

From	To	Geological Description
		58.90 60.00 TM33843
58.94	63.83	CHLORITIC GREENSTONE with >50% chlorite alteration; +/- talc & biotite bands . A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 60.00 60.55 TM33844 60.55 60.95 TM33845 60.95 62.00 TM33846 62.00 63.35 TM33847 63.35 64.00 TM33849
63.83	65.06	INTERMEDIATE DYKE(PURPLISH/BROWN) . This unit is fine grained , foliated A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 64.00 65.00 TM33850 65.00 66.00 TM33851
65.06	74.05	SERICITICALLY ALTERED(+10%) FELSIC DYKE . This unit is foliated A total of .5 % quartz veins occur in this unit. trace% pyrite occurs as vein associated . 66.00 67.00 TM33852 67.00 67.80 TM33853 67.80 68.20 TM33854 68.20 68.85 TM33855 68.85 70.30 TM33856 70.30 71.20 TM33857 71.20 72.55 TM33858 71.20 72.55 TM33859 DUPLICATE 72.55 73.00 TM33861 73.00 74.00 TM33862 74.00 75.00 TM33863
74.05	78.52	PILLOWED MAFIC FLOW . This unit is pillowed , foliated and variolitic . A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 75.00 76.00 TM33864 76.00 77.15 TM33865 77.15 77.42 TM33866 77.42 78.00 TM33867 78.00 78.60 TM33868
78.52	79.07	SERICITICALLY ALTERED(+10%) FELSIC DYKE . This unit is foliated A total of .5 % quartz veins occur in this unit. 78.60 79.00 TM33869 79.00 80.00 TM33870
79.07	94.31	PILLOWED MAFIC FLOW . A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 80.00 81.00 TM33871 81.00 82.00 TM33872 82.00 83.00 TM33873 83.00 84.00 TM33874 84.00 85.00 TM33876 85.00 86.10 TM33877 86.10 87.00 TM33878

From	To	Geological Description
		<p>86.10 87.00 TM33879 DUPLICATE 87.00 87.95 TM33881 87.95 89.00 TM33882 89.00 90.00 TM33883 90.00 91.05 TM33884 91.05 92.00 TM33885 92.00 93.00 TM33886 93.00 94.35 TM33887</p>
94.31	95.25	<p>FELSIC DYKE(BROWN) . This unit is foliated trace% pyrrhotite occurs as disseminations & scattered crystals . trace% pyrite occurs as disseminations & scattered crystals . 94.35 95.20 TM33888 95.20 96.10 TM33889</p>
95.25	99.18	<p>PILLOWED MAFIC FLOW . A total of 2 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 96.10 97.00 TM33890 97.00 98.00 TM33891 98.00 99.20 TM33892</p>
99.18	101.00	<p>SERICITICALLY ALTERED(+10%) FELSIC DYKE . This unit is foliated , mottled appearance 99.20 100.00 TM33893 100.00 101.00 TM33894</p>
101.00	103.66	<p>WEAKLY POTASSIC PILLOW FLOW(1-5% potassic alteration) . This unit is foliated , pillowed trace% pyrrhotite occurs as disseminations & scattered crystals . trace% pyrite occurs as disseminations & scattered crystals . 101.00 102.00 TM33895 102.00 103.00 TM33896 103.00 103.70 TM33898 103.00 103.70 TM33899 DUPLICATE</p>
103.66	105.93	<p>INTERMEDIATE DYKE(PURPLISH/BROWN) . This unit is fine grained , foliated A total of .5 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 103.70 105.00 TM33901 105.00 106.00 TM33902</p>
105.93	118.77	<p>PILLOWED MAFIC FLOW . A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 106.00 107.00 TM33903 107.00 108.00 TM33904 108.00 109.00 TM33905 109.00 109.90 TM33907 109.90 111.00 TM33908 111.00 112.00 TM33909 112.00 113.00 TM33910 113.00 114.00 TM33911 114.00 115.30 TM33912 115.30 116.10 TM33913 116.10 117.00 TM33914 117.00 117.90 TM33915 117.90 118.37 TM33916</p>

