stringer at 75 dca.					
			134.00 135.00 5% stringers of quartz-carbonate. 3% patchy calcite. 5% stringers of chlorite. Foliation at 55 dca.	TM24472	134.00	135.00	1.00	.000
			134.63 Quartz-carbonate stringer at 65 dca.					
			134.75 Quartz-carbonate stringer at 65 dca.					
			134.89 Quartz-carbonate stringer at 75 dca.					
			135.00 135.39 2% stringers of quartz-carbonate. Foliation at 50 dca.	TM24473	135.00	135.39	.39	.000
135.39	140.52	2A3	MAGNESIUM BASALT Magnesium Basalt. Texture - flow brecciated, and foliated. Moderately hard to hard, pale greenish-grey, aphanitic. Trace disseminated pyrrhotite overall. .1% total sulphides. Lower contact at 75 dca. Moderate lenses of carbonatization. Moderate pervasive silicification. 5% stringers of quartz-carbonate. 5% lenses of carbonate. The beginning of this unit is blocky and weathered from 135.39-136.07m. The weathering consists of rusty staining, within fractures. Pyrrhotite is found close to the rusty fractures making the staining probably oxidized pyrrhotite. The fragments range in size from 1cm by 4cm to greater than 15cm wide. The fragments are silicified and the matrix is carbonatized (5-10%) as well quartz-calcite lenses and stringers run through fragments and the matrix. The lower contact is not well defined. The unit appears to end at the contact of a graphite alteration zone within a strongly carbonatized and silicified pillow? flow. Note: Lost Core return at 135.39m.	TM24474	135.39	136.25	.86	.000
			135.39 136.25 Trace blebs of pyrrhotite. 02% stringers of quartz-carbonate. 03% patchy calcite. Foliation at 50 dca.					
			136.25 137.00 05% stringers of quartz-carbonate. 02% patchy calcite. Foliation at 50 dca.	TM24475	136.25	137.00	.75	.000
			136.61 Quartz-carbonate stringer at 65 dca.					
			136.96 Quartz-carbonate stringer at 50 dca.					
			137.00 138.00 10% pervasive quartz. 02% stringers of quartz-carbonate. 03% patchy calcite. Foliation at 50 dca.	TM24476	137.00	138.00	1.00	.000
			137.28 .02 m quartz-carbonate vein at 55 dca.					
			137.52 Quartz-carbonate stringer at 60 dca.					
			138.00 139.00 20% pervasive quartz. 05% patchy calcite. Foliation at 50 dca.	TM24477	138.00	139.00	1.00	.000
			138.67 Moderate to strong foliation at 50 dca.					
			139.00 140.00 10% pervasive quartz. 03% stringers of quartz-carbonate. 05% patchy calcite. 05% stringers of chlorite. Foliation at 50 dca.	TM24478	139.00	140.00	1.00	.000
			139.26 Quartz-carbonate stringer at 65 dca.					
			139.71 Quartz-carbonate stringer at 60 dca.					
			140.00 140.52 02% stringers of quartz-carbonate. 10% patchy calcite. Foliation at 50 dca.	TM24479	140.00	140.52	.52	.020

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
140.52	164.17	2A3	<p>MAGNESIUM BASALT</p> <p>Magnesium Basalt. Texture - foliated, and mottled. Moderately hard to hard, light greyish-green, aphanitic. Trace vein associated pyrrhotite overall. .1% total sulphides. Lower contact at 60 dca. Moderate patchy carbonatization. Moderate blotchy silicification. 5% blotchy quartz. 10% stringers of quartz-carbonate. 5% patchy carbonate.</p> <p>This is a possible variolitic pillowed flow although the suspected varioles may be blotchy silicification. Selvages are hard to distinguish due to the alteration. There is one 20cm zone of quartz-calcite at 145.77m, the unit has 10% quartz-calcite stringers and lenses. There is also 2-5% chlorite stringers. 140.75 140.75 moderate to strong foliation at 65 dca.</p> <p>140.52 141.66 5% graphitic Mafic Flow. Texture - foliated, and veined. Moderately hard, dark grey, aphanitic. 1% blebs of pyrite overall. .1% total sulphides. Lower contact at 60 dca.</p> <p>140.52 140.86 2% stringers of quartz-carbonate. 3% intrafolial graphite. Foliation at 65 dca.</p> <p>This section occurs at the contact between the flow top breccia and the pillowed flow. The alteration contact is not distinct, but gradual. The rock changes colour from greyish-green to pale grey to light grey to darker grey to almost black in the centre of the zone then back out again to lighter shades of grey. There is a quartz vein at the centre of the zone with calcite on the edges as well as 15% quartz-calcite stringers. The stringers are concentrated in the centre but do occur throughout the zone. The quartz vein is not mineralized.</p>	TM24480	140.52	140.86	.34	.010
			140.86 141.08 20% veins of quartz. 15% stringers of quartz-carbonate. 20% intrafolial graphite. Foliation at 65 dca.	TM24481	140.86	141.08	.22	.000
			140.86 141.08 QC Sample tm24482 - DUP : 0.00 g/tonne.					
			140.91 Quartz-carbonate stringer at 65 dca.					
			140.96 .02 m quartz vein at 65 dca.					
			141.08 QC Sample tm24483 - B : 0.00 g/tonne.	TM24484	141.08	141.66	.58	.000
			141.08 141.66 10% stringers of quartz-carbonate. 5% intrafolial graphite. Foliation at 65 dca.					
			141.50 Quartz-carbonate stringer at 60 dca.					
			141.66 143.00 15% pervasive quartz. 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM24485	141.66	143.00	1.34	.010
			143.00 144.00 20% patchy quartz. 2% stringers of quartz-carbonate. Foliation at 55 dca.	TM24486	143.00	144.00	1.00	.000
			144.00 145.00 5% blotchy quartz. 2% stringers of quartz-carbonate. Foliation at 55 dca.	TM24487	144.00	145.00	1.00	.015
			144.17 Moderate to strong foliation at 55 dca.					
			145.00 145.71 30% pervasive quartz. 3% stringers of quartz-carbonate. Foliation at 55 dca.	TM24488	145.00	145.71	.71	.000
			145.71 146.01 85% veins of quartz-carbonate.	TM24489	145.71	146.01	.30	.055
			145.77 .20 m quartz-carbonate vein at 65 dca. Lower core angle at 25 dca.					
			146.01 147.00 30% patchy quartz. 10% stringers of quartz-carbonate. Foliation at 55 dca.	TM24490	146.01	147.00	.99	.000
			146.38 Quartz-carbonate stringer at 65 dca.					
			146.78 Quartz-carbonate stringer at 65 dca.					
			146.85 Quartz-carbonate stringer at 60 dca.					
			146.91 Quartz-carbonate stringer at 50 dca.					
			147.00 148.00 20% pervasive quartz. 5% stringers of quartz-carbonate. Foliation at 45 dca.	TM24491	147.00	148.00	1.00	.010
			148.00 148.87 10% patchy quartz. 5% stringers of quartz-carbonate. Foliation at 45 dca.	TM24492	148.00	148.87	.87	.000
			148.34 Quartz-carbonate stringer at 65 dca.					
			148.59 Moderate to strong foliation at 45 dca.					
			148.87 149.03 .5% vein associated pyrrhotite. 80% veins of quartz-carbonate.	TM24493	148.87	149.03	.16	.045
			148.92 .07 m quartz-carbonate vein at 55 dca. Lower core angle at 40 dca.					
			149.03 150.00 30% pervasive quartz. 5% stringers of quartz-carbonate. Foliation at 45 dca.	TM24494	149.03	150.00	.97	.000
			150.00 151.00 50% pervasive quartz. 5% stringers of quartz-carbonate. Foliation at 45 dca.	TM24495	150.00	151.00	1.00	.000
			150.30 Moderate foliation at 45 dca.					
			151.00 151.62 10% blotchy quartz. 5% stringers of quartz-carbonate. Foliation at 45 dca.	TM24496	151.00	151.62	.62	.000
			151.43 Quartz-carbonate stringer at 55 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
	151.62		151.62 152.50 15% pervasive quartz. 5% stringers of quartz-carbonate. 15% pervasive calcite. Foliation at 45 dca.	TM24497	151.62	152.50	.88	.000
	151.98		151.98 Quartz-carbonate stringer at 55 dca.					
	152.50		152.50 153.50 3% patchy quartz. 5% stringers of quartz-carbonate. 3% stringers of chlorite. Foliation at 45 dca.	TM24498	152.50	153.50	1.00	.010
	152.61		152.61 Quartz-carbonate stringer at 60 dca.					
	153.50		153.50 154.50 3% stringers of quartz-carbonate. 30% pervasive calcite. Foliation at 55 dca.	TM24499	153.50	154.50	1.00	.000
	154.50		154.50 155.26 5% stringers of quartz-carbonate. 3% stringers of chlorite. Foliation at 55 dca.	TM24500	154.50	155.26	.76	.000
	155.08		155.08 Moderate foliation at 55 dca.					
	155.26		155.26 156.26 20% patchy quartz. 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM24501	155.26	156.26	1.00	.000
	155.62		155.62 Quartz-carbonate stringer at 60 dca.					
	155.71		155.71 Quartz-carbonate stringer at 65 dca.					
	155.92		155.92 Quartz-carbonate stringer at 30 dca.					
	156.26		156.26 157.06 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM24502	156.26	157.06	.80	.000
	156.39		156.39 Quartz-carbonate stringer at 55 dca.					
	156.93		156.93 Quartz-carbonate stringer at 45 dca.					
	157.06		157.06 157.65 15% veins of quartz-carbonate. 40% banded serpentine. Foliation at 60 dca.	TM24503	157.06	157.65	.59	.015
	157.20		157.20 157.58 Pale apple green zone appears weathered. Sericitized minor fault with 5% quartz-calcite veins. The return was Lost Core for good 50cm after this zone.					
	157.25		157.25 .04 m quartz-carbonate vein at 55 dca. Lower core angle at 35 dca.					
	157.65		157.65 158.50 2% blotchy quartz. 15% patchy quartz-carbonate. Foliation at 60 dca.	TM24504	157.65	158.50	.85	.005
	157.65		157.65 158.50 QC Sample tm24505 - DUP : 0.00 g/tonne.					
	158.50		158.50 QC Sample tm24506 - B : 0.00 g/tonne.	TM24507	158.50	159.50	1.00	.000
	158.50		158.50 159.50 5% blotchy quartz. 5% stringers of quartz-carbonate. Foliation at 60 dca.					
	158.53		158.53 Moderate foliation at 60 dca.					
	159.46		159.46 Quartz-carbonate stringer at 65 dca.					
	159.50		159.50 160.44 10% blotchy quartz. 5% patchy quartz-carbonate. Foliation at 60 dca.	TM24508	159.50	160.44	.94	.000
	160.44		160.44 160.95 10% blotchy quartz. 5% stringers of quartz-carbonate. Foliation at 60 dca.	TM24509	160.44	160.95	.51	.000
	160.48		160.48 Quartz-carbonate stringer at 50 dca.					
	160.95		160.95 162.00 2% stringers of quartz. 1% stringers of quartz-carbonate. Foliation at 55 dca.	TM24510	160.95	162.00	1.05	.015
	161.13		161.13 Moderate to strong foliation at 55 dca.					
	161.31		161.31 Quartz-carbonate stringer at 55 dca.					
	162.00		162.00 164.17 Rock has gradually become more grey than green towards the contact with the downhole breccia. Possible carbon alteration? or more chloritic?.					
	162.00		162.00 163.00 1% stringers of quartz-carbonate. 5% patchy calcite. Foliation at 55 dca.	TM24511	162.00	163.00	1.00	.000
	162.28		162.28 Quartz-carbonate stringer at 55 dca.					
	163.00		163.00 164.17 10% veins of quartz-carbonate. Foliation at 55 dca.	TM24512	163.00	164.17	1.17	.000
	163.42		163.42 .02 m quartz-carbonate vein at 10 dca.					
	163.65		163.65 Quartz-carbonate stringer at 65 dca.					
	163.67		163.67 .01 m quartz-carbonate vein at 55 dca.					
164.17	170.23	2A3	MAGNESIUM BASALT Magnesium Basalt. Texture - flow brecciated, and foliated. Moderately hard to hard, light grey, aphanitic. .00% total sulphides. Moderate to strong pervasive carbonatization. Moderate intrafolial chloritization. 5% stringers of quartz-carbonate.					
	164.17		164.17 164.77 There are apple green fragments (30%), which may be sericite altered. The fragments are densely packed, the matrix mainly being chlorite. There are 5% quartz-calcite stringers which crosscut the fragments and are parallel to foliation.	TM24513	164.17	164.77	.60	.000
	164.17		164.17 164.77 5% stringers of quartz-carbonate. Foliation at 55 dca.					
	164.64		164.64 Quartz stringer at 65 dca.					
	164.77		164.77 170.23 This section is on and off brecciation and is not as altered as the first 60cm. There					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			are dark grey chloritic sections with 20% pervasive carbonate alteration and 5-10% quartz-calcite stringers. The chloritic section is also strongly foliated.					
			164.77 165.41 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM24514	164.77	165.41	.64	.000
			165.41 166.00 3% stringers of quartz-carbonate. 5% patchy calcite. Foliation at 65 dca.	TM24515	165.41	166.00	.59	.000
			166.00 166.77 3% blotchy quartz. 5% stringers of quartz-carbonate. 2% patchy calcite. Foliation at 65 dca.	TM24516	166.00	166.77	.77	.005
			166.55 Quartz-carbonate stringer at 80 dca.					
			166.77 167.57 3% stringers of quartz. 5% stringers of quartz-carbonate. 10% pervasive calcite. Foliation at 65 dca.	TM24517	166.77	167.57	.80	.000
			166.80 Moderate foliation at 75 dca.					
			166.85 Quartz-carbonate stringer at 65 dca.					
			167.46 Quartz-carbonate stringer at 80 dca.					
			167.57 168.57 3% stringers of quartz-carbonate. 10% pervasive calcite. Foliation at 65 dca.	TM24518	167.57	168.57	1.00	.000
			168.57 169.09 10% stringers of quartz-carbonate. 20% pervasive calcite. 30% intrafolial chlorite. Foliation at 65 dca.	TM24519	168.57	169.09	.52	.000
			168.57 169.09 QC Sample tm24520 - DUP : 0.00 g/tonne.					
			168.64 Strong foliation at 60 dca.					
			169.09 QC Sample tm24521 - B : 0.00 g/tonne.					
			169.09 170.35 15% pervasive quartz. 5% stringers of quartz-carbonate. 10% pervasive calcite. Foliation at 60 dca.	TM24522	169.09	170.35	1.26	.000
			169.15 Quartz-carbonate stringer at 70 dca.					
			169.90 Moderate to strong foliation at 60 dca.					
			170.16 Quartz-carbonate stringer at 75 dca.					
170.23	182.20	2A3	MAGNESIUM BASALT Magnesium Basalt. Texture - massive, and blocky. Moderately hard to hard, light grey, aphanitic .00% total sulphides. Lower contact at 55 dca. Weak blotchy silicification. 2% stringers of quartz. 5% mottled quartz-carbonate. 3% stringers of carbonate. This unit is highly fractured with chlorite and 1% pyrite within them. There are 10-15cm dark grey to black chloritic sections (10%) with 10% quartz-calcite stringers and 5% interstitial calcite. The lower contact is not well defined, it is taken at a possible selvage. There is a small mafic dyke at 171m. The lower contact is well defined and the upper is Lost Core is blocky core. It appears to be only 5cm wide.					
			172.36 Quartz-carbonate stringer at 60 dca.					
			173.41 173.81 35% anastomosing stringers of quartz-carbonate. 5% patchy calcite. Foliation at 55 dca.	TM24523	173.41	173.81	.40	.000
			173.52 Quartz-carbonate stringer at 55 dca.					
			173.81 174.38 10% stringers of quartz-carbonate. 5% patchy calcite. Foliation at 55 dca.	TM24524	173.81	174.38	.57	.000
			174.38 174.77 10% stringers of quartz-carbonate. 2% patchy calcite. 40% intrafolial chlorite. Foliation at 55 dca.	TM24525	174.38	174.77	.39	.010
			174.77 175.78 5% stringers of quartz-carbonate. 5% anastomosing stringers of chlorite. Foliation at 55 dca.	TM24526	174.77	175.78	1.01	.000
			174.90 Weak foliation at 55 dca.					
			175.86 Quartz-carbonate stringer at 65 dca.					
			177.39 Quartz-carbonate stringer at 60 dca.					
			178.00 179.00 01% fracture filling pyrite. 5% stringers of quartz-carbonate.	TM24527	178.00	179.00	1.00	.000
			178.62 .01 m quartz-carbonate vein at 75 dca.					
			180.23 Weak foliation at 55 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			181.38 182.20 5% stringers of quartz. 2% stringers of quartz-carbonate. 5% anastomosing stringers of chlorite. Foliation at 45 dca. 181.48 Quartz-carbonate stringer at 60 dca. 181.92 Quartz-carbonate stringer at 60 dca.	TM24528	181.38	182.20	.82	.035
182.20	268.94	2A	MAFIC FLOW Altered Mafic Flow. Texture - pillowed, and variolitic. Moderately hard to hard, light grey, fine grained. Trace disseminated pyrite overall. Trace disseminated pyrrhotite overall. .2% total sulphides. Weak patchy carbonatization. Moderate to strong pervasive silicification. 1% veins of quartz. 5% stringers of quartz-carbonate. 182.20 201.75 This section has 1-1.5m pillows with well defined chloritic selvages. Varioles are evident near the edges of the pillows. The centre of the pillows have 5% chlorite filled fractures. Trace disseminated pyrrhotite is also found within the pillows and selvages. 182.20 183.30 1% blotchy quartz. 5% anastomosing stringers of quartz-carbonate. Foliation at 45 dca. 182.88 Crosscutting quartz-carbonate stringer at 15 dca. 183.30 184.46 3% anastomosing stringers of quartz-carbonate. Foliation at 45 dca. 184.13 Quartz-carbonate stringer at 65 dca. 184.46 Weak to moderate foliation at 45 dca. 184.46 185.70 01% vein associated pyrite. 10% anastomosing stringers of quartz-carbonate. Foliation at 45 dca. 185.70 186.97 20% lenses of quartz-carbonate. 10% anastomosing stringers of chlorite. Foliation at 45 dca. 186.97 188.00 10% pervasive quartz. 15% lenses of quartz-carbonate. Foliation at 30 dca. 187.06 .02 m quartz-carbonate vein at 60 dca. 187.25 Weak to moderate foliation at 30 dca. 187.72 Quartz-carbonate stringer at 65 dca. 188.08 Quartz-carbonate stringer at 60 dca. 188.67 Weak to moderate foliation at 55 dca. 188.73 Quartz-carbonate stringer at 60 dca. 189.33 Fault at 40 dca. 191.00 192.00 5% stringers of quartz-carbonate. 5% anastomosing stringers of chlorite. Foliation at 50 dca. 192.00 193.00 5% stringers of quartz-carbonate. Foliation at 50 dca. 192.56 Quartz-carbonate stringer at 65 dca. 192.74 Moderate foliation at 50 dca. 193.00 194.00 5% veins of quartz-carbonate. Foliation at 50 dca. 193.34 Quartz-carbonate stringer at 65 dca. 193.67 Quartz-carbonate stringer at 50 dca. 194.00 195.00 5% pervasive quartz. 10% anastomosing stringers of quartz-carbonate. Foliation at 55 dca. 194.10 Quartz-carbonate stringer at 60 dca. 194.43 Quartz-carbonate stringer at 60 dca. 195.00 196.00 Trace disseminated pyrrhotite. 10% pervasive quartz. 5% anastomosing stringers of quartz-carbonate. Foliation at 55 dca. 196.00 196.95 5% anastomosing stringers of quartz-carbonate. Foliation at 55 dca. 196.95 198.02 Trace blebs of pyrrhotite. 10% pervasive quartz. 2% interstitial quartz-carbonate. Foliation at 55 dca. 197.31 Foliation at 55 dca. 198.78 Quartz-carbonate stringer at 65 dca. 200.10 Weak to moderate foliation at 45 dca.	TM24529	182.20	183.30	1.10	.000
				TM24530	183.30	184.46	1.16	.000
				TM24531	184.46	185.70	1.24	.000
				TM24532	185.70	186.97	1.27	.020
				TM24533	186.97	188.00	1.03	.005
				TM24534	191.00	192.00	1.00	.000
				TM24535	192.00	193.00	1.00	.010
				TM24536	193.00	194.00	1.00	.015
				TM24537	194.00	195.00	1.00	.000
				TM24538	195.00	196.00	1.00	.000
				TM24539	196.00	196.95	.95	.000
				TM24540	196.95	198.02	1.07	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
	201.48		202.22 10% pervasive quartz. 3% anastomosing stringers of quartz-carbonate. Foliation at 45 dca.	TM24541	201.48	202.22	.74	.005
	201.75		204.43 Zone of variolitic pillows ranging from 6-50cm in diameter. The pillows are silicified and fractured with chloritic selvages.					
	202.22		203.00 30% pervasive quartz. Foliation at 50 dca.	TM24542	202.22	203.00	.78	.020
	203.00		203.96 10% pervasive quartz. Foliation at 50 dca.	TM24543	203.00	203.96	.96	.000
	203.96		204.47 30% pervasive quartz. Foliation at 50 dca.	TM24544	203.96	204.47	.51	.005
	204.35		Weak to moderate foliation at 50 dca.					
	204.43		226.55 There is trace intrafolial pyrrhotite and pyrite within the pillows and selvages. The pillows are variolitic and silicified with chloritic selvages. There is 5-10% interstitial carbonate alteration within selvages and pillows. There are only 2-3% quartz-carbonate stringers.					
	207.63		208.50 Trace disseminated pyrite. 1% disseminated pyrrhotite. 5% pervasive quartz. 1% stringers of quartz-carbonate. Foliation at 55 dca.	TM24545	207.63	208.50	.87	.005
	208.37		Moderate foliation at 55 dca.					
	208.50		209.50 5% pervasive quartz. 2% stringers of quartz-carbonate. Foliation at 55 dca.	TM24546	208.50	209.50	1.00	.000
	208.56		Fault at 60 dca.					
	209.31		Quartz-carbonate stringer at 40 dca.					
	209.50		210.50 15% pervasive quartz. 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM24547	209.50	210.50	1.00	.005
	209.50		210.50 QC Sample tm24548 - DUP : 0.00 g/tonne.					
	209.72		Quartz-carbonate stringer at 70 dca.					
	210.50		211.50 QC Sample tm24549 - B : 0.01 g/tonne.	TM24550	210.50	211.50	1.00	.000
	210.50		211.50 25% pervasive quartz. 3% stringers of quartz-carbonate. Foliation at 55 dca.					
	211.34		Quartz-carbonate stringer at 60 dca.					
	211.50		212.52 10% pervasive quartz. 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM24551	211.50	212.52	1.02	.000
	212.50		214.71 Area of intense quartz flooding and carbonate alteration with trace pyrrhotite and chalcopyrite.					
	212.51		Moderate foliation at 55 dca.					
	212.52		213.73 10% flooded quartz. 3% stringers of quartz-carbonate. 5% anastomosing stringers of calcite. Foliation at 55 dca.	TM24552	212.52	213.73	1.21	.000
	213.02		Quartz-carbonate stringer at 65 dca.					
	213.27		Quartz-carbonate stringer at 40 dca.					
	213.54		Quartz-carbonate stringer at 85 dca.					
	213.73		214.34 3% stringers of quartz-carbonate. Foliation at 55 dca.	TM24553	213.73	214.34	.61	.000
	214.34		214.79 1% stringers of quartz-carbonate. 5% patchy calcite. Foliation at 55 dca.	TM24554	214.34	214.79	.45	.010
	214.51		Quartz-carbonate stringer at 40 dca.					
	214.79		215.82 Trace disseminated pyrrhotite. 1% stringers of quartz-carbonate. Foliation at 55 dca.	TM24555	214.79	215.82	1.03	.000
	215.82		216.08 25% patchy quartz-carbonate. Foliation at 55 dca.	TM24556	215.82	216.08	.26	.000
	216.08		217.00 02% stringers of quartz. Foliation at 55 dca.	TM24557	216.08	217.00	.92	.025
	216.57		Quartz-carbonate stringer at 45 dca.					
	217.00		217.50 5% patchy quartz-carbonate. Foliation at 55 dca.	TM24558	217.00	217.50	.50	.025
	217.50		218.50 10% patchy quartz-carbonate. Foliation at 55 dca.	TM24559	217.50	218.50	1.00	.000
	218.47		Weak to moderate foliation at 55 dca.					
	218.50		219.50 5% patchy quartz-carbonate. Foliation at 55 dca.	TM24560	218.50	219.50	1.00	.010
	218.54		Quartz-carbonate stringer at 55 dca.					
	219.50		220.62 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM24561	219.50	220.62	1.12	.000
	220.62		221.63 10% pervasive quartz. 5% stringers of quartz-carbonate. 5% interstitial calcite. Foliation at 30 dca.	TM24562	220.62	221.63	1.01	.000
	221.00		Moderate to strong foliation at 30 dca.					
	221.11		Quartz-carbonate stringer at 50 dca.					
	222.26		Moderate foliation at 55 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
	225.38		Moderate to strong foliation at 45 dca.					
	226.00		3% veins of quartz-carbonate. Foliation at 45 dca.					
	226.55		.02 m quartz-carbonate vein at 65 dca.	TM24563	226.00	227.00	1.00	.000
	226.56	230.62	This section is medium grey, fine grained with 20% quartz (minor calcite) veins and 1-2% blebby pyrrhotite and trace chalcopyrite. The veins are not mineralized.					
	226.74		Quartz-carbonate stringer at 70 dca.					
	226.94		Quartz-carbonate stringer at 75 dca.					
	227.00	228.00	10% veins of quartz. 10% patchy quartz-carbonate. Foliation at 45 dca.	TM24564	227.00	228.00	1.00	.000
	227.74		.08 m quartz-carbonate vein at 85 dca. Lower core angle at 60 dca.					
	228.00	229.00	2% blebs of pyrrhotite. Trace disseminated chalcopyrite. 15% veins of quartz-carbonate. Foliation at 45 dca.	TM24565	228.00	229.00	1.00	.000
	228.00	229.00	QC Sample tm24566 - DUP : 0.00 g/tonne.					
	228.34		.06 m quartz-carbonate vein at 35 dca. Lower core angle at 30 dca.					
	228.60		.03 m quartz-carbonate vein at 20 dca.					
	229.00		QC Sample tm24567 - B : 0.00 g/tonne.					
	229.00	230.00	2% blebs of pyrrhotite. Trace disseminated chalcopyrite. 10% veins of quartz-carbonate. Foliation at 45 dca.	TM24568	229.00	230.00	1.00	.000
	229.18		Weak to moderate foliation at 45 dca.					
	229.41		.03 m quartz-carbonate vein at 65 dca.					
	229.52		.01 m quartz-carbonate vein at 40 dca.					
	230.00	230.62	Trace disseminated pyrrhotite. 10% veins of quartz-carbonate. Foliation at 45 dca.	TM24569	230.00	230.62	.62	.000
	230.06		.06 m quartz-carbonate vein at 70 dca. Lower core angle at 80 dca.					
	230.62	244.88	Up to 20% silicification: pervasive, flooding and blotchy. There is 2-5% quartz and quartz-calcite veins and stringers. The pillows have 5% chlorite filled fractures. The selvages are very chloritic with 1% pyrrhotite stringers.					
	230.62	231.63	5% stringers of quartz-carbonate. 5% interstitial calcite. Foliation at 45 dca.	TM24570	230.62	231.63	1.01	.010
	230.92		.01 m quartz-carbonate vein at 55 dca.					
	231.63	232.50	2% stringers of quartz-carbonate. Foliation at 65 dca.	TM24571	231.63	232.50	.87	.000
	232.50	233.50	5% patchy quartz. 5% stringers of quartz-carbonate. Foliation at 65 dca.	TM24572	232.50	233.50	1.00	.000
	233.06		Quartz-carbonate stringer at 80 dca.					
	233.50	234.50	1% patchy quartz. 1% stringers of quartz-carbonate. Foliation at 65 dca.	TM24573	233.50	234.50	1.00	.000
	234.50	235.50	5% flooded quartz. 5% stringers of quartz-carbonate. Foliation at 65 dca.	TM24574	234.50	235.50	1.00	.000
	234.61		Quartz-carbonate stringer at 80 dca.					
	234.88		Quartz-carbonate stringer at 75 dca.					
	235.29		Moderate foliation at 65 dca.					
	235.50	236.50	10% veins of quartz. 3% stringers of quartz-carbonate. Foliation at 65 dca.	TM24575	235.50	236.50	1.00	.000
	236.18		Quartz-carbonate stringer at 75 dca.					
	236.27		.01 m quartz vein at 65 dca.					
	236.50	237.00	2% stringers of pyrrhotite. 5% flooded quartz. Foliation at 50 dca.	TM24576	236.50	237.00	.50	.000
	236.50	237.00	QC Sample tm24577 - DUP : 0.00 g/tonne.					
	237.00		QC Sample tm24578 - B : 0.00 g/tonne.					
	237.00	238.00	5% patchy quartz. 5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24579	237.00	238.00	1.00	.005
	237.47		Quartz-carbonate stringer at 50 dca.					
	238.00	239.00	5% flooded quartz. 2% stringers of quartz-carbonate. Foliation at 50 dca.	TM24580	238.00	239.00	1.00	.000
	239.00	240.05	5% flooded quartz. 10% stringers of quartz-carbonate. Foliation at 50 dca.	TM24581	239.00	240.05	1.05	.000
	239.42		Moderate foliation at 50 dca.					
	240.05	241.19	5% patchy quartz. 1% stringers of quartz-carbonate. Foliation at 60 dca.	TM24582	240.05	241.19	1.14	.000
	241.19	241.48	2% interstitial calcite. Foliation at 60 dca.	TM24583	241.19	241.48	.29	.000
	241.35		Quartz-carbonate stringer at 75 dca.					
	241.48	242.00	1% stringers of quartz-carbonate. Foliation at 60 dca.	TM24584	241.48	242.00	.52	.000
	242.00	242.79	5% patchy quartz. 1% stringers of quartz-carbonate. Foliation at 60 dca.	TM24585	242.00	242.79	.79	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			242.50 Shear at 45 dca.					
			242.70 Quartz-carbonate stringer at 70 dca.					
			242.79 243.22 3% stringers of quartz-carbonate. Foliation at 60 dca.	TM24586	242.79	243.22	.43	.000
			242.96 Quartz-carbonate stringer at 85 dca.					
			243.22 244.00 .5% stringers of quartz-carbonate. Foliation at 60 dca.	TM24587	243.22	244.00	.78	.000
			243.50 Weak to moderate foliation at 60 dca.					
			244.00 244.88 5% patchy quartz. 2% patchy calcite. Foliation at 60 dca.	TM24588	244.00	244.88	.88	.000
			244.88 244.93 Sand seam, possible fault. Actual width is not known.					
			244.88 246.03 1% stringers of quartz-carbonate. Foliation at 60 dca.	TM24589	244.88	246.03	1.15	.085
			245.89 Moderate foliation at 60 dca.					
			246.03 247.84 2% Magnesium Basalt. Texture - pillow brecciated, moderately hard to hard, light greenish-grey, very fine grained. Trace disseminated pyrrhotite overall. .1% total sulphides.					
			246.03 246.77 2% intrafolial pyrrhotite. 5% patchy quartz. 5% stringers of quartz-carbonate. Foliation at 60 dca.	TM24590	246.03	246.77	.74	.005
			Small unit of pillow breccia where the varioles are still distinguishable. This unit is also more chloritic than the pillow flows above and below. 247.15 247.15 moderate to strong foliation at 35 dca					
			246.77 247.85 20% pervasive quartz. 5% stringers of quartz-carbonate. Foliation at 35 dca.	TM24591	246.77	247.85	1.08	.000
			247.84 268.94 The pillows range from 1-1.5m in diameter. There is a blocky section from 248-251m with blebby pyrite within the fractures. There are 2-5% quartz-calcite veins and stringers. One zone between 264 and 265m has 15% veins with trace blebby pyrrhotite along the edges.					
			247.85 248.96 Trace disseminated pyrrhotite. 5% stringers of quartz-carbonate.	TM24592	247.85	248.96	1.11	.010
			248.96 249.23 5% interstitial quartz-carbonate.	TM24593	248.96	249.23	.27	.000
			249.04 Shear at 55 dca.					
			249.23 249.95 1% stringers of quartz-carbonate.	TM24594	249.23	249.95	.72	.000
			249.95 250.93 2% fracture filling pyrite. 1% stringers of quartz-carbonate.	TM24595	249.95	250.93	.98	.000
			250.00 Quartz-carbonate stringer at 70 dca. 02% associated pyrite.					
			250.24 Quartz-carbonate stringer at 75 dca.					
			250.93 252.00 Trace vein associated pyrrhotite. 2% stringers of quartz-carbonate.	TM24596	250.93	252.00	1.07	.000
			251.16 Quartz-carbonate stringer at 60 dca.					
			251.43 Quartz-carbonate stringer at 65 dca.					
			253.23 Weak to moderate foliation at 45 dca.					
			254.57 Weak to moderate foliation at 40 dca.					
			255.00 256.00 1% stringers of quartz-carbonate. 3% interstitial calcite. Foliation at 40 dca.	TM24597	255.00	256.00	1.00	.000
			255.16 Quartz-carbonate stringer at 60 dca.					
			255.28 Quartz-carbonate stringer at 45 dca.					
			256.00 257.00 3% stringers of quartz-carbonate. 5% interstitial calcite. Foliation at 40 dca.	TM24598	256.00	257.00	1.00	.000
			257.00 258.00 5% anastomosing stringers of quartz-carbonate. Foliation at 45 dca.	TM24599	257.00	258.00	1.00	.000
			258.00 259.00 15% pervasive quartz. 10% stringers of quartz-carbonate. Foliation at 45 dca.	TM24600	258.00	259.00	1.00	.000
			258.89 Quartz-carbonate stringer at 55 dca.					
			259.00 260.00 5% veins of quartz-carbonate. Foliation at 45 dca.	TM24601	259.00	260.00	1.00	.000
			259.71 .01 m quartz-carbonate vein at 60 dca.					
			260.31 Quartz-carbonate stringer at 75 dca.					
			261.08 Quartz-carbonate stringer at 65 dca.					
			262.77 Weak to moderate foliation at 60 dca.					
			263.00 264.00 2% stringers of quartz-carbonate. Foliation at 60 dca.	TM24602	263.00	264.00	1.00	.000
			263.54 Quartz-carbonate stringer at 55 dca.					
			264.00 265.00 Trace vein associated pyrrhotite. 10% veins of quartz-carbonate. Foliation at 60 dca.	TM24603	264.00	265.00	1.00	.000
			264.00 265.00 QC Sample tm24604 - DUP : 0.00 g/tonne.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			264.06 Quartz-carbonate stringer at 55 dca.					
			264.17 .04 m quartz-carbonate vein at 60 dca. 01% associated pyrrhotite. Lower core angle at 40 dca.					
			264.61 .02 m quartz-carbonate vein at 60 dca.					
			264.93 .04 m quartz-carbonate vein at 65 dca. Lower core angle at 60 dca.					
			265.00 QC Sample tm24605 - B : 0.00 g/tonne.	TM24606	265.00	266.00	1.00	.000
			265.00 266.00 2% stringers of quartz-carbonate. Foliation at 60 dca.					
			265.57 Quartz-carbonate stringer at 65 dca.					
			267.53 Moderate foliation at 60 dca.					
			268.00 268.94 1% stringers of quartz-carbonate. 2% patchy calcite. Foliation at 60 dca.	TM24607	268.00	268.94	.94	.000
			268.43 Quartz-carbonate stringer at 65 dca.					

Date: 11 Dec, 1996

PLACER DOME CANADA LIMITED
MONETA PORCUPINE OPTION
DRILL HOLE RECORD

Page: 1 of 13

Northing: 9892
Easting: 9600
Surveyed: No

Drill Hole: 546-004
Hole Length: 254.00 metres

Collar Azi.: 360
Collar Dip: -45

Sperry Sun Tests
Depth Azi. Dip

Drilled by: Norex Drilling Limited
Drill type: 25
Core size: NQ
Date Started: July 25, 1996
Date Finished: July 27, 1996

NTS Reference: 42A/06

30.0 360 -45
100.0 359 -44
200.0 358 -44

Depth to Bedrock: 21.44m
Claim: P594783 and Patent 3078W+T
Length per Claim: 148m in claim P594783 and 106m in Patent 3078W+T
Material Left in Hole: Casing pulled, hole cemented.
Post Location: 27m east and 108m south of 4 post of claim P594783
Purpose: Test bedrock topographic high in North Volcanics.
Local Reference: 508m S of Murphy/Tisdale Twp Line & 447m E of Hwy 655
Core Storage: Returned to Moneta Porcupine Mines Inc.

Core Samples: 208
Sludge Samples: 7
Sample Type: Au

Logged by: Kathy Farrell
Date Logging Started: August 8, 1996
Date Logging Finished: August 14, 1996
Geotechnical Log By: Michael De Luca

Signature: 

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
.00	21.44	OVB	Assay values of 0.000 g/t represent less than 0.005 g/t or below the detection limit. OVERBURDEN Overburden. The drillers note 21m of casing, taking into account core loss the bedrock starts at 21.00 with 44cm loss.					
21.44	83.30	2A3	MAGNESIUM BASALT Magnesium Basalt. Texture - massive, and foliated. Moderately hard, light brownish grey, fine grained. .00% total sulphides. Lower contact at 50 dca. Strong pervasive carbonatization. 5% lenses of quartz-carbonate. 21.44 29.87 The hole collared into intensely carbonatized pillowed mafic volcanics. The carbonate occurs as clusters of 1cm by 3mm lenses as well as interstitially. There are 2-3% quartz-carbonate stringers and veins. The pillow selvages and varioles are very hard to distinguish due to the overprinting alteration. 23.45 Moderate foliation at 50 dca. 24.00 25.21 2% stringers of quartz-carbonate. 25% pervasive calcite. Foliation at 50 dca. 25.21 25.43 20% veins of quartz-carbonate. 10% pervasive calcite. Foliation at 50 dca. 25.30 .02 m quartz-carbonate vein at 55 dca. 25.43 26.00 1% stringers of quartz-carbonate. 15% interstitial calcite. Foliation at 55 dca. 26.00 27.00 1% stringers of quartz-carbonate. 15% interstitial calcite. Foliation at 55 dca. 27.00 28.07 5% stringers of quartz-carbonate. 20% patchy calcite. Foliation at 55 dca. 27.06 Quartz-carbonate stringer at 70 dca. 27.62 Quartz-carbonate stringer at 65 dca. 27.70 Moderate to strong foliation at 55 dca. 28.07 29.00 35% pervasive calcite. Foliation at 55 dca. 29.00 29.87 5% stringers of quartz-carbonate. 20% interstitial calcite. Foliation at 55 dca. 29.40 Quartz-carbonate stringer at 60 dca. 29.87 56.70 This section is brownish green as opposed to the above brownish grey rock. It is pervasively sericitized (possibly carbonatized) with 2-3% patchy silicification, 5-10% quartz-carbonate veins, stringers and lenses. The pillows are variolitic and range from	TM24608	24.00	25.21	1.21	.000
				TM24609	25.21	25.43	.22	.075
				TM24610	25.43	26.00	.57	.000
				TM24611	26.00	27.00	1.00	.000
				TM24612	27.00	28.07	1.07	.000
				TM24613	28.07	29.00	.93	.135
				TM24614	29.00	29.87	.87	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
			20cm to 1.5m in diameter. The varioles are densely packed in the centre and become less so near the edges of the pillows. The selvages are very chloritic and 80% of the quartz-calcite lenses/veins are concentrated within them. There is a chloritic shear at 48.46m with a quartz-calcite vein adjacent to the shear.					
29.87	31.00		3% patchy quartz. 5% veins of quartz-carbonate. 15% interstitial calcite. Foliation at 55 dca.	TM24615	29.87	31.00	1.13	.020
30.14			.02 m quartz-carbonate vein at 70 dca.					
30.47			Quartz-carbonate stringer at 70 dca.					
31.00	31.67		1% stringers of quartz-carbonate. 15% interstitial calcite. Foliation at 55 dca.	TM24616	31.00	31.67	.67	.000
31.67	32.00		5% veins of quartz-carbonate. 5% interstitial calcite. Foliation at 55 dca.	TM24617	31.67	32.00	.33	.010
32.00	33.00		3% stringers of quartz-carbonate. Foliation at 55 dca.	TM24618	32.00	33.00	1.00	.020
32.87			Quartz-carbonate stringer at 60 dca.					
32.95			Moderate foliation at 55 dca.					
33.00	34.00		5% patchy quartz-carbonate. Foliation at 55 dca.	TM24619	33.00	34.00	1.00	.015
34.00	35.00		5% stringers of quartz-carbonate. Foliation at 55 dca.	TM24620	34.00	35.00	1.00	.000
35.00	36.17		2% stringers of quartz-carbonate. Foliation at 55 dca.	TM24621	35.00	36.17	1.17	.000
35.85			Moderate foliation at 55 dca.					
36.17	36.56		10% patchy quartz. 2% stringers of quartz-carbonate. Foliation at 55 dca.	TM24622	36.17	36.56	.39	.045
36.36			Quartz-carbonate stringer at 65 dca.					
36.56	37.53		2% stringers of quartz-carbonate. Foliation at 55 dca.	TM24623	36.56	37.53	.97	.005
37.30			Quartz-carbonate stringer at 65 dca.					
37.53	38.63		3% stringers of quartz-carbonate. Foliation at 35 dca.	TM24624	37.53	38.63	1.10	.000
38.63	39.00		25% lenses of quartz-carbonate. Foliation at 35 dca.	TM24625	38.63	39.00	.37	.005
38.63	39.00		QC Sample tm24626 - DUP : 0.06 g/tonne.					
38.68			Moderate foliation at 35 dca.					
39.00			QC Sample tm24627 - B : 0.00 g/tonne.					
39.00	40.00		10% blotchy quartz. 1% stringers of quartz-carbonate. Foliation at 45 dca.	TM24628	39.00	40.00	1.00	.000
40.00	40.33		5% veins of quartz. 5% lenses of quartz-carbonate. Foliation at 45 dca.	TM24629	40.00	40.33	.33	.000
40.21			.02 m quartz-carbonate vein at 60 dca. Lower core angle at 65 dca.					
40.33	41.00		3% stringers of quartz-carbonate. Foliation at 45 dca.	TM24630	40.33	41.00	.67	.000
41.00	42.00		2% blotchy quartz. 20% lenses of quartz-carbonate. Foliation at 45 dca.	TM24631	41.00	42.00	1.00	.000
41.41			Moderate to strong foliation at 45 dca.					
41.57			Quartz-carbonate stringer at 45 dca.					
41.82			Quartz-carbonate stringer at 50 dca.					
41.90			Quartz-carbonate stringer at 45 dca.					
42.00	43.00		5% blotchy quartz. 10% lenses of quartz-carbonate. Foliation at 45 dca.	TM24632	42.00	43.00	1.00	.000
43.00	44.00		2% blotchy quartz. 5% lenses of quartz-carbonate. Foliation at 50 dca.	TM24633	43.00	44.00	1.00	.000
44.00	44.43		10% blotchy quartz. 10% stringers of quartz-carbonate. Foliation at 50 dca.	TM24634	44.00	44.43	.43	.000
44.37			.01 m quartz-carbonate vein at 60 dca.					
44.43	45.50		15% patchy quartz. 1% stringers of quartz-carbonate. Foliation at 50 dca.	TM24635	44.43	45.50	1.07	.000
45.50	46.50		5% patchy quartz. 1% stringers of quartz-carbonate. Foliation at 50 dca.	TM24636	45.50	46.50	1.00	.000
45.72			Weak to moderate foliation at 50 dca.					
46.50	47.14		10% anastomosing stringers of quartz-carbonate. Foliation at 50 dca.	TM24637	46.50	47.14	.64	.000
47.04			Quartz-carbonate stringer at 45 dca.					
47.14	48.14		3% blotchy quartz. 10% veins of quartz-carbonate. Foliation at 60 dca.	TM24638	47.14	48.14	1.00	.000
48.14	48.57		30% veins of quartz-carbonate. 10% vein associated sericite. Foliation at 60 dca.	TM24639	48.14	48.57	.43	.000
48.17			Quartz-carbonate stringer at 50 dca.					
48.46			.01 m shear at 60 dca.					
48.57	49.96		5% patchy quartz. 3% stringers of quartz-carbonate. Foliation at 60 dca.	TM24640	48.57	49.96	1.39	.000
49.71			Weak to moderate foliation at 60 dca.					
49.96	50.54		10% patchy quartz. 5% stringers of quartz-carbonate. Foliation at 60 dca.	TM24641	49.96	50.54	.58	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
	50.54		51.23 5% patchy quartz. 10% veins of quartz-carbonate. Foliation at 60 dca.	TM24642	50.54	51.23	.69	.000
	51.00		.01 m quartz-carbonate vein at 55 dca.					
	51.23		52.52 3% stringers of quartz-carbonate. Foliation at 55 dca.	TM24643	51.23	52.52	1.29	.025
	52.52		53.54 20% patchy quartz-carbonate. Foliation at 55 dca.	TM24644	52.52	53.54	1.02	.000
	53.36		Moderate foliation at 55 dca.					
	53.54		54.54 10% stringers of quartz-carbonate. 5% stringers of chlorite. Foliation at 55 dca.	TM24645	53.54	54.54	1.00	.000
	53.54		54.54 QC Sample tm24646 - DUP : 0.03 g/tonne.					
	54.23		Quartz-carbonate stringer at 60 dca.					
	54.54		QC Sample tm24647 - B : 0.00 g/tonne.	TM24648	54.54	55.03	.49	.010
	54.54		55.03 2% flooded quartz. 5% stringers of quartz-carbonate. Foliation at 55 dca.					
	55.03		55.62 5% stringers of quartz-carbonate. 5% stringers of chlorite. Foliation at 50 dca.	TM24649	55.03	55.62	.59	.000
	55.28		Shear at 40 dca.					
	55.84		Moderate foliation at 50 dca.					
	56.70		83.30 This section contains 5-15% patchy silicification within the pillows and 2-3% quartz-calcite veins and stringers.					
	57.78		58.35 10% stringers of quartz-carbonate. Foliation at 50 dca.	TM24650	57.78	58.35	.57	.000
	58.14		.01 m quartz-carbonate vein at 40 dca.					
	58.35		59.35 5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24651	58.35	59.35	1.00	.000
	58.48		Crosscutting quartz-carbonate stringer at 45 dca.					
	59.28		Quartz-carbonate stringer at 75 dca.					
	59.35		60.53 10% veins of quartz-carbonate. Foliation at 50 dca.	TM24652	59.35	60.53	1.18	.000
	60.08		Quartz-carbonate stringer at 70 dca.					
	60.35		.01 m quartz-carbonate vein at 65 dca. Associated chlorite.					
	60.53		61.52 20% interstitial calcite. 3% envelopes of chlorite. Foliation at 50 dca.	TM24653	60.53	61.52	.99	.000
	61.27		Moderate foliation at 50 dca.					
	61.52		62.50 3% stringers of quartz-carbonate. 30% interstitial calcite. Foliation at 50 dca.	TM24654	61.52	62.50	.98	.000
	62.50		63.45 5% lenses of quartz-carbonate. 30% interstitial calcite. Foliation at 50 dca.	TM24655	62.50	63.45	.95	.000
	63.45		64.00 15% patchy quartz-carbonate. 10% interstitial calcite. Foliation at 35 dca.	TM24656	63.45	64.00	.55	.000
	64.00		65.00 5% blotchy quartz. 5% stringers of quartz-carbonate. Foliation at 35 dca.	TM24657	64.00	65.00	1.00	.010
	64.06		Moderate foliation at 35 dca.					
	65.00		66.00 5% veins of quartz-carbonate. Foliation at 55 dca.	TM24658	65.00	66.00	1.00	.000
	65.23		.03 m quartz-carbonate vein at 35 dca.					
	66.00		67.00 15% patchy quartz. 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM24659	66.00	67.00	1.00	.000
	67.00		68.00 35% patchy quartz. 3% stringers of quartz-carbonate. Foliation at 55 dca.	TM24660	67.00	68.00	1.00	.005
	67.23		Moderate foliation at 55 dca.					
	67.41		Quartz-carbonate stringer at 45 dca.					
	68.00		69.00 20% patchy quartz. 10% stringers of quartz-carbonate. Foliation at 55 dca.	TM24661	68.00	69.00	1.00	.005
	68.24		Quartz-carbonate stringer at 55 dca.					
	68.79		.02 m quartz-carbonate vein at 55 dca.					
	69.00		70.00 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM24662	69.00	70.00	1.00	.000
	69.50		Quartz-carbonate stringer at 60 dca.					
	69.93		Moderate foliation at 55 dca.					
	70.00		71.00 10% stringers of quartz-carbonate. Foliation at 55 dca.	TM24663	70.00	71.00	1.00	.000
	70.59		.02 m quartz-carbonate vein at 55 dca.					
	71.00		71.55 15% stringers of quartz-carbonate. Foliation at 55 dca.	TM24664	71.00	71.55	.55	.000
	71.55		71.78 25% veins of quartz-carbonate. Foliation at 55 dca.	TM24665	71.55	71.78	.23	.000
	71.55		71.78 QC Sample tm24666 - DUP :					
	71.63		.03 m quartz-carbonate vein at 45 dca. Lower core angle at 50 dca.					
	71.78		QC Sample tm24667 - B : 0.04 g/tonne.	TM24668	71.78	72.77	.99	.005
	71.78		72.77 10% patchy quartz. 5% stringers of quartz-carbonate. Foliation at 55 dca.					
	72.08		Quartz-carbonate stringer at 60 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			73.00 Moderate foliation at 40 dca.					
			75.80 Quartz-carbonate stringer at 60 dca.					
			76.06 77.07 2% stringers of quartz-carbonate. 10% lenses of calcite. Foliation at 55 dca.	TM24669	76.06	77.07	1.01	.000
			77.07 78.26 5% stringers of quartz-carbonate. 20% intrafolial serpentine. Foliation at 55 dca.	TM24670	77.07	78.26	1.19	.000
			77.29 Quartz-carbonate stringer at 80 dca.					
			78.04 Quartz-carbonate stringer at 40 dca.					
			78.26 78.83 5% stringers of quartz-carbonate. 5% blotchy calcite. Foliation at 55 dca.	TM24671	78.26	78.83	.57	.005
			78.65 Moderate foliation at 55 dca.					
			78.82 80.02 Dark grey chloritic section with intense carbonatization especially within the chloritic bands. There are also 5% quartz-calcite stringers.					
			78.83 79.85 5% stringers of quartz-carbonate. 35% pervasive calcite. 20% stringers of chlorite. Foliation at 55 dca.	TM24672	78.83	79.85	1.02	.000
			79.71 Quartz-carbonate stringer at 45 dca.					
			79.85 80.66 5% stringers of quartz-carbonate. 5% stringers of chlorite. Foliation at 55 dca.	TM24673	79.85	80.66	.81	.000
			80.52 Quartz-carbonate stringer at 60 dca.					
			80.66 81.31 10% stringers of quartz-carbonate. 15% patchy calcite. Foliation at 45 dca.	TM24674	80.66	81.31	.65	.000
			81.31 82.29 5% stringers of quartz-carbonate. 5% patchy calcite. Foliation at 45 dca.	TM24675	81.31	82.29	.98	.000
			82.29 83.30 2% blotchy quartz. 5% stringers of quartz-carbonate. 3% patchy calcite. Foliation at 45 dca.	TM24676	82.29	83.30	1.01	.000
			82.60 Weak to moderate foliation at 45 dca.					
83.30	96.87	2A3	MAGNESIUM BASALT Magnesium Basalt. Texture - flow brecciated, and foliated. Moderately hard, medium greyish brown green, variable. .00% total sulphides. Lower contact at 50 dca. Weak to moderate interstitial carbonatization. Weak patchy silicification. 5% veins of quartz-carbonate. This unit is a string of breccias with less than 1m of massive rock between them. The zones of intense brecciation contain fragments 2mm to 20cm in length. There is patchy carbonate alteration and 5-10% quartz- calcite stringers and veins which crosscut the fragments and breccia. The matrix is very chloritic and carbonate altered in areas.	TM24677	83.30	84.00	.70	.000
			83.30 84.00 5% stringers of quartz-carbonate. 2% patchy calcite. Foliation at 45 dca.					
			84.00 85.00 5% stringers of quartz-carbonate. Foliation at 45 dca.	TM24678	84.00	85.00	1.00	.000
			84.14 Quartz-carbonate stringer at 40 dca.					
			84.49 Quartz-carbonate stringer at 35 dca.					
			85.00 86.00 15% stringers of quartz-carbonate. 5% patchy calcite. Foliation at 45 dca.	TM24679	85.00	86.00	1.00	.000
			85.61 Quartz-carbonate stringer at 65 dca.					
			86.00 86.79 1% stringers of quartz-carbonate. Foliation at 40 dca.	TM24680	86.00	86.79	.79	.000
			86.79 87.45 5% blotchy quartz. 10% stringers of quartz-carbonate. Foliation at 40 dca.	TM24681	86.79	87.45	.66	.000
			86.96 Strong foliation at 40 dca.					
			87.19 Quartz-carbonate stringer at 40 dca.					
			87.45 88.00 15% patchy quartz. 5% stringers of quartz-carbonate. Foliation at 40 dca.	TM24682	87.45	88.00	.55	.030
			88.00 89.00 10% stringers of quartz-carbonate. 5% interstitial calcite. Foliation at 50 dca.	TM24683	88.00	89.00	1.00	.000
			88.36 Quartz-carbonate stringer at 65 dca.					
			89.00 90.00 5% blotchy quartz. 5% stringers of quartz-carbonate. 25% interstitial calcite. Foliation at 50 dca.	TM24684	89.00	90.00	1.00	.000
			89.96 Moderate foliation at 50 dca.					
			90.00 90.63 5% patchy quartz. 10% stringers of quartz-carbonate. Foliation at 50 dca.	TM24685	90.00	90.63	.63	.035
			90.63 91.20 10% stringers of quartz-carbonate. 30% interstitial calcite. Foliation at 50 dca.	TM24686	90.63	91.20	.57	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
			90.63 91.20 QC Sample tm24687 - DUP : 0.01 g/tonne.					
			91.19 Quartz-carbonate stringer at 50 dca.					
			91.20 QC Sample tm24688 - B : 0.00 g/tonne.					
			91.20 92.00 5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24689	91.20	92.00	.80	.000
			92.00 93.00 5% patchy quartz. 5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24690	92.00	93.00	1.00	.000
			93.00 94.00 5% patchy quartz. 5% veins of quartz-carbonate. Foliation at 50 dca.	TM24691	93.00	94.00	1.00	.000
			93.20 Quartz-carbonate stringer at 60 dca.					
			93.97 .02 m quartz-carbonate vein at 65 dca.					
			94.00 95.00 5% patchy quartz. 10% stringers of quartz-carbonate. Foliation at 50 dca.	TM24692	94.00	95.00	1.00	.000
			94.56 Quartz-carbonate stringer at 50 dca.					
			94.62 Quartz-carbonate stringer at 65 dca.					
			95.00 96.00 5% blotchy quartz. 10% stringers of quartz-carbonate. Foliation at 50 dca.	TM24693	95.00	96.00	1.00	.000
			95.87 .01 m quartz-carbonate vein at 45 dca.					
			95.92 Quartz-carbonate stringer at 50 dca.					
			96.00 96.87 10% stringers of quartz-carbonate. 5% interstitial calcite. Foliation at 50 dca.	TM24694	96.00	96.87	.87	.000
			96.38 .01 m quartz-carbonate vein at 45 dca.					
96.87	103.94	2A3	MAGNESIUM BASALT Altered Magnesium Basalt. Texture - pillowed, and foliated. Moderately hard to hard, light green, very fine grained. Trace disseminated pyrite overall. .01% total sulphides. Lower contact at 45 dca. Very strong interstitial carbonatization. 5% stringers of quartz-carbonate. 15% interstitial carbonate. This unit is a massive pillowed flow between two breccia zones above and below. 96.94 96.94 moderate to strong foliation at 45 dca.	TM24695	96.87	98.00	1.13	.000
			96.87 98.00 5% stringers of quartz-carbonate. 15% interstitial calcite. Foliation at 35 dca.					
			97.23 Moderate foliation at 35 dca.					
			97.49 Quartz-carbonate stringer at 55 dca.					
			97.55 Quartz-carbonate stringer at 55 dca.					
			98.00 99.05 5% stringers of quartz-carbonate. 5% interstitial calcite. Foliation at 50 dca.	TM24696	98.00	99.05	1.05	.000
			98.20 Quartz-carbonate stringer at 30 dca.					
			99.05 100.11 This section is dark grey with a sharp upper contact at 50 dca and a lower contact at 60 dca. There are 15% quartz-calcite stringers with 30% pervasive calcite throughout the section. The section is also more chloritic than the above pillows. Trace pyrite occurs along the foliation planes.					
			99.05 100.11 10% stringers of quartz-carbonate. 20% interstitial calcite. 15% intrafolial chlorite. Foliation at 50 dca.	TM24697	99.05	100.11	1.06	.000
			99.72 Quartz-carbonate stringer at 60 dca.					
			99.81 Moderate to strong foliation at 50 dca.					
			100.11 101.00 5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24698	100.11	101.00	.89	.000
			101.74 Quartz-carbonate stringer at 65 dca.					
			102.60 Foliation at 55 dca.					
			103.64 Quartz-carbonate stringer at 45 dca.					
103.94	109.72	2A3	MAGNESIUM BASALT Altered Magnesium Basalt. Texture - flow brecciated, and foliated. Moderately hard, medium greenish-grey, variable. .00% total sulphides. Lower contact at 45 dca. Strong interstitial carbonatization. Weak to moderate patchy silicification. 5% stringers of quartz-carbonate. 15% interstitial carbonate. This unit is similar to the above breccia. The fragments range in size from 5mm to 25cm. The	TM24699	103.94	104.40	.46	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
			fragments and chloritic selvages are carbonatized and silicified. There are 5-10% quartz-calcite stringers within this unit. 104.07 104.07 quartz-carbonate stringer at 65 dca.					
			103.94 104.40 2% blotchy quartz. 5% stringers of quartz-carbonate. Foliation at 55 dca.					
			104.40 106.92 This section is dark grey to black and is chloritized and intensely carbonatized (20%). The edges of the section are brecciated with the centre 20cm appearing more massive and black. There are also 5-10% quartz-calcite stringers.					
			104.40 105.46 10% stringers of quartz-carbonate. 30% pervasive calcite. Foliation at 55 dca.	TM24700	104.40	105.46	1.06	.000
			105.46 105.98 1% intrafolial pyrite. 5% stringers of quartz-carbonate. 35% pervasive calcite. Foliation at 55 dca.	TM24701	105.46	105.98	.52	.010
			105.61 Weak to moderate foliation at 55 dca.					
			105.98 106.92 10% stringers of quartz-carbonate. 20% pervasive calcite. Foliation at 55 dca.	TM24702	105.98	106.92	.94	.020
			106.92 107.96 15% pervasive quartz. 10% stringers of quartz-carbonate. Foliation at 55 dca.	TM24703	106.92	107.96	1.04	.000
			107.85 .01 m quartz-carbonate vein at 5 dca.					
			107.96 108.78 10% stringers of quartz-carbonate. 15% pervasive calcite. Foliation at 55 dca.	TM24704	107.96	108.78	.82	.000
			108.00 .02 m quartz-carbonate vein at 55 dca.					
			108.15 Moderate foliation at 55 dca.					
			108.42 .02 m quartz-carbonate vein at 55 dca.					
			108.78 109.00 45% veins of quartz-carbonate. Foliation at 55 dca.	TM24705	108.78	109.00	.22	.000
			108.78 109.00 QC Sample tm24706 - DUP :.					
			108.79 .12 m quartz-carbonate vein at 75 dca. Lower core angle at 35 dca.					
			109.00 QC Sample tm24707 - B : 0.00 g/tonne.	TM24708	109.00	109.72	.72	.000
			109.00 109.72 3% blotchy quartz. 5% stringers of quartz-carbonate. Foliation at 55 dca.					
109.72	120.66	2A3	MAGNESIUM BASALT Altered Magnesium Basalt. Texture - pillowed, and variolitic. Moderately hard to hard, light greyish-green, aphanitic. .00% total sulphides. Lower contact at 55 dca. Very strong pervasive carbonatization. Weak to moderate patchy silicification. 5% veins of quartz-carbonate. This unit appears pillowed and variolitic with chloritic selvages. The varioles are densely packed in the centre of the pillows and spread out towards the edges. There is 2-5% patchy silicification, 2-5% quartz-calcite veins and stringers. The unit is calcite altered in sections, not continuously.	TM24709	109.72	110.50	.78	.000
			110.75 110.75 quartz-carbonate stringer at 65 dca.					
			109.72 110.50 5% stringers of quartz-carbonate. Foliation at 50 dca.					
			110.50 111.14 5% stringers of quartz-carbonate. 15% interstitial calcite. Foliation at 50 dca.	TM24710	110.50	111.14	.64	.000
			111.14 112.00 10% patchy quartz. 5% stringers of quartz-carbonate. 5% interstitial calcite. Foliation at 50 dca.	TM24711	111.14	112.00	.86	.000
			111.59 .01 m quartz-carbonate vein at 60 dca.					
			112.00 113.00 1% veins of quartz. 5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24712	112.00	113.00	1.00	.015
			112.51 .01 m quartz-carbonate vein at 55 dca.					
			113.00 113.56 5% pervasive quartz. 3% stringers of quartz-carbonate. Foliation at 50 dca.	TM24713	113.00	113.56	.56	.000
			113.56 114.15 5% stringers of quartz-carbonate. 20% interstitial calcite. Foliation at 50 dca.	TM24714	113.56	114.15	.59	.000
			113.64 Moderate foliation at 50 dca.					
			114.15 115.00 5% stringers of quartz-carbonate. 20% interstitial calcite. Foliation at 55 dca.	TM24715	114.15	115.00	.85	.000
			115.00 115.80 2% stringers of quartz-carbonate. 20% interstitial calcite. Foliation at 55 dca.	TM24716	115.00	115.80	.80	.000
			115.80 116.24 5% blotchy quartz. 2% stringers of quartz-carbonate.	TM24717	115.80	116.24	.44	.000
			116.20 Quartz-carbonate stringer at 60 dca.					
			116.24 117.24 1% blotchy quartz. 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM24718	116.24	117.24	1.00	.000
			116.57 Weak to moderate foliation at 55 dca.					
			116.81 Quartz-carbonate stringer at 45 dca.					
			117.24 118.04 1% blotchy quartz. 1% stringers of quartz-carbonate. 5% interstitial calcite.	TM24719	117.24	118.04	.80	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			Foliation at 55 dca.					
			118.04 118.58 5% patchy quartz. 5% anastomosing stringers of calcite. Foliation at 55 dca.	TM24720	118.04	118.58	.54	.015
			118.58 118.86 50% veins of quartz-carbonate.	TM24721	118.58	118.86	.28	.015
			118.66 120.66 This section has 15% quartz-calcite veining with no associated sulphides. Two veins are flanking a fine grained massive section which is not carbonatized although there is 5% chlorite stringers.					
			118.66 .11 m quartz-carbonate vein at 80 dca. Lower core angle at 30 dca.					
			118.86 120.28 2% stringers of quartz-carbonate. 5% stringers of chlorite. Foliation at 55 dca. Quartz veins at 80 dca.	TM24722	118.86	120.28	1.42	.000
			119.35 Quartz-carbonate stringer at 45 dca.					
			119.48 Shear at 50 dca.					
			120.28 120.66 80% veins of quartz-carbonate. Quartz veins at 70 dca.	TM24723	120.28	120.66	.38	.015
			120.28 120.66 QC Sample tm24724 - DUP : 0.00 g/tonne.					
			120.35 .23 m quartz-carbonate vein at 70 dca. Lower core angle at 45 dca.					
120.66	125.61	2A3	MAGNESIUM BASALT Carbonatized Magnesium Basalt. Texture - flow brecciated, and foliated. Moderately hard to hard, medium grey, very fine grained. .00% total sulphides. Lower contact at 60 dca. Very strong pervasive carbonatization. Moderate patchy silicification. 15% stringers of quartz-carbonate. The fragments range from 5mm to 15cm wide within a chloritic matrix. There is one section of silicified fragments and matrix from 123.70-125.61m. Generally the fragments are pervasively carbonatized (10%) with 15% quartz-calcite stringers as part of the matrix.					
			120.66 QC Sample tm24725 - B : 0.00 g/tonne.	TM24726	120.66	121.68	1.02	.000
			120.66 121.68 5% stringers of quartz-carbonate. 10% interstitial calcite. Foliation at 40 dca.					
			120.95 Moderate foliation at 40 dca.					
			121.68 122.64 10% stringers of quartz-carbonate. 5% interstitial calcite. Foliation at 40 dca.	TM24727	121.68	122.64	.96	.000
			121.84 Quartz-carbonate stringer at 55 dca.					
			122.59 Quartz-carbonate stringer at 55 dca.					
			122.64 123.61 10% stringers of quartz-carbonate. 5% interstitial calcite. Foliation at 50 dca.	TM24728	122.64	123.61	.97	.000
			122.84 Quartz-carbonate stringer at 40 dca.					
			123.07 Carbonate stringer at 45 dca.					
			123.61 124.00 15% patchy quartz. 5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24729	123.61	124.00	.39	.000
			124.00 125.00 5% patchy quartz. 10% stringers of quartz-carbonate. 2% interstitial calcite. Foliation at 50 dca.	TM24730	124.00	125.00	1.00	.005
			124.74 Weak to moderate foliation at 50 dca.					
			125.00 125.61 10% patchy quartz. 10% stringers of quartz-carbonate. 2% interstitial calcite. Foliation at 50 dca.	TM24731	125.00	125.61	.61	.000
125.61	197.69	2A3	MAGNESIUM BASALT Magnesium Basalt. Texture - pillowed, and foliated. Moderately hard to hard, light greyish-green, aphanitic. Trace blebs of pyrrhotite overall. Trace disseminated chalcopryrite overall. .01% total sulphides. Lower contact at 60 dca. Weak interstitial carbonatization. 3% stringers of quartz-carbonate. This unit contains large pillows up to 1.5m in diameter with chloritic selvages. 125.61 135.87 This section contains 5-10% quartz-calcite stringers and 3% patchy silicification. The alteration creates a mottled texture making the pillows appear brecciated in spots. There are two small breccia zones 10cm wide at 135.39m and 135.73m.	TM24732	125.61	125.92	.31	.030