From	To	Geological Description
118.77		** END OF HOLE **

Handwritten signature



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

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

Page Number : 1
 Total Pages : 1
 Certificate Date: 24-SEP-96
 Invoice No. : 19631686
 P.O. Number : 464E
 Account : MOE

Project : DETOUR LAKE MINES
 Comments: ATTN: LORNE WARNER

CERTIFICATE OF ANALYSIS

A9631686

SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
464-117-TM33801	208 226	0.020	-----										
464-117-TM33802	208 226	0.015	-----										
464-117-TM33803	208 226	0.020	-----										
464-117-TM33804	208 226	0.005	-----										
464-117-TM33805	208 226	0.010	-----										
464-117-TM33806	208 226	0.160	-----										
464-117-TM33807	208 226	0.015	-----										
464-117-TM33808	208 226	0.045	-----										
464-117-TM33809	208 226	0.075	-----										
464-117-TM33810	208 226	0.200	-----										
464-117-TM33811	208 226	0.020	-----										
464-117-TM33812	208 226	0.100	-----										
464-117-TM33813	208 226	0.020	-----										
464-117-TM33814	208 226	0.080	-----										
464-117-TM33815	208 226	0.025	-----										
464-117-TM33816	208 226	0.015	-----										
464-117-TM33817	208 226	0.065	-----										
464-117-TM33818	208 226	0.050	-----										
464-117-TM33819	208 226	0.035	-----										
464-117-TM33820	214 --	< 0.005	-----										
D464-117-TM33801	214 --	-----	0.025										
100560	214 --	-----	2.480										
100000	214 --	-----	< 0.005										

CHEMEX LABS

03/05/97 WED 10:19 FAX 604 984 0218

CERTIFICATION *Adriana Alexandra*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

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 DETOUR LAKE MINE PROJECT
 823 BIRCH ST. S., P.O. BOX 980
 TIMMINS, ON
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CERTIFICATE OF ANALYSIS	A9631687
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SAMPLE	PREP CODE	Au g/t FA+AA	Au check							
464-117-TM33821	208 226	0.005	-----							
464-117-TM33822	214 --	2.63	-----							
464-117-TM33823	208 226	0.040	-----							

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03/05/97 WED 10:19 FAX 604 984 0218

CERTIFICATE OF *Adriana Alexander*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

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

Project: DETOUR LAKE MINES
 Comments: ATTN: LORNE WARNER

Page Number : 1
 Total Pages : 1
 Certificate Date: 24-SEP-96
 Invoice No. : 19631689
 P.O. Number : 464E
 Account : MOE

CERTIFICATE OF ANALYSIS A9631689

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
464-117-TM33881	208 226	0.035	-----								
464-117-TM33882	208 226	0.030	-----								
464-117-TM33883	208 226	0.035	-----								
464-117-TM33884	208 226	0.075	-----								
464-117-TM33885	208 226	0.100	-----								
464-117-TM33886	208 226	1.380	1.370								
464-117-TM33887	208 226	0.025	-----								
464-117-TM33888	208 226	0.055	-----								
464-117-TM33889	208 226	0.020	-----								
464-117-TM33890	208 226	0.005	-----								
464-117-TM33891	208 226	0.015	-----								
464-117-TM33892	208 226	0.030	-----								
464-117-TM33893	208 226	0.015	-----								
464-117-TM33894	208 226	0.040	-----								
464-117-TM33895	208 226	0.060	-----								
464-117-TM33896	208 226	0.070	-----								
464-117-TM33897	214 --	2.98	3.020								
464-117-TM33898	208 226	0.070	-----								
464-117-TM33899	208 226	0.030	-----								
464-117-TM33900	214 --	< 0.005	-----								
D464-117-TM33881	214 --	-----	0.040								
100560	214 --	-----	2.480								
100000	214 --	-----	< 0.005								

CERTIFICATE *Adriana Slexand*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

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

Project : DETOUR LAKE MINES
 Comments: ATTN: LORNE WARNER

Page Number : 1
 Total Pages : 1
 Certificate Date: 24-SEP-96
 Invoice No. : J9631690
 P.O. Number : 464E
 Account : MOE

CERTIFICATE OF ANALYSIS

A9631690

SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
464-117-TM33901	208 226	0.010	-----										
464-117-TM33902	208 226	0.070	-----										
464-117-TM33903	208 226	0.030	-----										
464-117-TM33904	208 226	0.090	-----										
464-117-TM33905	208 226	0.025	-----										
464-117-TM33906	214 --	3.02	2.950										
464-117-TM33907	208 226	0.040	-----										
464-117-TM33908	208 226	0.050	-----										
464-117-TM33909	208 226	0.040	-----										
464-117-TM33910	208 226	0.075	-----										
464-117-TM33911	208 226	0.140	-----										
464-117-TM33912	208 226	0.040	-----										
464-117-TM33913	208 226	0.025	-----										
464-117-TM33914	208 226	0.375	-----										
464-117-TM33915	208 226	0.030	-----										
464-117-TM33916	208 226	0.040	-----										
D464-117-TM33901	214 --	-----	0.010										
CANMET	214 --	-----	2.260										
100000	214 --	-----	< 0.005										

CERTIFICATE BY *Heliana Flexano*

CHEMEX LABS

03/05/97 WED 10:20 FAX 604 984 0218



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

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

Project : DETOUR LAKE - MET
Comments: ATN: Lorne Warner

Page Number : 1
Total Pages : 1
Certificate Date: 13-SEP-96
Invoice No. : 19631035
P.O. Number :
Account : MOE

CERTIFICATE OF ANALYSIS

A9631035

SAMPLE	PREP CODE	Au tot g/t	Au - g/t	Au + mg	Wt. - grams	Wt. + grams	Au g/t	Au check			
464-117-TM33824	230 294	0.36	0.35	0.024	1958	27.07	0.35	0.340			
464-117-TM33825	230 294	3.23	2.70	1.109	1900	34.20	2.58	2.820			
464-117-TM33826	230 294	0.57	0.57	0.024	1435	50.47	0.52	0.620			
464-117-TM33827	230 294	0.54	0.53	0.031	1691	17.20	0.58	0.480			
464-117-TM33828	230 294	0.33	0.33	0.011	2217	26.14	0.41	0.240			
464-117-TM33829	230 294	0.09	0.09	0.003	977	14.84	0.10	0.080			
464-117-TM33830	230 294	0.07	0.07	< 0.002	1882	29.37	0.08	0.060			
464-117-TM33831	230 294	0.10	0.08	0.030	1436	29.43	0.08	0.080			
464-117-TM33832	230 294	0.29	0.29	0.005	2052	30.45	0.32	0.260			
464-117-TM33833	230 294	0.60	0.57	0.072	1752	29.46	0.60	0.530			
464-117-TM33834	230 294	0.08	0.08	< 0.002	2134	29.53	0.09	0.060			
464-117-TM33835	230 294	0.40	0.40	0.005	1969	26.66	0.43	0.360			
464-117-TM33836	230 294	0.46	0.46	0.007	1563	28.37	0.45	0.460			
464-117-TM33837	230 294	0.21	0.21	< 0.002	2066	28.63	0.20	0.210			
464-117-TM33838	230 294	0.47	0.47	< 0.002	2719	21.91	0.45	0.480			
464-117-TM33841	230 294	< 0.07	< 0.07	< 0.003	1492	18.84	0.04	0.060			
464-117-TM33842	230 294	< 0.07	< 0.07	< 0.002	1525	29.60	0.05	0.060			
464-117-TM33843	230 294	0.18	0.18	0.010	2241	32.58	0.18	0.180			
464-117-TM33844	230 294	< 0.07	< 0.07	< 0.002	1145	34.36	0.06	0.060			
464-117-TM33845	230 294	0.10	0.11	< 0.002	712	41.84	0.10	0.110			
464-117-TM33846	230 294	0.32	0.32	< 0.002	2051	23.97	0.31	0.320			
464-117-TM33847	230 294	0.45	0.45	< 0.002	2726	26.15	0.45	0.440			
464-117-TM33849	230 294	< 0.07	< 0.07	< 0.002	1311	17.40	0.04	0.050			
464-117-TM33850	230 294	< 0.07	< 0.07	< 0.002	2094	30.04	< 0.03	0.040			
464-117-TM33851	230 294	< 0.07	< 0.07	< 0.002	2055	18.47	0.05	0.050			
464-117-TM33852	230 294	< 0.09	< 0.09	< 0.007	1737	18.95	0.09	0.090			
464-117-TM33853	230 294	< 0.07	< 0.07	< 0.002	1316	20.55	< 0.03	< 0.030			
464-117-TM33854	230 294	< 0.07	< 0.07	< 0.002	1107	26.64	< 0.03	0.040			
464-117-TM33855	230 294	< 0.07	< 0.07	< 0.002	1255	33.98	0.05	< 0.030			
464-117-TM33856	230 294	< 0.07	< 0.07	< 0.002	2050	12.37	0.03	0.050			
464-117-TM33857	230 294	< 0.07	< 0.07	< 0.002	654	11.65	< 0.03	0.040			
464-117-TM33858	230 294	0.27	0.27	0.012	2134	30.06	0.34	0.200			
464-117-TM33861	230 294	0.39	0.39	0.004	850	20.62	0.39	0.380			