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
125.61	125.92		10% stringers of quartz-carbonate.					
125.92	126.45		5% veins of quartz-carbonate. 20% pervasive calcite. Foliation at 50 dca. Quartz veins at 50 dca.	TM24733	125.92	126.45	.53	.000
126.03			.01 m quartz-carbonate vein at 50 dca.					
126.45	127.20		20% stringers of quartz-carbonate.	TM24734	126.45	127.20	.75	.000
126.76			.01 m quartz-carbonate vein at 60 dca.					
127.20	128.00		5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24735	127.20	128.00	.80	.000
128.00	129.08		5% veins of quartz-carbonate. Foliation at 50 dca. Quartz veins at 50 dca.	TM24736	128.00	129.08	1.08	.000
128.31			.04 m quartz-carbonate vein at 50 dca. Lower core angle at 55 dca.					
128.57			Quartz-carbonate stringer at 55 dca.					
129.08	130.02		5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24737	129.08	130.02	.94	.000
129.27			Weak to moderate foliation at 50 dca.					
129.53			Quartz-carbonate stringer at 10 dca.					
130.02	130.73		1% blebs of pyrrhotite. Trace blebs of chalcopyrite. 10% stringers of quartz. 5% stringers of quartz-carbonate.	TM24738	130.02	130.73	.71	.040
130.02	130.73		QC Sample tm24739 - DUP : 0.04 g/tonne.					
130.20	130.63		This section has up to 1% blebby and vein associated pyrrhotite and trace chalcopyrite. There is 5% quartz-calcite stringers overprinted by 5-10% milky quartz stringers.					
130.73			QC Sample tm24740 - B : 0.00 g/tonne.					
130.73	131.42		1% blotchy quartz. 5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24741	130.73	131.42	.69	.000
131.00			Quartz-carbonate stringer at 50 dca.					
131.28			.01 m quartz-carbonate vein at 45 dca.					
131.42	131.80		Trace blebs of pyrite. .5% vein associated pyrrhotite. 2% stringers of quartz-carbonate. Foliation at 40 dca.	TM24742	131.42	131.80	.38	.000
131.61			Quartz-carbonate stringer at 55 dca. 3% associated pyrrhotite.					
131.80	132.36		5% stringers of quartz-carbonate. Foliation at 40 dca.	TM24743	131.80	132.36	.56	.020
131.90			Quartz-carbonate stringer at 55 dca.					
132.13			Quartz-carbonate stringer at 50 dca.					
132.36	133.38		3% stringers of quartz-carbonate.	TM24744	132.36	133.38	1.02	.000
132.45			Quartz-carbonate stringer at 50 dca.					
133.38	133.88		10% stringers of quartz-carbonate. Foliation at 40 dca.	TM24745	133.38	133.88	.50	.000
133.55			Weak to moderate foliation at 40 dca.					
133.77			.01 m quartz-carbonate vein at 50 dca.					
133.88	134.87		1% blotchy quartz. 3% stringers of quartz-carbonate. Foliation at 40 dca.	TM24746	133.88	134.87	.99	.000
134.60			Strong foliation at 25 dca.					
134.87	135.87		10% stringers of quartz-carbonate. Foliation at 55 dca.	TM24747	134.87	135.87	1.00	.000
135.05			Quartz-carbonate stringer at 65 dca.					
135.32			Quartz-carbonate stringer at 60 dca.					
135.87	174.28		This section has 2-5% quartz-calcite stringers and veins and 3% chlorite filled fractures within the pillows. The selvages are chloritic as well they are silicified. The alteration appears as halos around chloritic centres and small (3-4cm) patches. The quartz-calcite veins and stringers are surrounded by the clusters of the halos and patches of silicification.					
136.45			Quartz-carbonate stringer at 50 dca.					
136.81			Quartz-carbonate stringer at 50 dca.					
137.30			Weak foliation at 55 dca.					
138.30			Quartz-carbonate stringer at 55 dca.					
138.48	138.80		10% veins of quartz-carbonate. 10% interstitial calcite. Foliation at 55 dca.	TM24748	138.48	138.80	.32	.000
138.70			.01 m quartz-carbonate vein at 65 dca.					
138.80	139.50		5% veins of quartz-carbonate. Foliation at 55 dca.	TM24749	138.80	139.50	.70	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
	139.34		.01 m quartz-carbonate vein at 45 dca. Lower core angle at 55 dca.					
	139.50		1% stringers of quartz-carbonate. Foliation at 55 dca.	TM24750	139.50	140.43	.93	.000
	140.43		1% vein associated pyrrhotite. 3% veins of quartz-carbonate. Foliation at 60 dca.	TM24751	140.43	141.48	1.05	.000
	140.78		.02 m quartz-carbonate vein at 60 dca. Lower core angle at 55 dca.					
	141.48		5% stringers of quartz-carbonate. Foliation at 60 dca.	TM24752	141.48	142.48	1.00	.000
	143.69		Very weak foliation at 60 dca.					
	144.90		Quartz-carbonate stringer at 50 dca.					
	145.83		5% stringers of quartz-carbonate. 5% interstitial calcite. Foliation at 50 dca.	TM24753	145.83	146.82	.99	.000
	146.06		Quartz-carbonate stringer at 45 dca.					
	146.18		Quartz-carbonate stringer at 65 dca.					
	146.82		15% veins of quartz-carbonate. 2% interstitial calcite. Foliation at 50 dca.	TM24754	146.82	147.59	.77	.000
	146.99		.04 m quartz-carbonate vein at 65 dca. Lower core angle at 70 dca.					
	147.43		.03 m quartz-carbonate vein at 40 dca.					
	147.56		Very weak foliation at 50 dca.					
	149.27		20% stringers of quartz-carbonate. Foliation at 50 dca.	TM24755	149.27	149.83	.56	.000
	149.45		.01 m quartz-carbonate vein at 40 dca.					
	151.00		10% veins of quartz-carbonate. Foliation at 50 dca.	TM24756	151.00	152.00	1.00	.000
	151.62		.03 m quartz-carbonate vein at 65 dca. Lower core angle at 65 dca.					
	151.80		.01 m quartz-carbonate vein at 60 dca.					
	151.90		Weak to moderate foliation at 50 dca.					
	154.00		2% patchy quartz. 10% veins of quartz-carbonate. Foliation at 55 dca.	TM24757	154.00	155.00	1.00	.000
	154.16		.04 m quartz-carbonate vein at 45 dca.					
	155.00		1% blotchy quartz. 3% stringers of quartz-carbonate. Foliation at 55 dca.	TM24758	155.00	155.90	.90	.000
	155.86		Foliation at 4 dca.					
	155.90		2% blotchy quartz. 10% veins of quartz-carbonate. Foliation at 55 dca.	TM24759	155.90	156.90	1.00	.000
	156.04		.06 m quartz-carbonate vein at 65 dca.					
	156.79		.07 m quartz-carbonate vein at 45 dca. Lower core angle at 40 dca.					
	156.90		Trace intrafolial pyrrhotite. 2% stringers of quartz-carbonate. Foliation at 60 dca.	TM24760	156.90	157.95	1.05	.000
	157.36		Quartz-carbonate stringer at 50 dca.					
	157.95		2% patchy quartz. 5% stringers of quartz-carbonate. Foliation at 60 dca.	TM24761	157.95	158.77	.82	.000
	158.53		Quartz stringer at 60 dca.					
	158.77		5% patchy quartz. 2% stringers of quartz-carbonate. Foliation at 60 dca.	TM24762	158.77	159.49	.72	.000
	159.12		Weak to moderate foliation at 60 dca.					
	159.49		5% patchy quartz. 5% stringers of quartz-carbonate. Foliation at 60 dca.	TM24763	159.49	160.47	.98	.050
	159.65		.05 m quartz-carbonate vein at 70 dca. Lower core angle at 25 dca.					
	160.45		Quartz-carbonate stringer at 55 dca.					
	160.47		10% patchy quartz. 3% stringers of quartz-carbonate. Foliation at 60 dca.	TM24764	160.47	161.50	1.03	.000
	161.50		5% patchy quartz. 2% stringers of quartz-carbonate. Foliation at 60 dca.	TM24765	161.50	162.50	1.00	.000
	162.11		Quartz-carbonate stringer at 50 dca.					
	164.36		Quartz-carbonate stringer at 65 dca.					
	164.48		Moderate foliation at 45 dca.					
	164.48		.01 m quartz-carbonate vein at 60 dca.					
	166.17		Quartz-carbonate stringer at 65 dca.					
	167.41		Trace intrafolial pyrite. 10% stringers of quartz-carbonate.	TM24766	167.41	168.28	.87	.000
	167.41		QC Sample tm24767 - DUP : 0.00 g/tonne.					
	167.43		Quartz-carbonate stringer at 50 dca.					
	168.04		.01 m quartz-carbonate vein at 40 dca.					
	168.28		QC Sample tm24768 - B : 0.00 g/tonne.					
	169.15		.01 m quartz vein at 55 dca.					
	170.16		Quartz-carbonate stringer at 55 dca.					
	170.39		5% stringers of quartz-carbonate. 10% interstitial calcite. Foliation at 45 dca.	TM24769	170.39	171.00	.61	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
171.00	172.00		5% coatings of quartz. 5% stringers of quartz-carbonate. Foliation at 45 dca.	TM24770	171.00	172.00	1.00	.000
171.70			Quartz-carbonate stringer at 65 dca.					
172.00	173.00		5% stringers of quartz-carbonate. Foliation at 45 dca.	TM24771	172.00	173.00	1.00	.000
172.32			Quartz-carbonate stringer at 50 dca.					
172.68			.01 m quartz-carbonate vein at 70 dca.					
173.00	174.00		2% stringers of quartz-carbonate. Foliation at 45 dca.	TM24772	173.00	174.00	1.00	.000
173.43			Weak to moderate foliation at 45 dca.					
173.63			.01 m quartz-carbonate vein at 55 dca.					
173.86			Moderate foliation at 35 dca.					
174.00	175.00		5% stringers of quartz-carbonate. Foliation at 45 dca.	TM24773	174.00	175.00	1.00	.000
174.07			Quartz-carbonate stringer at 60 dca.					
174.28	197.69		This section is similar to the above but the pillows appear to be variolitic.					
174.53			.01 m quartz-carbonate vein at 55 dca.					
175.00	176.00		5% stringers of quartz-carbonate. 10% interstitial calcite. Foliation at 55 dca.	TM24774	175.00	176.00	1.00	.005
175.40			Moderate foliation at 55 dca.					
176.00	177.00		10% stringers of quartz-carbonate. Foliation at 55 dca.	TM24775	176.00	177.00	1.00	.015
176.10			.02 m quartz-carbonate vein at 55 dca.					
176.65			Quartz-carbonate stringer at 55 dca.					
177.31			.02 m quartz-carbonate vein at 55 dca.					
178.21			Quartz-carbonate stringer at 50 dca.					
179.13			Quartz-carbonate stringer at 60 dca.					
179.38	180.00		10% stringers of quartz-carbonate. 20% interstitial calcite. Foliation at 60 dca.	TM24776	179.38	180.00	.62	.000
179.41			Weak foliation at 60 dca.					
179.57			.01 m quartz-carbonate vein at 70 dca.					
179.83			.01 m quartz vein at 90 dca.					
181.19			Quartz-carbonate stringer at 50 dca.					
182.00	183.00		15% patchy quartz. 2% stringers of quartz-carbonate. Foliation at 50 dca.	TM24777	182.00	183.00	1.00	.000
183.58			Weak to moderate foliation at 50 dca.					
186.21	186.82		10% veins of quartz. 5% stringers of quartz-carbonate. 5% interstitial calcite. Foliation at 40 dca.	TM24778	186.21	186.82	.61	.000
186.25			Quartz-carbonate stringer at 65 dca.					
186.34			.05 m quartz vein at 85 dca. Lower core angle at 65 dca.					
186.63			Moderate foliation at 40 dca.					
187.33			Quartz-carbonate stringer at 60 dca.					
189.35			Weak to moderate foliation at 55 dca.					
190.06			Quartz-carbonate stringer at 45 dca.					
190.42			.01 m quartz vein at 55 dca.					
190.80			Quartz-carbonate stringer at 25 dca.					
191.63	192.29		2% stringers of quartz. Foliation at 45 dca.	TM24779	191.63	192.29	.66	.000
191.80			Quartz stringer at 40 dca.					
192.20			Weak to moderate foliation at 45 dca.					
192.29	192.54		Trace blebs of chalcopyrite. 60% veins of quartz-carbonate. Quartz veins at 65 dca.	TM24780	192.29	192.54	.25	.000
192.29	192.54		QC Sample tm24781 - DUP : 0.00 g/tonne.					
192.38			.09 m quartz-carbonate vein at 65 dca. .0% associated chalcopyrite. Lower core angle at 40 dca.					
192.54			QC Sample tm24782 - B : 0.00 g/tonne.					
192.54	193.00		5% stringers of quartz-carbonate. Foliation at 45 dca.	TM24783	192.54	193.00	.46	.000
193.00	194.00		5% stringers of quartz-carbonate. Foliation at 45 dca.	TM24784	193.00	194.00	1.00	.000
193.30			Quartz-carbonate stringer at 15 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			194.00 195.00 Trace stringers of quartz. Foliation at 45 dca.	TM24785	194.00	195.00	1.00	.000
			195.00 196.00 3% veins of quartz-carbonate. Foliation at 65 dca.	TM24786	195.00	196.00	1.00	.005
			195.21 .01 m quartz vein at 50 dca.					
			195.40 Quartz stringer at 50 dca.					
			195.91 .01 m quartz-carbonate vein at 60 dca. Lower core angle at 75 dca.					
197.69	238.71	2A3	MAGNESIUM BASALT Magnesium Basalt. Texture - massive, and foliated. Moderately hard to hard, medium brown grey green, fine to medium grained. Trace intrafolial pyrite overall. .01% total sulphides. Lower contact at 65 dca. .5% stringers of quartz-carbonate. This unit is very uniform and massive. The contact with the pillow flow above is not sharp to the flow gradually becomes massive. There is a minor shear at 199.70m and one at 231.03m.	TM24787	198.50	199.50	1.00	.000
			198.50 199.50 Trace intrafolial pyrite. Foliation at 65 dca.					
			199.24 Weak to moderate foliation at 65 dca.					
			199.70 Shear at 55 dca.					
			201.46 Quartz-carbonate stringer at 65 dca.					
			203.18 203.75 .5% stringers of quartz. Foliation at 50 dca.	TM24788	203.18	203.75	.57	.025
			203.47 Weak to moderate foliation at 50 dca.					
			203.58 Quartz stringer at 45 dca.					
			206.34 Quartz stringer at 55 dca.					
			206.55 Weak to moderate foliation at 50 dca.					
			206.71 207.26 5% veins of quartz. Foliation at 50 dca.	TM24789	206.71	207.26	.55	.000
			206.96 .01 m quartz vein at 65 dca.					
			207.64 .01 m quartz-carbonate vein at 50 dca.					
			208.95 Chlorite stringer at 20 dca.					
			210.50 211.50 1% stringers of quartz.	TM24790	210.50	211.50	1.00	.000
			210.93 Quartz stringer at 40 dca.					
			213.07 Weak to moderate foliation at 50 dca.					
			215.00 215.54 .5% stringers of quartz. Foliation at 60 dca.	TM24791	215.00	215.54	.54	.000
			215.56 Weak to moderate foliation at 60 dca.					
			219.00 219.57 2% stringers of quartz-carbonate. Foliation at 55 dca.	TM24792	219.00	219.57	.57	.000
			219.35 Moderate foliation at 55 dca.					
			222.32 .01 m quartz-carbonate vein at 55 dca.					
			222.55 Foliation at 50 dca.					
			223.57 Quartz-carbonate stringer at 45 dca.					
			223.97 224.34 2% vein associated pyrrhotite. .5% vein associated chalcopyrite. 5% veins of quartz-carbonate. Foliation at 50 dca.	TM24793	223.97	224.34	.37	.000
			224.08 .01 m quartz-carbonate vein at 50 dca. .1% associated pyrrhotite. .1% associated chalcopyrite.					
			226.23 Quartz stringer at 60 dca.					
			228.00 Weak to moderate foliation at 40 dca.					
			228.00 228.53 5% stringers of quartz-carbonate. Foliation at 40 dca.	TM24794	228.00	228.53	.53	.000
			231.03 Shear at 50 dca.					
			231.41 233.91 6% Magnesium Basalt. Texture - flow brecciated, and foliated. Hard, medium brown grey green, aphanitic. Trace vein associated pyrrhotite overall. .01% total sulphides. Lower contact at 55 dca.					
			231.41 232.03 10% patchy quartz. 5% stringers of quartz-carbonate. This section has zones of silicification and brecciation within the massive flow. The brecciated zones are chloritic with quartz-calcite stringers and lenses and interstitial calcite. The silicified zones have 3% chlorite filled fractures.	TM24795	231.41	232.03	.62	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			231.41 Contact at 55 dca.					
			232.03 233.00 Trace vein associated pyrrhotite. 25% pervasive quartz. 10% stringers of quartz-carbonate.	TM24796	232.03	233.00	.97	.000
			232.69 Quartz-carbonate stringer at 55 dca.					
			232.77 .01 m quartz-carbonate vein at 65 dca.					
			233.00 233.91 30% pervasive quartz. 5% stringers of quartz-carbonate.	TM24797	233.00	233.91	.91	.000
			233.62 Quartz-carbonate stringer at 50 dca.					
			233.91 234.66 .5% stringers of quartz-carbonate.	TM24798	233.91	234.66	.75	.000
			234.66 235.00 15% veins of quartz-carbonate.	TM24799	234.66	235.00	.34	.000
			234.86 .03 m quartz-carbonate vein at 30 dca. Lower core angle at 35 dca.					
			235.59 Quartz-carbonate stringer at 45 dca.					
			236.55 Weak to moderate foliation at 50 dca.					
238.71	254.00	2A3	MAGNESIUM BASALT Magnesium Basalt. Texture - pillowed, moderately hard to hard, light brownish-green, aphanitic trace disseminated pyrrhotite overall. .01% total sulphides. Weak to moderate interstitial carbonatization. Moderate to strong pervasive silicification. 5% veins of quartz-carbonate. The pillows in this unit are 50cm to almost 2m in diameter with chloritic selvages and chlorite filled fractures in the pillow. This unit is 5-10% quartz-calcite veining and lenses. There are greyish zones of carbonatization (2-3%) and 10% pervasive silicification. 240.50 240.50 .01 m quartz-carbonate vein at 50 dca.	TM24800	238.86	239.86	1.00	.000
			238.86 239.86 Trace disseminated pyrrhotite. 5% lenses of quartz-carbonate. 10% interstitial calcite. Foliation at 40 dca.					
			239.86 240.46 5% stringers of quartz-carbonate. Foliation at 40 dca.	TM24801	239.86	240.46	.60	.000
			240.46 241.50 10% lenses of quartz-carbonate. Foliation at 40 dca.	TM24802	240.46	241.50	1.04	.000
			240.67 .01 m quartz-carbonate vein at 60 dca.					
			241.50 242.50 5% patchy quartz. 5% veins of quartz-carbonate. Foliation at 40 dca.	TM24803	241.50	242.50	1.00	.000
			242.11 .01 m quartz-carbonate vein at 35 dca.					
			242.39 Moderate foliation at 40 dca.					
			242.45 Quartz-carbonate stringer at 35 dca.					
			242.50 243.50 Trace intrafolial pyrite. Foliation at 50 dca.	TM24804	242.50	243.50	1.00	.000
			242.51 Quartz-carbonate stringer at 50 dca.					
			243.25 Moderate foliation at 45 dca.					
			243.50 244.50 10% patchy quartz. 5% stringers of quartz-carbonate. Foliation at 40 dca.	TM24805	243.50	244.50	1.00	.000
			243.50 244.50 QC Sample tm24806 - DUP : 0.00 g/tonne.					
			243.69 .01 m quartz-carbonate vein at 70 dca.					
			243.75 Moderate to strong foliation at 50 dca.					
			244.13 Quartz-carbonate stringer at 35 dca.					
			244.35 Quartz-carbonate stringer at 50 dca.					
			244.50 QC Sample tm24807 - B : 0.00 g/tonne.	TM24808	244.50	245.64	1.14	.000
			244.50 245.64 10% patchy quartz. 5% stringers of quartz-carbonate. Foliation at 40 dca.					
			245.09 Moderate foliation at 40 dca.					
			245.63 .01 m quartz-carbonate vein at 50 dca.					
			245.64 246.16 3% veins of quartz-carbonate. Foliation at 40 dca.	TM24809	245.64	246.16	.52	.000
			246.07 .01 m quartz-carbonate vein at 60 dca.					
			246.77 Quartz-carbonate stringer at 65 dca.					
			246.92 Quartz-carbonate stringer at 55 dca.					
			248.60 Quartz-carbonate stringer at 50 dca.					
			249.18 250.20 20% pervasive quartz. 2% stringers of quartz-carbonate.	TM24810	249.18	250.20	1.02	.000
			250.20 250.96 25% flooded quartz. 10% veins of quartz-carbonate.	TM24811	250.20	250.96	.76	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
	250.25	251.53	This section is bronzy brown with 15% quartz-calcite veining and 5% stringers. There is trace pyrrhotite associated with the veins and trace disseminated within the mafic. This section is also intensely silicified (40%).					
	250.56		.01 m quartz-carbonate vein at 60 dca.					
	250.61		Quartz stringer at 40 dca.					
	250.78		.01 m quartz-carbonate vein at 70 dca.					
	250.87		Quartz-carbonate stringer at 45 dca.					
	250.96	251.53	15% flooded quartz. 15% veins of quartz-carbonate.	TM24812	250.96	251.53	.57	.000
	251.24		Quartz-carbonate stringer at 45 dca.					
	251.33		.05 m quartz-carbonate vein at 55 dca. .0% associated pyrrhotite.					
	251.53	252.52	5% stringers of quartz-carbonate. Foliation at 60 dca.	TM24813	251.53	252.52	.99	.000
	252.52	253.51	1% stringers of quartz-carbonate. 10% interstitial calcite. Foliation at 60 dca.	TM24814	252.52	253.51	.99	.000
	252.54		Quartz-carbonate stringer at 45 dca.					
	253.37		Weak foliation at 60 dca.					
	253.51	254.00	5% patchy quartz. 3% stringers of quartz-carbonate. Foliation at 60 dca.	TM24815	253.51	254.00	.49	.000
	253.80		Quartz-carbonate stringer at 50 dca.					
	253.85		Quartz-carbonate stringer at 60 dca.					

Date: 12 Dec, 1996

PLACER DOME CANADA LIMITED
MONETA PORCUPINE OPTION
DRILL HOLE RECORD

Page: 1 of 18

Northing: 9135
Easting: 9390
Surveyed: No

Drill Hole: 546-005
Hole Length: 213.22 metres

Collar Azi.: 360
Collar Dip: -45

Sperry Sun Tests
Depth Azi. Dip

Drilled by: Norex Drilling Limited
Drill type: 25
Core size: NQ
Date Started: July 27, 1996
Date Finished: July 31, 1996

NTS Reference: 42A/06

60.0 357 -45
213.2 355 -43

Depth to Bedrock: 46m
Claim: Patent 2727W+T and P594781
Length per Claim: 77m in Patent 2727W+T and 136.22m in claim P594781
Material Left in Hole: 45m casing left in, and hole cemented.
Post Location: 178m west and 52m south of 2 post of claim P594781
Purpose: Test South Volcanic Package and HLEM conductor
Local Reference: 865m S of Murphy/Tisdale Twp Line & 525m E of Hwy 655
Core Storage: Returned to Moneta Porcupine Mines Inc.

Core Samples: 246
Sludge Samples: 0
Sample Type: Au

Logged by: Kathy Farrell
Date Logging Started: August 15, 1996
Date Logging Finished: August 21, 1996
Geotechnical Log By: Michael De Luca

Signature: 

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
.00	46.00	OVB	Assay values of 0.000 g/t represent less than 0.005 g/t or below the detection limit. OVERBURDEN Overburden. The casing went down to 47m with the ledge at 46m.					
46.00	49.00	6J	GRAPHITE Graphite. Texture - blocky, and foliated. Moderately hard to hard, very dark black, very fine grained. 05% euhedral crystals of pyrite overall. 0.50% total sulphides. Lower contact at 60 dca. 5% stringers of quartz-carbonate. The hole collared into this intensely graphite altered sediment, possible argillite. The core is very blocky and ground up. About 2m of core has been lost. The pyrite is coarse 1-3mm euhedral cubes associated with quartz-calcite veins and stringers. The veins and stringers are contorted and are interrupted by the foliation. 46.00 47.87 This sample covers an area with 1m of Lost Core core. 46.00 47.87 2% euhedral crystals of pyrite. 2% stringers of quartz-carbonate. 5% interstitial calcite. Foliation at 45 dca. 47.20 Moderate to strong foliation at 45 dca. 47.87 49.00 This sample covers as area with 50cm Lost Core core. 47.87 49.00 4% euhedral crystals of pyrite. 5% veins of quartz-carbonate. 5% interstitial calcite. Foliation at 45 dca. 48.00 Quartz pyrite stringer at 25 dca.	TM24816	46.00	47.87	1.87	.080
				TM24817	47.87	49.00	1.13	.025
49.00	62.82	12B	FELDSPAR PORPHYRY Feldspar Porphyry. Texture - porphyritic, and blocky. Hard, medium brownish grey, porphyritic .5% disseminated pyrite overall. .5% total sulphides. Lower contact at 65 dca. Trace stringers of quartz. The upper contact is not definite due to the ground core and core loss from 46-49m. The lower contact with the graphitic sediment is jagged but sharp. The feldspar crystals (30%) range from 0.1mm to 3mm in length where some are tabular and display twinning. 49.00 50.73 The porphyry adjacent to the contact is highly fractured with 10% amphibole porphyroblasts and 2% quartz-calcite	TM24818	49.00	50.00	1.00	.010

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			veins.					
	49.00	50.00	2% euhedral crystals of pyrite. 2% stringers of quartz. 10% crystals of amphibole.					
	50.00	50.73	1% euhedral crystals of pyrite. 3% veins of quartz-carbonate. 2% stringers of calcite. 10% crystals of amphibole.	TM24819	50.00	50.73	.73	.000
	50.08		Carbonate stringer at 35 dca.					
	50.42		.01 m quartz-carbonate vein at 50 dca.					
	50.66		Carbonate stringer at 45 dca.					
	50.73	62.82	There are 2-3% amphibole porphyroblasts associated with the more fractured areas within the rest of the unit. There is a possible graphitic seam within the porphyry at approximately 52.10m although the core is very blocky and ground up. There is trace to 2% pyrite within the matrix and within fractures throughout the unit. The percentage increases close to the contacts.					
	50.73	51.80	1% fracture filling pyrite. 5% veins of quartz. 2% crystals of amphibole.	TM24820	50.73	51.80	1.07	.005
	51.60		.02 m quartz vein at 10 dca.					
	51.80	52.33	1% euhedral crystals of pyrite. 10% lenses of graphite.	TM24821	51.80	52.33	.53	.005
	52.33	52.70	1% blebs of pyrite. 5% pervasive quartz. 1% crystals of amphibole.	TM24822	52.33	52.70	.37	.025
	52.70	52.83	2% fracture filling pyrite. 5% pervasive quartz. 10% crystals of amphibole.	TM24823	52.70	52.83	.13	.000
	52.83	53.70	1% blebs of pyrite. 1% crystals of amphibole.	TM24824	52.83	53.70	.87	.000
	53.70	55.04	.5% blebs of pyrite. 1% stringers of quartz. 2% crystals of amphibole.	TM24825	53.70	55.04	1.34	.005
	55.04	56.19	1% fracture filling pyrite. 2% stringers of quartz-carbonate. 5% crystals of amphibole.	TM24826	55.04	56.19	1.15	.000
	55.51		Carbonate stringer at 70 dca.					
	55.80		Quartz stringer at 35 dca.					
	56.19	57.00	1% blebs of pyrite. 5% pervasive quartz. 2% crystals of amphibole.	TM24827	56.19	57.00	.81	.000
	56.19	57.00	QC Sample tm24828 - DUP : 0.00 g/tonne.					
	57.00		QC Sample tm24829 - B : 0.00 g/tonne.	TM24830	57.00	58.00	1.00	.000
	57.00	58.00	2% fracture filling pyrite. 1% crystals of amphibole.					
	58.00		Chlorite stringer at 40 dca.					
	58.00	59.00	.5% fracture filling pyrite. 2% crystals of amphibole.	TM24831	58.00	59.00	1.00	.025
	58.34		Carbonate stringer at 45 dca.					
	58.87		Pyrite chlorite stringer at 15 dca.					
	59.00	60.00	1% fracture filling pyrite. 5% pervasive quartz. 5% crystals of amphibole.	TM24832	59.00	60.00	1.00	.030
	60.00	61.00	.5% fracture filling pyrite. 2% stringers of quartz-carbonate. 3% crystals of amphibole.	TM24833	60.00	61.00	1.00	.000
	61.00	62.00	.5% fracture filling pyrite. .5% crystals of amphibole.	TM24834	61.00	62.00	1.00	.000
	62.00	62.64	2% euhedral crystals of pyrite. 1% crystals of amphibole.	TM24835	62.00	62.64	.64	.005
	62.64	62.82	5% blebs of pyrite. 20% pervasive quartz. 5% crystals of amphibole.	TM24836	62.64	62.82	.18	.035
	62.68	62.82	There is 5% blebby and disseminated pyrite near the contact as well as the amphibole porphyroblast content increased to 10%.					
62.82	75.00	6J	GRAPHITE Graphite. Texture - blocky, and veined. Very soft, very dark black, aphanitic. 3% stringers of pyrite overall. 3.0% total sulphides. Lower contact at 75 dca. Strong banded carbonatization. 16% veins of quartz. 2% banded carbonate. This unit is very broken up and much core has been lost. 62.82 64.61 The beginning of the unit is very hard, possibly graphite altered porphyry. There is 5% 1mm calcite crystals throughout the matrix, with up to 1% calcite stringers. At 63.27m there is a 6cm light grey band of calcite alteration with sharp contacts with the graphite altered rock. This section also has 2-5%, 1-5mm pyrite stringers with minor quartz. The pyrite is very coarse euhedral crystals. 62.82 63.76 5% stringers of pyrite. 5% banded calcite. Foliation at 45 dca. 62.88 Carbonate stringer at 35 dca.	TM24837	62.82	63.76	.94	.050

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
63.06			Carbonate stringer at 80 dca.					
63.09			Pyrite stringer at 45 dca.					
63.21			Weak to moderate foliation at 45 dca.					
63.26			.06 m banding at 70 dca. 50% associated calcite. Lower core angle at 45 dca.					
63.50			Pyrite stringer at 30 dca.					
63.62			Calcite-pyrite stringer at 75 dca.					
63.76	64.84		5% stringers of pyrite. 10% crystals of calcite. Foliation at 45 dca.	TM24838	63.76	64.84	1.08	.050
63.88			Pyrite stringer at 65 dca.					
64.00			Quartz pyrite stringer at 65 dca.					
64.26			Pyrite stringer at 10 dca.					
64.61	75.00		This section has 10-22cm quartz veins with graphite stringers separated by crumbly massive graphite. The massive graphite is more competent in areas of calcite alteration. The alteration appears as light grey bands which are highly contorted and fractured. There is less than 1% pyrite associated with these bands. The veins are not mineralized except for one at 64.88m with 25% pyrite in a brecciated vein with a graphite matrix. The pyrite is fine within stringers and as coarse crystals. The quartz veins have undergone stress to they are highly fractured. The calcite bands are folded as well as micro-faulted and crosscut by calcite stringers.					
64.84	64.98		30% stringers of pyrite. 10% veins of quartz. 2% stringers of calcite.	TM24839	64.84	64.98	.14	.185
64.84	64.98		QC Sample tm24840 - DUP : 0.15 g/tonne.					
64.98			QC Sample tm24841 - B : 0.01 g/tonne.	TM24842	64.98	65.26	.28	.015
64.98	65.26		1% euhedral crystals of pyrite. 5% stringers of graphite.					
65.00			.28 m quartz vein at 50 dca. Lower core angle at 45 dca.					
65.26	66.00		2% blebs of pyrite. 10% stringers of calcite.	TM24843	65.26	66.00	.74	.085
65.26	66.00		53cm ground core.					
66.00	68.00		This section has 1.2m Lost Core core, probably graphite between the veins.					
66.00	67.74		1.33m ground core.					
66.00	67.74		3% blebs of pyrite. 5% anastomosing stringers of quartz-carbonate. 2% stringers of calcite.	TM24844	66.00	67.74	1.74	.030
66.00			2.00 m quartz vein at 40 dca.					
67.74	68.00		5% stringers of pyrite. 5% stringers of calcite.	TM24845	67.74	68.00	.26	.115
68.00	69.00		44cm ground core.					
68.00	69.00		1% vein associated pyrite. 5% stringers of calcite.	TM24846	68.00	69.00	1.00	.025
69.00			Carbonate stringer at 5 dca.					
69.00	69.66		2% vein associated pyrite. 20% banded calcite.	TM24847	69.00	69.66	.66	.025
69.26			Axial plane at 12 dca.					
69.66	70.00		5% stringers of graphite.	TM24848	69.66	70.00	.34	.015
69.76			.25 m quartz vein.	TM24849	70.00	70.20	.20	.085
70.20	70.44		10% fracture filling graphite.	TM24850	70.20	70.44	.24	.040
70.44	70.60		5% stringers of calcite.	TM24851	70.44	70.60	.16	.080
70.60	70.76		5% fracture filling graphite.	TM24852	70.60	70.76	.16	.005
				TM24853	70.76	70.95	.19	.090
				TM24854	70.95	71.21	.26	.080
70.95	71.21		10% fracture filling graphite.					
71.00			.18 m quartz vein at 30 dca. Lower core angle at 40 dca.					
71.21	72.45		73cm ground core.					
71.21	72.45		.5% vein associated pyrite. 2% veins of quartz-carbonate.	TM24855	71.21	72.45	1.24	.265
72.45	74.00		1.13m ground core.					
72.45	74.00		5% stringers of calcite.	TM24856	72.45	74.00	1.55	.110
74.00	74.46		10% stringers of calcite.	TM24857	74.00	74.46	.46	.100

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t	
75.00	105.11	28	74.05 Axial plane at 20 dca.						
			74.40 .20 m quartz-carbonate vein at 50 dca. 5% associated pyrite.						
			74.46 74.64 5% stringers of pyrite. 5% fracture filling graphite.	TM24858	74.46	74.64	.18	.165	
			74.64 75.00 10% veins of quartz-carbonate.	TM24859	74.64	75.00	.36	.165	
			MAFIC PYROCLASTIC						
			Mafic Pyroclastic. Texture - tuffaceous, and bedded. Moderately hard, light brown, very fine grained. 1% euhedral crystals of pyrite overall. 1.0% total sulphides. Intense interstitial carbonatization. Weak intrafolial sericitization. 1% veins of quartz. 2% stringers of quartz-carbonate. 5% stringers of carbonate.	TM24860	75.00	75.14	.14	.660	
			This unit consists of fine grained bedded tuffs which have been intensely carbonatized. In general the stringers are parallel to the foliation although there are a few disrupted stringers which crosscut the foliation. There are also zones of contorted and crenulated foliation (5-10 cm wide).						
			75.00 75.14 This section almost semi-massive pyrite with associated quartz-calcite veining and graphite stringers. There are bands and large 3cm blebs of colloform pyrite with small 1mm blebs recrystallizing at the edges and within the veins and graphite stringers. The colloform pyrite has been brecciated by the quartz and graphite. There are late stringers crosscutting the matrix and fragments.						
			75.00 75.14 50% breccia fragments pyrite. 35% veins of quartz-carbonate. 15% stringers of graphite.						
			75.14 75.65 This section has 5-10% pyrite bands and 1-10mm cubes within intensely carbonatized tuffs. The banded pyrite is associated with the 10% quartz stringers.						
			75.14 75.65 15% stringers of pyrite. 20% stringers of quartz-carbonate. 20% interstitial calcite. Foliation at 45 dca.	TM24861	75.14	75.65	.51	.475	
			75.14 75.65 QC Sample tm24862 - DUP : 0.38 g/tonne.						
			75.18 .03 m quartz-pyrite vein at 45 dca. Lower core angle at 50 dca.						
			75.36 Moderate foliation at 45 dca.						
			75.47 Quartz-carbonate stringer at 40 dca. 5% associated pyrite.						
			75.62 Quartz-carbonate stringer at 40 dca.						
75.65 76.68 This section has 2-3% stringers made up of fine grained pyrite and 5-10% quartz-calcite stringers.									
75.65 Calcite-pyrite stringer at 35 dca.									
75.65 QC Sample tm24863 - B : 0.00 g/tonne.	TM24864	75.65	76.69	1.04	.440				
75.65 76.69 5% intrafolial pyrite. 10% stringers of quartz-carbonate. 20% interstitial calcite. Foliation at 45 dca.									
76.13 Pyrite stringer at 50 dca.									
76.46 Crosscutting quartz stringer at 60 dca.									
76.68 89.80 There are 1% 1mm to 1.5cm pyrite cubes throughout the unit and have grown over the foliation and bedding. The cubes are recrystallized to fine grained pyrite. There are 2-5% quartz-calcite veins and stringers. There are two generations, one parallel to foliation and the other cross-cutting the foliation. There are also 2-3% chlorite and graphite stringers.									
76.69 77.50 1% intrafolial pyrite. 2% veins of quartz. 2% stringers of quartz-carbonate. 25% interstitial calcite. Foliation at 45 dca.	TM24865	76.69	77.50	.81	.035				
77.07 .01 m quartz vein at 65 dca.									
77.15 Calcite-pyrite stringer at 25 dca.									
77.50 78.00 .5% vein associated pyrite. 5% veins of quartz. 2% interstitial calcite. Foliation at 45 dca.	TM24866	77.50	78.00	.50	.145				
77.53 Quartz-carbonate stringer at 40 dca. 10% associated chlorite.									
78.00 78.19 Trace blebs of pyrite. 70% veins of quartz. 5% stringers of chlorite. Quartz veins at 60 dca.	TM24867	78.00	78.19	.19	.005				
78.04 .08 m quartz vein at 70 dca. Lower core angle at 55 dca.									

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
	78.19 79.00		1% euhedral crystals of pyrite. 2% stringers of quartz-carbonate. 20% interstitial calcite. Foliation at 55 dca.	TM24868	78.19	79.00	.81	.060
	78.93		Quartz-carbonate stringer at 55 dca.					
	79.00 80.00		1% euhedral crystals of pyrite. 3% stringers of quartz-carbonate. 5% interstitial calcite. Foliation at 55 dca.	TM24869	79.00	80.00	1.00	.040
	79.25		Moderate foliation at 55 dca.					
	79.69		.01 m quartz-carbonate vein at 60 dca.					
	79.85		Ladder quartz stringer at 25 dca.					
	80.00 81.00		5% euhedral crystals of pyrite. 5% stringers of quartz-carbonate. 5% stringers of chlorite. Foliation at 55 dca.	TM24870	80.00	81.00	1.00	.025
	80.30		Boudinaged quartz-carbonate stringer at 60 dca.					
	80.73		Quartz stringer at 50 dca.					
	81.00 81.60		2% euhedral crystals of pyrite. 50% veins of quartz. 1% stringers of quartz-carbonate. Quartz veins at 35 dca.	TM24871	81.00	81.60	.60	.110
	81.60 81.75		.5% euhedral crystals of pyrite. 2% stringers of quartz. 10% anastomosing stringers of calcite. 1% stringers of chlorite. Foliation at 55 dca.	TM24872	81.60	81.75	.15	.795
	81.64		.07 m quartz vein at 35 dca. Lower core angle at 65 dca.					
	81.75 82.84		1% euhedral crystals of pyrite. 10% patchy quartz. 2% stringers of quartz-carbonate. 5% interstitial calcite. 3% stringers of chlorite. Foliation at 55 dca.	TM24873	81.75	82.84	1.09	.030
	81.97		Quartz-carbonate stringer at 45 dca.					
	82.22		Quartz stringer at 50 dca.					
	82.32		Moderate to strong foliation at 55 dca.					
	82.84 84.00		2% euhedral crystals of pyrite. 2% stringers of quartz-carbonate. 5% interstitial calcite. 2% stringers of chlorite. Foliation at 50 dca.	TM24874	82.84	84.00	1.16	.065
	83.36		Quartz-carbonate stringer at 50 dca.					
	83.63		Carbonate stringer at 50 dca.					
	84.00 85.00		1% euhedral crystals of pyrite. 3% stringers of quartz-carbonate. 30% interstitial calcite. 2% stringers of chlorite. Foliation at 50 dca.	TM24875	84.00	85.00	1.00	.060
	84.22		.01 m quartz-carbonate vein at 55 dca.					
	84.51		Quartz-carbonate stringer at 55 dca.					
	84.74		Moderate foliation at 50 dca.					
	85.00 85.65		1% stringers of quartz-carbonate. 15% anastomosing stringers of calcite. Foliation at 35 dca.	TM24876	85.00	85.65	.65	.005
	85.44		Quartz-carbonate stringer at 45 dca.					
	85.65 86.30		5% stringers of quartz-carbonate. 10% interstitial calcite. 5% stringers of graphite. Foliation at 50 dca.	TM24877	85.65	86.30	.65	.005
	86.30 87.27		5% stringers of quartz-carbonate. Foliation at 50 dca.	TM24878	86.30	87.27	.97	.075
	86.35		Carbonate stringer at 45 dca.					
	87.25		Moderate to strong foliation at 50 dca.					
	87.27 88.20		Trace blebs of pyrite. 2% veins of quartz. 4% stringers of quartz-carbonate. 10% interstitial calcite. 5% stringers of graphite. Foliation at 50 dca.	TM24879	87.27	88.20	.93	.015
	87.39		Fault at 30 dca.					
	87.53		Fault at 45 dca.					
	87.55		.02 m quartz vein at 65 dca.					
	87.74		Quartz-carbonate stringer at 50 dca.					
	87.91		Quartz-carbonate stringer at 55 dca.					
	88.20 89.00		1% veins of quartz-carbonate. 15% intrafolial calcite. 5% stringers of chlorite. Foliation at 50 dca.	TM24880	88.20	89.00	.80	.020
	88.83		.01 m quartz-carbonate vein at 60 dca.					
	89.00 89.72		5% stringers of quartz-carbonate. 5% interstitial calcite. 5% stringers of graphite. Foliation at 45 dca.	TM24881	89.00	89.72	.72	.070