CERTIFICATION

Adriana Alexandre

*** DETOUR LAKE MINEX ***
 PLACER DOME CANADA LIMITED

Drill Hole: 464-118

Date: 1st Mar, 1997
 Northing : 20550.00
 Easting : 16820.00
 Elevation : 6280.00
 Hole Depth : 190.70mt

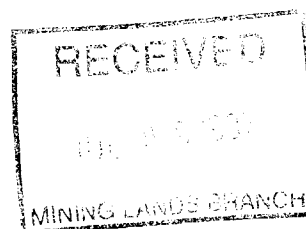
Project ID : 464
 Core Size : NQ
 Date Logged : 09SEP96
 Logged By : YEB
 Assisted by :

MINING CLAIM: CLM 231
 SURVEYED: NO
 DATE LOGGING STARTED: SEPTEMBER 9, 1996
 DATE LOGGING ENDED: SEPTEMBER 13, 1996
 LOGGED BY: YVONNE BLOOM AND PAUL TURNBULL
 GEOTECHNICIAN: GRAEME LILLIE
 PURPOSE: TEST SHALLOW M-ZONE
 DRILLING STARTED: AUGUST 26, 1996
 DRILLING ENDED: AUGUST 27, 1996
 DRILL CONTRACTOR: BRADLEY BROTHERS DRILLING LIMITED
 DEPTH TO BEDROCK: 7.22M
 CORE STORAGE: DETOUR LAKE MINE
 ROUTINE FIRE ASSAY SAMPLES: TM33726-730, TM33791-TM33800, TM33941-TM34093
 ROUTINE FIRE ASSAY SAMPLES: TM33731-750 AND TM33801-TM33940 NOT USED
 METALLIC SAMPLES: TM33751-TM33790

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	180.00	-55.00
	16.00	178.00 -55.00
	190.00	194.00 -52.50

Grid Azimuth: 0.00
 Coord System:



Drillers : BRDL
 Drill date : AUG96
 Rig Type :
 Drill Time :
 Print Template :
 Gran Version : 4.2.3