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			89.03 Quartz-carbonate stringer at 65 dca.					
			89.37 Quartz-carbonate stringer at 45 dca.					
			89.72 90.43 .5% vein associated pyrite. 80% pervasive quartz. 3% anastomosing stringers of quartz-carbonate.	TM24882	89.72	90.43	.71	.010
			89.80 92.83 This section has patches of silicification (10%) with 5% quartz-calcite stringers and 5% quartz veins. There are calcite halos around 1-2mm quartz-calcite lenses. Pyrite (trace to 1%) is associated with the stringers.					
			90.03 Quartz-calcite-pyrite stringer at 40 dca.					
			90.35 Weak to moderate foliation at 45 dca.					
			90.43 91.39 1% stringers of quartz-carbonate. 2% interstitial calcite. 20% intrafolial chlorite. Foliation at 45 dca.	TM24883	90.43	91.39	.96	.015
			91.31 Quartz-calcite-pyrite stringer at 60 dca.					
			91.39 92.40 Trace vein associated pyrite. 2% patchy quartz. 5% stringers of calcite. 3% stringers of graphite.	TM24884	91.39	92.40	1.01	.055
			92.40 92.62 .5% vein associated pyrite. 75% veins of quartz. 1% stringers of quartz-carbonate. 5% interstitial calcite. 10% stringers of graphite.	TM24885	92.40	92.62	.22	10.000
			92.52 .11 m quartz vein at 75 dca. Lower core angle at 50 dca.					
			92.62 93.58 3% blebs of pyrite. 1% stringers of quartz. 5% stringers of quartz-carbonate. 30% interstitial calcite. 2% stringers of graphite. Foliation at 45 dca.	TM24886	92.62	93.58	.96	.150
			92.62 93.58 QC Sample tm24887 - DUP : 0.07 g/tonne.					
			92.83 95.20 This section has 2-5% blebby pyrite within the matrix and veins. There are 5% quartz-calcite veins and stringers and intense carbonatization throughout the matrix. There are also 3-5% chloritic and graphitic stringers.					
			93.11 Carbonate stringer at 15 dca.					
			93.38 Quartz-calcite-pyrite stringer at 45 dca.					
			93.58 QC Sample tm24888 - B : 0.02 g/tonne.	TM24889	93.58	94.29	.71	.075
			93.58 94.29 4% blebs of pyrite. 5% veins of quartz. 1% stringers of quartz-carbonate. 30% interstitial calcite. 1% stringers of graphite. Foliation at 45 dca.					
			93.82 Quartz-calcite-pyrite stringer at 50 dca.					
			94.00 .01 m quartz vein at 60 dca.					
			94.09 .03 m quartz pyrite stringer at 60 dca. Lower core angle at 65 dca.					
			94.29 95.00 2% blebs of pyrite. 1% stringers of quartz-carbonate. 40% interstitial calcite. Foliation at 40 dca.	TM24890	94.29	95.00	.71	.020
			94.45 Carbonate stringer at 30 dca.					
			95.00 95.75 1% blebs of pyrite. 2% stringers of quartz-carbonate. 40% interstitial calcite. Foliation at 40 dca.	TM24891	95.00	95.75	.75	.000
			95.20 97.92 Same as above but with trace amounts of pyrite.					
			95.20 Quartz-calcite-pyrite stringer at 50 dca.					
			95.68 Moderate to strong foliation at 40 dca.					
			95.75 97.00 2% stringers of quartz-carbonate. 20% interstitial calcite. 3% stringers of graphite. Foliation at 40 dca.	TM24892	95.75	97.00	1.25	.010
			96.00 Quartz-carbonate stringer at 55 dca.					
			97.00 97.93 1% stringers of quartz-carbonate. 10% intrafolial calcite. Foliation at 40 dca.	TM24893	97.00	97.93	.93	.010
			97.32 Quartz-carbonate stringer at 35 dca.					
			97.50 Quartz-carbonate stringer at 60 dca.					
			97.92 98.44 This section is dark grey to black and is graphite and carbonate altered. An 11cm fractured quartz-calcite vein lies in the centre of the alteration zone. The vein has 2-3% graphite filled fractures. There is trace pyrite along foliation.					
			97.93 98.42 30% veins of quartz-carbonate. 30% interstitial calcite. 15% stringers of graphite. Foliation at 50 dca.	TM24894	97.93	98.42	.49	.280
			98.08 .11 m quartz-carbonate vein at 70 dca. Lower core angle at 70 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			98.42 98.80 2% veins of quartz-carbonate. 30% interstitial calcite. Foliation at 50 dca.	TM24895	98.42	98.80	.38	.000
			98.44 101.69 This small section may be a crystal tuff which has been intensely carbonatized. There are also 15% calcite stringers and replacement of crystals and 5% quartz-calcite stringers.					
			98.44 .01 m quartz-carbonate vein at 60 dca. Lower core angle at 90 dca.					
			98.79 99.10 Graphite alteration zone of the above rock.					
			98.80 99.13 Trace intrafolial pyrite. 3% stringers of quartz-carbonate. 30% interstitial calcite. 25% intrafolial graphite. Foliation at 50 dca.	TM24896	98.80	99.13	.33	.005
			99.13 99.77 10% veins of quartz-carbonate. 5% interstitial calcite. 5% intrafolial graphite. Foliation at 50 dca.	TM24897	99.13	99.77	.64	.145
			99.37 .01 m quartz-carbonate vein at 70 dca. Lower core angle at 65 dca.					
			99.77 100.81 1% stringers of quartz-carbonate. 15% stringers of calcite. Foliation at 50 dca.	TM24898	99.77	100.81	1.04	.060
			99.95 Quartz-carbonate stringer at 70 dca.					
			100.00 Moderate to strong foliation at 50 dca.					
			100.80 101.49 Graphite alteration zone, not as strong as last one. Mainly fracture fill graphite.					
			100.81 101.69 3% stringers of quartz-carbonate. 20% interstitial calcite. 10% intrafolial graphite. Foliation at 50 dca.	TM24899	100.81	101.69	.88	.015
			101.06 Quartz-carbonate stringer at 65 dca.					
			101.69 105.11 10% lapilli tuff Mafic Pyroclastic. Texture - foliated, moderately hard to hard, medium green, variable. .00% total sulphides. Lower contact at 65 dca.					
			101.69 102.44 10% pervasive calcite. Foliation at 65 dca.	TM24900	101.69	102.44	.75	.015
			The contacts for this unit are gradational to the point that they are not easily recognizable. The fragments range from 2mm to at least the width of the core (5cm). They are pale green to greenish white felsic fragments. There are 2-3mm quartz-calcite lenses within the larger fragments.					
			101.69 Contact at 60 dca.					
			102.44 103.05 10% interstitial calcite. Foliation at 65 dca.	TM24901	102.44	103.05	.61	.000
			103.05 103.38 Pervasive silicification, can no longer see fragments.					
			103.05 103.38 90% pervasive quartz. 5% anastomosing stringers of quartz-carbonate.	TM24902	103.05	103.38	.33	.030
			103.05 103.38 QC Sample tm24903 - DUP : 0.02 g/tonne.					
			103.38 QC Sample tm24904 - B : 0.01 g/tonne.	TM24905	103.38	104.00	.62	.010
			103.38 104.00 75% pervasive quartz. 5% anastomosing stringers of quartz-carbonate.					
			104.00 104.66 10% pervasive quartz. 10% stringers of quartz-carbonate. Foliation at 65 dca.	TM24906	104.00	104.66	.66	.015
			104.14 Moderate to strong foliation at 65 dca.					
			104.61 104.81 Pervasive silicification as above.					
			104.66 105.11 15% stringers of quartz-carbonate. 5% intrafolial graphite. Foliation at 65 dca.	TM24907	104.66	105.11	.45	.000
105.11	213.22	2A3	MAGNESIUM BASALT Magnesium Basalt. Texture - massive, moderately hard to hard, light yellow, fine grained trace intrafolial pyrite overall. Trace blebs of pyrrhotite overall. Trace disseminated chalcopryrite overall. .1% total sulphides. Weak to moderate interstitial carbonatization. Very weak pervasive sericitization. 3% veins of quartz. 3% stringers of quartz-carbonate. This unit is massive, not well foliated and not very altered. There are graphitic alteration zones with well defined sharp contacts. These zones are pervasively carbonatized and have 2-5% quartz-calcite stringers and are dark grey to black in colour.	TM24908	105.11	105.74	.63	.010
			105.11 105.74 1% stringers of quartz-carbonate. 2% interstitial calcite. Foliation at 60 dca.					
			105.74 105.92 2% stringers of quartz-carbonate. 3% interstitial calcite. 2% intrafolial graphite. Foliation at 60 dca.	TM24909	105.74	105.92	.18	.010
			105.76 Quartz-carbonate stringer at 50 dca.					
			105.92 Quartz-carbonate stringer at 60 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
105.92	106.86		1% stringers of quartz-carbonate. Foliation at 60 dca.	TM24910	105.92	106.86	.94	.000
106.83			Quartz-carbonate stringer at 55 dca.					
106.86	107.77		2% stringers of quartz-carbonate. Foliation at 60 dca.	TM24911	106.86	107.77	.91	.000
107.23			Quartz-carbonate stringer at 60 dca.					
107.61			Quartz-carbonate stringer at 65 dca.					
107.77	113.85		12% tuffaceous Mafic Pyroclastic. Texture - blocky, and foliated. Moderately hard to hard, dark green brown grey, variable. Trace vein associated pyrrhotite overall. Trace vein associated chalcopyrite overall. .1% total sulphides. Lower contact at 60 dca.					
107.77	108.63		5% stringers of quartz-carbonate. 1% interstitial calcite. Foliation at 60 dca. This section is variable with fine grained tuffs and crystal tuffs. There are 5-10% quartz-calcite veins and stringers.	TM24912	107.77	108.63	.86	.000
107.77			Contact at 75 dca.					
108.07			Quartz-carbonate stringer at 70 dca.					
108.29			.01 m quartz-carbonate vein at 70 dca.					
108.36			Moderate foliation at 60 dca.					
108.63	109.68		This section contains small fragments 1mm to 5cm making it a lapilli tuff.					
108.63	109.68		5% veins of quartz-carbonate. Foliation at 60 dca.	TM24913	108.63	109.68	1.05	.015
108.81			.02 m quartz-carbonate vein at 70 dca.					
109.68	112.44		Graphitic alteration zone within layered fine grained tuffs with 5-10% quartz-calcite stringers.					
109.68	110.75		5% stringers of quartz-carbonate. 20% interstitial calcite. 10% intrafolial graphite. Foliation at 60 dca.	TM24914	109.68	110.75	1.07	.015
109.78			Quartz-carbonate stringer at 65 dca.					
110.75	111.75		5% stringers of quartz-carbonate. 10% interstitial calcite. 5% intrafolial graphite. Foliation at 65 dca.	TM24915	110.75	111.75	1.00	.000
111.75	112.74		10% stringers of quartz-carbonate. 20% interstitial calcite. Foliation at 65 dca.	TM24916	111.75	112.74	.99	.060
111.82			Quartz-carbonate stringer at 70 dca.					
112.44	113.85		This section has 5% quartz veins and 2-3% quartz-calcite stringers. At 113.77m there is a brecciated quartz-calcite vein with fine grained pyrrhotite (5%) and chalcopyrite (1%) within the matrix.					
112.54			Weak to moderate foliation at 65 dca.					
112.74	112.91		5% vein associated pyrrhotite. 1% vein associated chalcopyrite. 40% veins of quartz-carbonate. Quartz veins at 70 dca.	TM24917	112.74	112.91	.17	.070
112.74	112.91		QC Sample tm24918 - DUP : 0.03 g/tonne.					
112.79			.07 m quartz-carbonate vein at 70 dca. 10% associated pyrrhotite. 2% associated chalcopyrite. Lower core angle at 65 dca.					
112.91			QC Sample tm24919 - B : 0.01 g/tonne.	TM24920	112.91	113.85	.94	.020
112.91	113.85		10% veins of quartz-carbonate. 10% stringers of calcite. Foliation at 65 dca. Quartz veins at 80 dca.					
113.10			.03 m quartz vein at 65 dca. Lower core angle at 70 dca.					
113.21			.03 m quartz-carbonate vein at 80 dca. Lower core angle at 70 dca.					
113.58			Quartz-carbonate stringer at 20 dca.					
113.85	116.27		This section has 2-5% quartz-calcite stringers. There is one zone with crosscutting stringers at low angles to the core axis. There is also moderate carbonatization.					
115.32	116.27		5% stringers of quartz-carbonate.	TM24921	115.32	116.27	.95	.000
115.80			Quartz-carbonate stringer at 25 dca.					
115.95			Quartz-carbonate stringer at 70 dca.					
116.27	116.71		Graphitic alteration zone with 2% quartz-calcite stringers and trace pyrite associated with them.					
116.27			.44 m alteration contact at 75 dca. 10% associated graphite. .0% associated pyrite. Lower core angle at 50 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
116.27	116.71		1% stringers of quartz-carbonate. 20% interstitial calcite. 10% intrafolial graphite. Foliation at 60 dca.	TM24922	116.27	116.71	.44	.035
116.46			Quartz-calcite-pyrite stringer at 65 dca.					
116.56			Moderate foliation at 60 dca.					
116.71	117.79		3% stringers of quartz-carbonate.	TM24923	116.71	117.79	1.08	.000
117.32			.01 m quartz vein at 85 dca.					
117.79	118.02		Graphitic alteration zone with 10cm quartz vein with late quartz-calcite vein through it in the centre of the zone.					
117.79			.23 m alteration contact at 75 dca. 5% associated graphite. Lower core angle at 65 dca.					
117.79	118.02		60% veins of quartz-carbonate. 5% interstitial calcite. 5% intrafolial graphite. Quartz veins at 60 dca.	TM24924	117.79	118.02	.23	.000
117.80			.12 m quartz-carbonate vein at 60 dca. Lower core angle at 60 dca.					
118.02	121.98		This section of massive flow has up to 1% veining and is fine to medium grained.					
118.02	119.00		1% stringers of quartz-carbonate. Up to.	TM24925	118.02	119.00	.98	.000
118.03			Quartz-carbonate stringer at 45 dca.					
118.23			Quartz-carbonate stringer at 55 dca.					
119.27			Quartz-carbonate stringer at 60 dca.					
120.63			Quartz-carbonate stringer at 65 dca.					
121.00	121.98		1% stringers of quartz-carbonate.	TM24926	121.00	121.98	.98	.005
121.25			Quartz-carbonate stringer at 75 dca.					
121.27			Moderate foliation at 70 dca.					
121.36			Carbonate stringer at 35 dca.					
121.58			Quartz-carbonate stringer at 75 dca.					
121.98	122.92		Graphitic alteration zone with 10% quartz-calcite stringers and intense carbonatization.					
121.98			.94 m alteration contact at 70 dca. 10% associated graphite. Lower core angle at 75 dca.					
121.98	122.91		10% stringers of quartz-carbonate. 10% interstitial calcite. 5% intrafolial graphite.	TM24927	121.98	122.91	.93	.000
122.74			Quartz-carbonate stringer at 90 dca.					
122.91	124.00		1% stringers of quartz-carbonate.	TM24928	122.91	124.00	1.09	.005
123.28			Quartz-carbonate stringer at 70 dca.					
124.00	124.42		Graphitic alteration zone with 10% quartz-calcite and calcite stringers.					
124.00			.42 m alteration contact at 80 dca. 15% associated graphite. Lower core angle at 80 dca.					
124.00	124.42		5% stringers of quartz-carbonate. 20% interstitial calcite. 20% intrafolial graphite.	TM24929	124.00	124.42	.42	.000
124.16			Quartz-carbonate stringer at 80 dca.					
124.26			Quartz-carbonate stringer at 25 dca.					
124.42	125.41		5% veins of quartz. 2% stringers of quartz-carbonate. 2% intrafolial graphite.	TM24930	124.42	125.41	.99	.025
124.87			Quartz-carbonate stringer at 45 dca.					
125.01			.04 m quartz vein at 80 dca. Lower core angle at 80 dca.					
126.23			.01 m quartz-carbonate vein at 65 dca. Lower core angle at 70 dca.					
126.70			Quartz-carbonate stringer at 15 dca.					
126.86			.01 m quartz-carbonate vein at 55 dca.					
127.15			Quartz-carbonate stringer at 65 dca.					
128.40			Quartz-carbonate stringer at 60 dca.					
128.54	128.88		1% anastomosing stringers of pyrrhotite. 2% stringers of quartz-carbonate.	TM24931	128.54	128.88	.34	.045
128.55	131.65		Much more mottled alteration within the massive flow. There is 5-10% quartz-calcite stringers and one large 20cm quartz vein associated with later quartz-calcite veining. At 131.10m there is a 4cm breccia zone with 1% pyrrhotite with 5mm fragments in a chloritic matrix.					
128.88	129.16		25% veins of quartz. 40% veins of quartz-carbonate. Quartz veins at 50 dca.	TM24932	128.88	129.16	.28	.000
128.93			.20 m quartz-carbonate vein at 50 dca. Lower core angle at 70 dca.					
129.16	129.84		5% stringers of quartz-carbonate.	TM24933	129.16	129.84	.68	.015

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
	129.40		Quartz-carbonate stringer at 45 dca.					
	129.72		Quartz-carbonate stringer at 50 dca.					
	129.84	130.76	5% veins of quartz-carbonate. Quartz veins at 65 dca.	TM24934	129.84	130.76	.92	.810
	130.06		Quartz-carbonate stringer at 65 dca.					
	130.58		.02 m quartz-carbonate vein at 65 dca.					
	130.76	131.65	Trace blebs of pyrrhotite. 5% stringers of quartz-carbonate.	TM24935	130.76	131.65	.89	.030
	131.65	132.48	Graphitic alteration zone with 5% quartz veins and 5-10% quartz-calcite stringers. There is trace pyrite associated with the veins.					
	131.65		.83 m alteration contact at 60 dca. 15% associated graphite. Lower core angle at 65 dca					
	131.65	132.48	2% vein associated pyrite. 10% stringers of quartz-carbonate. 15% interstitial calcite. 10% intrafolial graphite.	TM24936	131.65	132.48	.83	.030
	131.65	132.48	QC Sample tm24937 - DUP : 0.03 g/tonne.					
	132.48		QC Sample tm24938 - B : 0.01 g/tonne.	TM24939	132.48	132.75	.27	.000
	132.48	132.75	10% stringers of quartz-carbonate.					
	132.75	132.88	Trace blebs of pyrite. 15% breccia fragments quartz-carbonate.	TM24940	132.75	132.88	.13	.000
	132.76	132.88	Breccia zone with chlorite matrix with quartz and mafic fragments. There are 1% calcite stringers crosscutting the fragments and matrix.					
	132.88	136.00	Massive flow with 1-2% quartz-calcite stringers. Patchy carbonatization.					
	132.88	133.77	1% blebs of pyrite. .5% stringers of quartz-carbonate.	TM24941	132.88	133.77	.89	.000
	133.95		Quartz-carbonate stringer at 25 dca.					
	135.00		Fracture at 20 dca. Associated pyrite.					
	135.65		Quartz-carbonate stringer at 65 dca.					
	136.25		.01 m quartz-carbonate vein at 60 dca.					
	136.51	137.48	10% stringers of quartz-carbonate. 1% anastomosing stringers of graphite. Foliation at 55 dca.	TM24942	136.51	137.48	.97	.000
	136.58		Quartz-carbonate stringer at 75 dca.					
	136.68		.02 m quartz-carbonate vein at 80 dca.					
	137.03		Quartz-carbonate stringer at 75 dca.					
	137.26		.03 m quartz-carbonate vein at 65 dca.					
	137.34		Quartz-carbonate stringer at 35 dca.					
	137.48	137.68	Graphitic alteration zone with 20% graphite stringers and 15% quartz-calcite stringers within strongly carbonatized matrix.					
	137.48		.20 m alteration contact at 75 dca. 10% associated graphite. Lower core angle at 90 dca					
	137.48	137.76	15% stringers of quartz-carbonate. 20% intrafolial graphite. Foliation at 55 dca.	TM24943	137.48	137.76	.28	.000
	137.76	138.10	3% stringers of quartz-carbonate. Foliation at 55 dca.	TM24944	137.76	138.10	.34	.095
	138.03		Quartz-carbonate stringer at 30 dca.					
	138.09		Graphite stringer at 65 dca.					
	139.24		Weak to moderate foliation at 55 dca.					
	139.47		Carbonate stringer at 30 dca.					
	139.68	140.33	.5% blebs of pyrrhotite. 1% veins of quartz. 1% stringers of quartz-carbonate. 1% anastomosing stringers of graphite. Foliation at 55 dca.	TM24945	139.68	140.33	.65	.020
	139.72	140.26	There are 2-3% chlorite and graphite filled fractures anastomosing through the massive flow. There is also 1-2% quartz-calcite stringers and trace pyrrhotite associated with the stringers.					
	139.81		Graphite stringer at 70 dca.					
	140.28		.01 m quartz-carbonate vein at 60 dca.					
	140.95		.01 m quartz-carbonate vein at 80 dca.					
	141.68		.02 m quartz-carbonate vein at 55 dca.					
	143.00	143.61	This zone is weakly graphitic (3%) with 3% quartz-calcite stringers.					
	143.00		.61 m alteration contact at 65 dca. 03% associated graphite. Lower core angle at 65 dca					
	143.00	143.61	2% stringers of quartz-carbonate. 5% interstitial calcite. 3% intrafolial graphite.	TM24946	143.00	143.61	.61	.060

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
			Foliation at 65 dca.					
143.24			Moderate foliation at 65 dca.					
144.39			Quartz-carbonate stringer at 50 dca.					
145.15	145.86		Graphitic alteration zone (20%) with 16cm quartz-calcite vein with wallrock fragments within the vein. It almost appears brecciated.					
145.15			.71 m alteration contact at 40 dca. 20% associated graphite. Lower core angle at 35 dca					
145.15	145.86		12% veins of quartz-carbonate. 15% interstitial calcite. 20% intrafolial graphite. Foliation at 45 dca.	TM24947	145.15	145.86	.71	.000
145.37			.16 m quartz-carbonate vein at 65 dca. Lower core angle at 50 dca.					
145.86	149.70		This section has 5% quartz-calcite veins (10cm). There are pinkish quartz-calcite veins and stringers at high dca and crosscutting white quartz-calcite stringers at low dca.					
145.86	147.00		20% veins of quartz-carbonate. 1% stringers of calcite.	TM24948	145.86	147.00	1.14	.000
146.27			.07 m quartz-carbonate vein at 50 dca. Lower core angle at 45 dca.					
146.40			.18 m quartz vein at 50 dca. Lower core angle at 40 dca.					
146.92			Quartz-carbonate stringer at 45 dca.					
147.00	148.00		Trace anastomosing stringers of pyrrhotite. 3% veins of quartz-carbonate. 5% stringers of calcite. .5% anastomosing stringers of graphite.	TM24949	147.00	148.00	1.00	.000
147.14			.01 m quartz-carbonate vein at 10 dca.					
147.42			Quartz-carbonate stringer at 15 dca.					
147.50			.01 m quartz vein at 70 dca.					
147.50			Axial plane at 20 dca.					
148.00	149.00		Trace vein associated pyrrhotite. 2% stringers of quartz-carbonate. .5% anastomosing stringers of graphite.	TM24950	148.00	149.00	1.00	.000
148.03			Quartz stringer at 65 dca.					
148.10			Quartz-calcite-pyrrhotite stringer at 15 dca.					
149.00	149.70		2% stringers of quartz-carbonate.	TM24951	149.00	149.70	.70	.000
149.66			.01 m quartz-carbonate vein at 25 dca.					
149.70	156.76		This section is well foliated and intensely veined parallel to the foliation. There are 10-20% quartz-carbonate veins and stringers, 2-3% crosscutting carbonate stringers and 15% graphitic alteration zones. There is trace pyrite associated with the veins.					
149.70	150.61		Trace intrafolial pyrrhotite. 10% stringers of quartz-carbonate. 10% interstitial calcite. 2% intrafolial graphite. Foliation at 55 dca.	TM24952	149.70	150.61	.91	.030
149.70	150.96		Weak graphitic alteration zone with 3-5% intrafolial graphite. The alteration is patchy and is associated with trace intrafolial pyrrhotite. There are 15-20% quartz-calcite stringers and moderate interstitial carbonate alteration.					
149.74			Carbonate stringer at 30 dca.					
150.10			.01 m quartz-carbonate vein at 50 dca.					
150.50			Moderate to strong foliation at 55 dca.					
150.61	150.86		Trace intrafolial pyrrhotite. 35% veins of quartz-carbonate. Quartz veins at 70 dca.	TM24953	150.61	150.86	.25	.005
150.69			.08 m quartz-carbonate vein at 70 dca. Lower core angle at 60 dca.					
150.86	151.90		Trace intrafolial pyrrhotite. 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM24954	150.86	151.90	1.04	.000
150.96	155.44		This section has 10% quartz-calcite stringers and veins and 5-10% anastomosing calcite stringers and patches. At 155.2m there is a 5cm zone with 5% pyrrhotite stringers parallel to the foliation. The 16cm quartz vein has later quartz-calcite veins running through it.					
151.90	152.77		5% stringers of quartz-carbonate. 3% stringers of calcite. Foliation at 55 dca.	TM24955	151.90	152.77	.87	.035
152.77			.07 m alteration contact at 70 dca. 10% associated graphite. Lower core angle at 90 dca					
152.77	152.84		15% stringers of quartz-carbonate. 3% interstitial calcite.	TM24956	152.77	152.84	.07	.110
152.84	154.39		10% stringers of quartz-carbonate. Foliation at 55 dca.	TM24957	152.84	154.39	1.55	.000
153.02			.01 m quartz-carbonate vein at 55 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
	154.39		154.87 Trace vein associated pyrite. Trace intrafolial pyrrhotite. 50% veins of quartz-carbonate. Quartz veins at 60 dca.	TM24958	154.39	154.87	.48	.015
	154.43		Quartz-carbonate stringer at 80 dca.					
	154.48		.16 m quartz-carbonate vein at 60 dca. Lower core angle at 45 dca.					
	154.67		.02 m quartz-carbonate vein at 50 dca. Lower core angle at 60 dca.					
	154.72		Quartz-carbonate stringer at 15 dca.					
	154.87		155.44 1% intrafolial pyrrhotite. 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM24959	154.87	155.44	.57	.015
	154.90		Moderate foliation at 55 dca.					
	155.44		155.66 Graphitic alteration zone with trace intrafolial pyrrhotite and 2-4% graphite. There are 5% quartz-calcite stringers.					
	155.44		.22 m alteration contact at 70 dca. 4% associated graphite..% associated pyrrhotite. Lower core angle at 60 dca.					
	155.44		155.66 .5% intrafolial pyrrhotite. 5% stringers of quartz-carbonate. 4% intrafolial graphite. Foliation at 55 dca.	TM24960	155.44	155.66	.22	.000
	155.66		155.97 Trace vein associated pyrite. 8% stringers of quartz-carbonate. Foliation at 55 dca.	TM24961	155.66	155.97	.31	.010
	155.97		156.76 3% stringers of quartz-carbonate.	TM24962	155.97	156.76	.79	.000
	156.76		159.47 More massive flow and less altered. There is one mottled section at 157.06m for 25cm with trace pyrrhotite associated with the quartz vein and calcite stringers. There are 5-8% quartz and quartz-calcite veins with sharp contacts with the host rock.					
	156.76		157.52 Trace blebs of pyrrhotite. 20% veins of quartz-carbonate.	TM24963	156.76	157.52	.76	.000
	156.77		.08 m quartz-carbonate vein at 45 dca.					
	157.33		.10 m quartz-carbonate vein at 55 dca. Lower core angle at 70 dca.					
	157.52		158.61 5% veins of quartz. 2% stringers of quartz-carbonate. Foliation at 50 dca.	TM24964	157.52	158.61	1.09	.035
	158.33		.05 m quartz vein at 25 dca. Lower core angle at 40 dca.					
	158.61		158.85 Graphitic alteration zone with 2-3% graphite, 20% quartz veins and 3% calcite stringers.					
	158.61		.24 m alteration contact at 45 dca. 2% associated graphite. Lower core angle at 50 dca.					
	158.61		158.85 25% veins of quartz. 10% stringers of quartz-carbonate. 2% intrafolial graphite.	TM24965	158.61	158.85	.24	.020
	158.85		159.45 10% stringers of quartz-carbonate. Foliation at 50 dca.	TM24966	158.85	159.45	.60	.000
	158.98		Weak to moderate foliation at 50 dca.					
	159.45		160.06 01% fracture filling pyrite. 01% fracture filling pyrrhotite.	TM24967	159.45	160.06	.61	.000
	159.45		160.06 QC Sample tm24968 - DUP : 0.00 g/tonne.					
	159.46		160.58 Quartz vein with 5% wallrock and trace to 1% pyrite and pyrrhotite in clusters along fractures within the vein. There is a quartz-calcite vein along the upper contact.					
	159.46		.60 m quartz vein at 30 dca. 1% associated pyrrhotite..% associated pyrite. Lower core angle at 80 dca.					
	160.06		QC Sample tm24969 - B : 0.00 g/tonne.	TM24970	160.06	160.60	.54	.000
	160.06		160.60 01% fracture filling pyrite. 01% fracture filling pyrrhotite.					
	160.08		.25 m quartz vein at 65 dca. 1% associated pyrrhotite..% associated pyrite. Lower core angle at 65 dca.					
	160.39		.13 m quartz vein at 60 dca..% associated pyrrhotite. Lower core angle at 70 dca.					
	160.58		161.33 Strongly foliated at 65 dca and more chloritic than above mafic. There are 5% quartz-calcite stringers parallel to foliation and 5-10% contorted calcite stringers closer to the contact with the graphitic zone.					
	160.60		161.33 Trace intrafolial pyrite. 1% stringers of quartz-carbonate. 5% stringers of calcite. Foliation at 65 dca.	TM24971	160.60	161.33	.73	.000
	160.66		Strong foliation at 65 dca.					
	160.79		Quartz-carbonate stringer at 55 dca.					
	161.33		166.25 2% graphitic Magnesium Basalt. Texture - contorted, and crenulated. Moderately hard, very dark grey, very fine grained. Trace disseminated pyrite overall. .1% total sulphides. Lower contact at 45 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
	161.33		4.92 m alteration contact at 65 dca. 30% associated graphite. Lower core angle at 45 dca.					
	161.33	162.20	Trace intrafolial pyrite. 5% stringers of quartz-carbonate. 5% anastomosing stringers of calcite. 5% intrafolial graphite. Foliation at 60 dca. Graphitic alteration zone with 10-15% quartz-calcite veins and 5% calcite stringers. The calcite alteration occurs as the above mentioned stringers and as bands both of which are folded and contorted. There are areas of 2-4% and 5-10% intrafolial graphite. There is 60-100cm of very blocky core. The quartz-calcite veins crosscut the calcite bands. There is trace to 1% pyrite associated with the later veins in fractures. There is also trace pyrite along foliation plane with the calcite stringers. There are chloritic patches within the larger quartz-calcite veins. The large veins are mainly quartz with quartz-calcite filling in fractures.	TM24972	161.33	162.20	.87	.045
	161.33		Contact at 65 dca.					
	161.78		Axial plane at 75 dca.					
	162.20		Carbonate stringer at 20 dca.					
	162.20	162.50	5% stringers of quartz-carbonate. Foliation at 60 dca.	TM24973	162.20	162.50	.30	.000
	162.25		Moderate to strong foliation at 60 dca.					
	162.50	163.53	Trace intrafolial pyrite. 5% stringers of quartz-carbonate. 5% stringers of calcite. 3% intrafolial graphite. Foliation at 60 dca.	TM24974	162.50	163.53	1.03	.365
	163.47		Axial plane at 80 dca.					
	163.53	164.56	10% veins of quartz-carbonate. 7% anastomosing stringers of calcite. 5% intrafolial graphite.	TM24975	163.53	164.56	1.03	.000
	164.00		.04 m quartz-carbonate vein at 30 dca. Lower core angle at 50 dca.					
	164.31		Axial plane at 80 dca.					
	164.45		Axial plane at 45 dca.					
	164.52		.01 m carbonate vein at 45 dca.					
	164.56	165.17	.5% fracture filling pyrite. 80% veins of quartz-carbonate. 2% intrafolial graphite. Quartz veins at 60 dca.	TM24976	164.56	165.17	.61	.005
	164.56	165.17	QC Sample tm24977 - DUP : 0.00 g/tonne.					
	164.57		.35 m quartz-carbonate vein at 60 dca. .% associated pyrite. Lower core angle at 60 dca.					
	165.00		.15 m quartz-carbonate vein at 45 dca. 1% associated pyrite. Lower core angle at 35 dca					
	165.17		QC Sample tm24978 - B : 0.02 g/tonne.					
	165.17	166.25	Trace vein associated pyrite. 10% veins of quartz-carbonate. 3% stringers of calcite. 2% intrafolial graphite. Foliation at 55 dca. Quartz veins at 45 dca.	TM24979	165.17	166.25	1.08	.000
	165.39		Moderate to strong foliation at 55 dca.					
	165.45		.02 m quartz-carbonate vein at 60 dca. Lower core angle at 80 dca.					
	165.51		.06 m quartz-carbonate vein at 45 dca. 1% associated pyrite. Lower core angle at 70 dca					
	165.69		Quartz-carbonate stringer at 25 dca.					
	166.25	170.71	Massive flow with 2-3% contorted calcite stringers 2% quartz-calcite stringers. There is one large fractured quartz vein with quartz-calcite portions along the contact and along the fractures. There are also 1-2% chloritic patches and graphite stringers. There is one pyrite stringer of euhedral crystals.					
	166.25	167.46	3% stringers of quartz-carbonate. 3% anastomosing stringers of chlorite. Foliation at 65 dca.	TM24980	166.25	167.46	1.21	.005
	166.64		Quartz-carbonate stringer at 75 dca.					
	166.71		Quartz-carbonate stringer at 70 dca.					
	166.81		Moderate foliation at 65 dca.					
	167.45		.26 m quartz-carbonate vein at 75 dca. Lower core angle at 45 dca.					
	167.46	167.75	90% veins of quartz-carbonate. 5% vein associated chlorite. Quartz veins at 75 dca.	TM24981	167.46	167.75	.29	.105
	167.75	168.47	.5% stringers of pyrite. 10% veins of quartz-carbonate. 1% stringers of calcite.	TM24982	167.75	168.47	.72	.000
	167.85		Carbonate stringer at 10 dca.					
	168.33		.07 m quartz-carbonate vein at 45 dca. 10% associated chlorite. Lower core angle at 45					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			dca.					
168.47	169.46		2% anastomosing stringers of calcite.	TM24983	168.47	169.46	.99	.000
169.46	170.70		Trace intrafolial pyrrhotite. 1% stringers of quartz-carbonate. 2% anastomosing stringers of calcite. 1% stringers of chlorite.	TM24984	169.46	170.70	1.24	.000
169.74			Carbonate stringer at 70 dca.					
170.63			Quartz-carbonate stringer at 85 dca.					
170.70	171.02		70% veins of quartz-carbonate. .5% stringers of graphite. Quartz veins at 50 dca.	TM24985	170.70	171.02	.32	.010
170.71	171.75		This section has 20% quartz veins with later quartz-calcite stringers and veins along the contacts and fractures. There is 1% graphite within fractures and 1% calcite stringers.					
170.81			.12 m quartz vein at 45 dca. Lower core angle at 70 dca.					
170.94			.06 m quartz-carbonate vein at 50 dca. Lower core angle at 65 dca.					
171.02	171.75		10% veins of quartz-carbonate. 5% stringers of graphite. Quartz veins at 70 dca.	TM24986	171.02	171.75	.73	.255
171.53			.05 m quartz vein at 70 dca. Lower core angle at 40 dca.					
171.75	175.56		4% Quartz Vein. Hard, bright greyish-white, .00% total sulphides. Lower contact at 60 dca.					
171.75			2.91 m quartz vein at 40 dca..% associated pyrrhotite. 3% associated chlorite. Lower core angle at 55 dca.					
171.75	172.14		5% lenses of chlorite.	TM24987	171.75	172.14	.39	.000
			There is trace pyrrhotite and pyrite associated with the host rock within the veins. This zone is not one continuous quartz vein but a string of veins separated by up to 5cm host rock. The fragments within the veins are graphitic (banded) intimately associated with chloritic areas. These areas and the veins are crosscut by quartz- calcite stringers.					
171.75			Contact at 40 dca.					
172.14	172.69		5% fracture filling quartz-carbonate. Trace fracture filling chlorite.	TM24988	172.14	172.69	.55	.000
172.69	173.02		1% fracture filling quartz-carbonate. 2% lenses of chlorite.	TM24989	172.69	173.02	.33	.005
173.02	173.34		2% fracture filling quartz-carbonate. 5% lenses of chlorite.	TM24990	173.02	173.34	.32	.000
173.34	173.57		.5% fracture filling chlorite.	TM24991	173.34	173.57	.23	.000
173.57	173.73		1% fracture filling quartz-carbonate. 3% fracture filling chlorite.	TM24992	173.57	173.73	.16	.000
173.73	173.94		5% fracture filling quartz-carbonate. 5% lenses of chlorite.	TM24993	173.73	173.94	.21	.000
173.94	174.16		.5% fracture filling pyrrhotite. 50% veins of quartz. 1% fracture filling quartz-carbonate. 1% fracture filling chlorite.	TM24994	173.94	174.16	.22	.015
174.16	174.63		Trace vein associated pyrite. 10% lenses of quartz-carbonate. 3% lenses of chlorite. Quartz veins at 55 dca.	TM24995	174.16	174.63	.47	.015
174.63	174.86		55% veins of quartz. 2% fracture filling quartz-carbonate. 1% fracture filling chlorite	TM24996	174.63	174.86	.23	.010
174.73			.56 m quartz vein at 45 dca. 5% associated chlorite. Lower core angle at 65 dca.					
174.86	175.22		15% lenses of quartz-carbonate. 10% lenses of chlorite. Quartz veins at 65 dca.	TM24997	174.86	175.22	.36	.000
175.22	175.41		5% stringers of quartz. 5% intrafolial graphite.	TM24998	175.22	175.41	.19	.000
175.41			.15 m quartz vein at 60 dca. Lower core angle at 60 dca.					
175.41	175.56		1% fracture filling quartz-carbonate. Quartz veins at 60 dca.	TM24999	175.41	175.56	.15	.000
175.56	177.23		Weak to moderate graphitic alteration zone with areas of 2-3% graphite to 10% graphite. There are 10-15% quartz- calcite veins and 1% calcite-pyrite stringers. There is 1% pyrite associated with the veins as blebs.					
175.56			1.67 m alteration contact at 60 dca. 5% associated graphite. 1% associated pyrite. Lower core angle at 45 dca.					
175.56	175.88		.5% blebs of pyrrhotite. 5% stringers of quartz-carbonate. 5% intrafolial graphite.	TM25000	175.56	175.88	.32	.000
175.88			.16 m quartz-carbonate vein at 75 dca. Lower core angle at 40 dca.					
175.88	176.08		80% veins of quartz-carbonate. 5% lenses of chlorite. Quartz veins at 75 dca.	TM20281	175.88	176.08	.20	.015
176.08	176.64		15% veins of quartz-carbonate. 2% stringers of calcite. 10% intrafolial graphite. Quartz veins at 70 dca.	TM20282	176.08	176.64	.56	.000
176.35			.05 m quartz-carbonate vein at 70 dca. 2% associated pyrite. Lower core angle at 40 dca					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
176.53			Quartz-carbonate stringer at 25 dca.					
176.64	177.23		30% veins of quartz-carbonate. 1% stringers of calcite. 10% intrafolial graphite. Quartz veins at 80 dca.	TM20283	176.64	177.23	.59	.000
176.80			.13 m quartz-carbonate vein at 80 dca. Lower core angle at 55 dca.					
177.07			.03 m quartz-carbonate vein at 60 dca. Lower core angle at 60 dca.					
177.23	184.55		Blocky core from 177.47m to 179.10m and 181.70m to 182.50m. This section has 3% quartz veins and 5-10% quartz-calcite veins and stringers. The broken up core is highly fractured with wispy chloritic sections and banded silicified sections (almost fragments). There is 1% fracture fill and fine disseminated pyrite associated with the alteration. Trace chalcopyrite is also found with the disseminated pyrite. There are .5 to 1% graphite filled fractures and stringers.					
177.23	177.78		30% veins of quartz. 5% veins of quartz-carbonate. 5% lenses of chlorite.	TM20284	177.23	177.78	.55	.000
177.78	178.55		01% disseminated pyrrhotite. Trace disseminated chalcopyrite. 15% stringers of quartz-carbonate. 15% lenses of chlorite.	TM20285	177.78	178.55	.77	.000
177.78	178.55		QC Sample tm20286 - DUP : 0.00 g/tonne.					
178.55			QC Sample tm20287 - B : 0.00 g/tonne.					
178.55	179.52		15% stringers of quartz-carbonate. 15% lenses of chlorite.	TM20288	178.55	179.52	.97	.005
179.20			Carbonate stringer at 5 dca.					
179.52	180.22		10% veins of quartz. 10% stringers of quartz-carbonate. 1% stringers of graphite. Quartz veins at 50 dca.	TM20289	179.52	180.22	.70	.000
179.77			.06 m quartz vein at 50 dca. Lower core angle at 90 dca.					
180.22	181.16		2% veins of quartz. 10% stringers of quartz-carbonate. 2% stringers of graphite. Quartz veins at 65 dca.	TM20290	180.22	181.16	.94	.000
180.40			.01 m quartz vein at 65 dca.					
180.62			Quartz-carbonate stringer at 40 dca.					
181.16	181.48		Weak graphitic alteration zone (3%) with 5% quartz-calcite stringers and one pyrite stringer parallel to foliation.					
181.16			.32 m alteration contact 5% associated graphite.					
181.16	181.44		.5% stringers of pyrite. 10% stringers of quartz-carbonate. 10% intrafolial graphite.	TM20291	181.16	181.44	.28	.000
181.37			Pyrite stringer at 50 dca.					
181.44	181.68		90% veins of quartz-carbonate. 2% lenses of chlorite. Quartz veins at 45 dca.	TM20292	181.44	181.68	.24	.015
181.48			.17 m quartz-carbonate vein at 45 dca. Lower core angle at 45 dca.					
181.68	182.55		5% stringers of quartz-carbonate. 2% stringers of graphite. Foliation at 50 dca.	TM20293	181.68	182.55	.87	.025
182.55	183.56		5% stringers of quartz-carbonate. Foliation at 50 dca.	TM20294	182.55	183.56	1.01	.010
182.82			Carbonate stringer at 65 dca.					
182.97			Moderate foliation at 50 dca.					
183.28			Quartz-carbonate stringer at 80 dca.					
183.56	184.10		40% veins of quartz-carbonate.	TM20295	183.56	184.10	.54	.045
183.58			.09 m quartz-carbonate vein at 60 dca. Lower core angle at 60 dca.					
183.81			.03 m quartz vein at 60 dca. Lower core angle at 50 dca.					
184.01			.05 m quartz-carbonate vein at 55 dca. Lower core angle at 30 dca.					
184.10	184.53		Trace vein associated pyrrhotite. 5% stringers of quartz-carbonate. .5% stringers of graphite.	TM20296	184.10	184.53	.43	.005
184.53			.60 m quartz vein at 65 dca. Lower core angle at 55 dca.					
184.53	185.13		3% fracture filling quartz-carbonate. 1% fracture filling chlorite.	TM20297	184.53	185.13	.60	.010
184.55	186.52		1% Quartz Vein. Hard, bright greyish-white, trace disseminated pyrrhotite overall. Trace disseminated chalcopyrite overall. .1% total sulphides. Lower contact at 35 dca.					
			This is a quartz vein zone of two large veins separated by a section of host rock and 2 10-15cm veins. The veins go from 184.55m to 185.13m and 185.50m to 186.52m. The sulphides are not directly within the quartz but within mafic flow between the veins. The veins have quartz- calcite stringers and lenses forming along fractures (2-3%) as well as chloritic patches (<1%).					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
184.55			Contact at 65 dca.					
185.13	185.50		Trace disseminated pyrrhotite. Trace disseminated chalcopyrite. 50% veins of quartz. 3% stringers of quartz-carbonate. 1% fracture filling chlorite. Quartz veins at 50 dca.	TM20298	185.13	185.50	.37	.010
185.13	185.50		QC Sample tm20299 - DUP : 0.00 g/tonne.					
185.23			.08 m quartz-carbonate vein at 50 dca. Lower core angle at 50 dca.					
185.50			1.02 m quartz vein at 50 dca. Lower core angle at 35 dca.					
185.50			QC Sample tm20300 - B : 0.02 g/tonne.					
185.50	186.30		1% fracture filling quartz-carbonate. .5% fracture filling graphite. Quartz veins at 50 dca.	TM20301	185.50	186.30	.80	.065
186.30	186.52		25% stringers of quartz-carbonate. 2% lenses of chlorite.	TM20302	186.30	186.52	.22	.005
186.52	187.05		10% pervasive quartz. 1% stringers of quartz-carbonate. 3% lenses of chlorite.	TM20303	186.52	187.05	.53	.020
187.05	188.90		Quartz vein zone with 70% veins with the widest at 36cm. The veins are barren although there is trace pyrrhotite and chalcopyrite blebs within the wallrock between the veins. The rock between the veins almost appear to be fragments of weakly graphitic rock with a chloritic lens.					
187.05	187.42		Trace vein associated pyrrhotite. 85% veins of quartz. Trace fracture filling graphite. Quartz veins at 90 dca.	TM20304	187.05	187.42	.37	.000
187.05			.36 m quartz vein at 90 dca. .0% associated pyrrhotite. Lower core angle at 80 dca.					
187.42	188.20		Trace blebs of pyrrhotite. Trace blebs of chalcopyrite. 55% veins of quartz. 2% fracture filling quartz-carbonate. 5% lenses of chlorite. Quartz veins at 70 dca.	TM20305	187.42	188.20	.78	.030
187.52			.12 m quartz vein at 75 dca. Lower core angle at 45 dca.					
187.70			.09 m quartz vein at 70 dca.					
187.85	188.00		Broken up core.					
188.06			.06 m quartz vein at 60 dca. Lower core angle at 90 dca.					
188.20	188.63		Trace blebs of pyrrhotite. 80% veins of quartz. 3% stringers of quartz-carbonate. 5% lenses of chlorite. Quartz veins at 80 dca.	TM20306	188.20	188.63	.43	.000
188.23			.33 m quartz-carbonate vein at 80 dca. Lower core angle at 30 dca.					
188.63	188.94		75% veins of quartz. 5% fracture filling quartz-carbonate. .5% intrafolial graphite. Quartz veins at 50 dca.	TM20307	188.63	188.94	.31	.000
188.66			.24 m quartz-carbonate vein at 50 dca. Lower core angle at 50 dca.					
188.90	195.77		Massive mafic flow with 5% quartz-calcite veining and 1% chloritic stringers. There is a zone of contorted stringers crosscutting earlier graphite and calcite stringers. This zone ranges from 192.49m to 193.46m and has minor stringers of pyrrhotite.					
188.90	189.74		Very weak graphitic alteration (1%).					
188.94	189.75		Trace vein associated pyrrhotite. 10% pervasive quartz. 3% stringers of quartz-carbonate. 3% intrafolial graphite. Foliation at 50 dca.	TM20308	188.94	189.75	.81	.000
189.04			Quartz-carbonate stringer at 30 dca.					
189.20			Carbonate stringer at 50 dca.					
189.30			Moderate foliation at 50 dca.					
189.75	190.84		1% stringers of quartz-carbonate. .5% stringers of graphite. Foliation at 50 dca.	TM20309	189.75	190.84	1.09	.000
190.84	191.65		15% veins of quartz-carbonate. 1% stringers of graphite. Quartz veins at 60 dca.	TM20310	190.84	191.65	.81	.000
190.95			Quartz-carbonate stringer at 70 dca.					
191.43			.01 m quartz-carbonate vein at 60 dca.					
191.55			.05 m quartz-carbonate vein at 60 dca. Lower core angle at 70 dca.					
191.65	192.46		4% veins of quartz-carbonate. 1% stringers of graphite. Quartz veins at 45 dca.	TM20311	191.65	192.46	.81	.005
191.83			.03 m quartz-carbonate vein at 45 dca. Lower core angle at 35 dca.					
192.46	193.79		Trace stringers of pyrrhotite. 10% veins of quartz. 3% stringers of quartz-carbonate. 5% lenses of chlorite. Foliation at 20 dca. Quartz veins at 80 dca.	TM20312	192.46	193.79	1.33	.040
192.50			Quartz-carbonate stringer at 35 dca.					
192.56			.01 m quartz-carbonate vein at 40 dca.					
192.79			.02 m quartz-carbonate vein at 80 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
	192.90		.01 m quartz-carbonate vein at 30 dca.					
	193.53		.01 m quartz-carbonate vein at 60 dca.					
	193.68		Moderate foliation at 20 dca.					
	193.79	194.76	2% stringers of quartz-carbonate. 1% stringers of graphite. Foliation at 30 dca.	TM20313	193.79	194.76	.97	.000
	194.54		Moderate to strong foliation at 30 dca.					
	194.76	195.77	1% stringers of quartz-carbonate. 1% stringers of graphite. Foliation at 30 dca.	TM20314	194.76	195.77	1.01	.030
	194.96		Carbonate stringer at 10 dca.					
	195.77	197.71	Weak graphitic alteration zone with 2-3% intrafolial graphite. This zone is strongly foliated at 35 dca. There is 2-3% blebby vein associated and intrafolial pyrrhotite from 196m to 196.20m. The quartz vein from 196.20m to 196.50m is barren but has 20% quartz-calcite and calcite lenses and stringers within the fractures. There is a quartz vein from 197.05m to 197.42m which has 30% quartz-calcite stringers parallel to each other at 60 dca. The section from 197.42-197.71m has 2-5% pyrrhotite stringers within very chloritized rock with 5% graphite stringers and 5% quartz-calcite stringers.					
	195.77	196.21	2% blebs of pyrrhotite. 3% veins of quartz-carbonate. 5% stringers of graphite. Foliation at 35 dca.	TM20315	195.77	196.21	.44	.000
	195.77		1.94 m alteration contact at 35 dca. 3% associated graphite..% associated pyrrhotite. Lower core angle at 50 dca.					
	195.77	196.21	QC Sample tm20316 - DUP : 0.00 g/tonne.					
	196.10		Quartz-calcite-pyrrhotite stringer at 40 dca.					
	196.20		.30 m quartz vein at 70 dca. Lower core angle at 20 dca.					
	196.21		QC Sample tm20317 - B : 0.01 g/tonne.					
	196.21	196.50	10% stringers of quartz-carbonate. 5% lenses of chlorite. Quartz veins at 70 dca.	TM20318	196.21	196.50	.29	.000
	196.50	197.05	.5% stringers of pyrrhotite. 1% stringers of quartz-carbonate. 2% stringers of graphite. Foliation at 35 dca.	TM20319	196.50	197.05	.55	.000
	197.05		.36 m quartz vein at 25 dca. Lower core angle at 45 dca.					
	197.05	197.42	30% veins of quartz-carbonate. Trace vein associated fuchsite. Quartz veins at 25 dca.	TM20320	197.05	197.42	.37	.000
	197.42	197.77	1% stringers of pyrrhotite. 5% stringers of quartz-carbonate. 4% stringers of graphite. Foliation at 45 dca.	TM20321	197.42	197.77	.35	.000
	197.50		Quartz-calcite-pyrrhotite stringer at 35 dca.					
	197.59		Graphite-pyrrhotite stringer at 45 dca.					
	197.69		Graphite-pyrrhotite stringer at 55 dca.					
	197.71	200.44	This section is only moderately foliated with 3-5% quartz veins and 2-4% graphite and chlorite stringers with trace pyrrhotite.					
	197.77	198.18	30% veins of quartz-carbonate. 2% stringers of graphite. Quartz veins at 60 dca.	TM20322	197.77	198.18	.41	.005
	197.88		.12 m quartz vein at 60 dca. Lower core angle at 30 dca.					
	198.18	198.57	.5% stringers of pyrrhotite. 1% stringers of graphite. Foliation at 55 dca.	TM20323	198.18	198.57	.39	.000
	198.34		Graphite-pyrrhotite stringer at 45 dca.					
	198.57	199.47	1% stringers of quartz. .5% stringers of graphite. Foliation at 55 dca.	TM20324	198.57	199.47	.90	.030
	198.81		Quartz-carbonate stringer at 60 dca.					
	199.47	200.45	5% veins of quartz-carbonate. .5% stringers of graphite. Foliation at 55 dca. Quartz veins at 80 dca.	TM20325	199.47	200.45	.98	.010
	200.14		.07 m quartz-carbonate vein at 80 dca. Lower core angle at 80 dca.					
	200.34		Moderate foliation at 55 dca.					
	200.44	205.00	Trace pyrite with 1-2% quartz-calcite stringers.					
	200.45	201.50	2% stringers of quartz-carbonate. Foliation at 55 dca.	TM20326	200.45	201.50	1.05	.000
	200.91		Graphite-pyrrhotite stringer at 65 dca.					
	201.50	203.00	1% stringers of quartz-carbonate. Foliation at 60 dca.	TM20327	201.50	203.00	1.50	.000
	202.81		Foliation at 60 dca.					
	203.00		.01 m quartz-carbonate vein at 50 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
203.00	204.00		2% stringers of quartz-carbonate. Foliation at 60 dca.	TM20328	203.00	204.00	1.00	.000
204.00	205.00		2% stringers of quartz-carbonate. Foliation at 60 dca.	TM20329	204.00	205.00	1.00	.000
204.28			Carbonate stringer at 50 dca.					
204.70			Carbonate stringer at 65 dca.					
205.00	205.45		Graphitic alteration zone (10%), strongly foliated with 15% quartz-calcite and calcite stringers parallel to foliation. There is up to 1% blebby (2-5mm) pyrrhotite associated with this zone.					
205.00	205.45		2% stringers of quartz-carbonate. Foliation at 60 dca.	TM20330	205.00	205.45	.45	.000
205.00			.45 m alteration contact at 60 dca. 10% associated graphite. Lower core angle at 55 dca					
205.45	206.50		3% stringers of calcite. Foliation at 50 dca.	TM20331	205.45	206.50	1.05	.000
205.75			Moderate to strong foliation at 50 dca.					
206.50	208.84		Graphitic alteration zone with 5% graphite stringers and 1-2% quartz-calcite stringers. There is 1% blebby and stringers of pyrrhotite associated with the graphite and quartz-calcite stringers. There is also trace pyrite within the graphite.					
206.50	207.38		1% stringers of pyrrhotite. 5% veins of quartz-carbonate. 2% stringers of calcite. 5% stringers of graphite. Foliation at 50 dca. Quartz veins at 60 dca.	TM20332	206.50	207.38	.88	.000
206.50			.34 m alteration contact at 60 dca. 5% associated graphite. Lower core angle at 60 dca.					
206.50	207.38		QC Sample tm20333 - DUP : 0.01 g/tonne.					
206.58			.03 m carbonate vein at 60 dca. Lower core angle at 60 dca.					
206.88			Pyrrhotite stringer at 45 dca.					
207.38			QC Sample tm20334 - B : 0.00 g/tonne.	TM20335	207.38	207.75	.37	.000
207.38	207.75		1% stringers of quartz-carbonate. 2% stringers of graphite. Foliation at 50 dca.					
207.75	208.15		2% stringers of quartz-carbonate. 2% stringers of calcite. 5% stringers of graphite. Foliation at 40 dca.	TM20336	207.75	208.15	.40	.005
207.78			Graphite stringer at 45 dca.					
208.15	208.84		5% stringers of calcite. 1% stringers of graphite.	TM20337	208.15	208.84	.69	.010
208.40			Carbonate stringer at 5 dca.					
208.80			.01 m calcite-pyrrhotite vein at 70 dca.					
208.84	210.00		This section has up to 1% graphite stringers with 1-2% quartz-calcite stringers.					
208.84	209.87		5% stringers of calcite. 1% stringers of graphite.	TM20338	208.84	209.87	1.03	.000
209.87	211.14		4% pervasive quartz. 3% stringers of quartz-carbonate.	TM20339	209.87	211.14	1.27	.005
210.00	213.22		This section has 1-2% fractured pinkish quartz-calcite veins and 1% quartz-calcite stringers which crosscut the the earlier pink veins. There is trace pyrrhotite and chalcopyrite associated with the late stringers.					
211.14	212.27		5% veins of quartz-carbonate. 1% stringers of calcite.	TM20340	211.14	212.27	1.13	.000
211.31			.01 m quartz-carbonate vein at 55 dca.					
211.92			Quartz-carbonate stringer at 80 dca.					
211.99			.03 m quartz-carbonate vein at 85 dca. Lower core angle at 70 dca.					
212.12			Carbonate stringer at 25 dca.					
212.23			Quartz-carbonate stringer at 85 dca.					
212.27	213.22		.5% vein associated pyrrhotite. Trace vein associated chalcopyrite. 2% stringers of quartz-carbonate.	TM20341	212.27	213.22	.95	.010
212.62			Quartz-carbonate stringer at 25 dca. 1% associated pyrrhotite..% associated chalcopyrite.					
212.80			Quartz-calcite-pyrrhotite stringer at 25 dca.					
213.02			Carbonate stringer at 25 dca. .0% associated chalcopyrite.					

Date: 12 Dec, 1996

PLACER DOME CANADA LIMITED
MONETA PORCUPINE OPTION
DRILL HOLE RECORD

Page: 1 of 9

Northing: 10000
Easting: 8725
Surveyed: No

Drill Hole: 546-006
Hole Length: 184.94 metres

Collar Azi.: 330
Collar Dip: -45

Sperry Sun Tests
Depth Azi. Dip

Drilled by: Norex Drilling Limited
Drill type: 25
Core size: NQ
Date Started: August 6, 1996
Date Finished: August 8, 1996

NTS Reference: 42A/06

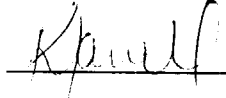
35.0 330 -44
101.0 336 -44
184.9 336 -43

Depth to Bedrock: 23m
Claim: P529973
Length per Claim: 185m

Core Samples: 98
Sludge Samples: 52
Sample Type: Au

Logged by: Kathy Farrell
Date Logging Started: August 24, 1996
Date Logging Finished: August 25, 1996
Geotechnical Log By: Michael De Luca

Material Left in Hole: Casing pulled, hole cemented.
Post Location: 54m west of 2 post of claim P529973
Purpose: Test western North Volcanics: IP & HLEM anomalies
Local Reference: 400m S of Murphy/Tisdale Twp Line & 460m W of Hwy 655
Core Storage: Returned to Moneta Porcupine Mines Inc.

Signature: 

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
.00	18.06	OVB	Assay values of 0.000 g/t represent less than 0.005 g/t or below the detection limit. OVERBURDEN Overburden.					
18.06	21.09	2A1	IRON THOLEIITE Iron Tholeiite. Texture - massive, and mottled. Hard, medium greyish brown green, very fine grained. Trace vein associated pyrrhotite overall. .01% total sulphides. The hole collared into this boulder then Lost Core 21.06m to 24m of core before true bedrock. The iron tholeiite has 3-4% chloritic stringers and veins creating the mottled texture. There was 26m of casing in this hole.					
21.09	51.10	10B	DIORITE Diorite. Texture - massive, and mottled. Moderately hard to hard, light greyish-green, medium to coarse grained. .00% total sulphides. Lower contact at 65 dca. 2% veins of quartz-carbonate. The hole was collared into this intrusive body. From 21.09 to 29.0m the core is blocky and has 2-3% quartz-calcite stringers. It is fine to medium grained up to 36.15m after which it is coarse grained. The rock changes from grey to greyish green depending on the grain size and alteration. It is greyish green within the mottled coarse grained section from 44.95m to 46.49m. The mottled texture is formed by recrystallized plagioclase and altered pyroxenes. The dyke becomes fine grained towards the lower contact and more grey than green in colour. 26.63 27.56 1% stringers of quartz-carbonate. 1% stringers of chlorite. 26.73 Quartz-carbonate stringer at 30 dca. 26.96 Quartz-carbonate stringer at 15 dca. 28.62 Chlorite stringer at 20 dca. 29.22 Quartz-carbonate stringer at 45 dca. 29.55 30.55 4% veins of quartz-carbonate. 30.00 .01 m quartz-carbonate vein at 30 dca. 30.50 Quartz-carbonate stringer at 40 dca. 31.94 33.00 3% stringers of quartz. 2% stringers of quartz-carbonate. 32.84 Quartz-carbonate stringer at 40 dca.	TM20342	26.63	27.56	.93	.000
				TM20343	29.55	30.55	1.00	.000
				TM20344	31.94	33.00	1.06	.085

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
			33.00 34.00 5% veins of quartz-carbonate. 33.30 Quartz-carbonate stringer at 20 dca. 33.64 .03 m quartz-carbonate vein at 15 dca. 35.87 Quartz-carbonate stringer at 25 dca. 40.56 Quartz chlorite stringer at 40 dca. 41.90 43.00 4% veins of quartz-carbonate. 42.75 Quartz-carbonate stringer at 20 dca. 46.00 47.00 2% veins of quartz-carbonate. 46.59 .01 m quartz-carbonate vein at 20 dca. 49.62 51.10 Diorite. Texture - brecciated, hard, medium brown grey green, fine grained. .00% total sulphides. Lower contact at 65 dca. Insitu brecciation of the dyke near the contact with the brecciated iron tholeiite. The brecciation was late since it affects both rock types similarly. The breccia matrix is chlorite although the entire unit has been silicified.	TM20345	33.00	34.00	1.00	.000
			49.62 Contact at 65 dca.	TM20346	41.90	43.00	1.10	.005
			49.62 Contact at 65 dca.	TM20347	46.00	47.00	1.00	.000
51.10	69.59	2A1	IRON THOLEIITE Iron Tholeiite. Texture - brecciated, and mottled. Hard, medium green, very fine grained trace fracture filling pyrite overall. Trace disseminated pyrrhotite overall. .01% total sulphides. Lower contact at 55 dca. Weak coatings of carbonatization. Strong pervasive silicification. 2% veins of quartz-carbonate.					
			51.10 59.14 This unit is insitu brecciated like the end of the above dyke. The chloritic matrix and the fragments are silicified. The upper contact is oxidized for 15cm. The matrix forms 3-10% of the rock depending on the degree of brecciation. There is also 2-3% late quartz-calcite stringers which occur within the matrix. They appear to rebrecciate the rock. The rock on either side of the stringers is silicified. There is trace pyrite associated with the larger chloritic zones.	TM20348	51.10	51.61	.51	.010
			51.10 51.61 2% stringers of quartz-carbonate. 1% anastomosing stringers of calcite. 51.44 Quartz-carbonate stringer at 55 dca. 51.61 52.07 3% anastomosing stringers of calcite. 80% pervasive chlorite. 52.21 Quartz-carbonate stringer at 50 dca. 53.12 Weak to moderate foliation at 65 dca. 54.51 55.51 Trace disseminated pyrrhotite. 2% stringers of quartz-carbonate. 55.51 55.97 .5% stringers of pyrrhotite. 5% stringers of quartz-carbonate. 20% veins of chlorite. 55.68 .03 m chlorite-calcite vein at 30 dca. 55.97 57.40 2% stringers of quartz-carbonate. 57.40 58.27 5% stringers of quartz-carbonate. 57.79 .01 m chlorite-calcite vein at 65 dca. 58.27 58.72 .5% stringers of pyrrhotite. 1% stringers of quartz-carbonate. 25% veins of chlorite. 58.50 Carbonate stringer at 40 dca. 58.72 59.74 5% stringers of quartz-carbonate. 3% stringers of chlorite.	TM20349	51.61	52.07	.46	.010
			59.14 65.70 This section is more massive with 2-3% chloritic fractures 1% quartz-calcite-chlorite stringers and 3-5% calcite halos around chlorite porphyroblasts and stringers. There is trace disseminated pyrrhotite associated with the quartz-calcite-chlorite stringer zones.	TM20350	54.51	55.51	1.00	.030
			59.74 60.85 Trace vein associated pyrrhotite. 2% stringers of quartz-carbonate. 2% coatings of calcite.	TM20351	55.51	55.97	.46	.000
			60.12 Quartz-carbonate stringer at 75 dca.	TM20352	55.97	57.40	1.43	.010
			60.85 62.02 Trace vein associated pyrrhotite. 5% stringers of quartz-carbonate. 2% coatings of	TM20353	57.40	58.27	.87	.000
				TM20354	58.27	58.72	.45	.010
				TM20355	58.72	59.74	1.02	.035
				TM20356	59.74	60.85	1.11	.010
				TM20357	60.85	62.02	1.17	.045

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
			calcite. Quartz-carbonate stringer at 20 dca.					
	60.93 62.02 62.89		.5% vein associated pyrrhotite. 5% stringers of quartz-carbonate. 1% coatings of calcite. 5% veins of chlorite.	TM20358	62.02	62.89	.87	.015
	62.20 62.89 64.44		Calcite chlorite stringer at 40 dca. .5% vein associated pyrrhotite. 3% stringers of quartz-carbonate. 4% coatings of calcite. 1% porphyroblastic chlorite.	TM20359	62.89	64.44	1.55	.000
	63.62 64.00		Quartz-calcite-pyrrhotite stringer at 65 dca. Quartz-carbonate stringer at 35 dca.					
	64.44 65.45		3% stringers of quartz-carbonate. 1% coatings of calcite. 1% porphyroblastic chlorite.	TM20360	64.44	65.45	1.01	.000
	65.45 66.44		Trace vein associated pyrrhotite. 5% stringers of quartz. 5% veins of quartz-carbonate. 1% coatings of calcite. 1% porphyroblastic chlorite.	TM20361	65.45	66.44	.99	.000
	65.70 68.07		Quartz vein zone (20%) with trace pyrrhotite. The quartz veins are early with gradational contacts with the rock. The quartz vein fades into a siliceous halo within the host rock. The earlier veins are crosscut and brecciated by later quartz-calcite stringers akin to those above.					
	65.71 66.23		.07 m quartz-carbonate vein at 50 dca. Lower core angle at 25 dca. Quartz-carbonate stringer at 30 dca..% associated pyrrhotite.					
	66.44 67.75		Trace vein associated pyrrhotite. 30% veins of quartz. 5% stringers of quartz-carbonate.	TM20362	66.44	67.75	1.31	.010
	66.44 67.75		QC Sample tm20363 - DUP : 0.00 g/tonne.					
	66.80 66.92		.01 m quartz-carbonate stringer at 25 dca. Quartz vein at 20 dca..% associated pyrrhotite.					
	67.38 67.50		.02 m quartz vein at 15 dca. .03 m quartz vein at 20 dca.					
	67.75 67.75 68.07		QC Sample tm20364 - B : 0.00 g/tonne. Trace disseminated pyrrhotite. 15% veins of quartz.	TM20365	67.75	68.07	.32	.015
	68.07 69.59		8% sericitized Iron Tholeiite. Texture - brecciated, moderately hard, light brownish-white, variable. 2% disseminated pyrite overall. .20% total sulphides. Lower contact at 55 dca.					
	68.07 68.87		2% vein associated pyrrhotite. 10% stringers of quartz. 1% stringers of graphite. This section is highly weathered and vuggy. The fragments of iron tholeiite are intensely sericitized up to the contact with the graphitic sediments. The unit is rust stained from the oxidized pyrite within the matrix. The breccia matrix is mainly graphitic with disseminated pyrite throughout. Note: This section has 50cm Lost Core core. Closer to the lower contact the rock becomes medium grey and more graphitic with 5-10% pyrite (oxidized).	TM20366	68.07	68.87	.80	.000
	68.07 68.87		There is 50cm Lost Core core within this sample length. Contact at 50 dca.					
	68.87 69.42		4% vein associated pyrrhotite. 3% stringers of quartz. 15% stringers of graphite.	TM20367	68.87	69.42	.55	.005
	69.42 69.59		5% vein associated pyrrhotite. 10% stringers of quartz. 10% stringers of graphite.	TM20368	69.42	69.59	.17	.000
69.59	72.48	6G	SLATE Slate. Texture - bedded, and brecciated. Soft to moderately hard, dark black, very fine grained. 3% stringers of pyrite overall. .30% total sulphides. Lower contact at 80 dca. This unit is graphitically altered slate. 69.59 70.10 This section has 5-10% pyrite stringers and 2-5mm blebs. The section closest to the breccia is partially oxidized.	TM20369	69.59	70.10	.51	.040
	69.59 70.10		10% stringers of pyrite. 25% intrafolial graphite.					
	69.70 69.80		Pyrite stringer at 80 dca. Pyrite stringer at 80 dca.					
	70.10 72.48		The rock becomes more grey towards the lower contact indicating a decreasing graphite					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			content. From 71.0m to 71.20m appears brecciated from the pyrite stringers and graphite alteration.					
	70.10	71.00	2% stringers of pyrite. 25% intrafolial graphite.	TM20370	70.10	71.00	.90	.000
	70.51		Pyrite stringer at 65 dca.					
	71.00	71.63	5% stringers of pyrite. 10% intrafolial graphite.	TM20371	71.00	71.63	.63	.000
	71.63	72.48	3% stringers of pyrite. 5% intrafolial graphite.	TM20372	71.63	72.48	.85	.000
72.48	184.94	6L	INTERBEDDED MUDSTONE AND ARGILLITE Interbedded mudstone and argillite. Texture - interbedded, and graded bedding. Moderately hard to hard, dark grey, variable. Trace stringers of pyrite overall. Trace vein associated pyrrhotite overall. Trace vein associated chalcopyrite overall. .1% total sulphides. 1% stringers of quartz-carbonate. Trace stringers of carbonate. The beds vary in width from up to 1cm to 1m (or more). There are minor zones of soft sediment deformation and kinking of beds. The graded bedding within the argillites suggests tops is down hole. 73.13 73.13 pyrite stringer at 75 dca.	TM20373	72.48	73.47	.99	.015
	72.48	73.47	1% stringers of pyrite. .5% stringers of quartz-carbonate. Foliation at 75 dca.					
	73.17		Axial plane at 65 dca.					
	73.47	74.44	1% stringers of pyrite. .5% stringers of quartz-carbonate. Foliation at 75 dca.	TM20374	73.47	74.44	.97	.000
	74.44	76.00	.5% stringers of pyrite. .5% stringers of quartz-carbonate. Foliation at 75 dca.	TM20375	74.44	76.00	1.56	.000
	76.00	77.00	Trace stringers of pyrite. 1% stringers of quartz-carbonate. Foliation at 75 dca.	TM20376	76.00	77.00	1.00	.000
	76.17		Pyrite stringer at 55 dca.					
	76.35		Quartz-carbonate stringer at 85 dca.					
	76.75		Foliation at 5 dca.					
	77.00	78.00	1% stringers of pyrite. 3% stringers of quartz-carbonate. Foliation at 75 dca.	TM20377	77.00	78.00	1.00	.000
	78.00	100.00	This section has 3-5% quartz-calcite stringers and veins crosscutting bedding in spots and is truncated in others. It appears there may be microfaults within the sediments along bedding planes which are later than the stringers.					
	78.00	79.00	1% stringers of pyrite. 3% stringers of quartz-carbonate. Foliation at 75 dca.	TM20378	78.00	79.00	1.00	.000
	78.73		Quartz-carbonate stringer at 90 dca.					
	78.98		Bedding at 60 dca.					
	79.00	80.00	.5% fracture filling pyrite. 1% stringers of quartz-carbonate. Foliation at 75 dca.	TM20379	79.00	80.00	1.00	.000
	79.36		Carbonate stringer at 65 dca.					
	79.49		Quartz-carbonate stringer at 70 dca.					
	79.49		Crosscutting quartz-carbonate stringer at 55 dca.					
	80.00	81.00	Trace stringers of pyrite. 1% stringers of quartz-carbonate. Foliation at 75 dca.	TM20380	80.00	81.00	1.00	.010
	80.30		Moderate foliation at 75 dca.					
	80.88		Bedding at 75 dca.					
	81.00	82.00	Trace fracture filling pyrite. 3% stringers of quartz-carbonate. Foliation at 75 dca.	TM20381	81.00	82.00	1.00	.000
	81.21	87.50	This section has 5-10% stringers and ladder veins from 85m to 87.4m. The ladder veins has trace blebs of pyrrhotite and chalcopyrite associated with them. The veins formed within deformed beds. Trace amounts of 1mm pyrite stringers crosscut these veins.					
	81.36		Quartz-carbonate stringer at 45 dca.					
	82.00	83.00	.5% blebs of pyrrhotite. 4% stringers of quartz-carbonate. 1% lenses of calcite. Foliation at 75 dca.	TM20382	82.00	83.00	1.00	.000
	82.07		Quartz-carbonate stringer at 35 dca.					
	82.76		Quartz-carbonate stringer at 55 dca.					
	82.85		Undulating bedding at 80 dca.					
	83.00	84.00	Trace blebs of chalcopyrite. 5% stringers of quartz-carbonate. Foliation at 75 dca.	TM20383	83.00	84.00	1.00	.005
	83.57		Quartz-carbonate stringer at 45 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
84.00	84.80		.5% fracture filling pyrite. 1% stringers of quartz-carbonate. Foliation at 75 dca.	TM20384	84.00	84.80	.80	.025
84.80	85.78		Trace vein associated pyrrhotite. Trace vein associated chalcopyrite. 10% veins of quartz-carbonate. Foliation at 75 dca.	TM20385	84.80	85.78	.98	.005
84.80	85.78		QC Sample tm20386 - DUP : 0.00 g/tonne.					
85.00			Quartz-carbonate stringer at 15 dca. 1% associated pyrrhotite.					
85.44			Quartz-carbonate stringer at 40 dca.					
85.50			.03 m ladder quartz-carbonate vein at 35 dca. 1% associated chalcopyrite. Lower core angle at 25 dca.					
85.66			.02 m quartz-carbonate vein at 30 dca.					
85.75			Moderate foliation at 65 dca.					
85.78			QC Sample tm20387 - B : 0.01 g/tonne.					
85.78	86.81		Trace stringers of pyrite. 3% stringers of quartz-carbonate. Foliation at 75 dca.	TM20388	85.78	86.81	1.03	.000
86.13			Pyrite stringer at 60 dca.					
86.13			Quartz-carbonate stringer at 45 dca..% associated pyrrhotite.					
86.62			Quartz-carbonate stringer at 35 dca.					
86.81	87.85		Trace fracture filling pyrite. Trace vein associated pyrrhotite. Trace vein associated chalcopyrite. 2% stringers of quartz-carbonate. Foliation at 65 dca.	TM20389	86.81	87.85	1.04	.000
87.20			Bedding at 50 dca.					
87.25			Quartz-carbonate stringer at 75 dca. 1% associated pyrrhotite.					
87.85	89.00		Trace stringers of pyrite. .5% stringers of quartz-carbonate. 1% lenses of calcite. Foliation at 60 dca.	TM20390	87.85	89.00	1.15	.000
88.00			Bedding at 55 dca.					
88.12			Pyrite stringer at 70 dca.					
89.23			Moderate foliation at 60 dca.					
89.36			Quartz-carbonate stringer at 75 dca.					
89.39			Bedding at 75 dca.					
90.40	91.50		Trace vein associated pyrrhotite. Trace vein associated chalcopyrite. 5% stringers of quartz-carbonate. Foliation at 65 dca.	TM20391	90.40	91.50	1.10	.000
90.97			Quartz-carbonate stringer at 55 dca.					
91.38			Bedding at 65 dca.					
92.22			Moderate foliation at 65 dca.					
93.45			Quartz-carbonate stringer at 35 dca.					
94.84	95.84		2% stringers of quartz-carbonate. Foliation at 70 dca.	TM20392	94.84	95.84	1.00	.000
94.88			Quartz-carbonate stringer at 45 dca.					
95.73			Quartz-carbonate stringer at 50 dca.					
96.76			Foliation at 5 dca.					
96.95			Bedding at 80 dca.					
97.27			Pyrrhotite stringer at 75 dca.					
98.00	99.00		Trace vein associated pyrrhotite. Trace vein associated chalcopyrite. 3% stringers of quartz-carbonate. Foliation at 70 dca.	TM20393	98.00	99.00	1.00	.000
98.48			Quartz-carbonate stringer at 60 dca. 1% associated pyrite.					
98.54			Bedding at 45 dca.					
99.46			Bedding at 50 dca.					
101.02			Bedding at 70 dca.					
101.99			Bedding at 50 dca.					
102.10			Moderate foliation at 40 dca.					
103.00	104.00		Trace stringers of pyrite. 2% stringers of quartz-carbonate. Foliation at 75 dca.	TM20394	103.00	104.00	1.00	.000
103.34			Quartz-carbonate stringer at 35 dca.					
105.61			Moderate foliation at 75 dca.					
106.49			Quartz-carbonate stringer at 80 dca.					
107.12			Quartz-carbonate stringer at 70 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
			107.33 Bedding at 55 dca.					
			107.41 Pyrite stringer at 60 dca.					
			107.70 Moderate foliation at 70 dca.					
			108.29 Carbonate stringer at 70 dca.					
			108.46 109.00 .5% vein associated pyrite. 2% veins of calcite. Foliation at 75 dca.	TM20395	108.46	109.00	.54	.000
			108.67 Carbonate vein at 45 dca..% associated pyrite.					
			111.00 111.76 1% stringers of quartz-carbonate. 1% stringers of calcite. Foliation at 65 dca.	TM20396	111.00	111.76	.76	.000
			111.61 Bedding at 75 dca.					
			111.76 112.77 Trace fracture filling pyrite. Trace vein associated pyrrhotite. 4% stringers of quartz-carbonate. Foliation at 65 dca.	TM20397	111.76	112.77	1.01	.000
			112.06 Quartz-calcite-pyrrhotite stringer at 45 dca.					
			112.30 Moderate foliation at 65 dca.					
			113.43 Bedding at 80 dca.					
			113.69 Quartz-carbonate stringer at 55 dca.					
			115.00 116.00 Trace blebs of pyrrhotite. 1% stringers of quartz-carbonate. Foliation at 65 dca.	TM20398	115.00	116.00	1.00	.000
			115.26 Quartz-carbonate stringer at 60 dca.					
			116.00 117.00 .5% stringers of quartz-carbonate. Foliation at 65 dca.	TM20399	116.00	117.00	1.00	.005
			116.85 Bedding at 65 dca.					
			117.00 119.00 There is 5-10% quartz-calcite veins with 10% sericite within the veins and trace chalcopyrite. From 100m to 140m there are 1-2% quartz-calcite stringers with trace amounts of pyrrhotite and chalcopyrite. There are also up to 1% pyrite stringers within this section of the unit. There is trace amounts of recrystallized pyrite cubes within the seds from 148m to 154m. They range in size from 2-5mm. At this point the beds have become larger and coarser grained at the bottom.					
			117.00 118.20 1% vein associated pyrrhotite. .5% vein associated chalcopyrite. 3% stringers of quartz-carbonate. Foliation at 65 dca.	TM20400	117.00	118.20	1.20	.000
			117.65 Quartz-calcite-pyrrhotite stringer at 50 dca..% associated chalcopyrite.					
			117.77 Moderate foliation at 65 dca.					
			118.20 119.00 Trace vein associated chalcopyrite. 10% veins of quartz-carbonate. 5% vein associated serpentine. Foliation at 65 dca. Quartz veins at 70 dca.	TM20401	118.20	119.00	.80	.000
			118.20 119.00 QC Sample tm20402 - DUP : 0.00 g/tonne.					
			118.30 Bedding at 65 dca.					
			118.60 .02 m quartz-carbonate vein at 45 dca. 10% associated serpentine.					
			118.67 .01 m quartz-carbonate vein at 70 dca. 10% associated serpentine..% associated chalcopyrite.					
			118.71 .04 m quartz-carbonate vein at 65 dca.					
			119.00 QC Sample tm20403 - B : 0.00 g/tonne.	TM20404	119.00	120.00	1.00	.020
			119.00 120.00 1% stringers of quartz-carbonate. Foliation at 65 dca.					
			119.47 Quartz-carbonate stringer at 20 dca.					
			120.00 120.46 1% stringers of quartz-carbonate. Foliation at 65 dca.	TM20405	120.00	120.46	.46	.000
			120.46 121.50 5% veins of quartz-carbonate. 1% stringers of calcite. Trace vein associated fuchsite. Foliation at 65 dca. Quartz veins at 65 dca.	TM20406	120.46	121.50	1.04	.015
			120.90 .04 m quartz-carbonate vein at 65 dca..% associated fuchsite. Lower core angle at 80 dca.					
			121.07 Quartz-carbonate stringer at 85 dca.					
			121.50 122.50 Trace blebs of pyrite. 2% stringers of quartz-carbonate. Foliation at 65 dca.	TM20407	121.50	122.50	1.00	.000
			121.96 Quartz-carbonate stringer at 45 dca.					
			122.50 123.50 1% stringers of quartz-carbonate. Foliation at 65 dca.	TM20408	122.50	123.50	1.00	.000
			122.77 Quartz-carbonate stringer at 50 dca.					
			123.50 124.00 1% stringers of quartz-carbonate. Foliation at 65 dca.	TM20409	123.50	124.00	.50	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			123.71 Quartz-carbonate stringer at 10 dca.					
			124.00 125.00 Trace stringers of pyrite. 3% stringers of quartz-carbonate. Foliation at 85 dca.	TM20410	124.00	125.00	1.00	.000
			124.06 Pyrite stringer at 55 dca.					
			124.55 Quartz-calcite-pyrite stringer at 45 dca.					
			124.88 Quartz-carbonate stringer at 75 dca.					
			127.00 127.60 5% veins of quartz-carbonate. Foliation at 85 dca.	TM20411	127.00	127.60	.60	.000
			127.06 Moderate foliation at 85 dca.					
			127.29 .02 m quartz-carbonate vein at 80 dca.					
			128.91 Bedding at 75 dca.					
			129.50 130.50 3% stringers of quartz-carbonate. Foliation at 75 dca.	TM20412	129.50	130.50	1.00	.075
			130.50 131.50 Trace vein associated pyrrhotite. 3% stringers of quartz-carbonate. Foliation at 75 dca	TM20413	130.50	131.50	1.00	.020
			130.52 Quartz-carbonate stringer at 60 dca.					
			131.14 Quartz-calcite-pyrrhotite stringer at 75 dca.					
			131.23 Moderate foliation at 75 dca.					
			131.28 Bedding at 75 dca.					
			131.59 Quartz-carbonate stringer at 30 dca.					
			132.31 .01 m quartz-carbonate vein at 75 dca.					
			132.60 Bedding at 70 dca.					
			134.57 Moderate foliation at 70 dca.					
			134.84 Bedding at 60 dca.					
			135.00 136.00 Trace stringers of pyrite. 4% veins of quartz-carbonate. Foliation at 70 dca.	TM20414	135.00	136.00	1.00	.100
			135.13 .02 m quartz-carbonate vein at 60 dca..% associated pyrite.					
			135.41 .01 m quartz-carbonate vein at 70 dca. 1% associated pyrite.					
			136.00 137.00 5% vein associated pyrrhotite. 5% veins of quartz-carbonate. Foliation at 70 dca.	TM20415	136.00	137.00	1.00	.000
			Quartz veins at 80 dca.					
			136.80 .05 m quartz vein at 80 dca. 5% associated pyrrhotite. Lower core angle at 65 dca.					
			137.00 138.00 Trace vein associated pyrrhotite. 5% stringers of quartz-carbonate. Foliation at 70 dca	TM20416	137.00	138.00	1.00	.335
			137.09 Bedding at 70 dca.					
			137.55 Quartz-calcite-pyrrhotite stringer at 60 dca.					
			138.00 139.00 .5% stringers of quartz-carbonate. Foliation at 70 dca.	TM20417	138.00	139.00	1.00	.015
			139.00 140.00 5% veins of quartz-carbonate. Foliation at 70 dca. Quartz veins at 50 dca.	TM20418	139.00	140.00	1.00	.295
			139.34 .03 m quartz-carbonate vein at 50 dca. Lower core angle at 40 dca.					
			139.63 Bedding at 75 dca.					
			139.88 Moderate foliation at 70 dca.					
			140.00 141.28 1% stringers of quartz-carbonate. Foliation at 70 dca.	TM20419	140.00	141.28	1.28	.015
			141.28 141.66 35% veins of quartz-carbonate. 10% vein associated serpentine. Foliation at 70 dca.	TM20420	141.28	141.66	.38	.020
			Quartz veins at 85 dca.					
			141.43 .10 m quartz-carbonate vein at 85 dca. 10% associated serpentine. Lower core angle at 75 dca.					
			143.09 Moderate foliation at 80 dca.					
			143.50 144.00 Trace euhedral crystals of pyrite. .5% stringers of quartz-carbonate. Foliation at 80 dca.	TM20421	143.50	144.00	.50	.010
			143.94 Axial plane at 85 dca.					
			144.70 Quartz-carbonate stringer at 85 dca.					
			146.34 Moderate foliation at 70 dca.					
			146.82 148.00 Trace euhedral crystals of pyrite. 10% veins of quartz-carbonate. Foliation at 70 dca.	TM20422	146.82	148.00	1.18	.030
			Quartz veins at 85 dca.					
			146.82 148.00 QC Sample tm20423 - DUP : 0.01 g/tonne.					
			147.13 Bedding at 70 dca.					
			147.38 .01 m quartz-carbonate vein at 85 dca.					
			147.50 .05 m quartz-carbonate vein at 75 dca. Lower core angle at 60 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			147.65 .03 m quartz-carbonate vein at 60 dca.					
			148.00 QC Sample tm20424 - B : 0.04 g/tonne.					
			148.00 149.50 Trace euhedral crystals of pyrite. 1% stringers of quartz-carbonate. Foliation at 70 dca.	TM20425	148.00	149.50	1.50	.020
			149.50 150.53 .5% stringers of quartz-carbonate. 4% stringers of calcite.					
			149.85 Axial plane at 80 dca.	TM20426	149.50	150.53	1.03	.025
			150.97 Quartz-carbonate stringer at 70 dca. .0% associated pyrite.					
			152.30 Bedding at 60 dca.					
			152.49 153.00 Trace vein associated pyrite. 15% veins of quartz-carbonate. Foliation at 80 dca.	TM20427	152.49	153.00	.51	.010
			152.74 Quartz veins at 70 dca.					
			152.74 .05 m quartz-carbonate vein at 70 dca. .0% associated pyrite. Lower core angle at 85 dca.					
			154.13 Moderate foliation at 80 dca.					
			154.46 155.00 3% stringers of quartz-carbonate. Foliation at 80 dca.	TM20428	154.46	155.00	.54	.025
			154.70 Quartz-carbonate stringer at 20 dca.					
			155.00 156.00 2% veins of quartz-carbonate. Foliation at 80 dca. Quartz veins at 80 dca.	TM20429	155.00	156.00	1.00	.025
			155.50 .01 m quartz-carbonate vein at 80 dca.					
			156.18 Quartz-carbonate stringer at 70 dca.					
			157.06 Bedding at 70 dca.					
			157.72 Weak to moderate foliation at 80 dca.					
			159.50 160.22 1% stringers of quartz. 1% stringers of serpentine. Foliation at 75 dca.	TM20430	159.50	160.22	.72	.010
			159.59 Moderate foliation at 75 dca.					
			159.78 Quartz-carbonate stringer at 35 dca.					
			161.97 Bedding at 75 dca.					
			163.70 Quartz-carbonate stringer at 80 dca.					
			164.80 Bedding at 70 dca.					
			166.00 167.00 1% stringers of quartz. Foliation at 70 dca.	TM20431	166.00	167.00	1.00	.000
			166.52 Moderate foliation at 70 dca.					
			167.52 Bedding at 75 dca.					
			168.33 Moderate foliation at 80 dca.					
			169.00 169.50 3% stringers of quartz. Foliation at 80 dca.	TM20432	169.00	169.50	.50	.000
			169.96 Axial plane at 70 dca.					
			170.42 Quartz-carbonate stringer at 85 dca.					
			170.52 Quartz-carbonate stringer at 90 dca.					
			170.72 Bedding at 85 dca.					
			171.91 Bedding at 75 dca.					
			172.50 173.50 1% stringers of quartz. Foliation at 75 dca.	TM20433	172.50	173.50	1.00	.000
			172.85 Quartz-carbonate stringer at 80 dca.					
			173.50 174.50 2% stringers of quartz. Foliation at 75 dca.	TM20434	173.50	174.50	1.00	.015
			173.66 Moderate foliation at 75 dca.					
			174.50 175.50 5% stringers of quartz. Foliation at 75 dca.	TM20435	174.50	175.50	1.00	.015
			174.63 Quartz-carbonate stringer at 65 dca.					
			175.03 .01 m quartz-carbonate vein at 85 dca.					
			175.38 Quartz-carbonate stringer at 85 dca.					
			176.29 Quartz-carbonate stringer at 75 dca.					
			176.49 Moderate foliation at 75 dca.					
			178.00 179.00 3% stringers of quartz. Foliation at 75 dca.	TM20436	178.00	179.00	1.00	.000
			178.08 Bedding at 80 dca.					
			178.40 .01 m quartz-carbonate vein at 80 dca.					
			178.80 Quartz-carbonate stringer at 90 dca.					
			179.00 180.00 Trace stringers of pyrite. 3% stringers of quartz. Foliation at 75 dca.	TM20437	179.00	180.00	1.00	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			179.64 Quartz-calcite-pyrrhotite stringer at 30 dca.					
			179.77 .05 m quartz-carbonate vein at 80 dca.					
			180.00 181.00 1% stringers of quartz. Foliation at 70 dca.	TM20438	180.00	181.00	1.00	.000
			180.79 Quartz-carbonate stringer at 15 dca.					
			181.00 182.00 3% veins of quartz. Foliation at 70 dca.	TM20439	181.00	182.00	1.00	.010
			181.40 .01 m quartz-carbonate vein at 70 dca.					
			181.52 Quartz-carbonate stringer at 35 dca.					
			182.43 Moderate foliation at 70 dca.					
			182.63 Quartz-carbonate stringer at 30 dca.					
			183.64 Bedding at 65 dca.					

Date: 12 Dec, 1996

PLACER DOME CANADA LIMITED
MONETA PORCUPINE OPTION
DRILL HOLE RECORD

Page: 1 of 15

Northing: 9850
Easting: 8820
Surveyed: No

Drill Hole: 546-007
Hole Length: 269.00 metres

Collar Azi.: 330
Collar Dip: -45

Sperry Sun Tests
Depth Azi. Dip

Drilled by: Norex Drilling Limited
Drill type: 25
Core size: NQ
Date Started: August 9, 1996
Date Finished: August 14, 1996

NTS Reference: 42A/06

62.0 337 -47
161.0 338 -47
269.0 335 -44

Depth to Bedrock: 51m

Claim: Patent 3081W+T and claims P529974 and P529973
Length per Claim: 113m in 3081W+T, 144m in P529974 & 12m in P529973
Material Left in Hole: Casing pulled, hole cemented.
Post Location: 43m east and 150m south of 1 post of claim P529974
Purpose: Test western portion of North Volcanic Package
Local Reference: 550m S of Murphy/Tisdale Twp Line & 315m W of Hwy 655
Core Storage: Returned to Moneta Porcupine Mines Inc.

Core Samples: 163
Sludge Samples: 30
Sample Type: Au

Logged by: Kathy Farrell
Date Logging Started: August 26, 1996
Date Logging Finished: August 28, 1996
Geotechnical Log By: Michael De Luca

Signature: 

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
.00	50.65	OVB	Assay values of 0.000 g/t represent less than 0.005 g/t or below the detection limit. OVERBURDEN Overburden.					
50.65	51.00	BLD	BOULDER Boulder. This hole has 51m casing and collared into extremely weathered rock (under a cedar swamp). There is a total of 8.55m of lost/ground core between 51m and 72m. This section is very blocky.					
51.00	54.69	2B	MAFIC PYROCLASTIC Crystal tuff Mafic Pyroclastic. Texture - schistose, soft, pale yellowish-grey, variable. .00% total sulphides. Strong pervasive sericitization. 25% veins of quartz. The sericitization is more intense at the top of the hole. The rock is very blocky and brown from mud. There is a barren quartz vein from 53.75 to 54.56m. 51.00 53.00 2.4m Lost Core core.	TM20440	51.00	53.00	2.00	.000
			51.00 53.00 50% pervasive serpentine. Foliation at 50 dca. 53.00 53.75 40% pervasive serpentine. Foliation at 50 dca. 53.63 Very strong foliation at 50 dca. 53.75 .81 m quartz vein.	TM20441	53.00	53.75	.75	.000
			53.75 54.69 QC Sample tm20443 - DUP : 0.00 g/tonne.	TM20442	53.75	54.69	.94	.000
54.69	60.10	2B	MAFIC PYROCLASTIC Tuffaceous Mafic Pyroclastic. Texture - blocky, moderately hard to hard, very dark brownish grey, very fine grained. .00% total sulphides. Very strong interstitial carbonatization. Trace stringers of quartz-carbonate. This unit may be an ash tuff although bedding is not apparent. The rock is very weathered and over 2m of core loss occurred within this unit therefore not much can be seen.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			54.69 QC Sample tm20444 - B : 0.00 g/tonne.	TM20445	54.69	55.99	1.30	.000
			54.69 55.99 .5% stringers of quartz-carbonate. 25% interstitial calcite.					
			55.99 57.00 25% interstitial calcite.	TM20446	55.99	57.00	1.01	.005
			57.00 58.00 25% interstitial calcite.	TM20447	57.00	58.00	1.00	.000
			59.73 Quartz-carbonate stringer at 60 dca.					
60.10	72.13	2A3	MAGNESIUM BASALT Altered Magnesium Basalt. Texture - blocky, moderately hard, light brownish grey, fine grained .00% total sulphides. Moderate pervasive sericitization. 2% veins of quartz. This unit is very weathered and bleached and is most like the underlying pillowed mafic volcanic. No selvages are visible within this unit. The weathered portions are more sericitic than the remainder. There is one broken up quartz vein at 62.10m which may have been 5cm long.					
			62.00 65.00 2.5m Lost Core core in sample.	TM20448	62.00	65.00	3.00	.020
			62.00 65.00 5% veins of quartz. Foliation at 65 dca.					
			66.34 67.20 Foliation at 65 dca.	TM20449	66.34	67.20	.86	.000
			66.43 Moderate to strong foliation at 65 dca.					
			69.00 70.00 10% intrafolial serpentine. Foliation at 65 dca.	TM20450	69.00	70.00	1.00	.000
			71.81 Strong foliation at 55 dca.					
72.13	96.21	2A3	MAGNESIUM BASALT Magnesium Basalt. Texture - pillowed, and variolitic. Moderately hard to hard, light greyish-green, fine grained. .00% total sulphides. Lower contact at 65 dca. Strong flooded silicification. 3% veins of quartz. 3% stringers of quartz-carbonate. The pillows range from 30cm to 1m in diameter with densely packed varioles at the centre and thinning out towards the edge. The selvages are more chloritic than the rest of the pillow. There are two types of quartz veining. The first is younger with sharp contacts with the host rock. The second have silicified halos around them and are more opaque. There are minor (2%) zones of carbonatization which appear more grey than the surrounding rock. 75.05 75.05 quartz-carbonate stringer at 70 dca.					
			74.98 76.00 3% veins of quartz. 2% stringers of quartz-carbonate. Foliation at 55 dca.	TM20451	74.98	76.00	1.02	.010
			75.69 Quartz-carbonate stringer at 20 dca.					
			75.90 Quartz-carbonate stringer at 5 dca.					
			76.00 77.00 3% veins of quartz. 2% stringers of quartz-carbonate. Foliation at 55 dca.	TM20452	76.00	77.00	1.00	.000
			76.36 .01 m quartz vein at 15 dca.					
			77.00 78.00 3% stringers of quartz-carbonate. Foliation at 55 dca.	TM20453	77.00	78.00	1.00	.000
			78.00 Quartz-carbonate stringer at 90 dca.					
			78.35 Weak to moderate foliation at 55 dca.					
			78.77 Quartz-carbonate stringer at 45 dca.					
			79.45 Quartz-carbonate stringer at 40 dca.					
			79.50 80.50 5% stringers of quartz-carbonate.	TM20454	79.50	80.50	1.00	.090
			79.64 Quartz-carbonate stringer at 60 dca.					
			82.25 Quartz-carbonate stringer at 75 dca.					
			82.50 83.50 10% pervasive quartz. 5% veins of quartz-carbonate.	TM20455	82.50	83.50	1.00	.010
			82.68 .03 m quartz vein at 80 dca. Lower core angle at 75 dca.					
			83.15 Quartz stringer at 60 dca.					
			83.69 Quartz-carbonate stringer at 25 dca.					
			86.00 87.00 2% stringers of quartz. 3% stringers of quartz-carbonate. Foliation at 60 dca.	TM20456	86.00	87.00	1.00	.005
			86.24 Quartz-carbonate stringer at 20 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			86.48 Quartz-carbonate stringer at 45 dca. 86.72 Weak to moderate foliation at 60 dca. 87.00 88.00 3% flooded quartz. Foliation at 60 dca. 87.57 .01 m quartz vein at 40 dca. 88.54 Quartz-carbonate stringer at 20 dca. 89.22 Quartz-carbonate stringer at 15 dca. 89.62 90.10 3% anastomosing stringers of quartz-carbonate. 91.93 Weak to moderate foliation at 50 dca. 92.30 Quartz-carbonate stringer at 10 dca. 92.87 93.93 10% flooded quartz. 2% stringers of quartz-carbonate. Foliation at 65 dca. 93.71 Quartz-carbonate stringer at 65 dca. 93.93 95.00 10% pervasive quartz. 3% stringers of quartz-carbonate. Foliation at 65 dca. 94.21 Weak to moderate foliation at 65 dca. 95.00 96.21 This section is more chloritic than the rest of the unit. There are 5% quartz veins and 5% quartz-calcite stringers. 95.00 96.21 06% veins of quartz. 3% stringers of quartz-carbonate. Foliation at 65 dca.	TM20457	87.00	88.00	1.00	.000
			95.16 .02 m quartz vein at 70 dca. 95.52 .01 m quartz vein at 65 dca. 95.84 .02 m quartz-carbonate vein at 35 dca. 96.13 Quartz-carbonate stringer at 65 dca.	TM20458	89.62	90.10	.48	.010
				TM20459	92.87	93.93	1.06	.000
				TM20460	93.93	95.00	1.07	.000
				TM20461	95.00	96.21	1.21	.005
96.21	108.09	2A1	IRON THOLEIITE Iron Tholeiite. Texture - mottled, moderately hard to hard, medium green, very fine grained .00% total sulphides. Lower contact at 70 dca. Weak coatings of carbonatization. Moderate patchy silicification. 5% stringers of quartz. 2% stringers of quartz-carbonate. This unit has sharp upper and lower contact. There is 1% patchy carbonatization and calcite coatings on porphyroblasts. The quartz stringers are randomly oriented and crosscut older quartz-calcite stringers which are generally perpendicular to the core axis. The rock changes to a more massive medium grained iron tholeiite at the lower contact.	TM20462	96.21	97.00	.79	.000
			96.21 97.00 5% stringers of quartz. 2% stringers of quartz-carbonate. 2% interstitial calcite. Foliation at 55 dca.					
			96.41 Quartz-carbonate stringer at 65 dca. 96.84 Quartz-carbonate stringer at 30 dca.					
			97.00 98.00 3% stringers of quartz. 1% stringers of quartz-carbonate. 1% stringers of chlorite. Foliation at 55 dca.	TM20463	97.00	98.00	1.00	.005
			98.00 99.00 3% stringers of quartz. 3% veins of quartz-carbonate. 1% stringers of chlorite. Foliation at 55 dca.	TM20464	98.00	99.00	1.00	.000
			98.00 99.00 QC Sample tm20465 - DUP : 0.00 g/tonne. 98.23 Weak foliation at 55 dca. 99.00 QC Sample tm20466 - B : 0.01 g/tonne.					
			101.30 102.35 5% stringers of quartz. 2% stringers of quartz-carbonate. 1% coatings of calcite. 102.00 .04 m quartz-carbonate vein at 50 dca. Lower core angle at 70 dca.	TM20467	101.30	102.35	1.05	.000
			105.34 105.71 2% stringers of quartz. 5% stringers of quartz-carbonate. 105.56 Quartz stringer at 15 dca.	TM20468	105.34	105.71	.37	.000
			107.02 108.09 2% stringers of quartz-carbonate. 107.40 Chlorite stringer at 45 dca. 107.84 Quartz stringer at 65 dca.	TM20469	107.02	108.09	1.07	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
108.09	122.67	2A1	108.01 .01 m quartz vein at 80 dca. IRON THOLEIITE Iron Tholeiite. Texture - massive, and foliated. Moderately hard to hard, medium brownish-green, variable. .00% total sulphides. Lower contact at 65 dca. Weak crystals of carbonatization. Moderate to strong pervasive silicification. 1% stringers of quartz-carbonate. This unit is a fine to coarse grained version of the above rock which has been pervasively silicified. The patchy appearance of the rock is due to the alteration. It gets finer grained towards the lower contact and it is more (5%) carbonatized than silicified. The calcite occurs as 2-5mm patches. (From 122m to 122.67m.).					
			108.22 Quartz-carbonate stringer at 70 dca. 108.37 Weak foliation at 45 dca.	TM20470	109.03	110.00	.97	.000
			109.03 110.00 35% pervasive quartz. 1% stringers of quartz-carbonate. Foliation at 55 dca.					
			110.93 Quartz-carbonate stringer at 70 dca. 112.40 Quartz stringer at 30 dca. 112.59 Quartz-carbonate stringer at 80 dca. 112.77 Weak foliation at 55 dca. 114.17 Weak to moderate foliation at 50 dca.					
			114.54 115.50 12% flooded quartz. 4% pervasive quartz-carbonate. Foliation at 50 dca.	TM20471	114.54	115.50	.96	.000
			115.38 Quartz-carbonate stringer at 70 dca. 117.38 Quartz-carbonate stringer at 50 dca.					
			117.53 118.09 10% flooded quartz. 1% stringers of quartz-carbonate. Foliation at 60 dca.	TM20472	117.53	118.09	.56	.000
			117.89 Moderate foliation at 60 dca. 118.06 Quartz-carbonate stringer at 35 dca.					
			118.09 119.00 5% pervasive quartz. .5% stringers of quartz-carbonate. 2% patchy calcite. Foliation at 60 dca.	TM20473	118.09	119.00	.91	.000
			118.62 Quartz-carbonate stringer at 40 dca.					
			119.00 120.00 10% pervasive quartz. 1% stringers of quartz-carbonate. Foliation at 60 dca.	TM20474	119.00	120.00	1.00	.000
			119.69 Quartz-carbonate stringer at 80 dca. 120.91 Weak to moderate foliation at 65 dca.					
			121.38 122.00 2% pervasive quartz. 3% veins of quartz-carbonate. Foliation at 50 dca.	TM20475	121.38	122.00	.62	.060
			121.61 .01 m quartz-carbonate vein at 70 dca.					
			122.00 122.48 1% stringers of quartz-carbonate. 10% patchy calcite. Foliation at 50 dca.	TM20506	122.00	122.48	.48	.010
			122.27 Moderate foliation at 50 dca.					
122.67	181.00	2A1	IRON THOLEIITE Iron Tholeiite. Texture - mottled, moderately hard to hard, medium green, variable. .5% stringers of pyrrhotite overall. Trace blebs of chalcopyrite overall. .5% total sulphides. Lower contact at 45 dca. Moderate flooded silicification. This unit is variable in the sense that alteration fades in and out and changes itself. The least altered sections are greenish grey with 2-3% quartz-calcite stringers and 1-2% chlorite stringers throughout the rock (like they are filling fractures). 122.96 122.96 quartz-carbonate stringer at 65 dca.	TM20507	122.84	123.68	.84	.010
			122.84 123.68 5% stringers of quartz-carbonate. Foliation at 50 dca.					
			123.52 Quartz-carbonate stringer at 45 dca. 123.59 Quartz-carbonate stringer at 55 dca. 123.80 Quartz-carbonate stringer at 80 dca. 124.08 Quartz-carbonate stringer at 60 dca. 125.78 Quartz-calcite-chlorite stringer at 40 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
128.75	144.00		This section is more medium green with mottled alteration. There is 2-3% patchy (2-5mm) silicification, 2-5% quartz and quartz-calcite veining. There are two generations of veining the oldest being more opaque with undefined vein edges and halos of silicification around them. The second are more quartz-calcite with associated chlorite and they have sharp contacts. Quartz flooding is also prevalent as 1-2mm patches to small clusters of short (1cm) stringers.					
129.00	130.00		5% patchy quartz. 8% veins of quartz-carbonate.	TM20508	129.00	130.00	1.00	.005
129.19			.06 m quartz-carbonate vein at 40 dca. Lower core angle at 30 dca.					
129.42			.01 m quartz-carbonate vein at 50 dca.					
130.00	130.52		04% intrafolial pyrrhotite. 10% patchy quartz. 2% stringers of quartz-carbonate. 4% stringers of chlorite.	TM20509	130.00	130.52	.52	.010
130.00	130.52		QC Sample tm20510 - DUP : 0.01 g/tonne.					
130.13	130.33		Zone with 3-5% blebby pyrrhotite flanked by silicified sections.					
130.52			QC Sample tm20511 - B : 0.00 g/tonne.	TM20512	130.52	131.52	1.00	.000
130.52	131.52		15% flooded quartz. 2% stringers of quartz-carbonate. 1% stringers of chlorite.					
131.52	132.52		10% veins of quartz. 2% stringers of quartz-carbonate.	TM20513	131.52	132.52	1.00	.005
131.60			.01 m quartz vein at 65 dca.					
131.72			.07 m quartz vein at 85 dca. Lower core angle at 90 dca.					
132.52	133.42		10% patchy quartz. 4% veins of quartz-carbonate. 2% stringers of chlorite.	TM20514	132.52	133.42	.90	.035
132.59			.01 m quartz-carbonate vein at 70 dca.					
133.34			Quartz-calcite-chlorite stringer at 20 dca.					
133.42	134.50		Trace vein associated pyrrhotite. Trace vein associated chalcopyrite. 10% flooded quartz. 8% veins of quartz-carbonate. 3% stringers of chlorite.	TM20515	133.42	134.50	1.08	.005
133.55			.06 m quartz-carbonate vein at 65 dca. Lower core angle at 60 dca.					
134.10			Chlorite stringer at 30 dca.					
134.31			.01 m quartz-carbonate vein at 65 dca. .0% associated pyrrhotite. .0% associated chalcopyrite.					
134.50	135.50		10% patchy quartz. 2% stringers of quartz-carbonate.	TM20516	134.50	135.50	1.00	.010
135.50	136.50		5% patchy quartz. 2% stringers of quartz-carbonate.	TM20517	135.50	136.50	1.00	.020
135.65			Quartz stringer at 65 dca.					
136.50	137.50		5% stringers of quartz. 3% veins of quartz-carbonate.	TM20518	136.50	137.50	1.00	.015
137.16			.02 m quartz-carbonate vein at 65 dca. Lower core angle at 75 dca.					
137.50	138.50		2% patchy quartz. 3% stringers of quartz-carbonate. 1% stringers of chlorite.	TM20519	137.50	138.50	1.00	.000
137.79			Quartz-carbonate stringer at 60 dca.					
138.50	139.45		20% pervasive quartz. 2% stringers of quartz-carbonate.	TM20520	138.50	139.45	.95	.000
139.05			Quartz-carbonate stringer at 50 dca.					
139.36			Quartz-calcite-chlorite stringer at 55 dca.					
139.45	140.50		5% patchy quartz. Foliation at 50 dca.	TM20521	139.45	140.50	1.05	.000
140.50	141.50		.5% vein associated pyrrhotite. 3% stringers of quartz. 7% veins of quartz-carbonate. Foliation at 50 dca.	TM20522	140.50	141.50	1.00	.000
140.76			Quartz-carbonate stringer at 30 dca.					
141.32			.07 m quartz-carbonate vein at 45 dca. Lower core angle at 90 dca.					
141.50	142.32		5% patchy quartz. 3% stringers of quartz-carbonate. Foliation at 50 dca.	TM20523	141.50	142.32	.82	.020
141.87			Crosscutting quartz-carbonate stringer at 40 dca.					
141.87			Crosscutting quartz-carbonate stringer at 60 dca.					
142.32	142.68		15% veins of quartz-carbonate. 3% intrafolial serpentine. Foliation at 50 dca.	TM20524	142.32	142.68	.36	.085
142.38			.02 m quartz-carbonate vein at 90 dca. Lower core angle at 65 dca.					
142.47			.01 m quartz-carbonate vein at 70 dca.					
142.48	142.66		This section is a seam where they Lost Core return. The rock is well foliated and sericitic with one 5mm quartz vein. The rock also appears partially weathered.					
142.61			Shear at 75 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
142.68	144.00		5% patchy quartz. 1% stringers of quartz-carbonate. Foliation at 40 dca.	TM20525	142.68	144.00	1.32	.000
143.06			Moderate foliation at 50 dca.					
143.32			Moderate foliation at 45 dca.					
143.44			Quartz-carbonate stringer at 60 dca.					
144.00	156.12		This section is more massive (less mottled) and varies from fine to medium grained with interstitial silicification within the coarser rock and patchy zones in the finer rock. There are 1-2% quartz-calcite veins and stringers. One of the veins is brecciated with 1mm to 1cm host rock fragments in it and quartz-calcite stringers within the fractures of the quartz vein. This section also has 1/2 to 1% pyrrhotite stringers and magnetite-pyrrhotite stringers. The magnetite comes in at 149.39m within a large stringer with quartz, calcite and mainly pyrrhotite.					
144.00	145.00		.5% stringers of pyrrhotite. 4% patchy quartz. Foliation at 40 dca.	TM20526	144.00	145.00	1.00	.000
144.05			Pyrrhotite stringer at 15 dca.					
144.26			Pyrrhotite stringer at 50 dca.					
144.49			Weak foliation at 40 dca.					
145.00	146.00		Trace stringers of pyrrhotite. 3% patchy quartz. 1% stringers of quartz-carbonate. Foliation at 40 dca.	TM20527	145.00	146.00	1.00	.005
145.81			Pyrrhotite stringer at 50 dca.					
146.00	147.00		Trace stringers of pyrrhotite. 4% patchy quartz. .5% stringers of quartz-carbonate. Foliation at 40 dca.	TM20528	146.00	147.00	1.00	.005
147.00	148.02		Trace stringers of pyrrhotite. 4% patchy quartz. 5% stringers of quartz-carbonate. Foliation at 40 dca.	TM20529	147.00	148.02	1.02	.005
147.07			Quartz-calcite-pyrrhotite stringer at 50 dca.					
147.49			Quartz-carbonate stringer at 50 dca.					
147.66			Quartz-carbonate stringer at 30 dca.					
147.87			.01 m quartz-carbonate vein at 40 dca.					
148.76			Quartz stringer at 65 dca.					
149.35	150.07		2% stringers of pyrrhotite. 1% stringers of quartz-carbonate. 4% stringers of magnetite	TM20530	149.35	150.07	.72	.000
149.40			Pyrrhotite-magnetite stringer at 30 dca.					
149.50			Magnetite-pyrrhotite stringer at 30 dca.					
149.70			Magnetite-pyrrhotite stringer at 10 dca.					
150.07	150.94		3% stringers of quartz-carbonate. .5% stringers of magnetite.	TM20531	150.07	150.94	.87	.005
150.36			Quartz-carbonate stringer at 15 dca.					
150.69			Magnetite stringer at 45 dca.					
150.94	151.35		20% veins of quartz. 15% veins of quartz-carbonate.	TM20532	150.94	151.35	.41	.045
151.01			.01 m quartz-carbonate vein at 70 dca. Lower core angle at 90 dca.					
151.07			.07 m quartz-carbonate vein at 40 dca. Lower core angle at 70 dca.					
151.18			.02 m quartz-carbonate vein at 50 dca. Lower core angle at 75 dca.					
151.35	152.40		3% stringers of pyrrhotite. .5% stringers of chalcopyrite. 2% stringers of quartz-carbonate.	TM20533	151.35	152.40	1.05	.005
152.22			Quartz-carbonate stringer at 55 dca..% associated pyrrhotite.					
152.40	153.50		Trace vein associated pyrrhotite. 5% patchy quartz. 3% stringers of quartz-carbonate. Foliation at 50 dca.	TM20534	152.40	153.50	1.10	.050
152.55			Magnetite stringer at 50 dca.					
153.00			Quartz-carbonate stringer at 10 dca..% associated pyrrhotite.					
153.50	154.65		Trace stringers of pyrrhotite. 2% patchy quartz. 2% stringers of quartz-carbonate. Foliation at 50 dca.	TM20535	153.50	154.65	1.15	.000
153.76			.01 m quartz-carbonate vein at 25 dca. Lower core angle at 20 dca.					
154.09			Weak to moderate foliation at 50 dca.					
154.46			Quartz-carbonate stringer at 30 dca.					
155.50			Magnetite-pyrrhotite stringer at 50 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
155.76	156.75		Trace stringers of pyrrhotite. 3% stringers of quartz-carbonate. 1% stringers of magnetite. Foliation at 50 dca.	TM20536	155.76	156.75	.99	.010
155.80			.02 m quartz vein at 90 dca. 40% associated chlorite. Lower core angle at 60 dca.					
155.88			Quartz-carbonate stringer at 70 dca.					
156.12	157.55		Moderately foliated at 45 dca with 1-2% quartz-calcite stringers. This section appears banded from the stringers which includes 2-3% magnetite-pyrrhotite stringers. The pyrrhotite associated with the magnetite is very fine grained.					
156.12			Pyrrhotite-magnetite stringer at 75 dca.					
156.75	157.55		.5% stringers of pyrrhotite. 1% stringers of quartz-carbonate. 5% stringers of magnetite. Foliation at 45 dca.	TM20537	156.75	157.55	.80	.000
156.75	157.55		QC Sample tm20538 - DUP : 0.00 g/tonne.					
156.93			Moderate foliation at 45 dca.					
157.30			Magnetite-pyrrhotite stringer at 55 dca.					
157.55	163.72		This section has 5% lensoid stringers of magnetite and pyrrhotite with quartz-calcite stringers on the edges. These zones have 2-3% blebby and fine disseminated pyrrhotite and look like small breccia areas. The fragments are 2mm to 5mm in length and are wispy like the stringers they are inside. There are also 1-2% quartz-calcite veins and stringers. Up to 3% quartz flooding has occurred in this section.					
157.55			QC Sample tm20539 - B : 0.00 g/tonne.					
157.55	158.75		.5% stringers of pyrrhotite. 2% stringers of quartz-carbonate. 2% stringers of magnetite.	TM20540	157.55	158.75	1.20	.010
158.46			Chlorite stringer at 25 dca.					
158.75	159.25		2% stringers of quartz-carbonate. .5% stringers of magnetite.					
159.10			Quartz-carbonate stringer at 70 dca.	TM20541	158.75	159.25	.50	.050
159.17			Magnetite-pyrrhotite stringer at 60 dca.					
159.25	160.10		2% stringers of pyrrhotite. 2% stringers of quartz-carbonate. 5% stringers of magnetite	TM20542	159.25	160.10	.85	.000
159.93			Quartz-carbonate stringer at 55 dca.					
160.10	161.07		1% stringers of pyrrhotite. 5% stringers of quartz-carbonate. 2% stringers of magnetite	TM20543	160.10	161.07	.97	.000
160.34			Pyrrhotite-magnetite stringer at 35 dca.					
161.07	162.31		1% stringers of pyrrhotite. 2% stringers of quartz-carbonate. 3% stringers of magnetite	TM20544	161.07	162.31	1.24	.000
162.15			Quartz-calcite-pyrrhotite stringer at 80 dca.					
162.31	163.00		5% flooded quartz. 10% veins of quartz-carbonate.	TM20545	162.31	163.00	.69	.005
162.52			Quartz stringer at 45 dca.					
162.71			.05 m quartz vein at 35 dca. Lower core angle at 80 dca.					
162.90			.01 m quartz vein at 45 dca.					
163.00	163.69		4% stringers of quartz-carbonate.	TM20546	163.00	163.69	.69	.005
163.69			Quartz stringer at 55 dca.					
163.69	164.35		2% stringers of quartz-carbonate. 4% fracture filling chlorite.	TM20547	163.69	164.35	.66	.000
163.72	165.09		This section is more grey than green has 3-5% chlorite filled fractures and 1% pyrrhotite and 3% quartz-calcite filled fractures. The rock appears almost brecciated due to the amount of fractures.					
163.83			Quartz-carbonate stringer at 10 dca.					
164.35	165.09		.5% fracture filling pyrrhotite. 5% fracture filling quartz. 1% stringers of quartz-carbonate. 4% fracture filling chlorite.	TM20548	164.35	165.09	.74	.000
164.93			Quartz stringer at 35 dca.					
165.09	181.00		There is 2-3% quartz-calcite stringers and up to 1% magnetite stringers. Trace amounts of pyrrhotite are located within the stringers. The rock has 3-4% chlorite filled fractures up to 174m.					
165.28			Quartz-carbonate stringer at 45 dca.					
166.30			Quartz-carbonate stringer at 40 dca.					
167.18			Weak foliation at 55 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			167.20 168.07 Trace vein associated pyrrhotite. 10% flooded quartz. 3% stringers of quartz-carbonate. Foliation at 55 dca.	TM20549	167.20	168.07	.87	.010
			167.43 Quartz-carbonate stringer at 45 dca.					
			167.60 Quartz stringer at 40 dca.					
			168.07 169.00 3% stringers of quartz. 2% stringers of quartz-carbonate. Foliation at 55 dca.	TM20550	168.07	169.00	.93	.030
			168.54 Quartz-carbonate stringer at 10 dca.					
			169.29 Quartz-carbonate stringer at 45 dca.					
			169.46 Quartz stringer at 40 dca.					
			169.84 Quartz-carbonate stringer at 25 dca.					
			171.50 172.50 2% stringers of quartz. 1% stringers of quartz-carbonate. .5% stringers of magnetite.	TM20551	171.50	172.50	1.00	.000
			171.88 Quartz-carbonate stringer at 25 dca. 20% associated chlorite.					
			172.50 173.50 Trace blebs of pyrrhotite. 1% stringers of quartz. 2% stringers of quartz-carbonate. .5% stringers of magnetite.	TM20552	172.50	173.50	1.00	.000
			172.61 Quartz stringer at 50 dca.					
			173.16 Quartz stringer at 65 dca.					
			173.77 .01 m quartz-carbonate vein at 35 dca. 25% associated chlorite.					
			175.00 176.00 1% stringers of quartz. 3% stringers of quartz-carbonate.	TM20553	175.00	176.00	1.00	.000
			175.13 Quartz-carbonate stringer at 30 dca.					
			175.33 Quartz stringer at 30 dca.					
			175.67 Quartz-carbonate stringer at 40 dca.					
			177.00 178.00 Trace stringers of pyrrhotite. 2% stringers of quartz-carbonate. 2% stringers of magnetite.	TM20554	177.00	178.00	1.00	.020
			177.21 Quartz-carbonate stringer at 40 dca.					
			177.79 Magnetite stringer at 65 dca.					
			178.00 178.77 Trace stringers of pyrrhotite. 2% stringers of quartz-carbonate. .5% stringers of magnetite.	TM20555	178.00	178.77	.77	.000
			178.48 Quartz-carbonate stringer at 30 dca.					
			178.77 179.62 5% flooded quartz. 4% stringers of quartz-carbonate. 5% stringers of chlorite.	TM20556	178.77	179.62	.85	.000
			179.00 179.74 This section is intensely silicified appearing brecciated. There are also 3-5% quartz-calcite stringers.					
			179.00 .02 m quartz-carbonate vein at 65 dca.					
			179.07 Quartz stringer at 50 dca.					
			179.62 180.17 .5% blebs of pyrrhotite. 4% stringers of quartz-carbonate. 1% crystals of magnetite. 55	TM20557	179.62	180.17	.55	.005
			179.62 180.17 QC Sample tm20558 - DUP : 0.01 g/tonne.					
			179.84 Weak to moderate foliation at 55 dca.					
			180.02 Quartz-carbonate stringer at 30 dca.					
			180.17 QC Sample tm20559 - B : 0.05 g/tonne.					
			180.17 181.00 3% stringers of quartz-carbonate. 2% stringers of chlorite. 55.	TM20560	180.17	181.00	.83	.000
			180.90 Quartz-carbonate stringer at 10 dca.					
181.00	222.50	10A	GABBRO Gabbro. Texture - massive, and chill margined. Moderately hard to hard, light green brown grey, trace fracture filling pyrite overall. .5% intrafolial pyrrhotite overall. .5% total sulphides. Lower contact at 45 dca. Strong interstitial carbonatization. 5% veins of quartz. 2% stringers of quartz-carbonate. This intrusive is weakly to moderately magnetic from magnetite and disseminated pyrrhotite towards the bottom of the unit associated with quartz veins. Much of the mafic minerals have been altered to light brown biotite there by lightening the rock. The less altered section are darker brownish grey to black. 181.00 186.76 The upper contact is gradational from a very fine grained chill margin to					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
			the fine to medium grained centre of the intrusive. Spotty (1-2mm) chlorite alteration up to 25% occurs close to the upper contact from 182m to 182.4m and 187.45m to 186.76m. This section has 1% veining and moderate carbonatization (5%). The quartz stringers cross-cut the older quartz-calcite veins.					
	181.59		Quartz-carbonate stringer at 40 dca.					
	181.80		Magnetite stringer at 20 dca.					
	182.65	183.12	25% veins of quartz. Quartz veins at 40 dca.	TM20561	182.65	183.12	.47	.000
	182.86		.10 m quartz vein at 40 dca. Lower core angle at 35 dca.					
	184.00	185.00	1% stringers of quartz. 3% stringers of quartz-carbonate. 20% porphyroblastic chlorite. Foliation at 55 dca.	TM20562	184.00	185.00	1.00	.000
	184.26		Quartz-carbonate stringer at 20 dca.					
	184.40		Quartz-carbonate stringer at 15 dca.					
	184.55		.01 m quartz-carbonate vein at 20 dca.					
	185.00	186.00	2% stringers of calcite. 25% porphyroblastic chlorite. Foliation at 55 dca.	TM20563	185.00	186.00	1.00	.000
	185.90		Moderate foliation at 55 dca.					
	186.00	186.76	3% veins of quartz. 1% stringers of quartz-carbonate. 15% porphyroblastic chlorite. Foliation at 55 dca.	TM20564	186.00	186.76	.76	.190
	186.22		Quartz-carbonate stringer at 40 dca.					
	186.40		.02 m quartz vein at 30 dca.					
	186.76	204.95	The main section of the unit has 5-10% interstitial carbonate and 5% quartz and quartz-calcite veins. The quartz veins have quartz-calcite stringers within them. The quartz-calcite stringers run along the outer edges of some of the quartz veins and stringers (recrystallization). The veins range from 1cm to 50cm wide.					
	188.00	189.00	1% stringers of quartz. 2% stringers of quartz-carbonate. Foliation at 45 dca.	TM20565	188.00	189.00	1.00	.000
	188.11		Quartz-carbonate stringer at 50 dca.					
	188.26		Quartz-carbonate stringer at 45 dca.					
	188.56		Quartz-carbonate stringer at 45 dca.					
	189.00	190.00	4% stringers of quartz-carbonate. Foliation at 45 dca.	TM20566	189.00	190.00	1.00	.000
	189.42		Quartz-carbonate stringer at 45 dca.					
	189.69		Quartz-carbonate stringer at 30 dca.					
	190.60		Weak to moderate foliation at 45 dca.					
	192.12	192.61	75% veins of quartz. 10% stringers of quartz-carbonate.	TM20567	192.12	192.61	.49	.030
	192.13		.39 m quartz vein at 40 dca. Lower core angle at 20 dca.					
	192.61	192.97	Trace blebs of pyrite. 5% veins of quartz. 1% stringers of quartz-carbonate. Foliation at 40 dca.	TM20568	192.61	192.97	.36	.000
	192.84		.01 m quartz vein at 55 dca.					
	192.93		Moderate to strong foliation at 40 dca.					
	192.97	193.50	70% veins of quartz. 5% stringers of quartz-carbonate. 2% vein associated biotite. Foliation at 40 dca.	TM20569	192.97	193.50	.53	.000
	192.97	193.50	QC Sample tm20570 - DUP : 0.00 g/tonne.					
	192.99		.48 m quartz vein at 50 dca. Lower core angle at 25 dca.					
	193.50		QC Sample tm20571 - B : 0.01 g/tonne.	TM20572	193.50	194.11	.61	.005
	193.50	194.11	20% veins of quartz. 5% stringers of quartz-carbonate. Foliation at 40 dca.					
	193.83		.17 m quartz vein at 40 dca. Lower core angle at 25 dca.					
	194.07		Quartz-carbonate stringer at 50 dca.					
	194.11	195.18	.5% stringers of quartz. 2% stringers of quartz-carbonate. Foliation at 40 dca.	TM20573	194.11	195.18	1.07	.000
	194.84		Quartz-carbonate stringer at 30 dca.					
	195.18	196.12	10% stringers of quartz-carbonate.	TM20574	195.18	196.12	.94	.000
	195.41		Quartz-carbonate stringer at 15 dca.					
	195.46	196.10	This section is less altered and medium greenish brown.					
	195.64		Quartz-carbonate stringer at 45 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
195.94			Quartz-carbonate stringer at 50 dca.					
196.10			.01 m quartz-carbonate vein at 30 dca.					
196.12	196.59		4% stringers of quartz-carbonate.	TM20575	196.12	196.59	.47	.000
196.36			Quartz-carbonate stringer at 35 dca.					
196.59	197.13		10% anastomosing stringers of quartz-carbonate. Foliation at 60 dca.	TM20576	196.59	197.13	.54	.000
196.63	197.06		Darker section with mottled alteration beginning and 5% wispy quartz-calcite stringers. This section is also intensely carbonatized.					
196.82			Carbonate stringer at 5 dca.					
197.13	198.71		2% stringers of quartz-carbonate. 1% patchy calcite.	TM20577	197.13	198.71	1.58	.000
197.92			.02 m quartz-carbonate vein at 70 dca. Lower core angle at 80 dca.					
198.71	199.54		5% flooded quartz. 10% veins of quartz-carbonate.	TM20578	198.71	199.54	.83	.000
198.80			.03 m quartz vein at 55 dca. Lower core angle at 35 dca.					
199.00			.01 m quartz vein at 35 dca.					
199.54	200.00		1% stringers of quartz-carbonate. Foliation at 55 dca.	TM20579	199.54	200.00	.46	.000
200.00	201.00		10% veins of quartz-carbonate. 1% vein associated biotite. Foliation at 55 dca.	TM20580	200.00	201.00	1.00	.040
200.31			.08 m quartz-carbonate vein at 90 dca. Lower core angle at 25 dca.					
200.65			.02 m quartz-carbonate vein at 80 dca. Lower core angle at 75 dca.					
201.00	201.32		3% flooded quartz. 5% stringers of quartz-carbonate. Foliation at 55 dca.	TM20581	201.00	201.32	.32	.000
201.03			Quartz stringer at 65 dca.					
201.20			Weak to moderate foliation at 55 dca.					
201.32	202.29		3% flooded quartz. 2% stringers of quartz-carbonate. Foliation at 55 dca.	TM20582	201.32	202.29	.97	.000
202.27			.01 m quartz-carbonate vein at 60 dca.					
202.29	203.00		3% stringers of quartz-carbonate. 1% vein associated biotite. Foliation at 50 dca.	TM20583	202.29	203.00	.71	.000
202.55			Quartz-carbonate stringer at 20 dca.					
203.00	204.00		2% stringers of quartz-carbonate. Foliation at 50 dca.	TM20584	203.00	204.00	1.00	.010
203.34			Quartz-carbonate stringer at 10 dca.					
204.00	204.95		1% stringers of quartz-carbonate. Foliation at 50 dca.	TM20585	204.00	204.95	.95	.000
204.42			Weak to moderate foliation at 50 dca.					
204.95	212.81		This part of the unit is dark brownish grey with 18% quartz-calcite veins and stringers and 1-2% intrafolial pyrrhotite. This section is still strongly carbonatized. There are 1-2% biotite patches within the veins. All veins appear to be recrystallized.					
204.95	206.00		Trace fracture filling pyrite. .5% intrafolial pyrrhotite. 2% anastomosing stringers of quartz-carbonate. Foliation at 50 dca.	TM20586	204.95	206.00	1.05	.005
206.00	206.44		Trace fracture filling pyrite. .5% intrafolial pyrrhotite. 20% veins of quartz-carbonate. 1% patchy calcite. 2% vein associated biotite. Foliation at 50 dca.	TM20587	206.00	206.44	.44	.000
206.18			.09 m quartz-carbonate vein at 35 dca. 2% associated biotite. Lower core angle at 40 dca.					
206.44	207.10		Trace fracture filling pyrite. 1% intrafolial pyrrhotite. 5% veins of quartz-carbonate. .5% vein associated biotite. Foliation at 50 dca.	TM20588	206.44	207.10	.66	.005
206.49			.02 m quartz-carbonate vein at 25 dca.					
206.97			Quartz-carbonate stringer at 65 dca.					
207.10	208.15		Trace fracture filling pyrite. .5% intrafolial pyrrhotite. 5% stringers of quartz-carbonate. 2% patchy calcite. .5% vein associated biotite. Foliation at 50 dca.	TM20589	207.10	208.15	1.05	.010
207.52			Quartz-carbonate stringer at 45 dca.					
208.15	209.18		.5% intrafolial pyrrhotite. 20% veins of quartz-carbonate. 1% vein associated biotite. Foliation at 50 dca.	TM20590	208.15	209.18	1.03	.000
208.31			Quartz-carbonate stringer at 20 dca.					
208.56			.04 m quartz-carbonate stringer at 10 dca. 2% associated biotite. Lower core angle at 20 dca.					
209.14			Quartz-carbonate stringer at 30 dca.					