From	To	Geological Description
0.00	7.22	OVERBURDEN . 0.00 0.00 TM33960 QUALITY CONTROL BLANK 0.00 0.00 TM33972 QUALITY CONTROL STANDARD 0.00 0.00 TM33981 QUALITY CONTROL BLANK 0.00 0.00 TM33987 QUALITY CONTROL STANDARD 0.00 0.00 TM34000 QUALITY CONTROL BLANK 0.00 0.00 TM34007 QUALITY CONTROL STANDARD 0.00 0.00 TM34020 QUALITY CONTROL BLANK 0.00 0.00 TM34040 QUALITY CONTROL BLANK 0.00 0.00 TM34048 QUALITY CONTROL STANDARD 0.00 0.00 TM34060 QUALITY CONTROL BLANK 0.00 0.00 TM34067 QUALITY CONTROL STANDARD 0.00 0.00 TM34080 QUALITY CONTROL BLANK 0.00 0.00 TM34091 QUALITY CONTROL STANDARD
7.22	11.42	PILLOWED MAFIC FLOW . This unit is pillowed , foliated A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated .

From	To	Geological Description
		<p>7.22 7.90 TM33941 7.90 9.00 TM33942 9.00 10.00 TM33943 10.00 11.00 TM33944 11.00 11.45 TM33945</p>
11.42	12.67	<p>INTERMEDIATE DYKE(PURPLISH/BROWN) . This unit is foliated , porphyritic A total of .5 % quartz veins occur in this unit. trace% pyrrhotite occurs as disseminations & scattered crystals .</p> <p>11.45 12.00 TM33946 12.00 12.65 TM33947 12.65 13.55 TM33948</p>
12.67	13.53	WEAKLY POTASSIC PILLOW FLOW(1-5% potassic alteration) . This unit is pillowed trace% pyrrhotite occurs as wisps .
13.53	14.15	<p>INTERMEDIATE DYKE(PURPLISH/BROWN) . This unit is fine grained , foliated and porphyritic . A total of .5 % quartz veins occur in this unit. 0.3-0.5% pyrrhotite occurs as wisps . trace% pyrite occurs as vein associated .</p> <p>13.55 14.10 TM33949 14.10 15.30 TM33950</p>
14.15	15.30	WEAKLY POTASSIC PILLOW FLOW(1-5% potassic alteration) . This unit is amygdaloidal A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated .
15.30	18.75	<p>INTERMEDIATE DYKE(PURPLISH/BROWN) . This unit is fine grained , foliated 0.5-2% pyrrhotite occurs as wisps .</p> <p>15.30 16.00 TM33951 16.00 17.30 TM33952 17.30 17.75 TM33953 17.75 18.70 TM33954 18.70 20.00 TM33955</p>
18.75	21.31	<p>POTASSICALLY ALTERED PILLOWED FLOW(+5%pervasive potassic alteration) . This unit is pillowed , amygdaloidal and variolitic . A total of .5 % quartz veins occur in this unit. trace% pyrrhotite occurs as wisps . trace% pyrite occurs as disseminations & scattered crystals .</p> <p>20.00 21.35 TM33956</p>
21.31	22.14	<p>INTERMEDIATE DYKE(PURPLISH/BROWN) . This unit is fine grained , foliated A total of .5 % quartz veins occur in this unit. trace% pyrrhotite occurs as disseminations & scattered crystals .</p> <p>21.35 22.10 TM33957 22.10 23.00 TM33958 22.10 23.00 TM33959 DUPLICATE</p>
22.14	22.72	POTASSICALLY ALTERED PILLOWED FLOW(+5%pervasive potassic alteration) .
22.72	25.45	<p>WEAKLY POTASSIC PILLOW FLOW(1-5% potassic alteration) . trace% pyrrhotite occurs as wisps .</p> <p>23.00 24.00 TM33961 24.00 25.00 TM33962 25.00 25.50 TM33963</p>
25.45	26.23	INTERMEDIATE DYKE(PURPLISH/BROWN) . This unit is fine grained , foliated 0.5-2% pyrrhotite occurs as disseminations & scattered crystals . trace% pyrite occurs as disseminations & scattered crystals .