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngr m	GOLD g/t
209.18	209.71		80% veins of quartz-carbonate. 10% vein associated plagioclase.	TM20591	209.18	209.71	.53	.000
209.18	209.71		QC Sample tm20592 - DUP : 0.00 g/tonne.					
209.20	210.46		16% Quartz Vein. Texture - recrystallized, hard, light greyish-white, .00% total sulphides. Lower contact at 30 dca.					
209.20			1.26 m quartz-carbonate vein at 10 dca. 5% associated biotite. 4% associated plagioclase. Lower core angle at 30 dca.					
			This vein has a mottled texture with 4% biotitic lenses and 2-5% 2mm x 8mm lath like crystals. The crystals appear twinned so are most likely plagioclase feldspar. Quartz-calcite is interstitial to the other vein components forming 40%.					
209.20			Contact at 10 dca.					
209.71			QC Sample tm20593 - B : 0.04 g/tonne.	TM20594	209.71	210.48	.77	.000
209.71	210.48		90% veins of quartz-carbonate. 10% vein associated biotite.					
210.48	211.00		2% intrafolial pyrrhotite. 10% veins of quartz-carbonate. 2% vein associated biotite. Foliation at 50 dca.	TM20595	210.48	211.00	.52	.000
211.00	211.70		2% intrafolial pyrrhotite. 15% veins of quartz-carbonate. 2% patchy calcite. 1% vein associated biotite. Foliation at 50 dca.	TM20596	211.00	211.70	.70	.000
211.11			Quartz-carbonate stringer at 30 dca. .0% associated pyrrhotite.					
211.25			Quartz-carbonate stringer at 50 dca.					
211.50			Quartz-carbonate stringer at 40 dca.					
211.55			Moderate foliation at 50 dca.					
211.64			Quartz-carbonate stringer at 70 dca.					
211.70	212.19		.5% intrafolial pyrrhotite. 30% veins of quartz-carbonate. 5% vein associated biotite. Foliation at 50 dca.	TM20597	211.70	212.19	.49	.000
211.85			Quartz-carbonate vein at 10 dca.					
212.08			.08 m quartz-carbonate vein at 35 dca. Lower core angle at 30 dca.					
212.19	212.82		Trace intrafolial pyrrhotite. 3% stringers of quartz-carbonate. 25% interstitial calcite. Foliation at 35 dca.	TM20598	212.19	212.82	.63	.000
212.36			Quartz-carbonate stringer at 65 dca.					
212.81	217.00		This section has 5% quartz veins and 5% intense calcite altered patches which are pale greenish grey compared to the moderately carbonatized remainder. There are also 1-2% quartz-calcite stringers throughout this section. From 215.32m to 215.79m is less altered with 10% wispy quartz-calcite and calcite stringers. The fine stringers make the rock appear brecciated.					
212.82	213.94		Trace intrafolial pyrrhotite. 2% stringers of quartz-carbonate. 3% patchy calcite. Foliation at 35 dca.	TM20599	212.82	213.94	1.12	.050
212.91			Quartz-carbonate stringer at 45 dca.					
213.94	215.00		Trace intrafolial pyrrhotite. 10% patchy calcite. Foliation at 35 dca.	TM20600	213.94	215.00	1.06	.005
214.03			Quartz-carbonate stringer at 60 dca.					
214.10			Weak to moderate foliation at 35 dca.					
215.00	215.79		Trace intrafolial pyrrhotite. 5% stringers of quartz-carbonate. 20% interstitial calcite. Foliation at 35 dca.	TM20601	215.00	215.79	.79	.000
215.79			Quartz-carbonate stringer at 60 dca. 10% associated biotite.					
215.79	216.62		Trace intrafolial pyrrhotite. 5% stringers of quartz-carbonate. Foliation at 35 dca.	TM20602	215.79	216.62	.83	.015
216.62	217.00		75% veins of quartz. 2% stringers of quartz-carbonate. Quartz veins at 10 dca.	TM20603	216.62	217.00	.38	.000
216.69			.24 m quartz vein at 10 dca. Lower core angle at 25 dca.					
217.00	222.50		This section becomes finer grained towards the lower contact forming a chill margin. There are 5-10% quartz and quartz-calcite veins with 2-3% wispy calcite and quartz-calcite stringers. The stringers are clustered and those areas appear mottled and brecciated. There is also trace intrafolial pyrrhotite.					
217.00	218.00		2% veins of quartz. 5% stringers of quartz-carbonate.	TM20604	217.00	218.00	1.00	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			218.00 219.00 12% veins of quartz. 3% stringers of quartz-carbonate. Quartz veins at 25 dca.	TM20605	218.00	219.00	1.00	.000
			218.26 .08 m quartz vein at 25 dca. Lower core angle at 55 dca.					
			218.85 .01 m quartz vein at 55 dca.					
			219.00 220.00 2% veins of quartz. 3% veins of quartz-carbonate.	TM20606	219.00	220.00	1.00	.000
			219.38 .02 m quartz vein at 60 dca.					
			219.70 .03 m quartz-carbonate vein at 45 dca. Lower core angle at 60 dca.					
			220.00 221.47 1% stringers of quartz-carbonate.	TM20607	220.00	221.47	1.47	.000
			220.31 Quartz-carbonate stringer at 40 dca.					
			220.49 .01 m quartz-carbonate vein at 40 dca.					
			221.47 222.50 10% stringers of quartz-carbonate.	TM20608	221.47	222.50	1.03	.050
			221.63 Quartz stringer at 75 dca.					
			221.82 Quartz-carbonate stringer at 60 dca.					
			222.06 Quartz-carbonate stringer at 60 dca. 5% associated biotite.					
222.50	229.20	2A1	IRON THOLEIITE Iron Tholeiite. Texture - mottled, hard, medium green, very fine grained. Trace stringers of pyrite overall. .05% total sulphides. Lower contact at 55 dca. Moderate crystals of carbonatization. Weak to moderate flooded silicification. 1% veins of quartz. 4% veins of quartz-carbonate. This is part of the same unit as before the gabbroic dyke. 222.50 223.75 There are 3-5% 1mm x 4mm blade like calcite crystals within the rock and overprinting the stringers and breccia pocket. There are 2-3% quartz-calcite stringers and up to 1% silicified patches.	TM20609	222.50	223.72	1.22	.005
			222.50 223.72 5% flooded quartz. 3% stringers of quartz-carbonate. 5% crystals of calcite. Foliation at 50 dca.					
			223.10 Moderate foliation at 50 dca.					
			223.30 Quartz-carbonate stringer at 50 dca.					
			223.72 224.50 2% stringers of quartz. 5% stringers of quartz-carbonate. Foliation at 50 dca.	TM20610	223.72	224.50	.78	.000
			223.75 228.18 This section appears more massive with 30-40cm lengths of quartz flooding and insitu brecciation. There are two generations of veining. The earliest is more opaque with not well defined boundaries while the latest are transparent with sharp edges and crosscut the first type. The veining constitutes 3-5% of the unit as well there is 1-2% quartz-calcite (later) stringers. Calcite alteration occurs sporadically throughout this section in the form of 1-4mm patches.					
			223.76 Quartz-carbonate stringer at 30 dca.					
			223.87 Quartz-calcite-pyrite stringer at 70 dca.					
			224.13 Quartz stringer at 90 dca.					
			224.50 225.50 5% veins of quartz. 3% stringers of quartz-carbonate. 1% patchy calcite. Foliation at 50 dca.	TM20611	224.50	225.50	1.00	.005
			224.56 .05 m quartz vein at 55 dca. Lower core angle at 55 dca.					
			224.77 Quartz-carbonate stringer at 45 dca.					
			225.23 Quartz-carbonate stringer at 65 dca.					
			225.33 Quartz-carbonate stringer at 80 dca.					
			225.35 Quartz-carbonate stringer at 60 dca.					
			225.50 226.50 5% flooded quartz. 5% stringers of quartz-carbonate. Foliation at 50 dca.	TM20612	225.50	226.50	1.00	.010
			225.92 Quartz-carbonate stringer at 45 dca.					
			226.50 227.08 10% flooded quartz. 3% stringers of quartz-carbonate. Foliation at 50 dca.	TM20613	226.50	227.08	.58	.000
			227.00 Quartz-carbonate stringer at 60 dca.					
			227.08 227.50 20% veins of quartz. 5% stringers of quartz-carbonate.	TM20614	227.08	227.50	.42	.000
			227.08 227.50 QC Sample tm20615 - DUP : 0.00 g/tonne.					
			227.27 .03 m quartz vein at 30 dca. Lower core angle at 25 dca.					
			227.50 QC Sample tm20616 - B : 0.00 g/tonne.	TM20617	227.50	228.20	.70	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			227.50 228.20 4% veins of quartz. 3% stringers of quartz-carbonate. Foliation at 50 dca. 227.76 Moderate foliation at 50 dca. 228.01 Quartz-carbonate stringer at 55 dca. 228.18 229.20 This section is moderately foliated at 50 dca and appears brecciated from weak graphite alteration (2%). The graphite occurs as fracture fill. From 229.11m to 229.20m there is strong intrafolial graphite (20%) with a 2mm pyrite stringers following the contact with the sediments.					
			228.20 229.06 2% stringers of quartz-carbonate. 5% fracture filling graphite. Foliation at 50 dca. 228.62 Moderate foliation at 50 dca. 229.06 229.20 .5% stringers of pyrite. 20% intrafolial graphite. Foliation at 50 dca. 229.19 Pyrite stringer at 55 dca.	TM20618	228.20	229.06	.86	.000
				TM20619	229.06	229.20	.14	.000
229.20	269.00	6L	INTERBEDDED MUDSTONE AND ARGILLITE Interbedded mudstone and argillite. Texture - interbedded, and granular. Moderately hard to hard, medium grey, variable. Trace stringers of pyrite overall. Trace stringers of pyrrhotite overall. .01% total sulphides. Weak patchy carbonatization. 1% stringers of quartz-carbonate. This unit is barren and relatively unaltered. The stringers are consistently parallel to bedding. The grain s in the beds decreases downhole making that the top direction. The carbonate alteration is weak and occurs as lighter grey patches or 1mm stringers. 229.20 230.07 This section is weakly graphite altered with 1mm pyrite stringers. From 229.20m to 229.32m there is 1% pyrite and 2-3% carbonate alteration with 20% intrafolial graphite. The graphite weakens down hole to 230.07m. 229.20 230.07 1% stringers of pyrite. 1% stringers of quartz-carbonate. 10% intrafolial graphite. Foliation at 55 dca. 229.29 Pyrite stringer at 50 dca. 229.34 Pyrite stringer at 55 dca. 229.54 Quartz-calcite-pyrite stringer at 55 dca. 230.07 231.00 Trace stringers of pyrite. 1% stringers of quartz-carbonate. Foliation at 60 dca. 230.36 Pyrite stringer at 65 dca. 230.80 Quartz-carbonate stringer at 80 dca. 230.91 Moderate foliation at 60 dca. 230.96 Bedding at 60 dca. 231.50 Quartz-carbonate stringer at 55 dca. 233.16 Bedding at 55 dca. 233.48 Quartz-carbonate stringer at 65 dca. 233.88 Quartz stringer at 65 dca. 234.57 Bedding at 55 dca. 235.00 236.22 Trace stringers of pyrrhotite. 2% stringers of quartz-carbonate. Foliation at 55 dca. 235.15 Moderate foliation at 55 dca. 235.57 Bedding at 70 dca. 236.00 237.13 This section has 5% quartz-calcite stringers (the highest percentage for the unit). 236.22 237.16 Trace blebs of pyrrhotite. 5% stringers of quartz-carbonate. Foliation at 65 dca. 236.42 Quartz-carbonate stringer at 70 dca. 236.54 Quartz-carbonate stringer at 80 dca. 236.57 Pyrite stringer at 75 dca. 236.71 Quartz-carbonate stringer at 85 dca. 237.04 Quartz-carbonate stringer at 75 dca. 237.27 Moderate foliation at 65 dca. 237.32 Pyrrhotite stringer at 70 dca.	TM20620	229.20	230.07	.87	.000
				TM20621	230.07	231.00	.93	.005
				TM20622	235.00	236.22	1.22	.005
				TM20623	236.22	237.16	.94	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			237.57 Quartz-carbonate stringer at 85 dca.					
			237.70 Pyrite stringer at 45 dca.					
			238.00 239.00 4% stringers of quartz-carbonate. Foliation at 60 dca.	TM20624	238.00	239.00	1.00	.025
			238.02 Quartz-carbonate stringer at 70 dca.					
			238.08 Quartz-carbonate stringer at 80 dca.					
			238.18 Bedding at 60 dca.					
			238.45 Moderate foliation at 60 dca.					
			239.53 Quartz-carbonate stringer at 60 dca.					
			240.50 Quartz-carbonate stringer at 85 dca.					
			241.50 242.50 5% veins of quartz-carbonate. Foliation at 60 dca. Quartz veins at 60 dca.	TM20625	241.50	242.50	1.00	.000
			241.57 Quartz-carbonate stringer at 15 dca.					
			241.98 .04 m quartz-carbonate vein at 60 dca. Lower core angle at 75 dca.					
			242.11 Quartz-carbonate stringer at 60 dca.					
			242.46 Bedding at 70 dca.					
			243.46 Carbonate stringer at 35 dca.					
			243.73 Carbonate stringer at 55 dca.					
			243.88 Moderate foliation at 75 dca.					
			244.54 Bedding at 70 dca.					
			246.54 Quartz-carbonate stringer at 60 dca.					
			247.14 Quartz-carbonate stringer at 65 dca.					
			247.40 Quartz-carbonate stringer at 60 dca.					
			247.70 Quartz-carbonate stringer at 60 dca.					
			247.98 Quartz-carbonate stringer at 60 dca.					
			248.18 Moderate foliation at 70 dca.					
			248.38 249.44 Trace blebs of pyrite. 3% stringers of quartz-carbonate. Foliation at 70 dca.	FE41606	248.38	249.44	1.06	.000
			248.52 Bedding at 65 dca.					
			249.73 .01 m quartz-carbonate vein at 65 dca.					
			249.89 Bedding at 65 dca.					
			250.77 Quartz-carbonate stringer at 60 dca.					
			251.44 Quartz-carbonate stringer at 55 dca.					
			252.44 Quartz-carbonate stringer at 80 dca.					
			252.73 Moderate foliation at 65 dca.					
			252.96 Bedding at 70 dca.					
			256.85 Bedding at 70 dca.					
			257.11 Moderate foliation at 65 dca.					
			257.27 .03 m quartz-carbonate vein at 70 dca. Lower core angle at 75 dca.					
			257.95 Quartz-carbonate stringer at 55 dca.					
			258.15 Bedding at 55 dca.					
			258.46 259.37 .5% stringers of pyrrhotite. 4% stringers of quartz-carbonate. Foliation at 65 dca.	FE41607	258.46	259.37	.91	.055
			258.46 259.37 QC Sample fe41608 - DUP : 0.00 g/tonne.					
			259.18 Quartz-carbonate stringer at 80 dca.					
			259.37 QC Sample fe41609 - B : 0.00 g/tonne.					
			259.60 Quartz-carbonate stringer at 80 dca.					
			259.90 Quartz-carbonate stringer at 75 dca.					
			260.40 Moderate foliation at 75 dca.					
			261.73 Bedding at 65 dca.					
			262.00 263.00 Trace vein associated pyrite. 3% stringers of quartz-carbonate. Foliation at 75 dca.	FE41610	262.00	263.00	1.00	.000
			263.14 Quartz-carbonate stringer at 80 dca.					
			263.23 Quartz-carbonate stringer at 60 dca.					
			263.58 Quartz-carbonate stringer at 60 dca.					
			263.81 264.74 3% stringers of quartz-carbonate. Foliation at 75 dca.	FE41611	263.81	264.74	.93	.000

From m	To m	Rock Type	Geology	Sample	From m	To m	Lngt m	GOLD g/t
			264.00 Quartz-carbonate stringer at 75 dca.					
			264.48 Bedding at 75 dca.					
			264.72 Quartz-carbonate stringer at 70 dca.					
			267.12 Quartz-carbonate stringer at 75 dca.					
			267.46 Moderate foliation at 75 dca.					
			268.00 269.00 2% stringers of quartz-carbonate. Foliation at 65 dca.	FE41612	268.00	269.00	1.00	.010
			268.32 Hairline fault at 25 dca.					
			268.47 Hairline fault at 35 dca.					
			268.51 Bedding at 70 dca.					
			268.67 Moderate foliation at 65 dca.					

APPENDIX C
GEOTECHNICAL LOGS

EXPLANATION OF GEOTECHNICAL LOGS

For each 3m run of drill core the geotechnician counts the number of fractures and documents their shape, roughness and mineral coatings. The following explains the codes used:

SHAPE

- 1 - planar
- 2 - curved
- 3 - undulating
- 4 - stepped
- 5 - irregular

ROUGHNESS

- 1 - slickensided
polished
- 2 - smooth
- 3 - rough
- 4 - very rough

ALTERATION MINERALS

- ak - ankerite
- ca - calcite
- ch - chlorite
- gr - graphite
- mt - magnetite
- po - pyrrhotite
- py - pyrite
- sr - sericite
- ta - talc

RECOVERY

The percent recovery is the length of core actually recovered per 3 metre run divided by 3 then multiplied by 100.

RQD (ROCK QUALITY DESIGNATION)

The RQD is the total length of pieces of NQ core longer than 10 cm per 3 metre run. This number is divided by the total length of the run and multiplied by 100 to get the percentage RQD.

COMPRESSIVE STRENGTH

This is a test of the rock hardness per 3 metre run.

HARDNESS	CONSISTENCY	FIELD PERFORMANCE
0	Extremely Soft Rock	Indented by thumbnail.
1	Very Soft Rock	Crumbles under firm blows with point of geological pick; can be peeled with a pocket knife.
2	Soft Rock	Can be peeled with a pocket knife with difficulty; shallow indentations made by firm blow of geological pick.
3	Average Rock	Cannot be scrapped or peeled with a pocket knife; specimen can be fractured with single blow of a hammer and/or geological pick.
4	Hard Rock	Specimen requires more than one blow with hammer and/or geological pick to fracture it.
5	Very Hard Rock	Specimen requires many blows of hammer and/or geological pick to fracture it.
6	Extremely Hard Rock	Specimen can only be chipped with geological pick.

Note: All lengths are given in metres

FROM	TO	length of run	length recovered	total length of pieces >10cm (NQ)	Mag Susc.	Core angle = 0 - 30			Core angle = 30 - 60			Core angle = 60 - 90			Core angle = 90-120			Core angle = 120 - 150			Core angle = 150 - 180			Graphite Y/N	C.S.	RQD %	Recovery %								
						No.	shape	roughness	alteration minerals	No.	shape	roughness	alteration minerals	No.	shape	roughness	alteration minerals	No.	shape	roughness	alteration minerals	No.	shape					roughness	alteration minerals	No.	shape	roughness	alteration minerals		
203	206	3	2.9	2.63	3.54						1	1	3	ch																					
206	209	3	3	2.56	2.52						1	1	2	srch																					
209	212	3	3	2.6	1.82						1	1	3	cach																					
212	215	3	3	2.95	2.78						1	1	3	pych																					
215	218	3	2.78	2.7	10.6						1	1	3	py																					
218	221	3	3	2.4	11.9						2	1	2	pych																					
221	224	3	3.5	1.57	1.52						7	1	1	grpyca																					
224	228	2	2.34	0.31	1.64						8	1	2	tapy																					

Note: All lengths are given in metres

FROM	TO	length of run	length recovered	total length of pieces >10cm (NQ)	Mag Sus.	Core angle = 0 - 30			Core angle = 30 - 60			Core angle = 60 - 90			Core angle = 90-120			Core angle = 120 - 150			Core angle = 150 - 180			Graphite Y/N	C.S	RQD %	Recovery %
						No.	shape	roughness alteration minerals	No.	shape	roughness alteration minerals	No.	shape	roughness alteration minerals	No.	shape	roughness alteration minerals	No.	shape	roughness alteration minerals	No.	shape	roughness alteration minerals				
203	208	3	3	2.8	0.9				3	1	2 cach	1	1	2 cach										n	3	93.33	100
208	209	3	3	2.87	1.18		1	1	3 cach			1	1	2 cach										n	3	95.67	100
209	212	3	3	2.81	0.98							2	1	2 cach										n	3	87	100
212	215	3	3	2.53	0.54							7	1	2 cach										n	3	84.33	100
215	218	3	3	2.53	0.84							4	1	3 cach										n	3	84.33	100
218	221	3	3	2.88	0.84							1	1	2 ch										n	3	95.33	100
221	224	3	3	2.88	0.78		1	1	3 ca			3	1	3 cach										n	3	95.33	100
224	227	3	3	2.71	0.78							2	1	3 cach										n	3	98	100
227	230	3	3	1.7	1.24							6	1	3 ch										n	3	90.33	100
230	233	3	3	2.35	1.62		1	1	3 ch			3	1	2 chca										n	3	56.67	100
233	236	3	3	2.63	0.92							8	1	3 cach										n	3	78.33	100
236	239	3	3	1.73	0.96							5	1	3 cach										n	3	87.67	100
239	242	3	2.7	1.5	1.02							3	1	2 cach										n	3	57.67	100
242	245	3	3	1.87	0.96							5	1	2 cach										n	3	50	90
245	248	3	3	2.8	0.82							5	1	2 cach										n	3	82.33	100
248	251	3	3	2.5	1.12							6	1	3 cach										n	3	93.33	100
												2	1	3 cach										n	3	83.33	100

Note: All lengths are given in metres

FROM	TO	length of run	length recovered	total length of pieces >10cm (NQ)	Mag Susc.	Core angle = 0 - 30			Core angle = 30 - 60			Core angle = 60 - 90			Core angle = 90-120			Core angle = 120 - 150			Core angle = 150 - 180			Graphite Y/N	C.S	RQD %	Recovery %			
						No.	shape	roughness	alteration minerals	No.	shape	roughness	alteration minerals	No.	shape	roughness	alteration minerals	No.	shape	roughness	alteration minerals	No.	shape					roughness	alteration minerals	No.
209	212	3	3	1.79	0.96				6	1	2	cach	9	1	2	cach														
212	215	3	3	2.55	1				3	1	2	cach	1	1	2	cach										n	3	59.67	100	
215	218	3	3	2.38	2.08				2	1	3	cach	4	1	2	cach										n	3	85	100	
218	221	3	3	2.57	0.72				5	1	2	cach	1	1	2	cach										n	3	79.33	100	
221	224	3	3	1.14	1.68				13	1	2	cach	7	1	2	cach										n	3	85.67	100	
224	227	3	3	1.4	1.04				8	1	2	cach	9	1	2	cach										n	3	38	100	
227	230	3	3	2.6	4.9				2	1	2	cach	4	1	2	cach										n	3	46.67	100	
230	233	3	3	2.17	1.66				8	1	2	cach	1	1	2	cach										n	3	86.67	100	
233	236	3	3	2.77	0.78				4	1	2	cach	4	1	2	cach										n	3	72.33	100	
236	239	3	3	2.61	0.68				4	1	2	cach	8	1	2	cach										n	3	92.33	100	
239	242	3	3	2.29	1.22				5	1	2	cach	4	1	2	cach										n	3	87	100	
242	245	3	3	1.35	1				3	1	2	cach	2	1	2	cach										n	3	76.33	100	
245	248	3	3	1.34	1.4				5	1	3	cach	3	1	2	cach										n	3	45	100	
248	251	3	3	0.6	1.24				4	1	3	cachta	5	1	2	cachtapy										n	3	44.67	100	
251	254	3	3	0.98	1.18				4	1	3	cach	10	1	3	cachpy										n	3	20	100	
254	257	3	3	2.49	1				5	1	2	cach	1	1	2	cach										n	3	32.67	100	
257	260	3	3	2.12	0.96				6	1	2	cach	3	1	2	cach										n	3	83	100	
260	263	3	3	2.33	0.96				5	1	2	cachta	2	1	2	cachta										n	3	70.67	100	
263	266	3	3	2.29	1.22				3	1	3	cachta	2	1	2	cachta										n	3	77.67	100	
266	269	3	3	2.43	1.42				3	1	2	cach	6	1	2	cach										n	3	76.33	100	
																										n	3	81	100	

Note: All lengths are given in metres

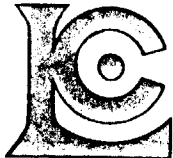
FROM	TO	length of run	length recovered	total length of pieces > 10cm (NQ)	Mag Susc.	Core angle = 0 - 30			Core angle = 30 - 60			Core angle = 60 - 90			Core angle = 90-120			Core angle = 120 - 150			Core angle = 150 - 180			Graphite Y/N	C.S.	RQD %	Recovery %
						No.	shape	roughness alteration minerals	No.	shape	roughness alteration minerals	No.	shape	roughness alteration minerals	No.	shape	roughness alteration minerals	No.	shape	roughness alteration minerals	No.	shape	roughness alteration minerals				
203	206	3	3	2.7	1				10	1	3 chta	1	1	3 chta													
206	209	3	3	2.47	0.9			4 tach	5	1	2 tach	6	1	3 chta										n	3	90	100
209	212	3	3	2.69	1.36				5	1	2 tach	4	1	3 tach										n	3	82.33	100
212	215	3	3	2.67	0.48				8	1	3 tach	6	1	3 tach										n	3	89.67	100
215	218	3	3	2.62	0.94	1	1	2 tach	3	1	3 tacach	3	1	3 cach										n	3	89	100
218	221	3	3	2.25	2.52				11	1	3 cachta	4	1	3 cach										n	3	87.33	100
221	224	3	3	2.14	1.78				5	1	3 cachta	11	1,2	3 cachta										n	3	75	100
224	227	3	3	2.71	0.7				10	1	3 cach													n	3	71.33	100
227	230	3	3	2.59	1.46				3	1	3 cach	7	1,3	3 cach										n	3	90.33	100
230	233	3	3	2.4	1.06				7	1,2	3 cach	10	1,2	3 cach										n	3	86.33	100
233	238	3	3	2.54	1.3	1	1	3 cach	5	1,2	3 cach	6	1,2	3 cach										n	3	80	100
236	239	3	3	2.59	1.2				13	1,2	3 cach	1	1	2 cach										n	3	84.67	100
239	242	3	3	2.94	1.74				8	1	3 cach	4	1	3 cach										n	3	86.33	100
242	245	3	3	2.51	1				16	1,2	3 cach	3	1	3 cach										n	3	98	100
245	248	3	3	2.59	0.94				10	1,2	3 cach	2	1	3 cach										n	3	83.67	100
248	251	3	3	2.49	1.26				9	1,3	3 cach	3	1	3 cach										n	3	86.33	100
251	254	3	3	1.81	1.18				19	1	3 cach	3	1	3 cach										n	3	83	100
																								n	3	60.33	100

Note: All lengths are given in metres

FROM	TO	length of run	length recovered	total length of pieces >10cm (NQ)	Mag Susc.	Core angle = 0 - 30				Core angle = 30 - 60				Core angle = 60 - 90				Core angle = 90-120				Core angle = 120 - 150				Core angle = 150 - 180				Graphite Y/N	C.S.	RQD %	Recovery %
						No.	shape	roughness	alteration minerals	No.	shape	roughness	alteration minerals	No.	shape	roughness	alteration minerals	No.	shape	roughness	alteration minerals	No.	shape	roughness	alteration minerals	No.	shape	roughness	alteration minerals				
218	221	3	3	2.98	0.74					2	1		3 cach	3	1		3 cach													n	3	89.33	100
221	224	3	3	2.75	3.22					4	1		3 cachpy	6	1		3 cach												n	3	91.67	100	
224	227	3	3	2.52	1.2	1	1		3 cach	2	1,2		3 cachpy	2	1		3 cach												n	3	84	100	
227	230	3	3	1.83	0.92					9	1		2 cachpy	5	1		3 cachpy											y	2	81	100		
230	233	3	3	2.58	2.2					7	1		2 cachpy	7	1		2 cachpy											y	2	86	100		
233	236	3	3	2.22	1.62	1	1		2 capy	7	1		2 capy	1	1		2 ch											y	2	74	100		
236	239	3	2.85	1.48	2.28									11	1		2 cachpyta											n	3	49.33	95		
239	242	3	3	1.21	1.52									16	1		2 cachpy											n	3	40.33	100		
242	245	3	3	1.33	1.7					3	1		2 cach	12	1		2 cach											n	3	44.33	100		
245	248	3	3	2.87	1.58									8	1		2 chpy											n	3	89	100		
248	251	3	3	2.47	1.22									17	1		2 cachpy											n	3	82.33	100		
251	254	3	3	2.58	1.42	1	1		3 cach					14	1		2 cachpy											n	3	86	100		
254	257	3	3	1.66	0.8									33	1		2 cachpy											n	3	55.33	100		
257	260	3	3	1.89	0.78									30	1		2 cach											n	3	58.33	100		
260	263	3	3	2.37	0.92									21	1		2 cachpy											n	3	79	100		
263	266	3	3	2.35	0.92									21	1		2 cachpy											n	3	78.33	100		
266	269	3	3	2.36	1.22					3	1		2 cach	22	1		2 cachpy											n	3	78.67	100		

APPENDIX D

**CERTIFICATES OF ANALYSIS
for AU in CORE SAMPLES**



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project: 546 BTC#001
Comments: ATTN: KATHY FARRELL

QC Page #: 1
Tot QC Pg: 1
Date: 15-AUG-96
Invoice #: 19626801
P.O. #: SHIP#1
IFG

AUG 23 1996

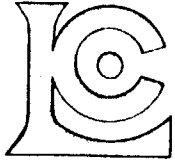
QC DATA OF CERTIFICATE

A9626801

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	---	---	2.58	-----								
546-TM23980	Dup1	01	< 0.005	-----								
	Orig1	01	< 0.005	-----								

CERTIFICATION:

[Handwritten signature]



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9626801

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9626801

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#001
P.O.#: SHIP#1

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 15-AUG-96.

SAMPLE PREPARATION

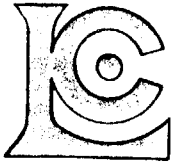
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

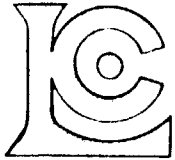
Project : 546 BTC#001
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 15-AUG-96
 Invoice No. : 19626801
 P.O. Number : SHIP#1
 Account : IFG

CERTIFICATE OF ANALYSIS A9626801

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM23980	1388 226	< 0.005	-----								
546-TM23981	1388 226	< 0.005	-----								
546-TM23982	1388 226	< 0.005	-----								
546-TM23983	1388 226	< 0.005	-----								
546-TM23984	1388 226	< 0.005	-----								
546-TM23985	1388 226	< 0.005	-----								
546-TM23986	1388 226	0.005	-----								
546-TM23987	1388 226	0.020	-----								
546-TM23988	1388 226	< 0.005	-----								
546-TM23989	1388 226	0.010	-----								
546-TM23990	1388 226	< 0.005	-----								
546-TM23991	1388 226	0.035	-----								
546-TM23992	1388 226	< 0.005	-----								
546-TM23993	1388 226	< 0.005	-----								
546-TM23994	1388 226	0.015	-----								
546-TM23995	1388 226	0.020	-----								
546-TM23996	1388 226	0.020	-----								
546-TM23997	1388 226	< 0.005	-----								
546-TM23998	1388 226	< 0.005	-----								
546-TM23999	1388 226	< 0.005	-----								
D546-TM23980	214 --	-----	< 0.005								
100560	214 --	-----	2.580								
100000	214 --	-----	< 0.005								

CERTIFICATION: *[Signature]*



Laboratoires Chemex Ltee.

Essayeurs * Géochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project: 546 BTC#002
Comments: ATTN: KATHY FARRELL

QC Page #: 1
Tot QC Pg: 1
Date: 19-AUG-96
Invoice #: 19626802
P.O. #: SHIP#1
IFG

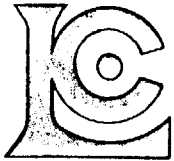
QC DATA OF CERTIFICATE

A9626802

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	---	---	2.39	-----															
546-TM24000	Dup1	1-01	< 0.005	-----															
	Orig1	1-01	< 0.005	-----															

CERTIFICATE

Andriana Alexandru



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9626802

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9626802

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#002
P.O.#: SHIP#1

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-AUG-96.

SAMPLE PREPARATION

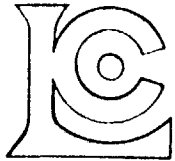
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

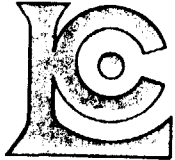
Project : 546 BTC#002
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 19 AUG 96
 Invoice No. : 19626802
 P.O. Number : SHIP#1
 Account : IFG

CERTIFICATE OF ANALYSIS A9626802

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24000	1388 226	< 0.005	-----									
546-TM24001	1388 226	< 0.005	-----									
546-TM24002	1388 226	< 0.005	-----									
546-TM24003	1388 226	< 0.005	-----									
546-TM24004	1388 226	0.025	-----									
546-TM24005	1388 226	0.035	-----									
546-TM24006	1388 226	< 0.005	-----									
546-TM24007	1388 226	< 0.005	-----									
546-TM24008	1388 226	0.040	-----									
546-TM24009	1388 226	0.005	-----									
546-TM24010	1388 226	< 0.005	-----									
546-TM24011	1388 226	< 0.005	-----									
546-TM24012	1388 226	0.005	-----									
546-TM24013	1388 226	0.040	-----									
546-TM24014	1388 226	0.050	-----									
546-TM24015	1388 226	0.020	-----									
546-TM24016	1388 226	0.080	-----									
546-TM24017	1388 226	0.415	-----									
546-TM24018	1388 226	0.005	-----									
546-TM24019	1388 226	0.010	-----									
D546-TM24000 CANMET 100000	214 -- 214 -- 214 --	----- ----- -----	< 0.005 2.450 < 0.005									

CERTIFICATION:



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

QC Page #: 1
Tot QC Pg: 1
Date: 15-AUG-96
Invoice #: 19626803
P.O. #: SHIP#1
IFG

Project: 546 BTC#003
Comments: ATTN: KATHY FARRELL

AUG 23 1996

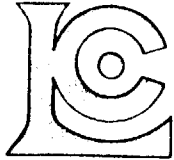
QC DATA OF CERTIFICATE

A9626803

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	----	----	2.58	-----										
546-TM24020	Dup1	01	0.025	-----										
	Orig1	01	0.025	-----										

CERTIFICATION

Handwritten signature: Katherine Farrell



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9626803

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9626803

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#003
P.O.#: SHIP#1

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 15-AUG-96.

SAMPLE PREPARATION

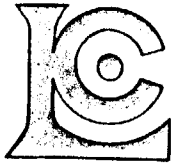
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

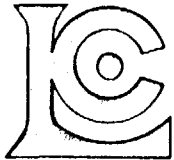
Project : 546 BTC#003
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 15-AUG-96
 Invoice No. : 19626803
 P.O. Number : SHIP#1
 Account : IFG

CERTIFICATE OF ANALYSIS A9626803

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24020	1388 226	0.025	-----									
546-TM24021	1388 226	0.010	-----									
546-TM24022	1388 226	0.030	-----									
546-TM24023	1388 226	< 0.005	-----									
546-TM24024	1388 226	< 0.005	-----									
546-TM24025	1388 226	< 0.005	-----									
546-TM24026	1388 226	< 0.005	-----									
546-TM24027	1388 226	< 0.005	-----									
546-TM24028	1388 226	< 0.005	-----									
546-TM24029	1388 226	< 0.005	-----									
546-TM24030	1388 226	< 0.005	-----									
546-TM24031	1388 226	< 0.005	-----									
546-TM24032	1388 226	< 0.005	-----									
546-TM24033	1388 226	< 0.005	-----									
546-TM24034	1388 226	< 0.005	-----									
546-TM24035	1388 226	< 0.005	-----									
546-TM24036	1388 226	0.020	-----									
546-TM24037	1388 226	0.015	-----									
546-TM24038	1388 226	0.010	-----									
546-TM24039	1388 226	< 0.005	-----									
D546-TM24020	214 --	-----	0.025									
100560	214 --	-----	2.510									
100000	214 --	-----	< 0.005									

CERTIFICATION: *Adriana Serrano*



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

AUG 21 1996

Project: 546 BTC#004
Comments: ATTN: KATHY FARRELL

QC Page #: 1
Tot QC Pg: 1
Date: 19-AUG-96
Invoice #: 19626804
P.O. #: SHIP#1
IFG

QC DATA OF CERTIFICATE

A9626804

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check									
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546-TM24040	Dup1	01	0.015	-----									
	Orig1	01	0.020	-----									

CERTIFICATE

Alexandre Legendre



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A962680-1

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9626804

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#004
P.O.#: SHIP#1

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-AUG-96.

SAMPLE PREPARATION

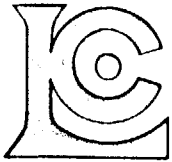
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

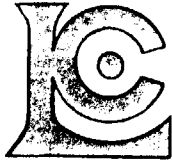
Project : 546 BTC#004
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 19 AUG 96
 Invoice No. : 19626804
 P.O. Number : SHIP#1
 Account : IFG

CERTIFICATE OF ANALYSIS A9626804

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24040	1388 226	0.020	-----									
546-TM24041	1388 226	0.015	-----									
546-TM24042	1388 226	< 0.005	-----									
546-TM24043	1388 226	0.025	-----									
546-TM24044	1388 226	0.005	-----									
546-TM24045	1388 226	0.035	-----									
546-TM24046	1388 226	0.025	-----									
546-TM24047	1388 226	0.005	-----									
546-TM24048	1388 226	< 0.005	-----									
546-TM24049	1388 226	< 0.005	-----									
546-TM24050	1388 226	0.015	-----									
546-TM24051	1388 226	0.010	-----									
546-TM24052	1388 226	0.010	-----									
546-TM24053	1388 226	0.005	-----									
546-TM24054	1388 226	0.040	-----									
546-TM24055	1388 226	0.025	-----									
546-TM24056	1388 226	0.020	-----									
546-TM24057	1388 226	< 0.005	-----									
546-TM24058	1388 226	0.005	-----									
546-TM24059	1388 226	0.015	-----									
D546-TM24040	214 --	-----	0.015									
CANMET	214 --	-----	2.430									
100000	214 --	-----	< 0.005									

CERTIFIED BY *Alexandre Alexandre*



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project: 546 BTC#005
Comments: ATTN: KATHY FARRELL

QC Page #: 1
Tot QC Pg: 1
Date: 19-AUG-96
Invoice #: 19626805
P.O. #: SHIP#1
IFG

AUG 27 1996

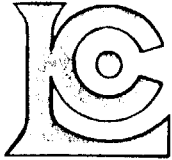
QC DATA OF CERTIFICATE

A9626805

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check								
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	---	---	2.58	-----								
546-TM24060	Dup1	01	0.050	-----								
	Orig1	01	0.055	-----								

CERTIFIED

Adriana Alexandra



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9626805

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9626805

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#005
P.O.#: SHIP#1

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-AUG-96.

SAMPLE PREPARATION

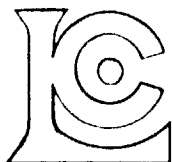
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#005
 Comments: ATTN: KATHY FARRELL

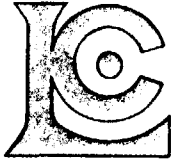
Page Number : 1
 Total Pages : 1
 Certificate Date: 19 AUG 96
 Invoice No. : 19626805
 P.O. Number : SHIP#1
 Account : IFG

CERTIFICATE OF ANALYSIS

A9626805

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24060	1388 226	0.055	-----									
546-TM24061	1388 226	0.040	-----									
546-TM24062	1388 226	0.025	-----									
546-TM24063	1388 226	0.020	-----									
546-TM24064	1388 226	< 0.005	-----									
546-TM24065	1388 226	< 0.005	-----									
546-TM24066	1388 226	< 0.005	-----									
546-TM24067	1388 226	< 0.005	-----									
546-TM24068	1388 226	< 0.005	-----									
546-TM24069	1388 226	< 0.005	-----									
546-TM24070	1388 226	< 0.005	-----									
546-TM24071	1388 226	< 0.005	-----									
546-TM24072	1388 226	< 0.005	-----									
546-TM24073	1388 226	< 0.005	-----									
546-TM24074	1388 226	< 0.005	-----									
546-TM24075	1388 226	< 0.005	-----									
546-TM24076	1388 226	< 0.005	-----									
546-TM24077	1388 226	< 0.005	-----									
546-TM24078	1388 226	0.005	-----									
546-TM24079	1388 226	0.010	-----									
D546-TM24060	214 --	-----	0.050									
100560	214 --	-----	2.580									
100000	214 --	-----	< 0.005									

CERTIFIED *Adriana Alexandra*



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

AUG 27 1996

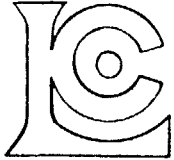
Project: 546 BTC#006
Comments: ATTN: KATHY FARRELL

QC Page #: 1
Tot QC Pg: 1
Date: 19-AUG-96
Invoice #: 19626806
P.O. #: SHIP#1
IFG

QC DATA OF CERTIFICATE A9626806

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check								
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	----	----	2.39	-----								
546-TM24080	Dup1	01	0.015	-----								
	Orig1	01	0.010	-----								

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PHONE: 819-797-1922 FAX: 819-797-0106

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TIMMINS, ON
P4N 7H1

A9626806

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9626806

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#006
P.O.#: SHIP#1

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
1202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



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EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546 BTC#006
Comments: ATTN: KATHY FARRELL

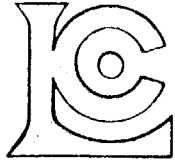
Page Number : 1
Total Pages : 1
Certificate Date: 19-AUG-96
Invoice No. : 19626806
P.O. Number : SHIP#1
Account : IFG

CERTIFICATE OF ANALYSIS

A9626806

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24080	1388 226	0.010	-----								
546-TM24081	1388 226	< 0.005	-----								
546-TM24082	1388 226	< 0.005	-----								
546-TM24083	1388 226	< 0.005	-----								
546-TM24084	1388 226	< 0.005	-----								
546-TM24085	1388 226	0.030	-----								
546-TM24086	1388 226	0.015	-----								
546-TM24087	1388 226	< 0.005	-----								
546-TM24088	1388 226	< 0.005	-----								
546-TM24089	1388 226	< 0.005	-----								
546-TM24090	1388 226	< 0.005	-----								
546-TM24091	1388 226	0.025	-----								
546-TM24092	1388 226	0.010	-----								
546-TM24093	1388 226	0.010	-----								
546-TM24094	1388 226	< 0.005	-----								
546-TM24095	1388 226	< 0.005	-----								
546-TM24096	1388 226	0.005	-----								
546-TM24097	1388 226	< 0.005	-----								
546-TM24098	1388 226	0.010	-----								
546-TM24099	1388 226	< 0.005	-----								
D546-TM24080	214 --	-----	0.015								
CANMET	214 --	-----	2.420								
100000	214 --	-----	< 0.005								

CERTIFIED *Adriana Alexandra*



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175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

QC Page #: 1
Tot QC Pg: 1
Date: 19-AUG-96
Invoice #: 19626807
P.O. #: SHIP#1
IFG

Project: 546 BTC#007
Comments: ATTN: KATHY FARRELL

QC DATA OF CERTIFICATE

A9626807

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check																
NEW-95 CHEMEX MEAN	Std1 ---	1 ---	2.63 2.58	----- -----																
546-TM24100	Dup1 Orig1	1-01 1-01	0.015 0.015	----- -----																

CERTIFIED BY *Alexandra Alexandra*



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175 Boul. Industriel C.P. 284, Rouyn
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PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9626807

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9626807

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#007
P.O.#: SHIP#1

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-AUG-96.

SAMPLE PREPARATION

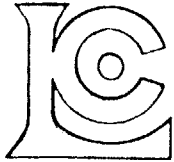
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



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PHONE: 819-797-1922 FAX: 819-797-0106

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EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546 BTC#007
Comments: ATTN: KATHY FARRELL

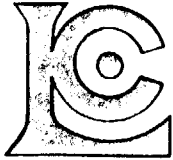
Page Number : 1
Total Pages : 1
Certificate Date: 19 AUG 96
Invoice No. : 19626807
P.O. Number : SIIP#1
Account : IFG

CERTIFICATE OF ANALYSIS

A9626807

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24100	1388 226	0.015	-----									
546-TM24101	1388 226	0.010	-----									
546-TM24102	1388 226	< 0.005	-----									
546-TM24103	1388 226	< 0.005	-----									
546-TM24104	1388 226	0.015	-----									
546-TM24105	1388 226	0.055	-----									
546-TM24106	1388 226	< 0.005	-----									
546-TM24107	1388 226	0.005	-----									
546-TM24108	1388 226	0.115	-----									
546-TM24109	1388 226	0.085	-----									
546-TM24110	1388 226	0.025	-----									
546-TM24111	1388 226	0.015	-----									
546-TM24112	1388 226	0.005	-----									
546-TM24113	1388 226	0.010	-----									
546-TM24114	1388 226	0.110	-----									
546-TM24115	1388 226	< 0.005	-----									
546-TM24116	1388 226	0.005	-----									
546-TM24117	1388 226	< 0.005	-----									
546-TM24118	1388 226	< 0.005	-----									
546-TM24119	1388 226	< 0.005	-----									
D546-TM24100	214 --	-----	0.015									
100560	214 --	-----	2.630									
100000	214 --	-----	< 0.005									

CERTIFIED *Adriana Alexandra*



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175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

AUG 21 1995

QC Page #: 1
Tot QC Pg: 1
Date: 19-AUG-95
Invoice #: I9626808
P.O. #: SHIP#1
IFG

Project: 546 BTC#008
Comments: ATTN: KATHY FARRELL

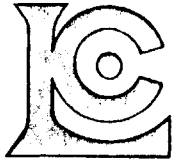
QC DATA OF CERTIFICATE

A9626808

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check								
MA-2B	std	1	2.50	-----								
CHEMEX MEAN	---	---	2.39	-----								
546-TM24120	Dup	1-01	< 0.005	-----								
	Orig	1-01	< 0.005	-----								

CERTIFIED BY

Alicia Alexander



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175 Boul, Industriel C.P. 284, Rouyn
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PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9626808

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9626808

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#008
P.O.#: SHIP#1

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-AUG-96.

SAMPLE PREPARATION

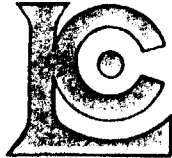
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214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

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175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

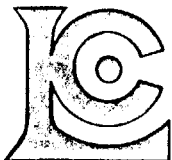
Project : 546 BTC#008
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 19-AUG-96
 Invoice No. : 19626808
 P.O. Number : SHIP#1
 Account : IFG

CERTIFICATE OF ANALYSIS A9626808

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24120	1388	226	< 0.005	-----							
546-TM24121	1388	226	< 0.005	-----							
546-TM24122	1388	226	0.010	-----							
546-TM24123	1388	226	< 0.005	-----							
546-TM24124	1388	226	0.030	-----							
546-TM24125	1388	226	< 0.005	-----							
546-TM24126	1388	226	< 0.005	-----							
546-TM24127	1388	226	< 0.005	-----							
546-TM24128	1388	226	0.010	-----							
546-TM24129	1388	226	0.030	-----							
546-TM24130	1388	226	< 0.005	-----							
546-TM24131	1388	226	0.015	-----							
546-TM24132	1388	226	< 0.005	-----							
546-TM24133	1388	226	< 0.005	-----							
546-TM24134	1388	226	< 0.005	-----							
546-TM24135	1388	226	< 0.005	-----							
546-TM24136	1388	226	< 0.005	-----							
546-TM24137	1388	226	< 0.005	-----							
546-TM24138	1388	226	< 0.005	-----							
546-TM24139	1388	226	0.060	-----							
D546-TM24120	214	--	-----	< 0.005							
CANMET	214	--	-----	2.500							
100000	214	--	-----	< 0.005							

CERTIFIED BY *Adriano Alexandre*



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175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
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QC Page #: 1
Tot QC Pg: 1
Date: 19-AUG-96
Invoice #: 19626811
P.O. #: SHIP#1
IFG

AUG 27 1996

Project: 546 BTC#009
Comments: ATTN: KATHY FARRELL

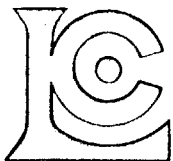
QC DATA OF CERTIFICATE

A9626811

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check										
NEW-95 CHEMEX MEAN	Std1	1	2.61	-----										
	---	---	2.58	-----										
546-TM24140	Dup1-01		< 0.005	-----										
	Orig1-01		< 0.005	-----										

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Alicia Alexandra



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175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9626811

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9626811

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#009
P.O.#: SHIP#1

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-AUG-96.

ANALYTICAL PROCEDURES

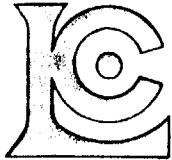
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
1202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.



Laboratoires Chemex Ltee.

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 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

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 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#009
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 19-AUG-96
 Invoice No. : 19626811
 P.O. Number : SHIP#1
 Account : IFG

CERTIFICATE OF ANALYSIS A9626811

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24140	1388	226	< 0.005	-----							
546-TM24141	1388	226	< 0.005	-----							
546-TM24142	1388	226	< 0.005	-----							
546-TM24143	1388	226	0.030	-----							
546-TM24144	1388	226	0.040	-----							
546-TM24145	1388	226	< 0.005	-----							
546-TM24146	1388	226	< 0.005	-----							
546-TM24147	1388	226	0.010	-----							
546-TM24148	1388	226	< 0.005	-----							
546-TM24149	1388	226	< 0.005	-----							
546-TM24150	1388	226	< 0.005	-----							
546-TM24151	1388	226	0.050	-----							
546-TM24152	1388	226	0.005	-----							
546-TM24153	1388	226	0.005	-----							
546-TM24154	1388	226	< 0.005	-----							
546-TM24155	1388	226	< 0.005	-----							
546-TM24156	1388	226	< 0.005	-----							
546-TM24157	1388	226	< 0.005	-----							
546-TM24158	1388	226	0.030	-----							
546-TM24159	1388	226	0.035	-----							
D546-TM24140	214	--	-----	< 0.005							
100560	214	--	-----	2.610							
100000	214	--	-----	< 0.005							

CERTIFICATE

Alicia Alexandra



Laboratoires Chemex Ltee.

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175 Boul. Industriel C.P. 284. Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

AUG 21 1996

Project: 546 BTC#010
Comments: ATTN: KATHY FARRELL

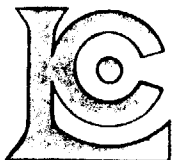
QC Page #: 1
Tot QC Pg: 1
Date: 19-AUG-96
Invoice #: I9626812
P.O. #: SHIP#1
IFG

QC DATA OF CERTIFICATE

A9626812

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check								
MA-2B CHEMEX MEAN	Std1	1	2.22	-----								
	---	---	2.39	-----								
546-TM24171	Dup1	01	0.020	-----								
	Orig1	01	0.015	-----								

CERTIFIED *Liliana Alexandra*



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Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9626812

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9626812

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#010
P.O.#: SHIP#1

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-AUG-96.

SAMPLE PREPARATION

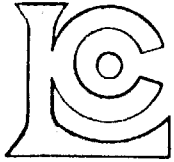
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

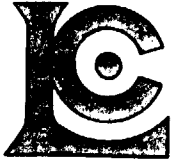
Project: 546 BTC#010
 Comments: ATTN: KATHY FARRELL

Page Number :1
 Total Pages :1
 Certificate Date: 19-AUG-96
 Invoice No. :19626812
 P.O. Number :SHIP#1
 Account :IFG

CERTIFICATE OF ANALYSIS A9626812

SAMPLE	PREP CODE		Au g/t FA+AA	Au check								
546-TM24171	1388	226	0.015	-----								
546-TM24172	1388	226	0.020	-----								
546-TM24173	1388	226	0.010	-----								
546-TM24174	1388	226	< 0.005	-----								
546-TM24175	1388	226	0.020	-----								
546-TM24176	1388	226	< 0.005	-----								
546-TM24177	1388	226	< 0.005	-----								
546-TM24178	1388	226	0.010	-----								
546-TM24179	1388	226	0.005	-----								
546-TM24180	1388	226	< 0.005	-----								
546-TM24181	1388	226	< 0.005	-----								
546-TM24182	1388	226	< 0.005	-----								
546-TM24183	1388	226	< 0.005	-----								
546-TM24184	1388	226	< 0.005	-----								
546-TM24185	1388	226	< 0.005	-----								
546-TM24186	1388	226	< 0.005	-----								
546-TM24187	1388	226	< 0.005	-----								
546-TM24188	1388	226	< 0.005	-----								
546-TM24189	1388	226	< 0.005	-----								
546-TM24190	1388	226	< 0.005	-----								
D546-TM24171 CANMET 100000	214	--	-----	0.025								
	214	--	-----	2.220								
	214	--	-----	< 0.005								

CERTIFICATE OF ANALYSIS
Alexandra Alexandre



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

SEP 10 1996

A9627596

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9627596

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#011
P.O.#:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 22-AUG-96.

SAMPLE PREPARATION

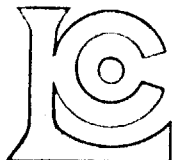
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546 BTC#011
Comments: ATTN: KATHY FARRELL

Page Number :1
Total Pages :1
Certificate Date: 22-AUG-96
Invoice No. :19627596
P.O. Number :
Account :IFG

CERTIFICATE OF ANALYSIS

A9627596

SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
546-TM24191	1388	226	< 0.005	-----									
546-TM24192	1388	226	0.045	-----									
546-TM24193	1388	226	< 0.005	-----									
546-TM24194	1388	226	< 0.005	-----									
546-TM24195	1388	226	< 0.005	-----									
546-TM24196	1388	226	< 0.005	-----									
546-TM24197	1388	226	< 0.005	-----									
546-TM24198	1388	226	< 0.005	-----									
546-TM24199	1388	226	< 0.005	-----									
546-TM24200	1388	226	< 0.005	-----									
546-TM24201	1388	226	< 0.005	-----									
546-TM24202	1388	226	< 0.005	-----									
546-TM24203	1388	226	< 0.005	-----									
546-TM24204	1388	226	< 0.005	-----									
546-TM24205	1388	226	< 0.005	-----									
546-TM24206	1388	226	< 0.005	-----									
546-TM24207	1388	226	< 0.005	-----									
546-TM24208	1388	226	< 0.005	-----									
546-TM24209	1388	226	< 0.005	-----									
546-TM24210	1388	226	< 0.005	-----									
D546-TM24191	214	--	-----	< 0.005									
100560	214	--	-----	2.700									
100000	214	--	-----	< 0.005									

CERTIFICATION:

Alexandra



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9627597

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9627597

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#012
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 22-AUG-96.

SAMPLE PREPARATION

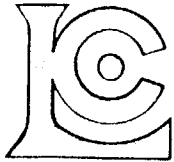
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546 BTC#012
Comments: ATTN: KATHY FARRELL

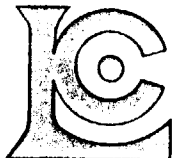
Page Number : 1
Total Pages : 1
Certificate Date: 22-AUG-96
Invoice No. : 19627597
P.O. Number :
Account : IFG

CERTIFICATE OF ANALYSIS

A9627597

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24211	1388 226	0.015	-----								
546-TM24212	1388 226	< 0.005	-----								
546-TM24213	1388 226	< 0.005	-----								
546-TM24214	1388 226	< 0.005	-----								
546-TM24215	1388 226	< 0.005	-----								
546-TM24216	1388 226	< 0.005	-----								
546-TM24217	1388 226	0.010	-----								
546-TM24218	1388 226	0.020	-----								
546-TM24219	1388 226	0.010	-----								
546-TM24220	1388 226	0.010	-----								
546-TM24221	1388 226	0.020	-----								
546-TM24222	1388 226	0.020	-----								
546-TM24223	1388 226	0.035	-----								
546-TM24224	1388 226	0.025	-----								
546-TM24225	1388 226	0.010	-----								
546-TM24226	1388 226	0.025	-----								
546-TM24227	1388 226	0.020	-----								
546-TM24228	1388 226	0.035	-----								
546-TM24229	1388 226	0.010	-----								
546-TM24230	1388 226	0.025	-----								
D546-TM24211	214 --	-----	0.020								
CANMET	214 --	-----	2.500								
100000	214 --	-----	< 0.005								

CERTIFICATION: *Audiana Alexandra*



Laboratoires Chemex Ltee.

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175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9627598

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9627598

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#013

P.O.#:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 22-AUG-96.

SAMPLE PREPARATION

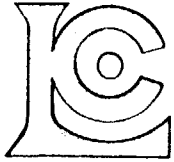
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



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175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546 BTC#013
Comments: ATTN: KATHY FARRELL

Page Number :1
Total Pages :1
Certificate Date: 22-AUG-96
Invoice No. :19627598
P.O. Number :
Account :IFG

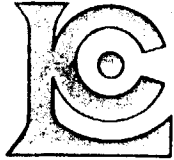
CERTIFICATE OF ANALYSIS

A9627598

SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
546-TM24231	1388	226	0.015	-----									
546-TM24232	1388	226	0.010	-----									
546-TM24233	1388	226	0.010	-----									
546-TM24234	1388	226	0.015	-----									
546-TM24235	1388	226	< 0.005	-----									
546-TM24236	1388	226	< 0.005	-----									
546-TM24237	1388	226	< 0.005	-----									
546-TM24238	1388	226	0.035	-----									
546-TM24239	1388	226	< 0.005	-----									
546-TM24240	1388	226	0.010	-----									
546-TM24241	1388	226	0.010	-----									
546-TM24242	1388	226	0.025	-----									
546-TM24243	1388	226	0.010	-----									
546-TM24244	1388	226	0.005	-----									
546-TM24245	1388	226	0.015	-----									
546-TM24246	1388	226	< 0.005	-----									
546-TM24247	1388	226	0.015	-----									
546-TM24248	1388	226	< 0.005	-----									
546-TM24249	1388	226	< 0.005	-----									
546-TM24250	1388	226	< 0.005	-----									
D546-TM24231	214	--	-----	0.015									
100560	214	--	-----	2.590									
100000	214	--	-----	< 0.005									

CERTIFICATION

Alexandra



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9627599

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9627599

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#014
P.O.#:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 23-AUG-96.

SAMPLE PREPARATION

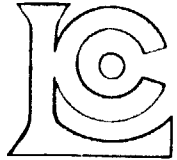
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#014
 Comments: ATTN: KATHY FARRELL

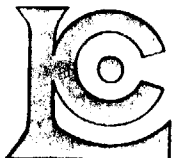
Page Number : 1
 Total Pages : 1
 Certificate Date: 23-AUG 96
 Invoice No. : 19627599
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS

A9627599

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24251	1388	226	< 0.005	-----								
546-TM24252	1388	226	< 0.005	-----								
546-TM24253	1388	226	< 0.005	-----								
546-TM24254	1388	226	< 0.005	-----								
546-TM24255	1388	226	< 0.005	-----								
546-TM24256	1388	226	< 0.005	-----								
546-TM24257	1388	226	0.015	-----								
546-TM24258	1388	226	0.050	-----								
546-TM24259	1388	226	0.035	-----								
546-TM24260	1388	226	0.025	-----								
546-TM24261	1388	226	< 0.005	-----								
546-TM24262	1388	226	< 0.005	-----								
546-TM24263	1388	226	0.020	-----								
546-TM24264	1388	226	< 0.005	-----								
546-TM24265	1388	226	0.005	-----								
546-TM24266	1388	226	< 0.005	-----								
546-TM24267	1388	226	< 0.005	-----								
546-TM24268	1388	226	0.015	-----								
546-TM24269	1388	226	< 0.005	-----								
546-TM24270	1388	226	< 0.005	-----								
D546-TM24251	214	--	-----	< 0.005								
CANMET	214	--	-----	2.420								
100000	214	--	-----	< 0.005								

CERTIFICATION: _____



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9627600

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9627600

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#015

P.O.#:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 23-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project: 546 BTC#015
 Comments: ATTN: KATHY FARRELL

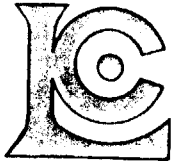
Page Number :1
 Total Pages :1
 Certificate Date: 23-AUG-96
 Invoice No. :19627600
 P.O. Number :
 Account :IFG

CERTIFICATE OF ANALYSIS

A9627600

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24271	1388 226	< 0.005	-----								
546-TM24272	1388 226	0.025	-----								
546-TM24273	1388 226	0.030	-----								
546-TM24274	1388 226	< 0.005	-----								
546-TM24275	1388 226	< 0.005	-----								
546-TM24276	1388 226	0.040	-----								
546-TM24277	1388 226	< 0.005	-----								
546-TM24278	1388 226	< 0.005	-----								
546-TM24279	1388 226	0.005	-----								
546-TM24280	1388 226	0.080	-----								
546-TM24281	1388 226	< 0.005	-----								
546-TM24282	1388 226	0.100	-----								
546-TM24283	1388 226	0.025	-----								
546-TM24284	1388 226	< 0.005	-----								
546-TM24285	1388 226	< 0.005	-----								
546-TM24286	1388 226	< 0.005	-----								
546-TM24287	1388 226	< 0.005	-----								
546-TM24288	1388 226	< 0.005	-----								
546-TM24289	1388 226	< 0.005	-----								
546-TM24290	1388 226	< 0.005	-----								
D546-TM24271	214 --	-----	< 0.005								
100560	214 --	-----	2.600								
100000	214 --	-----	< 0.005								

CERTIFICATION: _____



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

SEP 11 1996

A9627601

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9627601

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#015
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 23-AUG-96.

SAMPLE PREPARATION

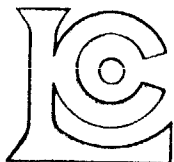
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494 1350	20 3	Au g/t: Fuse 30 g sample Au check analysis	FA-AAS	0.005 0.005	12.00 10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#015
 Comments: ATTN: KATHY FARRELL

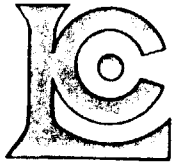
Page Number : 1
 Total Pages : 1
 Certificate Date: 23-AUG 96
 Invoice No. : I9627601
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS

A9627601

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24291	1388 226	< 0.005	-----									
546-TM24292	1388 226	< 0.005	-----									
546-TM24293	1388 226	< 0.005	-----									
546-TM24294	1388 226	< 0.005	-----									
546-TM24295	1388 226	< 0.005	-----									
546-TM24296	1388 226	< 0.005	-----									
546-TM24297	1388 226	< 0.005	-----									
546-TM24298	1388 226	< 0.005	-----									
546-TM24299	1388 226	< 0.005	-----									
546-TM24300	1388 226	0.005	-----									
546-TM24301	1388 226	< 0.005	-----									
546-TM24302	1388 226	< 0.005	-----									
546-TM24303	1388 226	< 0.005	-----									
546-TM24304	1388 226	< 0.005	-----									
546-TM24305	1388 226	< 0.005	-----									
546-TM24306	1388 226	< 0.005	-----									
546-TM24307	1388 226	0.040	-----									
546-TM24308	1388 226	< 0.005	-----									
546-TM24309	1388 226	< 0.005	-----									
546-TM24310	1388 226	< 0.005	-----									
D546-TM24291	214 --	-----	< 0.005									
CANMET	214 --	-----	2.390									
100000	214 --	-----	< 0.005									

CERTIFICATION: _____



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9627602

SEP 10 1996

Comments: ATTN: KATHY FARRELL

CERTIFICATE **A9627602**

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#017
P.O.#:

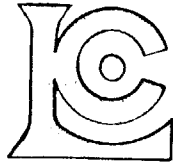
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 23-AUG-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

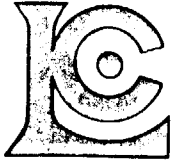
Project : 546 BTC#017
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 23-AUG-96
 Invoice No. : 19627602
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS A9627602

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24311	1388 226	< 0.005	-----									
546-TM24312	1388 226	< 0.005	-----									
546-TM24313	1388 226	< 0.005	-----									
546-TM24314	1388 226	< 0.005	-----									
546-TM24315	1388 226	< 0.005	-----									
546-TM24316	1388 226	< 0.005	-----									
546-TM24317	1388 226	< 0.005	-----									
546-TM24318	1388 226	< 0.005	-----									
546-TM24319	1388 226	0.115	-----									
546-TM24320	1388 226	0.055	-----									
546-TM24321	1388 226	< 0.005	-----									
546-TM24322	1388 226	< 0.005	-----									
546-TM24323	1388 226	0.010	-----									
546-TM24324	1388 226	< 0.005	-----									
546-TM24325	1388 226	< 0.005	-----									
546-TM24326	1388 226	0.015	-----									
546-TM24327	1388 226	0.010	-----									
546-TM24328	1388 226	0.010	-----									
546-TM24329	1388 226	0.015	-----									
546-TM24330	1388 226	0.270	-----									
D546-TM24311	214 --	-----	< 0.005									
100560	214 --	-----	2.480									
100000	214 --	-----	< 0.005									

CERTIFICATION: _____



Laboratoires Chemex Ltee.

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175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

511-1-1-1

A9627603

Comments: ATTN: KATHY FARRELL

CERTIFICATE A9627603

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#018
P.O. #:

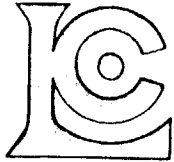
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 23-AUG-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#018
 Comments: ATTN: KATHY FARRELL

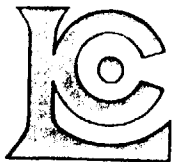
Page Number : 1
 Total Pages : 1
 Certificate Date: 23-AUG-96
 Invoice No. : 19627603
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS

A9627603

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24331	1388 226	< 0.005	-----								
546-TM24332	1388 226	< 0.005	-----								
546-TM24333	1388 226	< 0.005	-----								
546-TM24334	1388 226	0.010	-----								
546-TM24335	1388 226	0.030	-----								
546-TM24336	1388 226	< 0.005	-----								
546-TM24337	1388 226	< 0.005	-----								
546-TM24338	1388 226	0.020	-----								
546-TM24339	1388 226	0.015	-----								
546-TM24340	1388 226	< 0.005	-----								
546-TM24341	1388 226	< 0.005	-----								
546-TM24342	1388 226	0.025	-----								
546-TM24343	1388 226	0.010	-----								
546-TM24344	1388 226	0.005	-----								
546-TM24345	1388 226	0.010	-----								
546-TM24346	1388 226	< 0.005	-----								
546-TM24347	1388 226	0.020	-----								
546-TM24348	1388 226	0.010	-----								
546-TM24349	1388 226	< 0.005	-----								
546-TM24350	1388 226	< 0.005	-----								
D546-TM24331	214 --	-----	< 0.005								
CANMET	214 --	-----	2.390								
100000	214 --	-----	< 0.005								

CERTIFICATION: _____



Laboratoires Chemex Ltee.

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175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9627604

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9627604

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#019
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 23-AUG-96.

SAMPLE PREPARATION

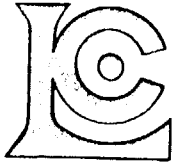
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



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 175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#019
 Comments: ATTN: KATHY FARRELL

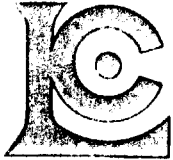
Page Number : 1
 Total Pages : 1
 Certificate Date: 23-AUG-96
 Invoice No. : 19627604
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS

A9627604

SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
546-TM24351	1388	226	0.015	-----									
546-TM24352	1388	226	0.005	-----									
546-TM24353	1388	226	< 0.005	-----									
546-TM24354	1388	226	0.005	-----									
546-TM24355	1388	226	0.005	-----									
546-TM24356	1388	226	0.015	-----									
546-TM24357	1388	226	0.020	-----									
546-TM24358	1388	226	< 0.005	-----									
546-TM24359	1388	226	< 0.005	-----									
546-TM24360	1388	226	0.005	-----									
546-TM24361	1388	226	< 0.005	-----									
546-TM24362	1388	226	0.010	-----									
546-TM24363	1388	226	< 0.005	-----									
546-TM24364	1388	226	< 0.005	-----									
546-TM24365	1388	226	0.100	-----									
546-TM24366	1388	226	< 0.005	-----									
546-TM24367	1388	226	< 0.005	-----									
546-TM24368	1388	226	< 0.005	-----									
546-TM24369	1388	226	< 0.005	-----									
546-TM24370	1388	226	< 0.005	-----									
D546-TM24351	214	--	-----	0.010									
100560	214	--	-----	2.660									
100000	214	--	-----	< 0.005									

CERTIFICATION: _____



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175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

SEP 10 1996

A9628273

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9628273

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#20
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 26-AUG-96.

SAMPLE PREPARATION

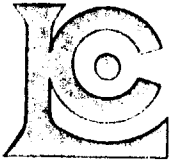
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
208	20	Assay ring to approx 150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494 1350	20 3	Au g/t: Fuse 30 g sample Au check analysis	FA-AAS	0.005 0.005	12.00 10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546 BTC#20
Comments: ATTN: KATHY FARRELL

Page Number : 1
Total Pages : 1
Certificate Date: 26-AUG-96
Invoice No. : I9628273
P.O. Number :
Account : IFG

CERTIFICATE OF ANALYSIS A9628273

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24371	208	226	< 0.005	-----								
546-TM24372	208	226	< 0.005	-----								
546-TM24373	208	226	< 0.005	-----								
546-TM24374	208	226	0.010	-----								
546-TM24375	208	226	< 0.005	-----								
546-TM24376	208	226	0.015	-----								
546-TM24377	208	226	< 0.005	-----								
546-TM24378	208	226	< 0.005	-----								
546-TM24379	208	226	< 0.005	-----								
546-TM24380	208	226	< 0.005	-----								
546-TM24381	208	226	< 0.005	-----								
546-TM24382	208	226	< 0.005	-----								
546-TM24383	208	226	0.010	-----								
546-TM24384	208	226	< 0.005	-----								
546-TM24385	208	226	< 0.005	-----								
546-TM24386	208	226	0.010	-----								
546-TM24387	208	226	< 0.005	-----								
546-TM24388	208	226	< 0.005	-----								
546-TM24389	208	226	< 0.005	-----								
546-TM24390	208	226	< 0.005	-----								
D546-TM24371	214	--	-----	< 0.005								
100560	214	--	-----	2.630								
100000	214	--	-----	< 0.005								

CERTIFICATION: _____



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9628274

Comments: ATTN: KATHY FARRELL

SEP 11 1996

CERTIFICATE

A9628274

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#21
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 26-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
208	20	Assay ring to approx 150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#21
 Comments: ATTN: KATHY FARRELL

Page Number : 1
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 Certificate Date: 26-AUG-96
 Invoice No. : 19628274
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS

A9628274

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24391	208 226	< 0.005	-----								
546-TM24392	208 226	0.010	-----								
546-TM24393	208 226	< 0.005	-----								
546-TM24394	208 226	0.030	-----								
546-TM24395	208 226	< 0.005	-----								
546-TM24396	208 226	< 0.005	-----								
546-TM24397	208 226	< 0.005	-----								
546-TM24398	208 226	< 0.005	-----								
546-TM24399	208 226	0.025	-----								
546-TM24400	208 226	0.010	-----								
546-TM24401	208 226	0.005	-----								
546-TM24402	208 226	0.015	-----								
546-TM24403	208 226	0.035	-----								
546-TM24404	208 226	0.005	-----								
546-TM24405	208 226	0.005	-----								
546-TM24406	208 226	0.010	-----								
546-TM24407	208 226	0.005	-----								
546-TM24408	208 226	0.030	-----								
546-TM24409	208 226	0.005	-----								
546-TM24410	208 226	< 0.005	-----								
D546-TM24391	214 --	-----	< 0.005								
CANMET	214 --	-----	2.450								
100000	214 --	-----	< 0.005								

CERTIFICATION: _____



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9628275

Comments: ATTN: KATHY FARRELL

SEP 1996

CERTIFICATE

A9628275

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#22

P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 26-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
208	20	Assay ring to approx 150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#22
 Comments: ATTN: KATHY FARRELL

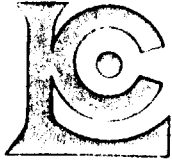
Page Number : 1
 Total Pages : 1
 Certificate Date: 26-AUG-96
 Invoice No. : 19628275
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS

A9628275

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24411	208 226	< 0.005	-----									
546-TM24412	208 226	0.025	-----									
546-TM24413	208 226	0.005	-----									
546-TM24414	208 226	< 0.005	-----									
546-TM24415	208 226	0.010	-----									
546-TM24416	208 226	0.015	-----									
546-TM24417	208 226	0.010	-----									
546-TM24418	208 226	< 0.005	-----									
546-TM24419	208 226	< 0.005	-----									
546-TM24420	208 226	< 0.005	-----									
546-TM24421	208 226	0.015	-----									
546-TM24422	208 226	0.015	-----									
546-TM24423	208 226	< 0.005	-----									
546-TM24424	208 226	< 0.005	-----									
546-TM24425	208 226	0.005	-----									
546-TM24426	208 226	0.005	-----									
546-TM24427	208 226	< 0.005	-----									
546-TM24428	208 226	0.005	-----									
546-TM24429	208 226	0.005	-----									
546-TM24430	208 226	0.005	-----									
D546-TM24411	214 --	-----	< 0.005									
100560	214 --	-----	2.580									
100000	214 --	-----	< 0.005									

CERTIFICATION: _____



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

SEP 10 1996

A9628276

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9628276

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#23
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 26-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
208	20	Assay ring to approx 150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

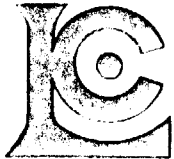
Page Number : 1
 Total Pages : 1
 Certificate Date: 26-AUG 96
 Invoice No. : 19628276
 P.O. Number :
 Account : IFG

Project : 546 BTC#23
 Comments: ATTN: KATHY FARRELL

CERTIFICATE OF ANALYSIS A9628276

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24431	208	226	< 0.005	-----								
546-TM24432	208	226	< 0.005	-----								
546-TM24433	208	226	< 0.005	-----								
546-TM24434	208	226	< 0.005	-----								
546-TM24435	208	226	< 0.005	-----								
546-TM24436	208	226	< 0.005	-----								
546-TM24437	208	226	< 0.005	-----								
546-TM24438	208	226	< 0.005	-----								
546-TM24439	208	226	< 0.005	-----								
546-TM24440	208	226	< 0.005	-----								
546-TM24441	208	226	< 0.005	-----								
546-TM24442	208	226	< 0.005	-----								
546-TM24443	208	226	< 0.005	-----								
546-TM24444	208	226	< 0.005	-----								
546-TM24445	208	226	< 0.005	-----								
546-TM24446	208	226	< 0.005	-----								
546-TM24447	208	226	< 0.005	-----								
546-TM24448	208	226	< 0.005	-----								
546-TM24449	208	226	0.005	-----								
546-TM24450	208	226	< 0.005	-----								
D546-TM24431	214	--	-----	< 0.005								
CANMET	214	--	-----	2.300								
100000	214	--	-----	< 0.005								

CERTIFICATION: _____



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9628277

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9628277

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#24
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 26-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
208	20	Assay ring to approx 150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

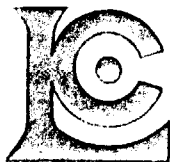
Page Number : 1
 Total Pages : 1
 Certificate Date: 26-AUG-96
 Invoice No. : 19628277
 P.O. Number :
 Account : IFG

Project : 546 BTC#24
 Comments: ATTN: KATHY FARRELL

CERTIFICATE OF ANALYSIS A9628277

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24451	208	226	< 0.005	-----								
546-TM24452	208	226	< 0.005	-----								
546-TM24453	208	226	< 0.005	-----								
546-TM24454	208	226	< 0.005	-----								
546-TM24455	208	226	< 0.005	-----								
546-TM24456	208	226	< 0.005	-----								
546-TM24457	208	226	< 0.005	-----								
546-TM24458	208	226	< 0.005	-----								
546-TM24459	208	226	< 0.005	-----								
546-TM24460	208	226	< 0.005	-----								
546-TM24461	208	226	< 0.005	-----								
546-TM24462	208	226	0.005	-----								
546-TM24463	208	226	< 0.005	-----								
546-TM24464	208	226	< 0.005	-----								
546-TM24465	208	226	< 0.005	-----								
546-TM24466	208	226	< 0.005	-----								
546-TM24467	208	226	0.015	-----								
546-TM24468	208	226	< 0.005	-----								
546-TM24469	208	226	0.030	-----								
546-TM24470	208	226	< 0.005	-----								
D546-TM24451	214	--	-----	< 0.005								
100560	214	--	-----	2.480								
100000	214	--	-----	< 0.005								

CERTIFICATION: _____



Laboratoires Chemex Ltee.

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175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9628278

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9628278

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#25
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 26-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
208	20	Assay ring to approx 150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

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175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#25
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 26-AUG-96
 Invoice No. : 19628278
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS

A9628278

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24471	208 226	< 0.005	-----									
546-TM24472	208 226	< 0.005	-----									
546-TM24473	208 226	< 0.005	-----									
546-TM24474	208 226	< 0.005	-----									
546-TM24475	208 226	< 0.005	-----									
546-TM24476	208 226	< 0.005	-----									
546-TM24477	208 226	< 0.005	-----									
546-TM24478	208 226	< 0.005	-----									
546-TM24479	208 226	0.020	-----									
546-TM24480	208 226	0.010	-----									
546-TM24481	208 226	< 0.005	-----									
546-TM24482	208 226	< 0.005	-----									
546-TM24483	208 226	0.005	-----									
546-TM24484	208 226	< 0.005	-----									
546-TM24485	208 226	0.010	-----									
546-TM24486	208 226	< 0.005	-----									
546-TM24487	208 226	0.015	-----									
546-TM24488	208 226	< 0.005	-----									
546-TM24489	208 226	0.055	-----									
546-TM24490	208 226	< 0.005	-----									
D546-TM24471	214 --	-----	< 0.005									
CANMET	214 --	-----	2.500									
100000	214 --	-----	< 0.005									

CERTIFICATION: _____



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175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

SEP 10 1996

A9628279

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9628279

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#26
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 26-AUG-96.

SAMPLE PREPARATION

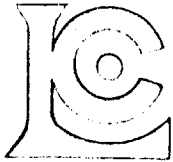
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
208	20	Assay ring to approx 150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#26
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 26-AUG-96
 Invoice No. : 19628279
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS A9628279

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24491	208 226	0.010	-----								
546-TM24492	208 226	< 0.005	-----								
546-TM24493	208 226	0.045	-----								
546-TM24494	208 226	< 0.005	-----								
546-TM24495	208 226	< 0.005	-----								
546-TM24496	208 226	< 0.005	-----								
546-TM24497	208 226	< 0.005	-----								
546-TM24498	208 226	0.010	-----								
546-TM24499	208 226	< 0.005	-----								
546-TM24500	208 226	< 0.005	-----								
546-TM24501	208 226	< 0.005	-----								
546-TM24502	208 226	< 0.005	-----								
546-TM24503	208 226	0.015	-----								
546-TM24504	208 226	0.005	-----								
546-TM24505	208 226	< 0.005	-----								
546-TM24506	208 226	< 0.005	-----								
546-TM24507	208 226	< 0.005	-----								
546-TM24508	208 226	< 0.005	-----								
546-TM24509	208 226	< 0.005	-----								
546-TM24510	208 226	0.015	-----								
D546-TM24491	214 --	-----	0.010								
100560	214 --	-----	2.700								
100000	214 --	-----	< 0.005								

CERTIFICATION: _____



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175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

SEP 10 1996

A9628280

Comments: ATTN: KATHY FARRELL

CERTIFICATE **A9628280**

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#27
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 26-AUG-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
208	20	Assay ring to approx 150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#27
 Comments: ATTN: KATHY FARRELL

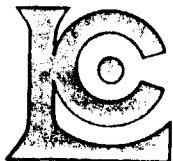
Page Number : 1
 Total Pages : 1
 Certificate Date: 26-AUG-96
 Invoice No. : 19628280
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS

A9628280

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24511	208	226	< 0.005	-----							
546-TM24512	208	226	< 0.005	-----							
546-TM24513	208	226	< 0.005	-----							
546-TM24514	208	226	< 0.005	-----							
546-TM24515	208	226	< 0.005	-----							
546-TM24516	208	226	0.005	-----							
546-TM24517	208	226	< 0.005	-----							
546-TM24518	208	226	< 0.005	-----							
546-TM24519	208	226	< 0.005	-----							
546-TM24520	208	226	< 0.005	-----							
546-TM24521	208	226	< 0.005	-----							
546-TM24522	208	226	< 0.005	-----							
546-TM24523	208	226	< 0.005	-----							
546-TM24524	208	226	< 0.005	-----							
546-TM24525	208	226	0.010	-----							
546-TM24526	208	226	< 0.005	-----							
546-TM24527	208	226	< 0.005	-----							
546-TM24528	208	226	0.035	-----							
546-TM24529	208	226	< 0.005	-----							
546-TM24530	208	226	< 0.005	-----							
D546-TM24511	214	--	-----	< 0.005							
CANMET	214	--	-----	2.500							
100000	214	--	-----	< 0.005							

CERTIFICATION: _____



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

SEP 1 1996

QC Page #: 1
Tot QC Pg: 1
Date: 27-AUG-96
Invoice #: 19628288
P.O. #:

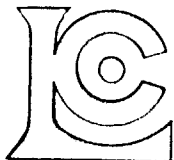
IFG

Project: 546 BTC#28
Comments: ATTN: KATHY FARRELL

QC DATA OF CERTIFICATE A9628288

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check									
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	---	---	2.58	-----									
	Dup1-01		< 0.005	-----									
	Orig1-01		< 0.005	-----									

CERTIFICATION: *Kathy Farrell*



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9628288

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9628288

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#28
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 27-AUG-96.

SAMPLE PREPARATION

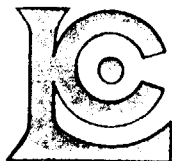
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
208	20	Assay ring to approx 150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#28
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 27-AUG 96
 Invoice No. : I9628288
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS	A9628288
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SAMPLE	PREP	CODE	Au g/t FA+AA	Au check							
546-TM24531	208	226	< 0.005	-----							
546-TM24532	208	226	0.020	-----							
546-TM24533	208	226	0.005	-----							
546-TM24534	208	226	< 0.005	-----							
546-TM24535	208	226	0.010	-----							
546-TM24536	208	226	0.015	-----							
546-TM24537	208	226	< 0.005	-----							
546-TM24538	208	226	< 0.005	-----							
546-TM24539	208	226	< 0.005	-----							
546-TM24540	208	226	< 0.005	-----							
546-TM24541	208	226	0.005	-----							
546-TM24542	208	226	0.020	-----							
546-TM24543	208	226	< 0.005	-----							
546-TM24544	208	226	0.005	-----							
546-TM24545	208	226	0.005	-----							
546-TM24546	208	226	< 0.005	-----							
546-TM24547	208	226	0.005	-----							
546-TM24548	208	226	< 0.005	-----							
546-TM24549	208	226	0.015	-----							
546-TM24550	208	226	< 0.005	-----							
D546-TM24531	214	--	-----	< 0.005							
100560	214	--	-----	2.560							
100000	214	--	-----	< 0.005							

CERTIFICATION: _____



Laboratoires Chemex Ltee.

Essayeurs * Géochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9628289

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9628289

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#29
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 26-AUG-96.

SAMPLE PREPARATION

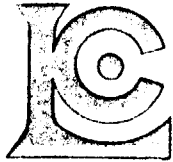
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
208	20	Assay ring to approx 150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494 1350	20 3	Au g/t: Fuse 30 g sample Au check analysis	FA-AAS	0.005 0.005	12.00 10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul, Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#29
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 26-AUG-96
 Invoice No. : 19628289
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS

A9628289

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24551	208 226	< 0.005	-----									
546-TM24552	208 226	< 0.005	-----									
546-TM24553	208 226	< 0.005	-----									
546-TM24554	208 226	0.010	-----									
546-TM24555	208 226	< 0.005	-----									
546-TM24556	208 226	< 0.005	-----									
546-TM24557	208 226	0.025	-----									
546-TM24558	208 226	0.025	-----									
546-TM24559	208 226	< 0.005	-----									
546-TM24560	208 226	0.010	-----									
546-TM24561	208 226	< 0.005	-----									
546-TM24562	208 226	< 0.005	-----									
546-TM24563	208 226	< 0.005	-----									
546-TM24564	208 226	< 0.005	-----									
546-TM24565	208 226	< 0.005	-----									
546-TM24566	208 226	0.005	-----									
546-TM24567	208 226	< 0.005	-----									
546-TM24568	208 226	< 0.005	-----									
546-TM24569	208 226	< 0.005	-----									
546-TM24570	208 226	0.010	-----									
D546-TM24551	214 --	-----	< 0.005									
CANMET	214 --	-----	2.370									
100000	214 --	-----	< 0.005									

CERTIFICATION: _____



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9628290

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9628290

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#30
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 26-AUG-96.

SAMPLE PREPARATION

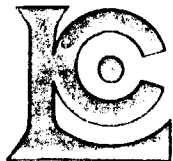
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
208	20	Assay ring to approx 150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

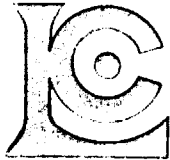
Project : 546 BTC#30
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 26-AUG 96
 Invoice No. : 19628290
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS A9628290

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24571	208 226	< 0.005	-----									
546-TM24572	208 226	< 0.005	-----									
546-TM24573	208 226	< 0.005	-----									
546-TM24574	208 226	< 0.005	-----									
546-TM24575	208 226	< 0.005	-----									
546-TM24576	208 226	< 0.005	-----									
546-TM24577	208 226	< 0.005	-----									
546-TM24578	208 226	0.005	-----									
546-TM24579	208 226	0.005	-----									
546-TM24580	208 226	< 0.005	-----									
546-TM24581	208 226	< 0.005	-----									
546-TM24582	208 226	< 0.005	-----									
546-TM24583	208 226	< 0.005	-----									
546-TM24584	208 226	< 0.005	-----									
546-TM24585	208 226	< 0.005	-----									
546-TM24586	208 226	< 0.005	-----									
546-TM24587	208 226	< 0.005	-----									
546-TM24588	208 226	< 0.005	-----									
546-TM24589	208 226	0.085	-----									
546-TM24590	208 226	0.005	-----									
D546-TM24571	214 --	-----	< 0.005									
100560	214 --	-----	2.610									
100000	214 --	-----	< 0.005									

CERTIFICATION: _____



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175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

SEP 11 1996

A9628291

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9628291

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#31
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 26-AUG-96.

SAMPLE PREPARATION

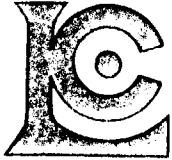
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
208	20	Assay ring to approx 150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	1000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
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 Quebec, Canada J9X 5C3
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To: PLACER DOME CANADA LIMITED
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 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

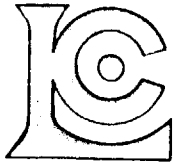
Page Number : 1
 Total Pages : 1
 Certificate Date: 26-AUG-96
 Invoice No. : 19628291
 P.O. Number :
 Account : IFG

Project : 546 BTC#31
 Comments: ATTN: KATHY FARRELL

CERTIFICATE OF ANALYSIS	A9628291
--------------------------------	-----------------

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24591	208 226	< 0.005	-----								
546-TM24592	208 226	0.010	-----								
546-TM24593	208 226	< 0.005	-----								
546-TM24594	208 226	< 0.005	-----								
546-TM24595	208 226	< 0.005	-----								
546-TM24596	208 226	< 0.005	-----								
546-TM24597	208 226	< 0.005	-----								
546-TM24598	208 226	< 0.005	-----								
546-TM24599	208 226	< 0.005	-----								
546-TM24600	208 226	< 0.005	-----								
546-TM24601	208 226	< 0.005	-----								
546-TM24602	208 226	< 0.005	-----								
546-TM24603	208 226	< 0.005	-----								
546-TM24604	208 226	< 0.005	-----								
546-TM24605	208 226	< 0.005	-----								
546-TM24606	208 226	< 0.005	-----								
546-TM24607	208 226	< 0.005	-----								
546-TM24608	208 226	< 0.005	-----								
546-TM24609	208 226	0.075	-----								
546-TM24610	208 226	< 0.005	-----								
D546-TM24591	214 --	-----	< 0.005								
CANMET	214 --	-----	2.320								
100000	214 --	-----	< 0.005								

CERTIFICATION: *[Signature]*



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5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9629380

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9629380

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#32
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 4-SEP-96.

SAMPLE PREPARATION

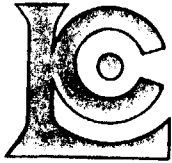
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0.3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Chemex Labs Ltd.

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Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project: 546 BTC#32
Comments: ATTN: KATHY FARRELL

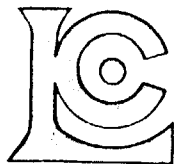
Page Number :1
Total Pages :1
Certificate Date: 04-SEP-96
Invoice No. :19629380
P.O. Number :
Account :IFG

CERTIFICATE OF ANALYSIS

A9629380

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24611	1388	226	< 0.005	-----							
546-TM24612	1388	226	< 0.005	-----							
546-TM24613	1388	226	0.135	-----							
546-TM24614	1388	226	< 0.005	-----							
546-TM24615	1388	226	0.020	-----							
546-TM24616	1388	226	< 0.005	-----							
546-TM24617	1388	226	0.010	-----							
546-TM24618	1388	226	0.020	-----							
546-TM24619	1388	226	0.015	-----							
546-TM24620	1388	226	< 0.005	-----							
546-TM24621	1388	226	< 0.005	-----							
546-TM24622	1388	226	0.045	-----							
546-TM24623	1388	226	0.005	-----							
546-TM24624	1388	226	< 0.005	-----							
546-TM24625	1388	226	0.005	-----							
546-TM24626	1388	226	0.060	-----							
546-TM24627	1388	226	< 0.005	-----							
546-TM24628	1388	226	< 0.005	-----							
546-TM24629	1388	226	< 0.005	-----							
546-TM24630	1388	226	< 0.005	-----							
D546-TM24611	214	--	-----	< 0.005							
100560	214	--	-----	2.600							
100000	214	--	-----	< 0.005							

CERTIFICATION: *Alexandra Alexander*



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Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9629381

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9629381

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#33
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 4-SEP-96.

SAMPLE PREPARATION

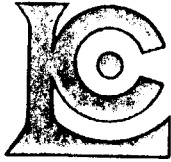
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
1202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



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 Ontario, Canada L4W 2S3
 PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#33
 Comments: ATTN: KATHY FARRELL

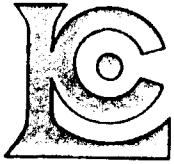
Page Number : 1
 Total Pages : 1
 Certificate Date: 04 SLP 96
 Invoice No. : 19629381
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS

A9629381

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24631	1388	226	< 0.005	-----								
546-TM24632	1388	226	< 0.005	-----								
546-TM24633	1388	226	< 0.005	-----								
546-TM24634	1388	226	< 0.005	-----								
546-TM24635	1388	226	< 0.005	-----								
546-TM24636	1388	226	< 0.005	-----								
546-TM24637	1388	226	< 0.005	-----								
546-TM24638	1388	226	< 0.005	-----								
546-TM24639	1388	226	< 0.005	-----								
546-TM24640	1388	226	< 0.005	-----								
546-TM24641	1388	226	< 0.005	-----								
546-TM24642	1388	226	< 0.005	-----								
546-TM24643	1388	226	0.025	-----								
546-TM24644	1388	226	< 0.005	-----								
546-TM24645	1388	226	< 0.005	-----								
546-TM24646	1388	226	0.035	-----								
546-TM24647	1388	226	< 0.005	-----								
546-TM24648	1388	226	0.010	-----								
546-TM24649	1388	226	< 0.005	-----								
546-TM24650	1388	226	< 0.005	-----								
D546-TM24631	214	--	-----	< 0.005								
CANMET	214	--	-----	2.390								
100000	214	--	-----	< 0.005								

CERTIFICATION *Adriana Hernandez*



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9629382

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9629382

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#34
P.O.#:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 4-SEP-96.

SAMPLE PREPARATION

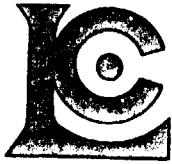
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	19	Ring 600 g to approx -150 mesh
226	19	0-3 Kg crush and split
3202	19	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	19	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

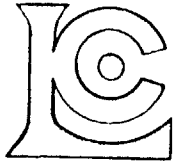
Project : 546 BTC#34
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 04-SEP-96
 Invoice No. : 19629382
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS A9629382

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24651	1388 226	< 0.005	-----								
546-TM24652	1388 226	< 0.005	-----								
546-TM24653	1388 226	< 0.005	-----								
546-TM24654	1388 226	< 0.005	-----								
546-TM24655	1388 226	< 0.005	-----								
546-TM24656	1388 226	< 0.005	-----								
546-TM24657	1388 226	0.010	-----								
546-TM24658	1388 226	< 0.005	-----								
546-TM24659	1388 226	< 0.005	-----								
546-TM24660	1388 226	0.005	-----								
546-TM24661	1388 226	0.005	-----								
546-TM24662	1388 226	< 0.005	-----								
546-TM24663	1388 226	< 0.005	-----								
546-TM24664	1388 226	< 0.005	-----								
546-TM24665	1388 226	< 0.005	-----								
546-TM24666	-- --	not/ss	not/ss								
546-TM24667	1388 226	0.040	-----								
546-TM24668	1388 226	0.005	-----								
546-TM24669	1388 226	< 0.005	-----								
546-TM24670	1388 226	< 0.005	-----								
D546-TM24651	214 --	-----	< 0.005								
100560	214 --	-----	2.570								
100000	214 --	-----	< 0.005								

CERTIFICATE OF ANALYSIS
Alexandra



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5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9629383

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9629383

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#35
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 4-SEP-96.

SAMPLE PREPARATION

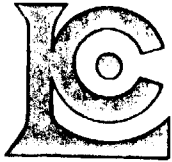
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
1202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Chemex Labs Ltd.

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 Ontario, Canada L4W 2S3
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To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

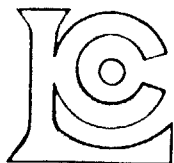
Project : 546 BTC#35
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 04 SEP 96
 Invoice No. : 19629383
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS	A9629383
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SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24671	1388 226	< 0.005	-----								
546-TM24672	1388 226	< 0.005	-----								
546-TM24673	1388 226	< 0.005	-----								
546-TM24674	1388 226	< 0.005	-----								
546-TM24675	1388 226	< 0.005	-----								
546-TM24676	1388 226	< 0.005	-----								
546-TM24677	1388 226	< 0.005	-----								
546-TM24678	1388 226	< 0.005	-----								
546-TM24679	1388 226	< 0.005	-----								
546-TM24680	1388 226	< 0.005	-----								
546-TM24681	1388 226	< 0.005	-----								
546-TM24682	1388 226	0.030	-----								
546-TM24683	1388 226	< 0.005	-----								
546-TM24684	1388 226	< 0.005	-----								
546-TM24685	1388 226	0.035	-----								
546-TM24686	1388 226	< 0.005	-----								
546-TM24687	1388 226	0.010	-----								
546-TM24688	1388 226	< 0.005	-----								
546-TM24689	1388 226	< 0.005	-----								
546-TM24690	1388 226	< 0.005	-----								
D546-TM24671	214 ---	-----	0.005								
CANMET	214 ---	-----	2.500								
100000	214 ---	-----	< 0.005								

CERTIFICATION *Ardisana Alexander*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9629385

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9629385

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#36
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 4 SEP-96.

SAMPLE PREPARATION

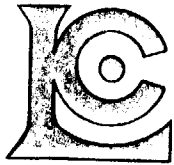
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	19	Ring 600 g to approx -150 mesh
226	19	0-3 Kg crush and split
1202	19	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	19	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
 Ontario, Canada L4W 2S3
 PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#36
 Comments: ATTN: KATHY FARRELL

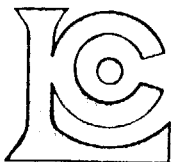
Page Number : 1
 Total Pages : 1
 Certificate Date: 04 SEP-96
 Invoice No. : 19629385
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS

A9629385

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24691	1388	226	< 0.005	-----							
546-TM24692	1388	226	< 0.005	-----							
546-TM24693	1388	226	< 0.005	-----							
546-TM24694	1388	226	< 0.005	-----							
546-TM24695	1388	226	< 0.005	-----							
546-TM24696	1388	226	< 0.005	-----							
546-TM24697	1388	226	< 0.005	-----							
546-TM24698	1388	226	< 0.005	-----							
546-TM24699	1388	226	< 0.005	-----							
546-TM24700	1388	226	< 0.005	-----							
546-TM24701	1388	226	0.010	-----							
546-TM24702	1388	226	0.020	-----							
546-TM24703	1388	226	< 0.005	-----							
546-TM24704	1388	226	< 0.005	-----							
546-TM24705	1388	226	< 0.005	-----							
546-TM24706	--	--	not/ss	not/ss							
546-TM24707	1388	226	< 0.005	-----							
546-TM24708	1388	226	< 0.005	-----							
546-TM24709	1388	226	< 0.005	-----							
546-TM24710	1388	226	< 0.005	-----							
D546-TM24691	214	--	-----	< 0.005							
100560	214	--	-----	2.570							
100000	214	--	-----	< 0.005							

CERTIFICATE OF ANALYSIS
Helena Reynolds



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9629386

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9629386

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#37
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 4-SEP-96.

SAMPLE PREPARATION

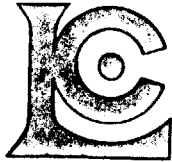
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



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To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#37
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 04 SEP 96
 Invoice No. : 19629386
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS

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SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
546-TM24711	1388 226	< 0.005	-----										
546-TM24712	1388 226	0.015	-----										
546-TM24713	1388 226	< 0.005	-----										
546-TM24714	1388 226	< 0.005	-----										
546-TM24715	1388 226	< 0.005	-----										
546-TM24716	1388 226	< 0.005	-----										
546-TM24717	1388 226	< 0.005	-----										
546-TM24718	1388 226	< 0.005	-----										
546-TM24719	1388 226	< 0.005	-----										
546-TM24720	1388 226	0.015	-----										
546-TM24721	1388 226	0.015	-----										
546-TM24722	1388 226	< 0.005	-----										
546-TM24723	1388 226	0.015	-----										
546-TM24724	1388 226	< 0.005	-----										
546-TM24725	1388 226	< 0.005	-----										
546-TM24726	1388 226	< 0.005	-----										
546-TM24727	1388 226	< 0.005	-----										
546-TM24728	1388 226	< 0.005	-----										
546-TM24729	1388 226	< 0.005	-----										
546-TM24730	1388 226	0.005	-----										
D546-TM24711	214 --	-----	< 0.005										
CANMET	214 --	-----	2.390										
100000	214 --	-----	< 0.005										

CERTIFICATION: *Alexandra Alexander*



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5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9629388

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9629388

(IFG) PLACER DOME CANADA LIMITED

Project: 546 BTC#38
P.O.#:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 4-SEP-96.

SAMPLE PREPARATION

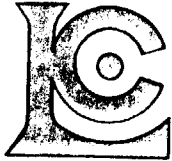
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
1202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



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To: PLACE DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546 BTC#38
Comments: ATTN: KATHY FARRELL

Page Number : 1
Total Pages : 1
Certificate Date: 04-SEP-96
Invoice No. : 19629388
P.O. Number :
Account : IFG

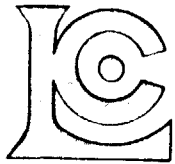
CERTIFICATE OF ANALYSIS

A9629388

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24731	1388	226	< 0.005	-----								
546-TM24732	1388	226	0.030	-----								
546-TM24733	1388	226	< 0.005	-----								
546-TM24734	1388	226	< 0.005	-----								
546-TM24735	1388	226	< 0.005	-----								
546-TM24736	1388	226	< 0.005	-----								
546-TM24737	1388	226	< 0.005	-----								
546-TM24738	1388	226	0.040	-----								
546-TM24739	1388	226	0.040	-----								
546-TM24740	1388	226	< 0.005	-----								
546-TM24741	1388	226	< 0.005	-----								
546-TM24742	1388	226	< 0.005	-----								
546-TM24743	1388	226	0.020	-----								
546-TM24744	1388	226	< 0.005	-----								
546-TM24745	1388	226	< 0.005	-----								
546-TM24746	1388	226	< 0.005	-----								
546-TM24747	1388	226	< 0.005	-----								
546-TM24748	1388	226	< 0.005	-----								
546-TM24749	1388	226	< 0.005	-----								
546-TM24750	1388	226	< 0.005	-----								
D546-TM24731	214	--	-----	< 0.005								
100560	214	--	-----	2.670								
100000	214	--	-----	< 0.005								

CERTIFICATION

Assurance Services



Chemex Labs Ltd.

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823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9629389

Comments: ATTN: KATHY FARRELL

CERTIFICATE

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(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#39
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 4-SEP-96.

ANALYTICAL PROCEDURES

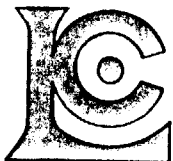
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.