From	To	Geological Description
		25.50 26.20 TM33964 26.20 27.00 TM33965
26.23	27.96	WEAKLY POTASSIC PILLOW FLOW(1-5% potassic alteration) . 0.5-2% pyrrhotite occurs as wisps . 27.00 28.00 TM33966
27.96	28.90	MAFIC DYKE with chloritic phenocrysts . This unit is porphyritic , foliated A total of .5 % quartz veins occur in this unit. 0.5-2% pyrrhotite occurs as disseminations & scattered crystals . trace% pyrite occurs as vein associated . 28.00 28.90 TM33967
28.90	34.51	WEAKLY POTASSIC PILLOW FLOW(1-5% potassic alteration) . A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 28.90 30.00 TM33968 30.00 31.00 TM33969 31.00 32.00 TM33970 32.00 33.00 TM33971 33.00 34.00 TM33973 34.00 34.60 TM33974
34.51	35.19	FELSIC DYKE(BROWN) . A total of .5 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 34.60 35.15 TM33975 35.15 36.00 TM33976
35.19	41.10	POTASSICALLY ALTERED PILLOWED FLOW(+5%pervasive potassic alteration) . A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 36.00 37.00 TM33977 37.00 38.00 TM33978 38.00 39.00 TM33979 38.00 39.00 TM33980 DUPLICATE 39.00 40.00 TM33982 40.00 41.15 TM33983
41.10	43.18	INTERMEDIATE DYKE with chloritic or biotitic phenocrysts . This unit is fine grained , foliated A total of 1 % quartz veins occur in this unit. present% pyrrhotite occurs as vein associated . present% pyrite occurs as vein associated . 41.15 42.40 TM33984 42.40 43.40 TM33985
43.18	55.98	WEAKLY POTASSIC PILLOW FLOW(1-5% potassic alteration) . A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . trace% chalcopyrite occurs as vein associated . 43.40 44.10 TM33986 44.10 45.00 TM33988 45.00 46.00 TM33989 46.00 47.00 TM33990 47.00 48.00 TM33991 48.00 49.00 TM33992 49.00 50.00 TM33993 50.00 51.00 TM33994 51.00 52.00 TM33995

From	To	Geological Description
		<p>52.00 53.00 TM33996 53.00 54.00 TM33997 54.00 55.00 TM33998 54.00 55.00 TM33999 DUPLICATE 55.00 56.00 TM34001</p>
55.98	58.39	<p>FELSIC DYKE(BROWN) . This unit is foliated , porphyritic 56.00 56.60 TM34002 56.60 57.60 TM34003 57.60 58.50 TM34004</p>
58.39	60.23	<p>INTERMEDIATE DYKE(PURPLISH/BROWN) . This unit is fine grained , foliated trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 58.50 58.95 TM34005 58.95 59.25 TM34006 59.25 59.75 TM34008 59.75 60.20 TM34009 60.20 61.00 TM34010</p>
60.23	68.88	<p>POTASSICALLY ALTERED PILLOWED FLOW(+5%pervasive potassic alteration) . A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as disseminations & scattered crystals . trace% chalcopyrite occurs as vein associated . 61.00 62.00 TM34011 62.00 63.00 TM34012 63.00 64.00 TM34013 64.00 65.00 TM34014 65.00 66.00 TM34015 66.00 67.00 TM34016 67.00 68.00 TM34017 68.00 69.20 TM34018 68.00 69.20 TM34019 DUPLICATE</p>
68.88	69.25	<p>INTERMEDIATE DYKE(PURPLISH/BROWN) . This unit is fine grained , foliated 0.3-0.5% pyrrhotite occurs as disseminations & scattered crystals . trace% pyrite occurs as disseminations & scattered crystals . 69.20 70.35 TM34021</p>
69.25	70.32	<p>GABBRO INTRUSIVE (medium to coarse grained) . This unit is medium grained , graded bedding and foliated . trace% pyrite occurs as vein associated .</p>
70.32	70.93	<p>INTERMEDIATE DYKE(PURPLISH/BROWN) . present% pyrite occurs as disseminations & scattered crystals . 70.35 70.95 TM34022</p>
70.93	74.61	<p>MASSIVE MAFIC FLOW(<1%biotite) . This unit is graded bedding , medium grained and foliated . A total of 1 % quartz veins occur in this unit. 70.95 72.00 TM34023 72.00 72.95 TM34024 72.00 72.95 TM34025 QUALITY CONTROL STANDARD 72.95 74.00 TM34026 74.00 74.70 TM34027</p>
74.61	75.43	<p>INTERMEDIATE DYKE(PURPLISH/BROWN) . A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated .</p>