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 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#39
 Comments: ATTN: KATHY FARRELL

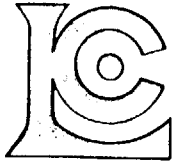
Page Number : 1
 Total Pages : 1
 Certificate Date: 04-SEP-96
 Invoice No. : 19629389
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS

A9629389

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24751	1388	226	< 0.005	-----								
546-TM24752	1388	226	< 0.005	-----								
546-TM24753	1388	226	< 0.005	-----								
546-TM24754	1388	226	< 0.005	-----								
546-TM24755	1388	226	< 0.005	-----								
546-TM24756	1388	226	< 0.005	-----								
546-TM24757	1388	226	< 0.005	-----								
546-TM24758	1388	226	< 0.005	-----								
546-TM24759	1388	226	< 0.005	-----								
546-TM24760	1388	226	< 0.005	-----								
546-TM24761	1388	226	< 0.005	-----								
546-TM24762	1388	226	< 0.005	-----								
546-TM24763	1388	226	0.050	-----								
546-TM24764	1388	226	< 0.005	-----								
546-TM24765	1388	226	< 0.005	-----								
546-TM24766	1388	226	< 0.005	-----								
546-TM24767	1388	226	< 0.005	-----								
546-TM24768	1388	226	< 0.005	-----								
546-TM24769	1388	226	< 0.005	-----								
546-TM24770	1388	226	< 0.005	-----								
D546-TM24751	214	--	-----	< 0.005								
CANMET	214	--	-----	2.400								
100000	214	--	-----	< 0.005								

CERTIFICATION: _____



Laboratoires Chemex Ltee.

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175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9629391

Comments: ATTN: KATHY FARRELL

CERTIFICATE

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(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#40
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 4-SEP-96.

SAMPLE PREPARATION

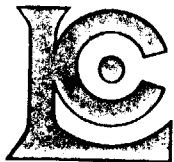
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

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175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
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To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546 BTC#40
Comments: ATTN: KATHY FARRELL

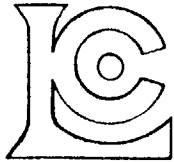
Page Number : 1
Total Pages : 1
Certificate Date: 04-SEP-96
Invoice No. : 19629391
P.O. Number :
Account : IFG

CERTIFICATE OF ANALYSIS

A9629391

SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
546-TM24771	1388	226	< 0.005	-----									
546-TM24772	1388	226	< 0.005	-----									
546-TM24773	1388	226	< 0.005	-----									
546-TM24774	1388	226	0.005	-----									
546-TM24775	1388	226	0.015	-----									
546-TM24776	1388	226	< 0.005	-----									
546-TM24777	1388	226	< 0.005	-----									
546-TM24778	1388	226	< 0.005	-----									
546-TM24779	1388	226	< 0.005	-----									
546-TM24780	1388	226	< 0.005	-----									
546-TM24781	1388	226	< 0.005	-----									
546-TM24782	1388	226	< 0.005	-----									
546-TM24783	1388	226	< 0.005	-----									
546-TM24784	1388	226	< 0.005	-----									
546-TM24785	1388	226	< 0.005	-----									
546-TM24786	1388	226	0.005	-----									
546-TM24787	1388	226	< 0.005	-----									
546-TM24788	1388	226	0.025	-----									
546-TM24789	1388	226	< 0.005	-----									
546-TM24790	1388	226	< 0.005	-----									
D546-TM24771	214	--	-----	< 0.005									
100560	214	--	-----	2.580									
100000	214	--	-----	< 0.005									

CERTIFICATION: *[Signature]*



Laboratoires Chemex Ltee.

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175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

QC Page #: 1
Tot QC Pg: 1
Date: 05-SEP-96
Invoice #: 19629393
P.O. #: IFG

Project: 546 BTC#41
Comments: ATTN: KATHY FARRELL

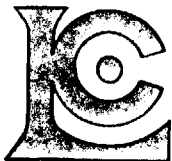
QC DATA OF CERTIFICATE

A9629393

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check									
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546-TM24791	Dup1-01 Orig1-01		< 0.005 < 0.005	----- -----									

CERTIFICATION

William Lawrence



Laboratoires Chemex Ltee.

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175 Boul. Industriel C.P. 284, Rouyn
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PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9629393

Comments: ATTN: KATHY FARRELL

CERTIFICATE

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(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#41
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 5-SEP-96.

SAMPLE PREPARATION

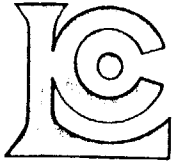
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

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 175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

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 Certificate Date: 05 SEP 96
 Invoice No. : 19629393
 P.O. Number :
 Account : IFG

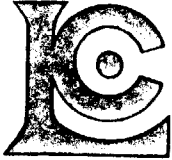
Project : 546 BTC#41
 Comments: ATTN: KATHY FARRELL

CERTIFICATE OF ANALYSIS

A9629393

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24791	1388	226	< 0.005	-----								
546-TM24792	1388	226	< 0.005	-----								
546-TM24793	1388	226	< 0.005	-----								
546-TM24794	1388	226	< 0.005	-----								
546-TM24795	1388	226	< 0.005	-----								
546-TM24796	1388	226	< 0.005	-----								
546-TM24797	1388	226	< 0.005	-----								
546-TM24798	1388	226	< 0.005	-----								
546-TM24799	1388	226	< 0.005	-----								
546-TM24800	1388	226	< 0.005	-----								
546-TM24801	1388	226	< 0.005	-----								
546-TM24802	1388	226	< 0.005	-----								
546-TM24803	1388	226	< 0.005	-----								
546-TM24804	1388	226	< 0.005	-----								
546-TM24805	1388	226	< 0.005	-----								
546-TM24806	1388	226	< 0.005	-----								
546-TM24807	1388	226	< 0.005	-----								
546-TM24808	1388	226	< 0.005	-----								
546-TM24809	1388	226	< 0.005	-----								
546-TM24810	1388	226	< 0.005	-----								
D546-TM24791	214	--	-----	< 0.005								
CANMET	214	--	-----	2.380								
100000	214	--	-----	< 0.005								

CERTIFICATION *Adriana Secundo*



Laboratoires Chemex Ltee.

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175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9629394

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9629394

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#42
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 4-SEP-96.

SAMPLE PREPARATION

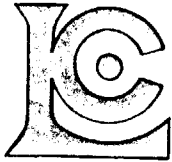
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



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Essayeurs · Geochimistes · Chimistes Analytique

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TIMMINS, ON
P4N 7H1

Project : 546 BTC#42
Comments: ATTN: KATHY FARRELL

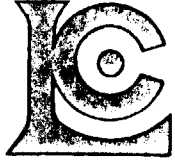
Page Number : 1
Total Pages : 1
Certificate Date: 04-SEP 96
Invoice No. : 19629394
P.O. Number :
Account : IFG

CERTIFICATE OF ANALYSIS

A9629394

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24811	1388	226	< 0.005	-----								
546-TM24812	1388	226	< 0.005	-----								
546-TM24813	1388	226	< 0.005	-----								
546-TM24814	1388	226	< 0.005	-----								
546-TM24815	1388	226	< 0.005	-----								
546-TM24816	1388	226	0.080	-----								
546-TM24817	1388	226	0.025	-----								
546-TM24818	1388	226	0.010	-----								
546-TM24819	1388	226	< 0.005	-----								
546-TM24820	1388	226	0.005	-----								
546-TM24821	1388	226	0.005	-----								
546-TM24822	1388	226	0.025	-----								
546-TM24823	1388	226	< 0.005	-----								
546-TM24824	1388	226	< 0.005	-----								
546-TM24825	1388	226	0.005	-----								
546-TM24826	1388	226	< 0.005	-----								
546-TM24827	1388	226	< 0.005	-----								
546-TM24828	1388	226	< 0.005	-----								
546-TM24829	1388	226	< 0.005	-----								
546-TM24830	1388	226	< 0.005	-----								
D546-TM24811	214	--	-----	< 0.005								
100560	214	--	-----	2.570								
100000	214	--	-----	< 0.005								

CERTIFICATION: *Andriana Alexander*



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

SEP 17 1996

QC Page #: 1
Tot QC Pg: 1
Date: 05-SEP-96
Invoice #: 19629395
P.O. #: IFG

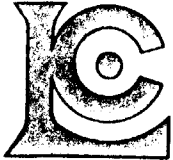
Project: 546 BTC#43
Comments: ATTN: KATHY FARRELL

QC DATA OF CERTIFICATE

A9629395

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check								
MA-2B CHEMEX MEAN	Std1 ---	1 ---	2.39 2.39	----- -----								
546-TM24831	Dup1-01 Orig1-01		0.020 0.025	----- -----								

CERTIFICATION *Audiana Alexander*



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9629395

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9629395

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#43
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 5-SEP-96.

SAMPLE PREPARATION

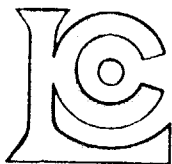
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essaieurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546 BTC#43
Comments: ATTN: KATHY FARRELL

Page Number : 1
Total Pages : 1
Certificate Date: 05 SEP 96
Invoice No. : 19629395
P.O. Number :
Account : IFG

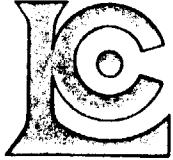
CERTIFICATE OF ANALYSIS

A9629395

SAMPLE	PREP CODE	Au g/t FA+AA	Au check																	
546-TM24831	1388	226	0.025	-----																
546-TM24832	1388	226	0.030	-----																
546-TM24833	1388	226	< 0.005	-----																
546-TM24834	1388	226	< 0.005	-----																
546-TM24835	1388	226	0.005	-----																
546-TM24836	1388	226	0.035	-----																
546-TM24837	1388	226	0.050	-----																
546-TM24838	1388	226	0.050	-----																
546-TM24839	1388	226	0.185	-----																
546-TM24840	1388	226	0.155	-----																
546-TM24841	1388	226	0.010	-----																
546-TM24842	1388	226	0.015	-----																
546-TM24843	1388	226	0.085	-----																
546-TM24844	1388	226	0.030	-----																
546-TM24845	1388	226	0.115	-----																
546-TM24846	1388	226	0.025	-----																
546-TM24847	1388	226	0.025	-----																
546-TM24848	1388	226	0.015	-----																
546-TM24849	1388	226	0.085	-----																
546-TM24850	1388	226	0.040	-----																
D546-TM24831	214	--	-----	0.020																
CANMET	214	--	-----	2.390																
100000	214	--	-----	< 0.005																

CERTIFICATION

[Handwritten Signature]



Laboratoires Chemex Ltee.

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175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

SEP 1 1996

A9629397

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9629397

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#44
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 4-SEP-96.

SAMPLE PREPARATION

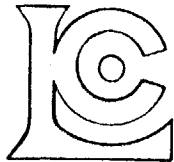
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Rcvd as pulp; mesh size checked
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
1202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project: 546 BTC#44
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 04-SEP-96
 Invoice No. : 19629397
 P.O. Number :
 Account : IFG

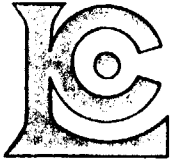
CERTIFICATE OF ANALYSIS

A9629397

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24851	1388	226	0.080	-----							
546-TM24852	1388	226	0.005	-----							
546-TM24853	1388	226	0.090	-----							
546-TM24854	1388	226	0.080	-----							
546-TM24855	1388	226	0.265	-----							
546-TM24856	1388	226	0.110	-----							
546-TM24857	1388	226	0.100	-----							
546-TM24858	1388	226	0.165	-----							
546-TM24859	1388	226	0.165	-----							
546-TM24860	1388	226	0.660	-----							
546-TM24861	1388	226	0.475	-----							
546-TM24862	1388	226	0.380	-----							
546-TM24863	1388	226	0.005	-----							
546-TM24864	1388	226	0.440	-----							
546-TM24865	1388	226	0.035	-----							
546-TM24866	1388	226	0.145	-----							
546-TM24867	1388	226	0.005	-----							
546-TM24868	1388	226	0.060	-----							
546-TM24869	1388	226	0.040	-----							
546-TM24870	1388	226	0.025	-----							
D546-TM24851	214	--	-----	0.070							
100560	214	--	-----	2.580							
100000	214	--	-----	< 0.005							

CERTIFICATION:

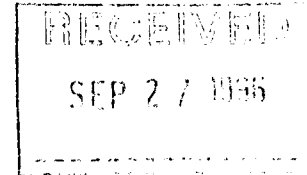
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Essayeurs * Geochimistes * Chimistes Analytique
175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1



A9630274

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9630274

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#45
P.O.#:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 17-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	4	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546 BTC#45
Comments: ATTN: KATHY FARRELL

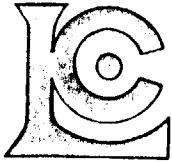
Page Number : 1
Total Pages : 1
Certificate Date: 17-SEP-96
Invoice No. : 19630274
P.O. Number :
Account : IFG

CERTIFICATE OF ANALYSIS

A9630274

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24871	1388 226	0.110	-----								
546-TM24872	1388 226	0.795	-----								
546-TM24873	1388 226	0.030	-----								
546-TM24874	1388 226	0.065	-----								
546-TM24875	1388 226	0.060	-----								
546-TM24876	1388 226	0.005	-----								
546-TM24877	1388 226	0.005	-----								
546-TM24878	1388 226	0.075	-----								
546-TM24879	1388 226	0.015	-----								
546-TM24880	1388 226	0.020	-----								
546-TM24881	1388 226	0.070	-----								
546-TM24882	1388 226	0.010	-----								
546-TM24883	1388 226	0.015	-----								
546-TM24884	1388 226	0.055	-----								
546-TM24885	1388 226	10.00	10.500								
546-TM24886	1388 226	0.150	-----								
546-TM24887	1388 226	0.070	-----								
546-TM24888	1388 226	0.025	-----								
546-TM24889	1388 226	0.075	-----								
546-TM24890	1388 226	0.020	-----								
D546-TM24871	214 --	-----	0.115								
100560	214 --	-----	2.480								
100000	214 --	-----	< 0.005								

Attestation de l'analyse

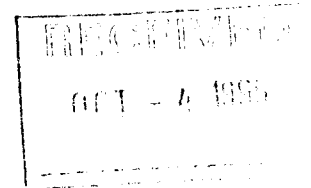


Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1



A9630275

Comments: ATTN: KATHY FARRELL

CERTIFICATE A9630275

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#46
P.O. #:

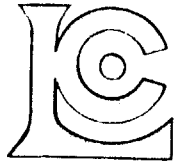
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-SEP-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#46
 Comments: ATTN: KATHY FARRELL

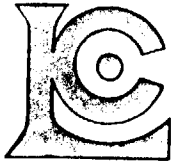
Page Number : 1
 Total Pages : 1
 Certificate Date: 19 SEP '96
 Invoice No. : 19630275
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS

A9630275

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24891	1388 226	< 0.005	-----								
546-TM24892	1388 226	0.010	-----								
546-TM24893	1388 226	0.010	-----								
546-TM24894	1388 226	0.280	-----								
546-TM24895	1388 226	< 0.005	-----								
546-TM24896	1388 226	0.005	-----								
546-TM24897	1388 226	0.145	-----								
546-TM24898	1388 226	0.060	-----								
546-TM24899	1388 226	0.015	-----								
546-TM24900	1388 226	0.015	-----								
546-TM24901	1388 226	< 0.005	-----								
546-TM24902	1388 226	0.030	-----								
546-TM24903	1388 226	0.025	-----								
546-TM24904	1388 226	0.010	-----								
546-TM24905	1388 226	0.010	-----								
546-TM24906	1388 226	0.015	-----								
546-TM24907	1388 226	< 0.005	-----								
546-TM24908	1388 226	0.010	-----								
546-TM24909	1388 226	0.010	-----								
546-TM24910	1388 226	< 0.005	-----								
D546-TM24891	214 --	-----	< 0.005								
CANMET	214 --	-----	2.380								
100000	214 --	-----	< 0.005								

CERTIFICATION: *[Signature]*

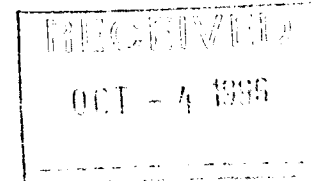


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Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1



A9630276

Comments: ATTN: KATHY FARRELL

CERTIFICATE **A9630276**

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#47
P.O. #:

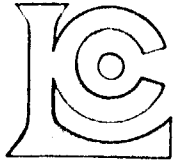
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-SEP-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#47
 Comments: ATTN: KATHY FARRELL

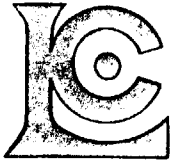
Page Number : 1
 Total Pages : 1
 Certificate Date: 19-SEP-96
 Invoice No. : 19630276
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS

A9630276

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24911	1388	226	< 0.005	-----							
546-TM24912	1388	226	< 0.005	-----							
546-TM24913	1388	226	0.015	-----							
546-TM24914	1388	226	0.015	-----							
546-TM24915	1388	226	< 0.005	-----							
546-TM24916	1388	226	0.060	-----							
546-TM24917	1388	226	0.070	-----							
546-TM24918	1388	226	0.030	-----							
546-TM24919	1388	226	0.010	-----							
546-TM24920	1388	226	0.020	-----							
546-TM24921	1388	226	< 0.005	-----							
546-TM24922	1388	226	0.035	-----							
546-TM24923	1388	226	< 0.005	-----							
546-TM24924	1388	226	< 0.005	-----							
546-TM24925	1388	226	< 0.005	-----							
546-TM24926	1388	226	0.005	-----							
546-TM24927	1388	226	< 0.005	-----							
546-TM24928	1388	226	0.005	-----							
546-TM24929	1388	226	< 0.005	-----							
546-TM24930	1388	226	0.025	-----							
D546-TM24911	214	--	-----	< 0.005							
100560	214	--	-----	2.700							
100000	214	--	-----	< 0.005							

CERTIFICATION: *Adriana Alexandra*

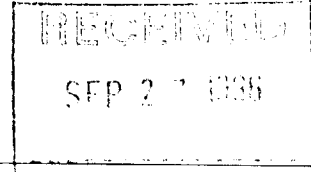


Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1



A9630277

Comments: ATTN: KATHY FARRELL

CERTIFICATE **A9630277**

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#48
P.O. #:

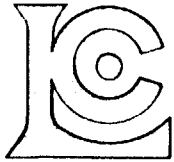
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 17-SEP-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546 BTC#48
Comments: ATTN: KATHY FARRELL

Page Number : 1
Total Pages : 1
Certificate Date: 17-SEP-96
Invoice No. : 19630277
P.O. Number :
Account : IFG

CERTIFICATE OF ANALYSIS

A9630277

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM24931	1388 226	0.045	-----									
546-TM24932	1388 226	< 0.005	-----									
546-TM24933	1388 226	0.015	-----									
546-TM24934	1388 226	0.810	-----									
546-TM24935	1388 226	0.030	-----									
546-TM24936	1388 226	0.030	-----									
546-TM24937	1388 226	0.035	-----									
546-TM24938	1388 226	0.015	-----									
546-TM24939	1388 226	< 0.005	-----									
546-TM24940	1388 226	< 0.005	-----									
546-TM24941	1388 226	< 0.005	-----									
546-TM24942	1388 226	< 0.005	-----									
546-TM24943	1388 226	< 0.005	-----									
546-TM24944	1388 226	0.095	-----									
546-TM24945	1388 226	0.020	-----									
546-TM24946	1388 226	0.060	-----									
546-TM24947	1388 226	< 0.005	-----									
546-TM24948	1388 226	< 0.005	-----									
546-TM24949	1388 226	< 0.005	-----									
546-TM24950	1388 226	< 0.005	-----									
D546-TM24931	214 --	-----	0.040									
CANMET	214 --	-----	2.500									
100000	214 --	-----	< 0.005									

CERTIFICATION:

Alexandra Alexander



Laboratoires Chemex Ltee.

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175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9630278

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9630278

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#49
P.O.#:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 17-SEP-96.

SAMPLE PREPARATION

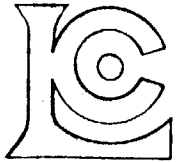
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494 1350	20 3	Au g/t: Fuse 30 g sample Au check analysis	FA-AAS	0.005 0.005	12.00 10000



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To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

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 Account : IFG

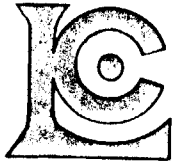
Project : 546 BTC#49
 Comments: ATTN: KATHY FARRELL

CERTIFICATE OF ANALYSIS

A9630278

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24951	1388	226	< 0.005	-----							
546-TM24952	1388	226	0.030	-----							
546-TM24953	1388	226	0.005	-----							
546-TM24954	1388	226	< 0.005	-----							
546-TM24955	1388	226	0.035	-----							
546-TM24956	1388	226	0.110	-----							
546-TM24957	1388	226	< 0.005	-----							
546-TM24958	1388	226	0.015	-----							
546-TM24959	1388	226	0.015	-----							
546-TM24960	1388	226	< 0.005	-----							
546-TM24961	1388	226	0.010	-----							
546-TM24962	1388	226	< 0.005	-----							
546-TM24963	1388	226	< 0.005	-----							
546-TM24964	1388	226	0.035	-----							
546-TM24965	1388	226	0.020	-----							
546-TM24966	1388	226	< 0.005	-----							
546-TM24967	1388	226	< 0.005	-----							
546-TM24968	1388	226	< 0.005	-----							
546-TM24969	1388	226	< 0.005	-----							
546-TM24970	1388	226	< 0.005	-----							
D546-TM24951	214	--	-----	< 0.005							
100560	214	--	-----	2.690							
100000	214	--	-----	< 0.005							

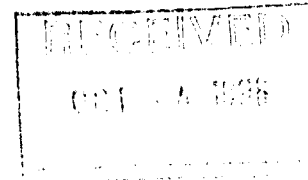
CERTIFICATION: *Alexandra Alexandru*



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175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
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P4N 7H1



A9630279

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9630279

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#50
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-SEP-96.

SAMPLE PREPARATION

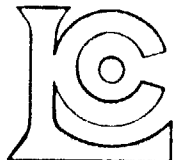
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



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To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
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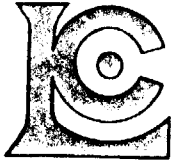
Project : 546 BTC#50
 Comments: ATTN: KATHY FARRELL

CERTIFICATE OF ANALYSIS

A9630279

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24971	1388	226	< 0.005	-----							
546-TM24972	1388	226	< 0.045	-----							
546-TM24973	1388	226	< 0.005	-----							
546-TM24974	1388	226	0.365	-----							
546-TM24975	1388	226	< 0.005	-----							
546-TM24976	1388	226	< 0.005	-----							
546-TM24977	1388	226	< 0.005	-----							
546-TM24978	1388	226	0.020	-----							
546-TM24979	1388	226	< 0.005	-----							
546-TM24980	1388	226	0.005	-----							
546-TM24981	1388	226	0.105	-----							
546-TM24982	1388	226	< 0.005	-----							
546-TM24983	1388	226	< 0.005	-----							
546-TM24984	1388	226	< 0.005	-----							
546-TM24985	1388	226	0.010	-----							
546-TM24986	1388	226	0.255	-----							
546-TM24987	1388	226	< 0.005	-----							
546-TM24988	1388	226	< 0.005	-----							
546-TM24989	1388	226	0.005	-----							
546-TM24990	1388	226	< 0.005	-----							
D546-TM24971	214	--	-----	< 0.005							
CANMET	214	--	-----	2.390							
100000	214	--	-----	< 0.005							

CERTIFICATION *Alexandra Farrell*



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823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

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A9630280

Comments: ATTN: KATHY FARRELL

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(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#51
P.O.#:

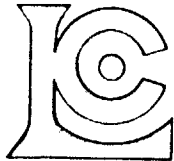
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-SEP-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



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 TIMMINS, ON
 P4N 7H1

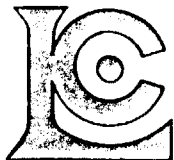
Project : 546 BTC#51
 Comments: ATTN: KATHY FARRELL

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 Invoice No. : 19630280
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS A9630280

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM24991	1388	226	< 0.005	-----							
546-TM24992	1388	226	< 0.005	-----							
546-TM24993	1388	226	< 0.005	-----							
546-TM24994	1388	226	0.015	-----							
546-TM24995	1388	226	0.015	-----							
546-TM24996	1388	226	0.010	-----							
546-TM24997	1388	226	< 0.005	-----							
546-TM24998	1388	226	< 0.005	-----							
546-TM24999	1388	226	< 0.005	-----							
546-TM25000	1388	226	< 0.005	-----							
546-TM20281	1388	226	0.015	-----							
546-TM20282	1388	226	< 0.005	-----							
546-TM20283	1388	226	< 0.005	-----							
546-TM20284	1388	226	< 0.005	-----							
546-TM20285	1388	226	< 0.005	-----							
546-TM20286	1388	226	< 0.005	-----							
546-TM20287	1388	226	< 0.005	-----							
546-TM20288	1388	226	0.005	-----							
546-TM20289	1388	226	< 0.005	-----							
546-TM20290	1388	226	< 0.005	-----							
D546-TM24991	214	--	-----	< 0.005							
100560	214	--	-----	2.690							
100000	214	--	-----	< 0.005							

CERTIFICATION *Alexandra Alexander*

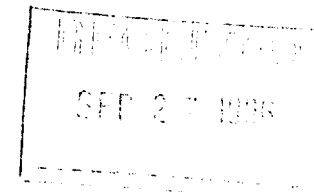


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175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1



A9630281

Comments: ATTN: KATHY FARRELL

CERTIFICATE **A9630281**

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#52
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 17-SEP-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



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Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

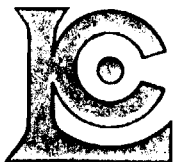
Project : 546 BTC#52
 Comments: ATTN: KATHY FARRELL

Page Number : 1
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 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS A9630281

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM20291	1388 226	< 0.005	-----								
546-TM20292	1388 226	0.015	-----								
546-TM20293	1388 226	0.025	-----								
546-TM20294	1388 226	0.010	-----								
546-TM20295	1388 226	0.045	-----								
546-TM20296	1388 226	0.005	-----								
546-TM20297	1388 226	0.010	-----								
546-TM20298	1388 226	0.010	-----								
546-TM20299	1388 226	0.005	-----								
546-TM20300	1388 226	0.020	-----								
546-TM20301	1388 226	0.065	-----								
546-TM20302	1388 226	0.005	-----								
546-TM20303	1388 226	0.020	-----								
546-TM20304	1388 226	< 0.005	-----								
546-TM20305	1388 226	0.030	-----								
546-TM20306	1388 226	< 0.005	-----								
546-TM20307	1388 226	< 0.005	-----								
546-TM20308	1388 226	< 0.005	-----								
546-TM20309	1388 226	< 0.005	-----								
546-TM20310	1388 226	< 0.005	-----								
D546-TM20291	214 --	-----	< 0.005								
CANMET	214 --	-----	2.580								
100000	214 --	-----	< 0.005								

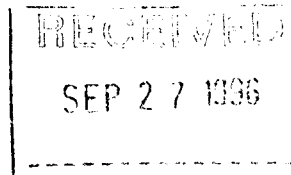
CERTIFICATION: *Alexandra*



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175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
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823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1



A9630282

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9630282

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#53
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 17-SEP-96.

SAMPLE PREPARATION

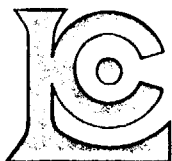
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



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Essayeurs * Geochimistes * Chimistes Analytique

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 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
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 TIMMINS, ON
 P4N 7H1

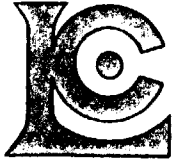
Project : 546 BTC#53
 Comments: ATTN: KATHY FARRELL

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 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS A9630282

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM20311	1388 226	0.005	-----									
546-TM20312	1388 226	0.040	-----									
546-TM20313	1388 226	< 0.005	-----									
546-TM20314	1388 226	0.030	-----									
546-TM20315	1388 226	< 0.005	-----									
546-TM20316	1388 226	< 0.005	-----									
546-TM20317	1388 226	0.015	-----									
546-TM20318	1388 226	< 0.005	-----									
546-TM20319	1388 226	< 0.005	-----									
546-TM20320	1388 226	< 0.005	-----									
546-TM20321	1388 226	< 0.005	-----									
546-TM20322	1388 226	0.005	-----									
546-TM20323	1388 226	< 0.005	-----									
546-TM20324	1388 226	0.030	-----									
546-TM20325	1388 226	0.010	-----									
546-TM20326	1388 226	< 0.005	-----									
546-TM20327	1388 226	< 0.005	-----									
546-TM20328	1388 226	< 0.005	-----									
546-TM20329	1388 226	< 0.005	-----									
546-TM20330	1388 226	< 0.005	-----									
D546-TM20311	214 --	-----	0.005									
100560	214 --	-----	2.570									
100000	214 --	-----	< 0.005									

CERTIFICATION: *Alexandra Alexander*

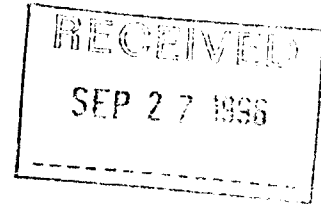


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175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
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EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1



A9630283

Comments: ATTN: KATHY FARRELL

CERTIFICATE **A9630283**

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#54
P.O. #:

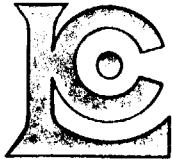
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 17-SEP-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

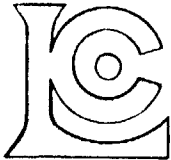
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 Total Pages : 1
 Certificate Date: 17-SEP-96
 Invoice No. : 19630283
 P.O. Number :
 Account : IFG

Project : 546 BTC#54
 Comments: ATTN: KATHY FARRELL

CERTIFICATE OF ANALYSIS A9630283

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM20331	1388 226	< 0.005	-----									
546-TM20332	1388 226	< 0.005	-----									
546-TM20333	1388 226	0.010	-----									
546-TM20334	1388 226	< 0.005	-----									
546-TM20335	1388 226	< 0.005	-----									
546-TM20336	1388 226	0.005	-----									
546-TM20337	1388 226	0.010	-----									
546-TM20338	1388 226	< 0.005	-----									
546-TM20339	1388 226	0.005	-----									
546-TM20340	1388 226	< 0.005	-----									
546-TM20341	1388 226	0.010	-----									
546-TM20342	1388 226	< 0.005	-----									
546-TM20343	1388 226	< 0.005	-----									
546-TM20344	1388 226	0.085	-----									
546-TM20345	1388 226	< 0.005	-----									
546-TM20346	1388 226	0.005	-----									
546-TM20347	1388 226	< 0.005	-----									
546-TM20348	1388 226	0.010	-----									
546-TM20349	1388 226	0.010	-----									
546-TM20350	1388 226	0.030	-----									
D546-TM20331	214 --	-----	< 0.005									
CANMET	214 --	-----	2.440									
100000	214 --	-----	< 0.005									

CERTIFICATION: *Andriana Alexandre*



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9630284

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9630284

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#55
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 17-SEP-96.

SAMPLE PREPARATION

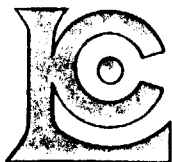
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546 BTC#55
Comments: ATTN: KATHY FARRELL

Page Number : 1
Total Pages : 1
Certificate Date: 17-SEP-96
Invoice No. : 19630284
P.O. Number :
Account : IFG

CERTIFICATE OF ANALYSIS

A9630284

SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
546-TM20351	1388	226	< 0.005	-----									
546-TM20352	1388	226	0.010	-----									
546-TM20353	1388	226	< 0.005	-----									
546-TM20354	1388	226	0.010	-----									
546-TM20355	1388	226	0.035	-----									
546-TM20356	1388	226	0.010	-----									
546-TM20357	1388	226	0.045	-----									
546-TM20358	1388	226	0.015	-----									
546-TM20359	1388	226	< 0.005	-----									
546-TM20360	1388	226	< 0.005	-----									
546-TM20361	1388	226	< 0.005	-----									
546-TM20362	1388	226	0.010	-----									
546-TM20363	1388	226	< 0.005	-----									
546-TM20364	1388	226	0.005	-----									
546-TM20365	1388	226	0.015	-----									
546-TM20366	1388	226	< 0.005	-----									
546-TM20367	1388	226	0.005	-----									
546-TM20368	1388	226	< 0.005	-----									
546-TM20369	1388	226	0.040	-----									
546-TM20370	1388	226	< 0.005	-----									
D546-TM20351	214	--	-----	< 0.005									
100560	214	--	-----	2.660									
100000	214	--	-----	< 0.005									

Luziana Alexandre
CERTIFICATION



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9630285

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9630285

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#56
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 17-SEP-96.

SAMPLE PREPARATION

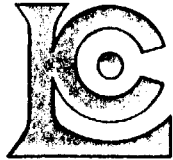
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546 BTC#56
Comments: ATTN: KATHY FARRELL

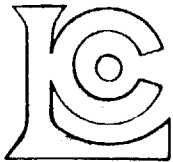
Page Number :1
Total Pages :1
Certificate Date: 17-SEP-96
Invoice No. :19630285
P.O. Number :
Account :IFG

CERTIFICATE OF ANALYSIS

A9630285

SAMPLE	PREP CODE	Au g/t FA+AA	Au check																	
546-TM20371	1388	226	< 0.005	-----																
546-TM20372	1388	226	< 0.005	-----																
546-TM20373	1388	226	< 0.015	-----																
546-TM20374	1388	226	< 0.005	-----																
546-TM20375	1388	226	< 0.005	-----																
546-TM20376	1388	226	< 0.005	-----																
546-TM20377	1388	226	< 0.005	-----																
546-TM20378	1388	226	< 0.005	-----																
546-TM20379	1388	226	< 0.005	-----																
546-TM20380	1388	226	0.010	-----																
546-TM20381	1388	226	< 0.005	-----																
546-TM20382	1388	226	< 0.005	-----																
546-TM20383	1388	226	0.005	-----																
546-TM20384	1388	226	0.025	-----																
546-TM20385	1388	226	0.005	-----																
546-TM20386	1388	226	< 0.005	-----																
546-TM20387	1388	226	0.015	-----																
546-TM20388	1388	226	< 0.005	-----																
546-TM20389	1388	226	< 0.005	-----																
546-TM20390	1388	226	< 0.005	-----																
D546-TM20371	214	--	-----	< 0.005																
CANMET	214	--	-----	2.500																
100000	214	--	-----	< 0.005																

Adriana Hernandez
CERTIFICATION:



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9630286

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9630286

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#57
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 17-SEP-96.

SAMPLE PREPARATION

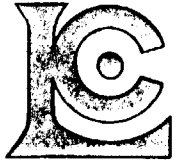
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
1202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

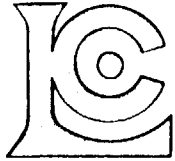
Project : 546 BTC#57
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 17-SEP-96
 Invoice No. : 19630286
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS A9630286

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM20391	1388 226	< 0.005	-----								
546-TM20392	1388 226	< 0.005	-----								
546-TM20393	1388 226	< 0.005	-----								
546-TM20394	1388 226	< 0.005	-----								
546-TM20395	1388 226	< 0.005	-----								
546-TM20396	1388 226	< 0.005	-----								
546-TM20397	1388 226	< 0.005	-----								
546-TM20398	1388 226	< 0.005	-----								
546-TM20399	1388 226	0.005	-----								
546-TM20400	1388 226	< 0.005	-----								
546-TM20401	1388 226	< 0.005	-----								
546-TM20402	1388 226	< 0.005	-----								
546-TM20403	1388 226	< 0.005	-----								
546-TM20404	1388 226	0.020	-----								
546-TM20405	1388 226	< 0.005	-----								
546-TM20406	1388 226	0.015	-----								
546-TM20407	1388 226	< 0.005	-----								
546-TM20408	1388 226	< 0.005	-----								
546-TM20409	1388 226	< 0.005	-----								
546-TM20410	1388 226	< 0.005	-----								
D546-TM20391	214 --	-----	< 0.005								
100560	214 --	-----	2.650								
100000	214 --	-----	< 0.005								

CERTIFICATION *Alexandra Alexander*



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9630287

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9630287

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#58
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-SEP-96.

SAMPLE PREPARATION

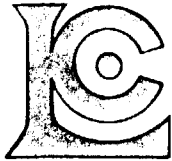
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOMINION CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546 BTC#58
Comments: ATTN: KATHY FARRELL

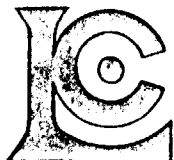
Page Number : 1
Total Pages : 1
Certificate Date: 19-SEP-96
Invoice No. : 19630287
P.O. Number :
Account : IFG

CERTIFICATE OF ANALYSIS

A9630287

SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
546-TM20411	1388	226	< 0.005	-----									
546-TM20412	1388	226	0.075	-----									
546-TM20413	1388	226	0.020	-----									
546-TM20414	1388	226	0.100	-----									
546-TM20415	1388	226	< 0.005	-----									
546-TM20416	1388	226	0.335	-----									
546-TM20417	1388	226	0.015	-----									
546-TM20418	1388	226	0.295	-----									
546-TM20419	1388	226	0.015	-----									
546-TM20420	1388	226	0.020	-----									
546-TM20421	1388	226	0.010	-----									
546-TM20422	1388	226	0.030	-----									
546-TM20423	1388	226	0.015	-----									
546-TM20424	1388	226	0.040	-----									
546-TM20425	1388	226	0.020	-----									
546-TM20426	1388	226	0.025	-----									
546-TM20427	1388	226	0.010	-----									
546-TM20428	1388	226	0.025	-----									
546-TM20429	1388	226	0.025	-----									
546-TM20430	1388	226	0.010	-----									
D546-TM20411	214	--	-----	< 0.005									
CANMET	214	--	-----	2.370									
100000	214	--	-----	< 0.005									

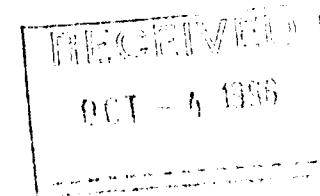
Alexandre
CERTIFICATION



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1



A9631020

Comments: ATTN: KATHY FARRELL

CERTIFICATE A9631020

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#59
P.O. #:

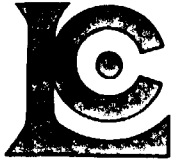
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-SEP-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul, Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

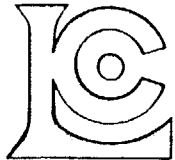
Project : 546 BTC#59
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 19-SEP-96
 Invoice No. : 19631020
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS	A9631020
--------------------------------	-----------------

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM20431	1388	226	< 0.005	-----							
546-TM20432	1388	226	< 0.005	-----							
546-TM20433	1388	226	< 0.005	-----							
546-TM20434	1388	226	0.015	-----							
546-TM20435	1388	226	0.015	-----							
546-TM20436	1388	226	< 0.005	-----							
546-TM20437	1388	226	< 0.005	-----							
546-TM20438	1388	226	< 0.005	-----							
546-TM20439	1388	226	0.010	-----							
546-TM20440	1388	226	< 0.005	-----							
546-TM20441	1388	226	< 0.005	-----							
546-TM20442	1388	226	< 0.005	-----							
546-TM20443	1388	226	< 0.005	-----							
546-TM20444	1388	226	< 0.005	-----							
546-TM20445	1388	226	< 0.005	-----							
546-TM20446	1388	226	0.005	-----							
546-TM20447	1388	226	< 0.005	-----							
546-TM20448	1388	226	0.020	-----							
546-TM20449	1388	226	< 0.005	-----							
546-TM20450	1388	226	< 0.005	-----							
D546-TM20431	214	--	-----	< 0.005							
100560	214	--	-----	2.510							
100000	214	--	-----	< 0.005							

CERTIFICATION:



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9631021

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9631021

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#60
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-SEP-96.

SAMPLE PREPARATION

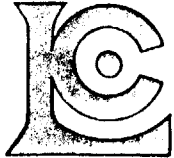
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

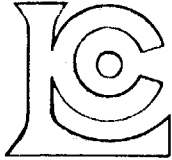
Project : 546 BTC#60
 Comments: ATTN: KATHY FARRELL

Page Number : 1
 Total Pages : 1
 Certificate Date: 19-SEP-96
 Invoice No. : 19631021
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS A9631021

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM20451	1388	226	0.010	-----							
546-TM20452	1388	226	< 0.005	-----							
546-TM20453	1388	226	< 0.005	-----							
546-TM20454	1388	226	0.090	-----							
546-TM20455	1388	226	0.010	-----							
546-TM20456	1388	226	0.005	-----							
546-TM20457	1388	226	< 0.005	-----							
546-TM20458	1388	226	0.010	-----							
546-TM20459	1388	226	< 0.005	-----							
546-TM20460	1388	226	< 0.005	-----							
546-TM20461	1388	226	0.005	-----							
546-TM20462	1388	226	< 0.005	-----							
546-TM20463	1388	226	0.005	-----							
546-TM20464	1388	226	< 0.005	-----							
546-TM20465	1388	226	< 0.005	-----							
546-TM20466	1388	226	0.010	-----							
546-TM20467	1388	226	< 0.005	-----							
546-TM20468	1388	226	< 0.005	-----							
546-TM20469	1388	226	< 0.005	-----							
546-TM20470	1388	226	< 0.005	-----							
D546-TM20451	214	--	-----	0.005							
CANMET	214	--	-----	2.420							
100000	214	--	-----	< 0.005							

CERTIFICATION *Alexandra*



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9631022

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9631022

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#61
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-SEP-96.

SAMPLE PREPARATION

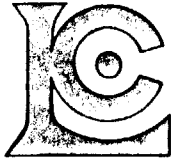
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#61
 Comments: ATTN: KATHY FARRELL

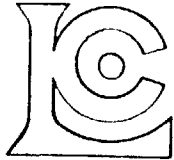
Page Number : 1
 Total Pages : 1
 Certificate Date: 19-SEP-96
 Invoice No. : 19631022
 P.O. Number :
 Account : IFG

CERTIFICATE OF ANALYSIS

A9631022

SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
546-TM20471	1388 226	< 0.005	-----										
546-TM20472	1388 226	< 0.005	-----										
546-TM20473	1388 226	< 0.005	-----										
546-TM20474	1388 226	< 0.005	-----										
546-TM20475	1388 226	0.060	-----										
546-TM20506	1388 226	0.010	-----										
546-TM20507	1388 226	0.010	-----										
546-TM20508	1388 226	0.005	-----										
546-TM20509	1388 226	0.010	-----										
546-TM20510	1388 226	0.010	-----										
546-TM20511	1388 226	< 0.005	-----										
546-TM20512	1388 226	< 0.005	-----										
546-TM20513	1388 226	0.005	-----										
546-TM20514	1388 226	0.035	-----										
546-TM20515	1388 226	0.005	-----										
546-TM20516	1388 226	0.010	-----										
546-TM20517	1388 226	0.020	-----										
546-TM20518	1388 226	0.015	-----										
546-TM20519	1388 226	< 0.005	-----										
546-TM20520	1388 226	< 0.005	-----										
D546-TM20471	214 --	-----	< 0.005										
100560	214 --	-----	2.660										
100000	214 --	-----	< 0.005										

CERTIFICATE OF ANALYSIS
Handwritten signature



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Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9631023

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9631023

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#62
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-SEP-96.

SAMPLE PREPARATION

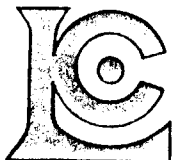
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul, Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

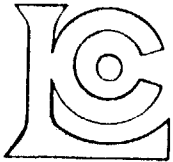
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 Total Pages : 1
 Certificate Date: 19-SEP-96
 Invoice No. : I9631023
 P.O. Number :
 Account : IFG

Project : 546 BTC#62
 Comments: ATTN: KATHY FARRELL

CERTIFICATE OF ANALYSIS	A9631023
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SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM20521	1388	226	< 0.005	-----							
546-TM20522	1388	226	< 0.005	-----							
546-TM20523	1388	226	0.020	-----							
546-TM20524	1388	226	0.085	-----							
546-TM20525	1388	226	< 0.005	-----							
546-TM20526	1388	226	< 0.005	-----							
546-TM20527	1388	226	0.005	-----							
546-TM20528	1388	226	0.005	-----							
546-TM20529	1388	226	0.005	-----							
546-TM20530	1388	226	< 0.005	-----							
546-TM20531	1388	226	0.005	-----							
546-TM20532	1388	226	0.045	-----							
546-TM20533	1388	226	0.005	-----							
546-TM20534	1388	226	0.050	-----							
546-TM20535	1388	226	< 0.005	-----							
546-TM20536	1388	226	0.010	-----							
546-TM20537	1388	226	< 0.005	-----							
546-TM20538	1388	226	< 0.005	-----							
546-TM20539	1388	226	< 0.005	-----							
546-TM20540	1388	226	0.010	-----							
D546-TM20521	214	--	-----	< 0.005							
CANMET	214	--	-----	2.500							
100000	214	--	-----	< 0.005							

CERTIFICATION *Alexandra Alexandria*



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9631024

Comments: ATTN: KATHY FARRELL

CERTIFICATE A9631024

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#63
P.O. #:

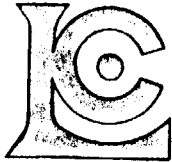
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-SEP-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul, Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Page Number : 1
 Total Pages : 1
 Certificate Date: 19-SEP-96
 Invoice No. : 19631024
 P.O. Number :
 Account : IFG

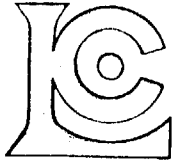
Project : 546 BTC#63
 Comments: ATTN: KATHY FARRELL

CERTIFICATE OF ANALYSIS

A9631024

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
546-TM20541	1388	226	0.050	-----								
546-TM20542	1388	226	< 0.005	-----								
546-TM20543	1388	226	< 0.005	-----								
546-TM20544	1388	226	< 0.005	-----								
546-TM20545	1388	226	0.005	-----								
546-TM20546	1388	226	0.005	-----								
546-TM20547	1388	226	< 0.005	-----								
546-TM20548	1388	226	< 0.005	-----								
546-TM20549	1388	226	0.010	-----								
546-TM20550	1388	226	0.030	-----								
546-TM20551	1388	226	< 0.005	-----								
546-TM20552	1388	226	< 0.005	-----								
546-TM20553	1388	226	< 0.005	-----								
546-TM20554	1388	226	0.020	-----								
546-TM20555	1388	226	< 0.005	-----								
546-TM20556	1388	226	< 0.005	-----								
546-TM20557	1388	226	0.005	-----								
546-TM20558	1388	226	0.010	-----								
546-TM20559	1388	226	0.055	-----								
546-TM20560	1388	226	< 0.005	-----								
D546-TM20541	214	--	-----	0.045								
100560	214	--	-----	2.690								
100000	214	--	-----	< 0.005								

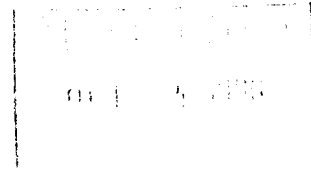
Adriano S. Souda
 CERTIFICATION



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1



A9631025

Comments: ATTN: KATHY FARRELL

CERTIFICATE A9631025

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#64
P.O. #:

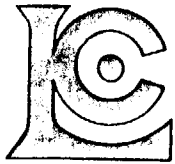
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-SEP-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Page Number : 1
Total Pages : 1
Certificate Date: 19-SEP-96
Invoice No. : 19631025
P.O. Number :
Account : IFG

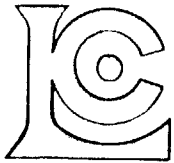
Project : 546 BTC#64
Comments: ATTN: KATHY FARRELL

CERTIFICATE OF ANALYSIS

A9631025

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM20561	1388	226	< 0.005	-----							
546-TM20562	1388	226	< 0.005	-----							
546-TM20563	1388	226	< 0.005	-----							
546-TM20564	1388	226	0.190	-----							
546-TM20565	1388	226	< 0.005	-----							
546-TM20566	1388	226	< 0.005	-----							
546-TM20567	1388	226	0.030	-----							
546-TM20568	1388	226	< 0.005	-----							
546-TM20569	1388	226	< 0.005	-----							
546-TM20570	1388	226	< 0.005	-----							
546-TM20571	1388	226	0.015	-----							
546-TM20572	1388	226	0.005	-----							
546-TM20573	1388	226	< 0.005	-----							
546-TM20574	1388	226	< 0.005	-----							
546-TM20575	1388	226	< 0.005	-----							
546-TM20576	1388	226	< 0.005	-----							
546-TM20577	1388	226	< 0.005	-----							
546-TM20578	1388	226	< 0.005	-----							
546-TM20579	1388	226	< 0.005	-----							
546-TM20580	1388	226	0.040	-----							
D546-TM20561	214	--	-----	< 0.005							
CANMET	214	--	-----	2.500							
100000	214	--	-----	< 0.005							

CERTIFICATION: *[Signature]*



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9631026

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9631026

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#65
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-SEP-96.

SAMPLE PREPARATION

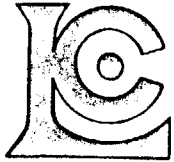
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546 BTC#65
Comments: ATTN: KATHY FARRELL

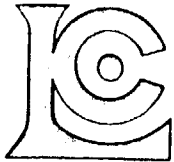
Page Number : 1
Total Pages : 1
Certificate Date: 19-SEP-96
Invoice No. : 19631026
P.O. Number :
Account : IFG

CERTIFICATE OF ANALYSIS

A9631026

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM20581	1388	226	< 0.005	-----							
546-TM20582	1388	226	< 0.005	-----							
546-TM20583	1388	226	< 0.005	-----							
546-TM20584	1388	226	0.010	-----							
546-TM20585	1388	226	< 0.005	-----							
546-TM20586	1388	226	0.005	-----							
546-TM20587	1388	226	< 0.005	-----							
546-TM20588	1388	226	0.005	-----							
546-TM20589	1388	226	0.010	-----							
546-TM20590	1388	226	< 0.005	-----							
546-TM20591	1388	226	< 0.005	-----							
546-TM20592	1388	226	< 0.005	-----							
546-TM20593	1388	226	0.045	-----							
546-TM20594	1388	226	< 0.005	-----							
546-TM20595	1388	226	< 0.005	-----							
546-TM20596	1388	226	< 0.005	-----							
546-TM20597	1388	226	< 0.005	-----							
546-TM20598	1388	226	< 0.005	-----							
546-TM20599	1388	226	0.050	-----							
546-TM20600	1388	226	0.005	-----							
D546-TM20581	214	--	-----	< 0.005							
100560	214	--	-----	2.480							
100000	214	--	-----	< 0.005							

CERTIFICATION: *Luciana Alexander*



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1



A9631027

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9631027

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#66
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-SEP-96.

SAMPLE PREPARATION

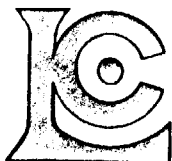
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	20	Ring 600 g to approx -150 mesh
226	20	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	20	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	20	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546 BTC#66
Comments: ATTN: KATHY FARRELL

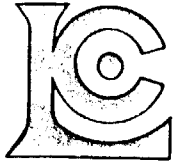
Page Number : 1
Total Pages : 1
Certificate Date: 19-SEP-96
Invoice No. : 19631027
P.O. Number :
Account : IFG

CERTIFICATE OF ANALYSIS A9631027

SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
546-TM20601	1388	226	< 0.005	-----									
546-TM20602	1388	226	0.015	-----									
546-TM20603	1388	226	< 0.005	-----									
546-TM20604	1388	226	< 0.005	-----									
546-TM20605	1388	226	< 0.005	-----									
546-TM20606	1388	226	< 0.005	-----									
546-TM20607	1388	226	< 0.005	-----									
546-TM20608	1388	226	0.050	-----									
546-TM20609	1388	226	0.005	-----									
546-TM20610	1388	226	< 0.005	-----									
546-TM20611	1388	226	0.005	-----									
546-TM20612	1388	226	0.010	-----									
546-TM20613	1388	226	< 0.005	-----									
546-TM20614	1388	226	< 0.005	-----									
546-TM20615	1388	226	< 0.005	-----									
546-TM20616	1388	226	< 0.005	-----									
546-TM20617	1388	226	< 0.005	-----									
546-TM20618	1388	226	< 0.005	-----									
546-TM20619	1388	226	< 0.005	-----									
546-TM20620	1388	226	< 0.005	-----									
D546-TM20601	214	--	-----	< 0.005									
CANMET	214	--	-----	2.500									
100000	214	--	-----	< 0.005									

CERTIFICATION

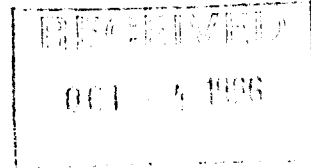
Alexandra



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Essayeurs * Geochimistes * Chimistes Analytique
175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1



A9631028

Comments: ATTN: KATHY FARRELL

CERTIFICATE **A9631028**

(IFG) - PLACER DOME CANADA LIMITED

Project: 546 BTC#67
P.O.#:

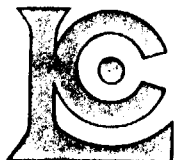
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-SEP-96.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
494	12	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	3	Au check analysis		0.005	10000

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	12	Ring 600 g to approx -150 mesh
226	12	0-3 Kg crush and split
214	3	Rcvd as pulp; mesh size checked
3202	12	Rock - save entire reject

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
 EXPLORATION
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : 546 BTC#67
 Comments: ATTN: KATHY FARRELL

Page Number :1
 Total Pages :1
 Certificate Date: 19-SEP-96
 Invoice No. :19631028
 P.O. Number :
 Account :IFG

CERTIFICATE OF ANALYSIS A9631028

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
546-TM20621	1388 226	0.005	-----								
546-TM20622	1388 226	0.005	-----								
546-TM20623	1388 226	< 0.005	-----								
546-TM20624	1388 226	0.025	-----								
546-TM20625	1388 226	< 0.005	-----								
546-FE41606	1388 226	< 0.005	-----								
546-FE41607	1388 226	0.055	-----								
546-FE41608	1388 226	< 0.005	-----								
546-FE41609	1388 226	< 0.005	-----								
546-FE41610	1388 226	< 0.005	-----								
546-FE41611	1388 226	< 0.005	-----								
546-FE41612	1388 226	0.010	-----								
D546-TM20621	214 --	-----	0.010								
100560	214 --	-----	2.510								
100000	214 --	-----	< 0.005								

CERTIFICATION *Holiana Alexander*

APPENDIX E
SLUDGE SAMPLE LOCATIONS

SLUDGE ASSAYS

The following spreadsheets indicate the hole number, sample number, from, to and gold assay result for the sludge samples taken.

Units are as follows: From - metres
To - metres
Assay - g/t

SLUDGE ASSAYS FOR HOLE 546-001.

SAMP	FROM	TO	AU
S25001	23	26	0
S25002	26	29	15
S25003	29	32	10
S25004	32	35	0
S25005	35	38	10
S25006	38	41	60
S25007	41	44	10
S25008	44	47	70
S25009	47	50	55
S25010	50	53	60
S25011	53	56	80
S25012	56	59	50
S25013	59	62	35
S25014	62	65	20
S25015	65	68	30
S25016	68	71	10
S25017	71	74	0
S25018	74	77	0
S25019	77	80	0
S25020	80	83	0
S25021	83	86	0
S25022	86	89	170
S25023	89	92	0
S25024	92	95	0
S25025	95	98	0
S25026	98	101	100
S25027	101	104	25
S25028	104	107	20
S25029	107	110	0
S25030	113	116	0
S25031	116	119	115
S25032	119	122	30
S25033	122	125	155
S25034	125	128	25
S25035	128	131	185
S25036	131	134	70
S25037	134	137	30
S25038	137	140	45
S25039	140	143	30
S25040	143	146	0
S25041	160	163	0

Data File : A:SLUDGE3
SLUDGE ASSAYS FOR HOLE 546-003.

SAMP	FROM	TO	AU
S25042	32	35	40
S25043	35	38	50
S25044	38	41	0
S25045	41	44	0
S25046	44	47	10
S25047	47	50	20
S25048	50	53	10
S25049	53	56	10
S25050	56	59	5
S25051	59	62	0
S25052	62	65	0
S25053	65	68	0
S25054	68	71	0
S25055	71	74	0
S25056	74	77	0
S25057	77	80	0
S25058	80	83	0
S25059	83	86	0
S25060	86	89	0
S25061	89	92	0
S25062	92	95	0
S25063	95	98	0
S25064	98	101	10
S25065	101	104	0
S25066	104	107	0
S25067	107	110	0
S25068	110	113	0
S25069	113	116	0
S25070	116	119	0
S25071	119	122	0
S25072	122	125	0
S25073	125	128	0
S25074	128	131	0
S25075	131	134	0
S25076	134	137	0
S25077	137	140	0
S25078	140	143	0
S25079	143	146	0
S25080	146	149	0
S25081	149	152	0
S25082	152	155	0
S25083	155	158	0

Data File : A:SLUDGE4
SLUDGE ASSAYS FOR HOLE 546-004.

SAMP	FROM	TO	AU
S25084	23	26	0
S25085	26	29	20
S25086	29	32	10
S25087	32	35	10
S25088	35	38	15
S25089	38	41	0
S25090	68	71	10

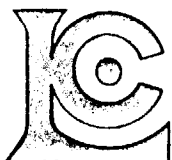
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SLUDGE ASSAYS FOR HOLE 546-006.

SAMP	FROM	TO	AU
S25091	29	32	0
S25092	32	35	0
S25093	35	38	0
S25094	38	41	0
S25095	41	44	0
S25096	44	47	0
S25097	47	50	0
S25098	50	53	0
S25099	53	56	10
S25100	56	59	0
S25101	59	62	0
S25102	62	65	10
S25103	65	68	0
S25104	68	71	0
S25105	71	74	0
S25106	74	77	0
S25107	77	80	0
S25108	80	83	0
S25109	83	86	0
S25110	86	89	0
S25111	89	92	0
S25112	92	95	0
S25113	95	98	0
S25114	98	101	0
S25115	101	104	0
S25116	104	107	0
S25117	107	110	0
S25118	110	113	0
S25119	113	116	0
S25120	116	119	0
S25121	119	122	0
S25122	122	125	0
S25123	125	128	0
S25124	128	131	0
S25125	131	134	0
S25126	134	137	0
S25127	137	140	0
S25128	140	143	0
S25129	143	146	0
S25130	146	149	0
S25131	149	152	0
S25132	152	155	0
S25133	155	158	0
S25134	158	161	0
S25135	161	164	0
S25136	164	167	0
S25137	167	170	0
S25138	170	173	0
S25139	173	176	0
S25140	176	179	0
S25141	179	182	0
S25142	182	185	0

Data File : A:SLUDGE7
SLUDGE ASSAYS FOR HOLE 546-007.

SAMP	FROM	TO	AU
S25143	53	56	0
S25144	56	59	0
S25145	59	62	0
S25146	62	65	0
S25147	65	68	0
S25148	68	71	0
S25149	71	74	0
S25150	74	77	0
S25151	77	80	0
S25152	80	83	0
S25153	83	86	0
S25154	86	89	0
S25155	89	92	0
S25156	92	95	0
S25157	95	98	0
S25158	98	101	0
S25159	101	104	0
S25160	104	107	0
S25161	107	110	0
S25162	110	113	0
S25163	113	116	0
S25164	116	119	0
S25165	119	122	0
S25166	122	125	0
S25167	125	128	0
S25168	128	131	0
S25169	131	134	0
S25170	134	137	0
S25171	137	140	0
S25172	140	143	0

APPENDIX F
CERTIFICATES OF ANALYSIS
for AU in SLUDGE SAMPLES



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul, Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

AUG 27 1996

A9627605

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9627605

(IFG) - PLACER DOME CANADA LIMITED

Project: 546
P.O. #:

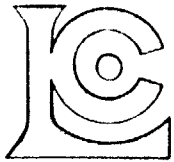
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
234	49	0-7 Kg splitting charge
225	49	Run as received

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	49	Au ppb: Fuse 10 g sample	FA-AAS	5	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project: 546
Comments: ATTN: KATHY FARRELL

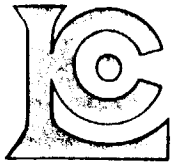
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Total Pages : 2
Certificate Date: 19 AUG 96
Invoice No. : 19627605
P.O. Number :
Account : IFG

CERTIFICATE OF ANALYSIS

A9627605

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S25043	234 225	50																		
S25044	234 225	< 5																		
S25045	234 225	< 5																		
S25046	234 225	10																		
S25047	234 225	20																		
S25048	234 225	10																		
S25049	234 225	10																		
S25050	234 225	5																		
S25051	234 225	< 5																		
S25052	234 225	< 5																		
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S25078	234 225	< 5																		
S25079	234 225	< 5																		
S25080	234 225	< 5																		
S25081	234 225	< 5																		

CERTIFIED *Alexandre Alexandre*



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul. Industriel C.P. 284, Rouyn
Quebec, Canada J9X 5C3
PHONE: 819-797-1922 FAX: 819-797-0106

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546
Comments: ATTN: KATHY FARRELL

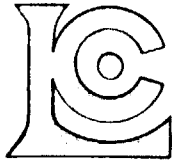
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Total Pages : 2
Certificate Date: 19-AUG 96
Invoice No. : 19627605
P.O. Number :
Account : IFG

CERTIFICATE OF ANALYSIS

A9627605

SAMPLE	PREP CODE	Au ppb FA+AA									
S25082	234 225	< 5									
S25083	234 225	< 5									
S25084	234 225	< 5									
S25085	234 225	20									
S25086	234 225	10									
S25087	234 225	10									
S25088	234 225	15									
S25089	234 225	< 5									
S25090	234 225	10									

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project: 546
Comments: ATTN: KATHY FARRELL

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Tot QC Pg: 1
Date: 19-AUG-96
Invoice #: 19626817
P.O. #: SHIP #1
IFG

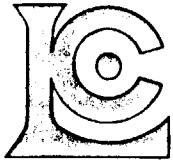
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A9626817

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NG-94 CHEMEX MEAN	Std2 ---	1 ---	330 334										
S25001	Dup Orig	1-01 1-01	< 5 < 5										

CERTIFIED BY

Adriana Alexandra



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9626817

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9626817

(IFG) - PLACER DOME CANADA LIMITED

Project: 546
P.O. #: SHIP #1

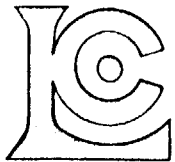
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
234	41	0-7 Kg splitting charge
225	41	Run as received

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	41	Au ppb: Fuse 10 g sample	FA-AAS	5	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project: 546
Comments: ATTN: KATHY FARRELL

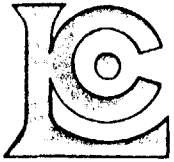
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Certificate Date: 19-AUG 96
Invoice No. :19626817
P.O. Number :SHIP #1
Account :IFG

CERTIFICATE OF ANALYSIS

A9626817

SAMPLE	PREP CODE	Au ppb FA+AA										
S25001	234 225	< 5										
S25002	234 225	15										
S25003	234 225	10										
S25004	234 225	< 5										
S25005	234 225	10										
S25006	234 225	60										
S25007	234 225	10										
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S25019	234 225	< 5										
S25020	234 225	< 5										
S25021	234 225	< 5										
S25022	234 225	170										
S25023	234 225	< 5										
S25024	234 225	< 5										
S25025	234 225	< 5										
S25026	234 225	100										
S25027	234 225	25										
S25028	234 225	20										
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S25036	234 225	70										
S25037	234 225	30										
S25038	234 225	45										
S25039	234 225	30										
S25040	234 225	< 5										

CERTIFIED BY *Alexandra Alexandra*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546
Comments: ATTN: KATHY FARRELL

Page Number :2
Total Pages :2
Certificate Date: 19-AUG-96
Invoice No. :19626817
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Account :IFG

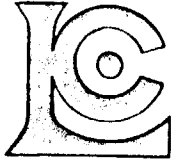
CERTIFICATE OF ANALYSIS

A9626817

SAMPLE	PREP CODE		Au ppb									
	234	225	FA+AA									
S25041			< 5									

CERTIFICATION

Alicia Alexander



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9629398

Comments: ATTN: KATHY FARRELL

CERTIFICATE

A9629398

(IFG) - PLACER DOME CANADA LIMITED

Project: 546
P.O. #:

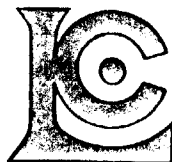
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 4-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
234	82	0-7 Kg splitting charge
225	82	Run as received

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	82	Au ppb: Fuse 10 g sample	FA-AAS	5	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

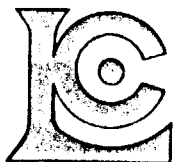
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Comments: ATTN: KATHY FARRELL

Page Number : 1
Total Pages : 3
Certificate Date: 04-SEP-96
Invoice No. : 19629398
P.O. Number :
Account : IFG

CERTIFICATE OF ANALYSIS A9629398

SAMPLE	PREP CODE	Au ppb FA+AA											
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546-S25092	234 225	< 5											
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546-S25111	234 225	< 5											
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546-S25114	234 225	< 5											
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546-S25119	234 225	< 5											
546-S25120	234 225	< 5											
546-S25121	234 225	< 5											
546-S25122	234 225	< 5											
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546-S25126	234 225	< 5											
546-S25127	234 225	< 5											
546-S25128	234 225	< 5											
546-S25129	234 225	< 5											
546-S25130	234 225	< 5											

Adriana Hernandez
CERTIFICATION



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

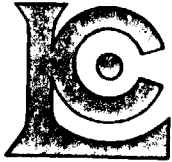
Project : 546
Comments: ATTN: KATHY FARRELL

Page Number :2
Total Pages :3
Certificate Date: 04-SEP-96
Invoice No. : 19629398
P.O. Number :
Account : IFG

CERTIFICATE OF ANALYSIS A9629398

SAMPLE	PREP CODE		Au ppb FA+AA										
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546-S25140	234	225	< 5										
546-S25141	234	225	< 5										
546-S25142	234	225	< 5										
546-S25143	234	225	< 5										
546-S25144	234	225	< 5										
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546-S25152	234	225	< 5										
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546-S25155	234	225	< 5										
546-S25156	234	225	< 5										
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546-S25160	234	225	< 5										
546-S25161	234	225	< 5										
546-S25162	234	225	< 5										
546-S25163	234	225	< 5										
546-S25164	234	225	< 5										
546-S25165	234	225	< 5										
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546-S25167	234	225	< 5										
546-S25168	234	225	< 5										
546-S25169	234	225	< 5										
546-S25170	234	225	< 5										

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: PLACER DOME CANADA LIMITED
EXPLORATION
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 546
Comments: ATTN: KATHY FARRELL

Page Number :3
Total Pages :3
Certificate Date: 04-SEP-96
Invoice No. :19629398
P.O. Number :
Account :IFG

CERTIFICATE OF ANALYSIS

A9629398

SAMPLE	PREP CODE		Au ppb																	
			FA+AA																	
546-S25171	234	225	< 5																	
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CERTIFICATION: _____

Personal information collected or section 8 of the Mining Act, the i the mining land holder. Question Mines, 6th Floor, 933 Ramsey Lr



ent Work Regulation 6/96. Under assessment work and correspond with stry of Northern Development and

900

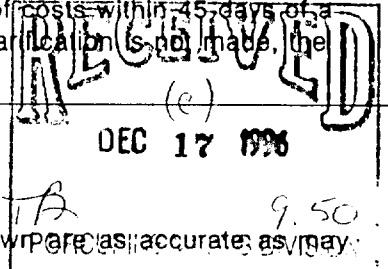
Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilo-metres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
diamond drilling	1666.86 m	varies	\$85,771.75
lab analyses	172 sludge; 1332 Au	varies	\$17,946
salaries	logging/geotech/sampling etc		\$39,519
(see attached detailed cost statement)			
Associated Costs (e.g. supplies, mobilization and demobilization).			
computer rental	(4 months)	\$328.29/m	\$1313.17
sample bags, saw blades etc			\$1463
Transportation Costs			
truck rental	(2 months)	\$519.23/month	\$1038.46
Food and Lodging Costs			
			n/a
Total Value of Assessment Work			\$147,051

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
 2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:
- TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total \$ value of worked claimed.

Note:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.



Certification verifying costs:

I, PAUL BUDCHERL (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as SENIOR GEOLOGIST I am authorized (recorded holder, agent, or state company position with signing authority) to make this certification.

Signature <i>Paul Budcherl</i>	Date 12/17/96
-----------------------------------	------------------



Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)
W9660.00848
 Assessment Files Research Imaging

Personal information collected on this form is obtained under the authority of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.
 - Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Name <u>Placer Dome Canada Limited</u>	Client Number <u>300210</u>
Address <u>PO Box 43, 3201-130 Adelaide Street West</u>	Telephone Number <u>(416) 363-4962</u>
<u>Toronto, Ontario M5H 3P5</u>	Fax Number <u>(416) 359-9787</u>
Name	Client Number
Address	Telephone Number
	Fax Number

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs) Physical: drilling, stripping, trenching and associated assays Rehabilitation

Work Type <u>1666.86m diamond drilling (7 holes)</u>	Office Use
	Commodity
	Total \$ Value of Work Claimed <u>\$ 147,050</u>
Dates Work Performed From <u>01 06 96</u> To <u>17 12 96</u>	NTS Reference
Global Positioning System Data (if available) <u>n/a</u>	Township/Area <u>Murphy + Tisdale</u>
	Mining Division <u>Porcupine</u>
	M or G-Plan Number <u>G-3980 + G-3976</u>
	Resident Geologist District <u>TIMMINS</u>

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
 - provide proper notice to surface rights holders before starting work;
 - complete and attach a Statement of Costs, form 0212;
 - provide a map showing contiguous mining lands that are linked for assigning work;
 - include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name <u>Kathy Farrell, Placer Dome Canada Limited</u>	Telephone Number <u>(705) 267-5400</u>
Address <u>PO Box 960, Timmins Ontario P4N 7H1</u>	Fax Number <u>(705) 267-5440</u>
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

RECEIVED

(c)

DEC 17 1996

iR 9:50

PORCUPINE MINING DIVISION

RECORDED

DEC 17 1996

Receipt _____

4. Certification by Recorded Holder or Agent

I, PAUL BURCHELL (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent <u>[Signature]</u>	Date <u>Dec 17 1996</u>
Agent's Address <u>PO Box 960, Timmins Ontario P4N 7H1</u>	Telephone Number <u>(705) 267-5400</u>
	Fax Number <u>(705) 267-5440</u>

5. **Work to be recorded and distributed.** Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1					
2 594781	1	6,232	0	0	6,232
3 594783	1	18,255	0	0	18,255
4 594793	1	45,065	0	0	45,065
5 529973	1	16,111	0	0	16,111
6 529974	1	5,524	0	0	5,524
7 P9950	16ha	15,392	0	0	15,392
8 P12295	16ha	3,606	0	0	3,606
9 P12298	16.4ha	17,249	0	0	17,249
10 S1/2L7C1 Murphy	65.5ha	19,616	0	0	19,616
11					
12					
13					
14					
15					
Column Totals		147,050	0	0	147,050

I, ROBIN PRICE, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: Robin Price - Placer Dome Canada Date: Dec 17/96

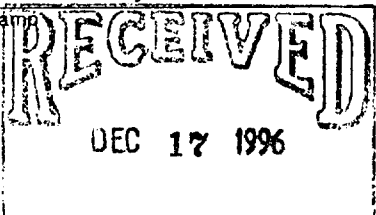
6. **Instructions for cutting back credits that are not approved.**

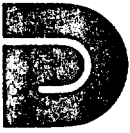
Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

	Deemed Approved Date <u>March 17/97</u>	Date Notification Sent
	Date Approved	Total Value of Credit Approved <u>\$ 147,050</u>
Approved for Recording by Mining Recorder (Signature)		



STATEMENT OF COSTS
MONETA PORCUPINE OPTION
1996 DIAMOND DRILLING

Drilling done 17 July 1996 to 14 August 1996
Core logging done 20 July 1996 to 28 August 1996

Contractors

Norex Drilling	\$85,771.75	1666.86m, 7 ddh
Chemex Labs	\$17,946.00	172 sludge; 1332 Au from core

Supplies

Fordia	\$700	saw blades for cutting core
Porcupine Canvas	\$356	sample bags+ corebox labels
Royal Studios	\$137	photo developing - core
Laidlaw Waste	\$270	cleaning sludge from cutter

Vehicle

Rental	\$1038.46	1 truck, 2 months
--------	-----------	-------------------

Computer rental

Via Computers	\$1313.17	4 months
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Salaries

Wendy Compton	Computer drafting	9.5 days @ \$155/day	\$1,472
Barry Elliot	core cutting and sampling	19.5 days @ \$155/day	\$3,022
Dave Hunt	Project Geologist	10 days @ \$350/day	\$3,500
Kathy Farrell	Geologist until mid-Aug	96.5 @ \$250/day	\$24,125
Mike DeLuca	Junior Geologist	37 days @ \$200/day	\$7,400

TOTAL BEING FILED FOR ASSESSMENT CREDIT = \$147,050

*Mike
16 Dec 1996*

MAP SYMBOLOLOGY

Aerial Cableway	Pipeline (above ground)
Boundary	Railroad
International	Single Track
Intraprovincial	Double Track
District, Township	Abandoned
Indian Reserve	Turbidite
Approximate	Road
Lot, Concession	Highway, County
Approximate	Township
Parish Boundary	Access (road or daylight)
Bridge	Highway, County
Road, Railroad	Township
Building	Double line river with multiple rapids
Chimney	Double line river with multiple rapids
Cliff, Pit, Pile	Double line river with multiple rapids
Contour	Reservoir
Interpreted	River, Stream, Canal
Approximate	Approximate
Depression	Direction of flow
Control Points	Spot Elevation (less elevations)
horizontal	Tower
vertical	Well
Culvert	Transmission Line
Falls	Spot Elevation (less elevations)
Double line river	Feature Outline (Construction Features, etc.)
Fence, Hedge, Wall	Pipe
Feature Outline (Construction Features, etc.)	Pyrene
Flooded Land	Tunnel
Lock	Utility Poles
Marsh or Swamp	Wharf, Dock, Pier
Moat	Wooded Area
Mine Head Frame	
Outcrop	

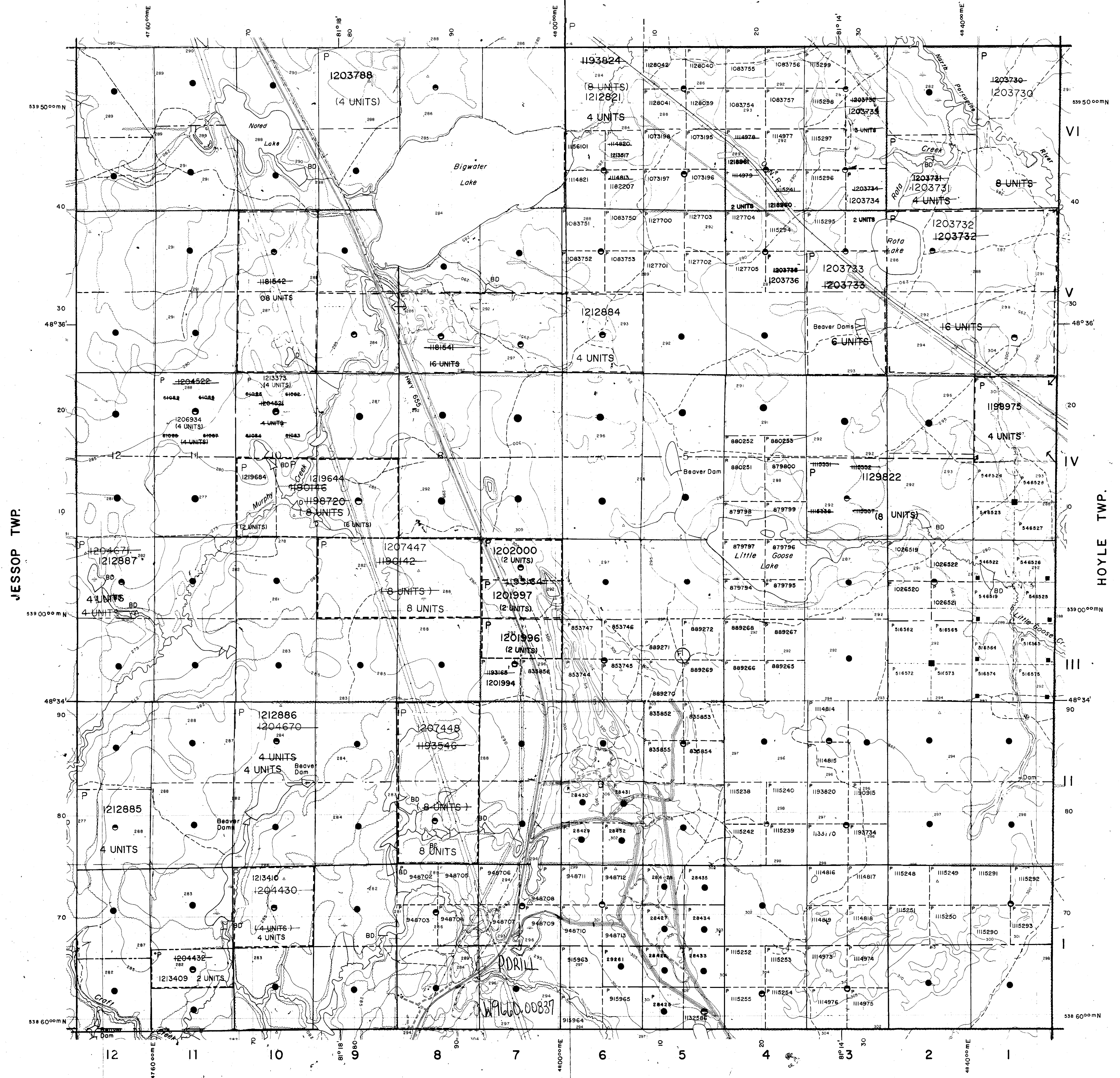
AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

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.

WARK TWP.



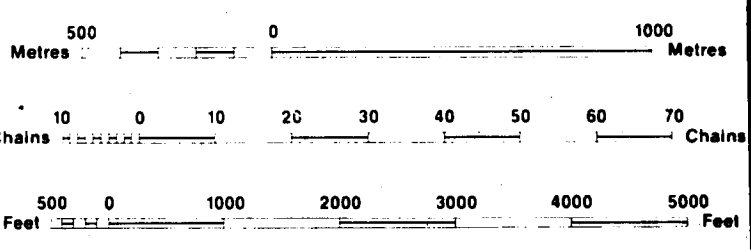
LEGEND

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	

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	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

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



SCALE 1:20 000
GRID ZONE: 17

NOTES

F. - SUBJECT TO FORESTRY ACTIVITY IN 1994/95.

SAND AND GRAVEL

FILE LA 603 P11 634-6 EXPIRY DATE JAN 2 1994

TOWNSHIP

MURPHY

M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS

MINING DIVISION
PORCUPINE

LAND TITLES / REGISTRY DIVISION
COCHRANE



200

ORIGINAL COMPILATION JULY, 1984

Number
G-3980

REVISED:

MAP SYMBOLOLOGY

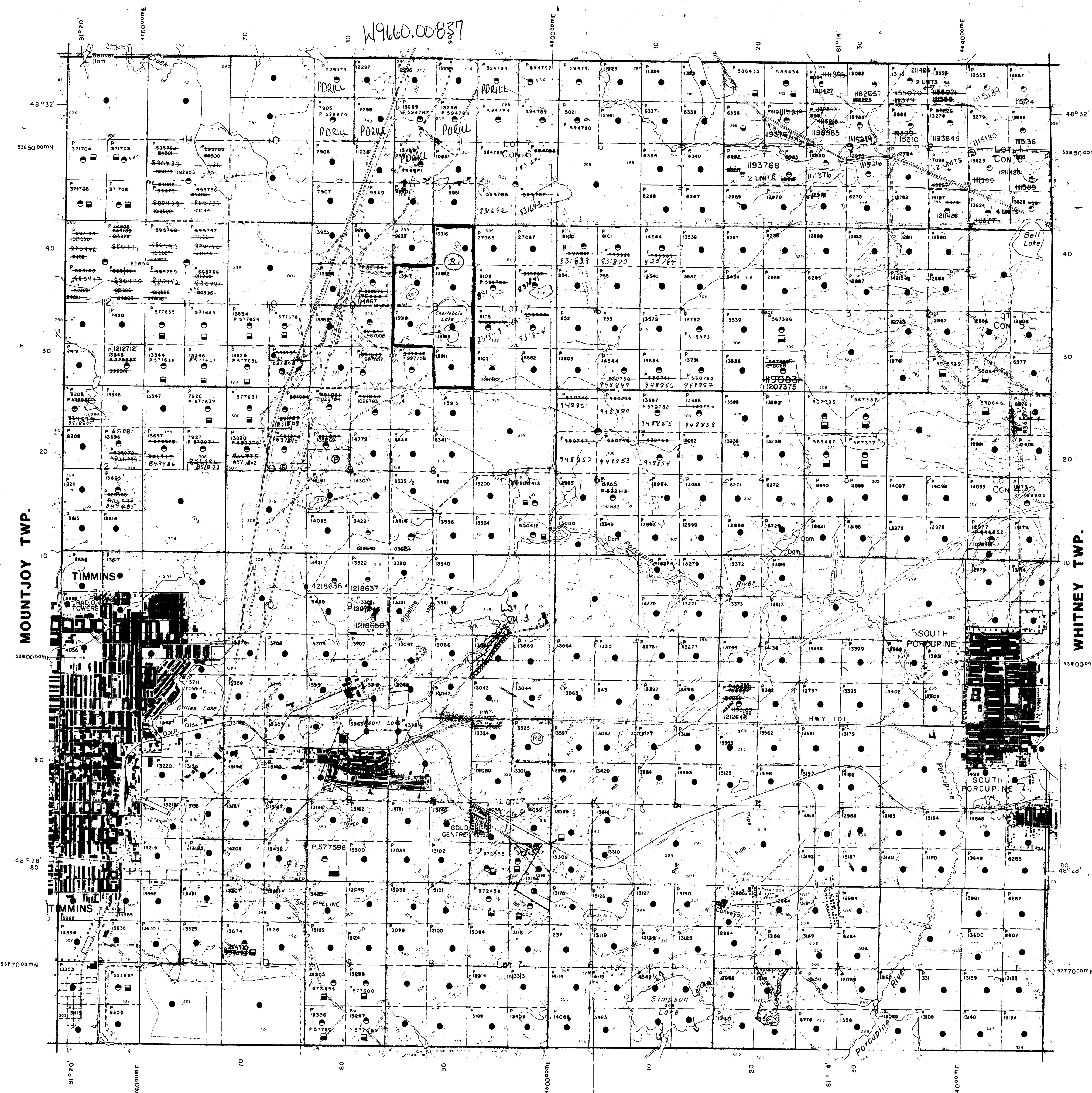
Aerial Cables	Pipeline (above ground)
Boundary	Railroad
International	Single Track
Intrajurisdictional	Double Track
District, Township	Abandoned
Section Reserve	Turbine
Approximate	Road
Lot, Concession	Highway, County
Approximate	Township
Pipe Boundary	Access (road of doubtful maintenance or significant distress)
Bridge	Trail, Bush Road (staggered sides)
Road, Railroad	Rapids
Building	Double line river with multiple rapids
Chimney	Reservoir
Cliff, Pit, Pile	River, Stream, Canal
Contours	Approximate seasonal
Intersected	Location of fire
Approximate	Rock
Depression	Spot Elevation (above sea level)
Control Points	Vertical
Horizontal	0 77402
Vertical	0 300 02
Culvert	Lock
Falls	Fence, Hedge, Wall
Double line river	Transmission Line
Feature Outline (Construction Features, etc.)	Power
Flooded Land	Tunnel
Lock	Utility Poles
Marsh or Swamp	Wharf, Dock, Pier
Mast	Wooded Area
Mine Head Frame	
Outcrop	

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
(R) - THE SURFACE AND MINING RIGHTS ARE WITHDRAWN FROM PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 35 OF THE MINING ACT R.S.O. 1990, DATED MAY 29, 1996 AT ORDER NO. W-P-23/96 HER.				
(S) - MINING RIGHTS ONLY WITHDRAWN FROM PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 35 OF THE MINING ACT R.S.O. 1990, DATED MAY 29, 1996 AT ORDER NO. W-P-26/96 HER.				

MURPHY TWP.



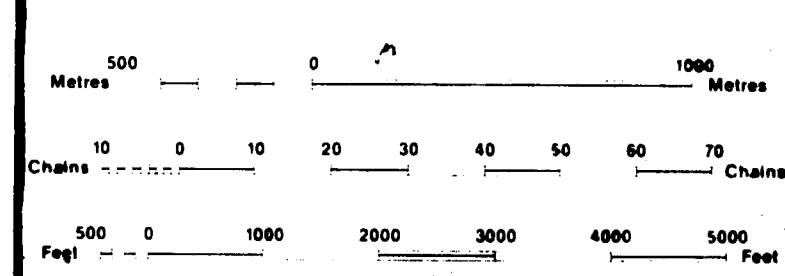
LEGEND

HIGHWAY AND ROUTE NO.	[Symbol]
OTHER ROADS	[Symbol]
TRAILS	[Symbol]
SURVEYED LINES	[Symbol]
TOWNSHIPS, BASE LINES ETC.	[Symbol]
LOTS, MINING CLAIMS, PARCELS, ETC.	[Symbol]
UN-SURVEYED LINES	[Symbol]
LOT LINE	[Symbol]
PARCEL BOUNDARY	[Symbol]
MINING CLAIMS ETC.	[Symbol]
RAILWAY AND RIGHT OF WAY	[Symbol]
UTILITY LINES	[Symbol]
NON PERENNIAL STREAM	[Symbol]
FLOODING OR FLOODING RIGHTS	[Symbol]
SUBDIVISION OR COMPOSITE PLAN	[Symbol]
RESERVATIONS	[Symbol]
ORIGINAL SHORELINE	[Symbol]
MARSH OR MUSKOG	[Symbol]
MINES	[Symbol]
TRAVERSE MONUMENT	[Symbol]

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	[Symbol]
... SURFACE RIGHTS ONLY	[Symbol]
... MINING RIGHTS ONLY	[Symbol]
LEASE, SURFACE & MINING RIGHTS	[Symbol]
... SURFACE RIGHTS ONLY	[Symbol]
... MINING RIGHTS ONLY	[Symbol]
LICENCE OF OCCUPATION	[Symbol]
ORDER IN COUNCIL	[Symbol]
RESERVATION	[Symbol]
CANCELLED	[Symbol]
SAND & GRAVEL	[Symbol]

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



SCALE 1:20 000
GRID ZONE 17

NOTES

REGISTERED PLAN OF SUBDIVISION
12

TOWNSHIP
TISDALE
M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE



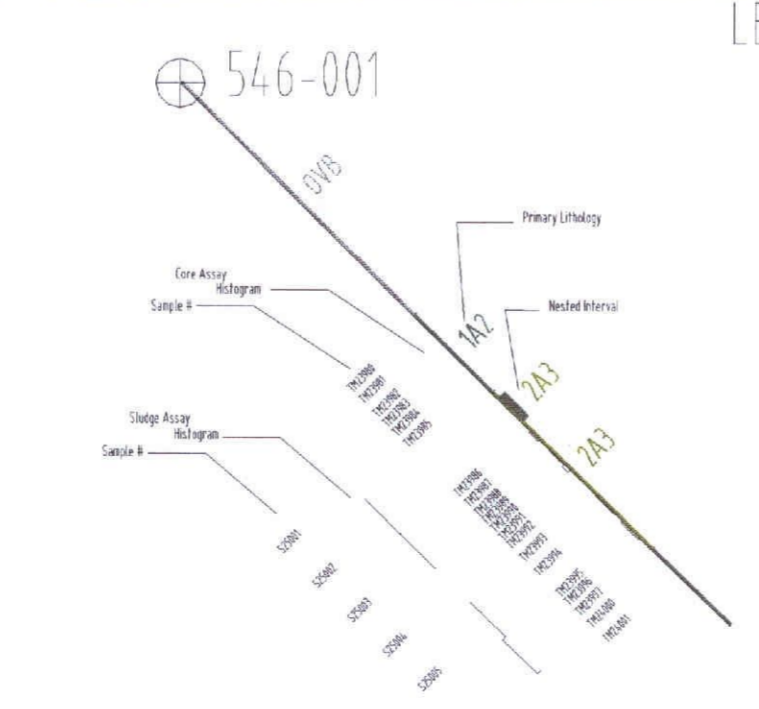
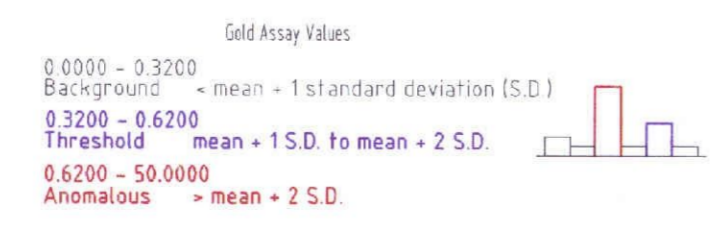
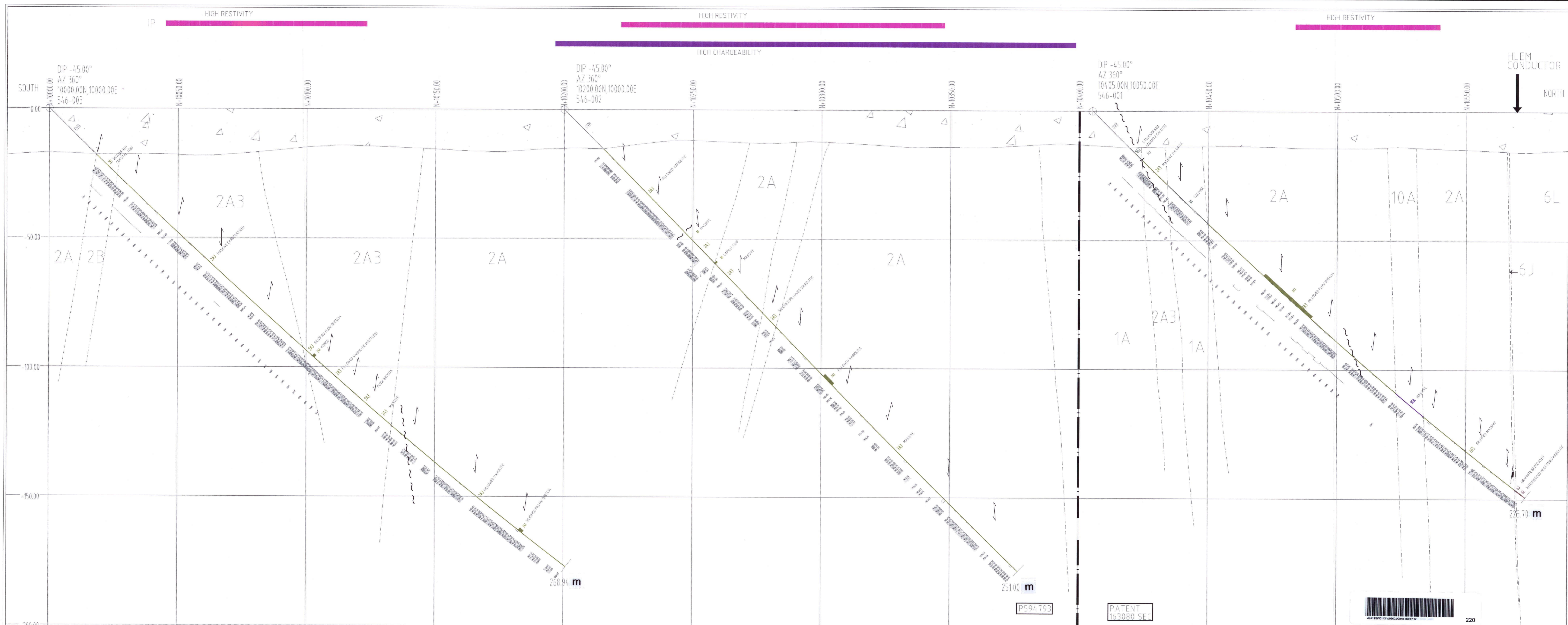
ORIGINAL COMPILATION JULY 1994
REVISED
G-3976

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 FURTHER INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

MOUNTJOY TWP.

WHITNEY TWP.

DELORO TWP.



LITHOLOGY

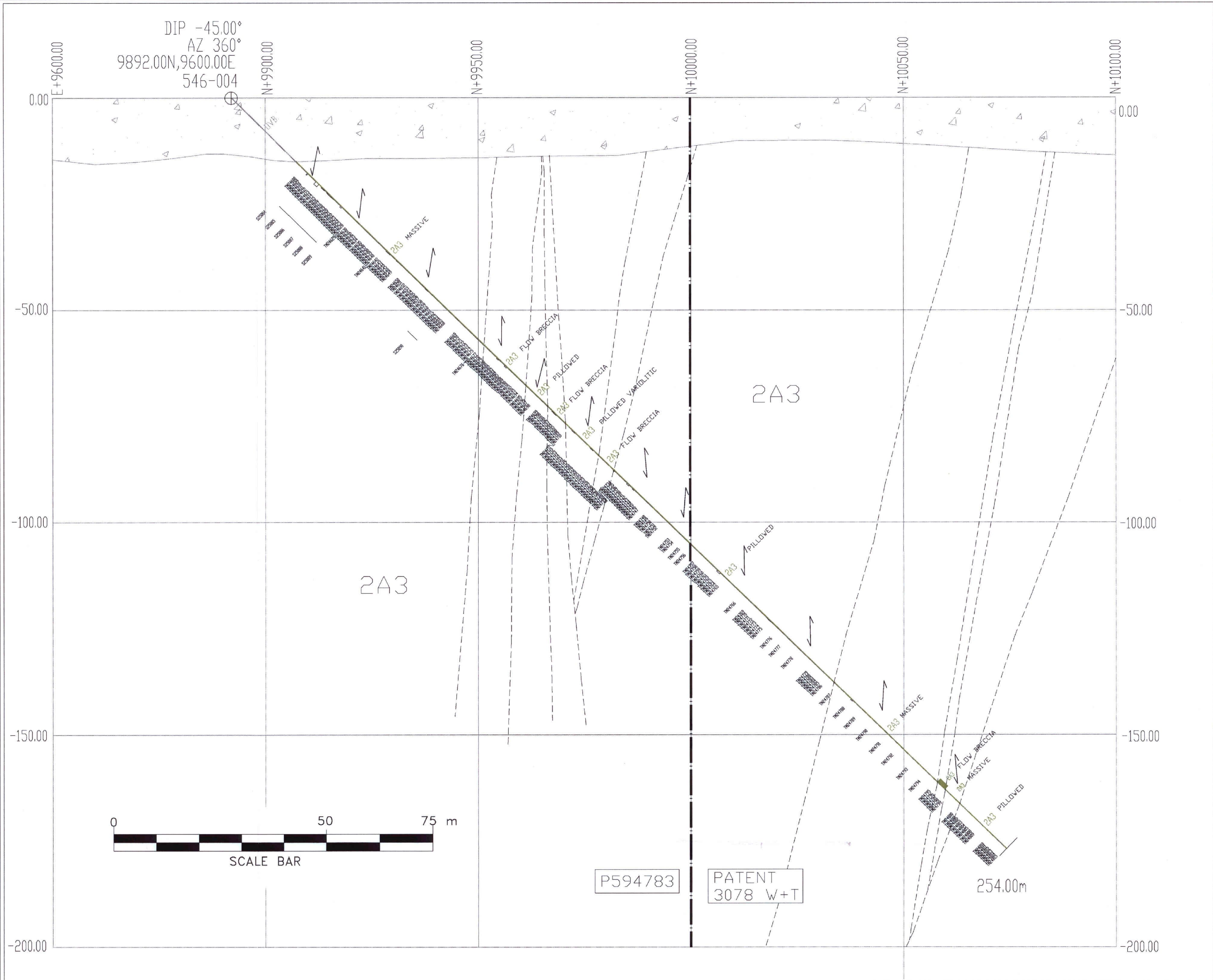
M*	Ultramafic Volcanics
2A	Mafic Flows
2A1	Iron Tuffs
2B	Mafic Pyroclastics
2A3	Magnetite Basalts
S*	Sediments
10A	Gabbro
10B	Diorite
10C	Felsic Intrusives
DIB	Overburden

PLACER DOME CANADA LIMITED.

PROJECT NO. 546 TIMMINS, ONTARIO

SECTION 10,000E
DDH 546-001, 546-002, 546-003
LOOKING WEST

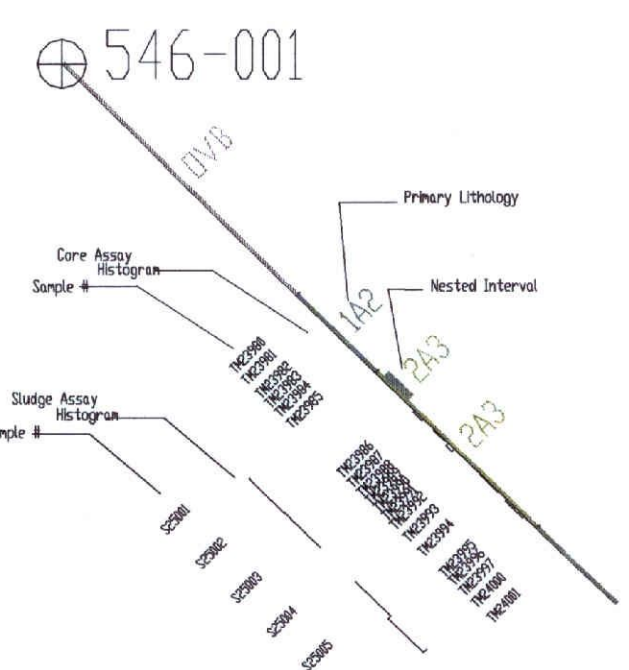
DATE: 12\96 ORIG. BY: K.FARRELL
SCALE: 1:500 NTS. REF. 42A/06 DRAWN BY: CBG,WC DWG. NO. Section 1



LEGEND

- LITHOLOGY
- 1A* Ultramafic Volcanics
 - 2A Mafic Flows
 - 2A1 Iron Tholeiites
 - 2B Mafic Pyroclastics
 - 2A3 Magnesium Basalts
 - 6* Sediments
 - 10A Gabbro
 - 10B Diorite
 - 12B Felsic Intrusives
 - DVB Overburden
 - BLD Boulder
 - QZVN Quartz Vein
 - FLT Fault

- ~ Fault
- ↗ Foliation
- ▬ Bedding Showing Top Direction
- - - Geological Contact
- ▬ Claim Boundary
- P594793 Claim Number

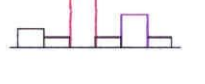


Gold Assay Values

0.0000 - 0.3200
Background < mean + 1 standard deviation (S.D.)

0.3200 - 0.6200
Threshold mean + 1 S.D. to mean + 2 S.D.

0.6200 - 50.0000
Anomalous > mean + 2 S.D.



230

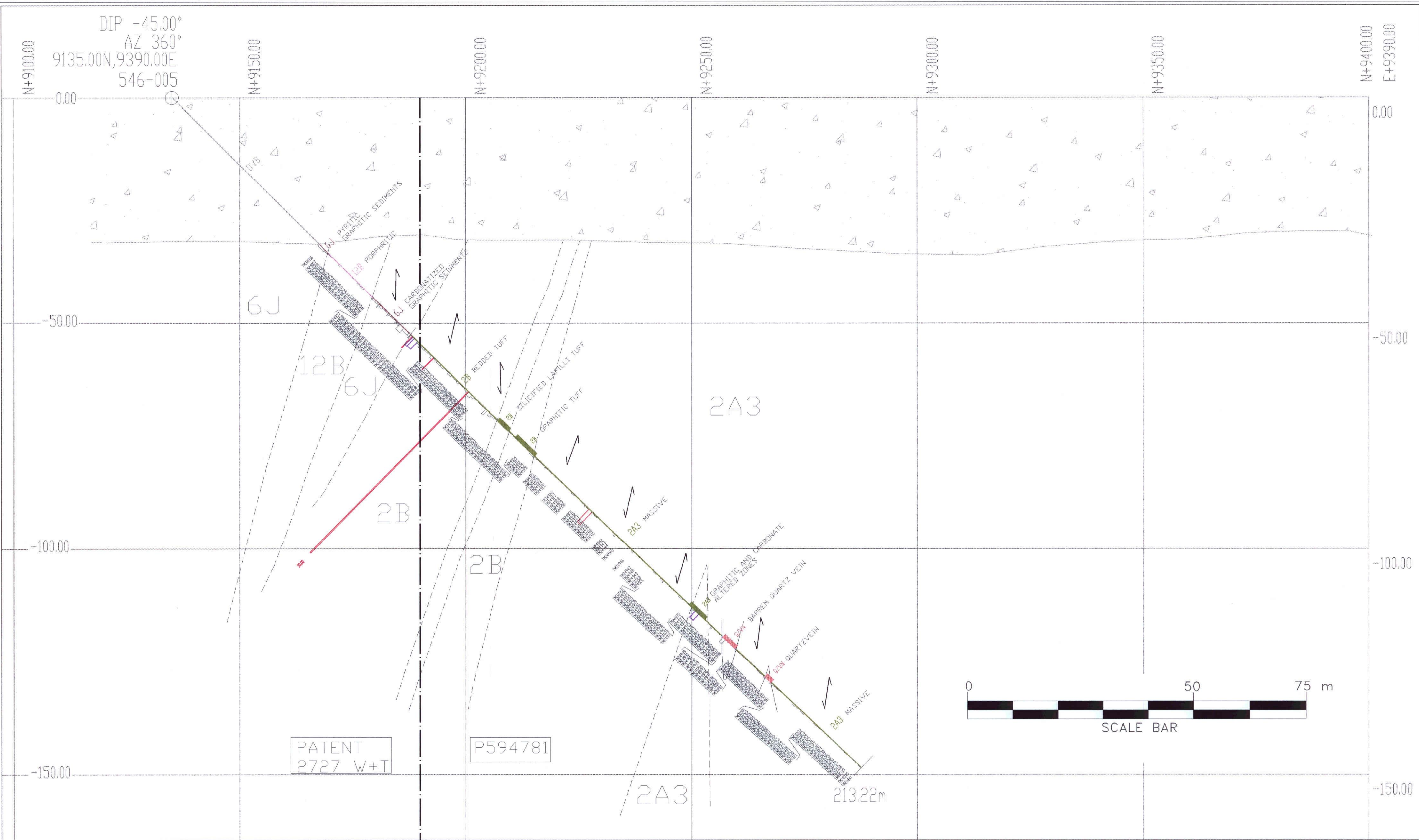
PLACER DOME CANADA LIMITED.

PROJECT NO. 546 TIMMINS, ONTARIO

SECTION 9600E
DDH 546-004
LOOKING WEST

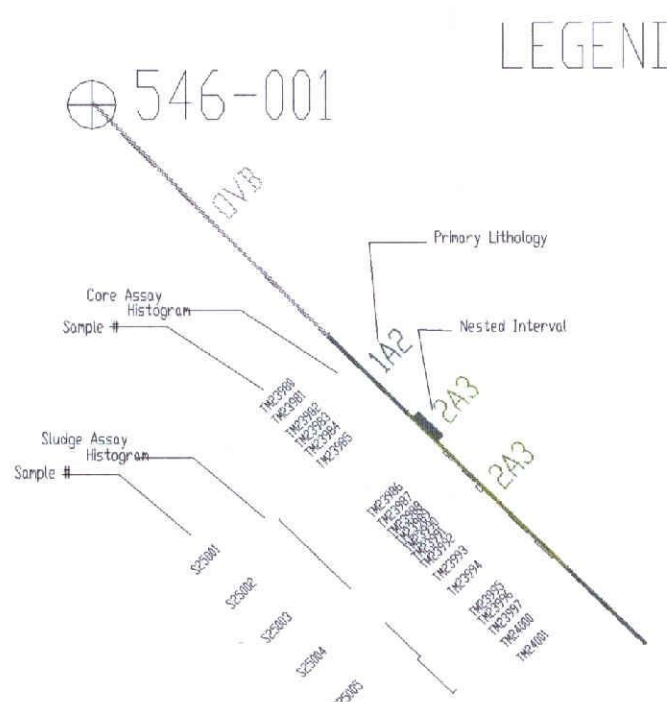
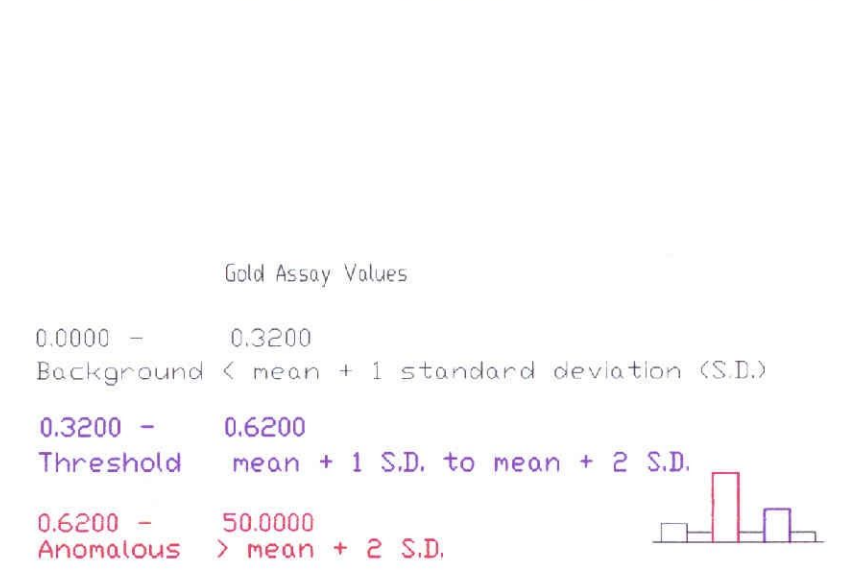
DATE: 12/96 ORG BY: K.FARRELL
SCALE: 1:500 DRAWN BY: C.B.W. NTS REF: 42A/06

DWG. NO. **Section 2**



PATENT 2727 W+T

P594781



LEGEND

- LITHOLOGY
- 1A* Ultramafic Volcanics
 - 2A Mafic Flows
 - 2A1 Iron Tholeiites
 - 2B Mafic Pyroclastics
 - 2A3 Magnesium Basalts
 - 6* Sediments
 - 10A Gabbro
 - 10B Diorite
 - 12B Felsic Intrusives
 - DVB Overburden
 - QZVN Quartz Vein
- ~ Fault
 - ~ Foliation
 - Bedding Showing Top Direction
 - - - Geological Contact
 - - - Claim Boundary
 - P594793 Claim Number

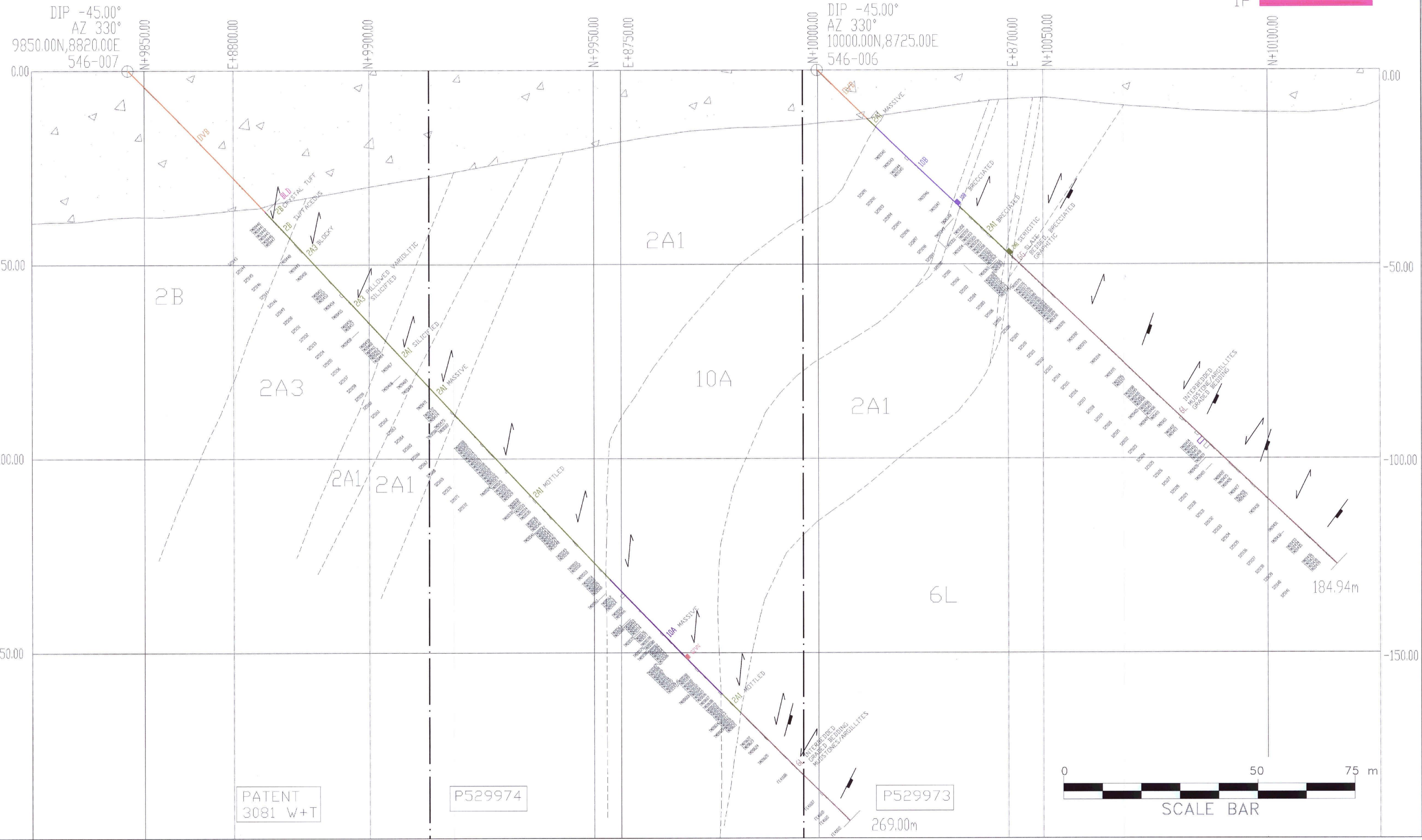


2 240

PLACER DOME CANADA LIMITED.
 PROJECT NO. 546 TIMMINS, ONTARIO

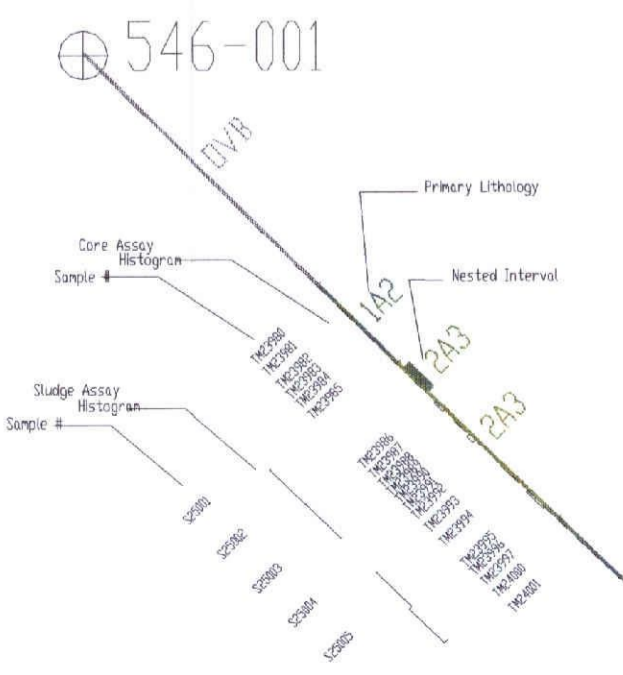
SECTION 9390E
 DDH 546-005
 LOOKING WEST

DATE: 12/96 ORG. BY: K. FARRELL DWG. NO. 42A11SW0143
 DRAWN BY: CFC/JFC
 SCALE: 1:500 NTS REF. 42A/06 **Section 3**



LEGEND

- LITHOLOGY
- 1A* Ultramafic Volcanics
 - 2A Mafic Flows
 - 2A1 Iron Tholeiites
 - 2B Mafic Pyroclastics
 - 2A3 Magnesium Basalts
 - 6* Sediments
 - 10A Gabbro
 - 10B Diorite
 - 12B Felsic Intrusives
 - DVB Overburden
 - BLD Boulder
 - QZVN Quartz Vein
- Fault
 - Foliation
 - Bedding Showing Top Direction
 - Geological Contact
 - Claim Boundary
 - Claim Number

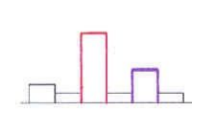


Gold Assay Values

0.0000 - 0.3200
Background < mean + 1 standard deviation (S.D.)

0.3200 - 0.6200
Threshold mean + 1 S.D. to mean + 2 S.D.

0.6200 - 50.0000
Anomalous > mean + 2 S.D.



250

PLACER DOME CANADA LIMITED.

PROJECT NO. 546 TIMMINS, ONTARIO

SECTION AT 330° AZIMUTH
DDH 546-006, 546-007
LOOKING SOUTHWEST

DATE: 12/96 ORG. BY: K.FARRELL DWG. NO.
SCALE: 1:500 DRAWN BY: CRG/ac NTS REF: 42A/06 Section 4