From	To	Geological Description
		74.70 75.40 TM34028 75.40 76.00 TM34029
75.43	82.10	MASSIVE MAFIC FLOW(<1%biotite) . A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 76.00 77.00 TM34030 77.00 78.00 TM34031 78.00 79.00 TM34032 79.00 80.00 TM34033 80.00 81.00 TM34034 81.00 82.00 TM34035 82.00 83.15 TM34036
82.10	86.74	POTASSICALLY ALTERED PILLOWED FLOW(+5%pervasive potassic alteration) . This unit is pillowed , foliated A total of 1 % quartz veins occur in this unit. 0.5-2% pyrrhotite occurs as disseminations & scattered crystals . 83.15 84.35 TM34037 84.35 85.00 TM34038 84.35 85.00 TM34039 DUPLICATE 85.00 86.00 TM34041 86.00 86.70 TM34042 86.70 88.00 TM34043
86.74	89.85	MASSIVE MAFIC FLOW(<1%biotite) . A total of .5 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 88.00 89.00 TM34044 89.00 89.90 TM34045
89.85	90.80	INTERMEDIATE DYKE(PURPLISH/BROWN) . trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 89.90 90.75 TM34046 90.75 91.95 TM34047
90.80	91.85	MASSIVE MAFIC FLOW(<1%biotite) . A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . trace% chalcopyrite occurs as vein associated .
91.85	93.40	INTERMEDIATE DYKE(PURPLISH/BROWN) . A total of .5 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 91.95 93.35 TM34049 93.35 94.00 TM34050
93.40	95.39	MASSIVE MAFIC FLOW(<1%biotite) . A total of 1 % quartz veins occur in this unit. 94.00 95.00 TM34051 95.00 96.00 TM34052
95.39	97.80	GABBRO INTRUSIVE (medium to coarse grained) . This unit is medium grained , foliated A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 96.00 97.00 TM34053 97.00 98.00 TM34054
97.80	102.80	MASSIVE MAFIC FLOW(<1%biotite) . A total of 1 % quartz veins occur in this unit. 98.00 99.05 TM34055

From	To	Geological Description
		99.05 100.00 TM34056 100.00 101.00 TM34057 101.00 102.00 TM34058 101.00 102.00 TM34059 DUPLICATE 102.00 102.95 TM34061
102.80	103.50	INTERMEDIATE DYKE(PURPLISH/BROWN) . 102.95 103.50 TM34062
103.50	115.18	GABBRO INTRUSIVE (medium to coarse grained) . This unit is medium grained , foliated A total of 1 % quartz veins occur in this unit. 103.50 105.00 TM34063 105.00 106.00 TM34064 106.00 107.45 TM34065 107.45 108.10 TM34066 108.10 109.00 TM34068 109.00 110.00 TM34069 110.00 111.00 TM34070 111.00 112.00 TM34071 112.00 113.00 TM34072 113.00 114.00 TM34073 114.00 115.00 TM34074 115.00 116.00 TM34075
115.18	119.09	MASSIVE MAFIC FLOW(<1%biotite) . This unit is fine grained , foliated A total of .5 % quartz veins occur in this unit. 116.00 117.00 TM34076 117.00 118.05 TM34077 118.05 118.45 TM34078 118.05 118.45 TM34079 DUPLICATE 118.45 119.15 TM34081
119.09	120.07	FELSIC DYKE(BROWN) . This unit is mottled appearance , foliated 0.3-0.5% pyrite occurs as disseminations & scattered crystals . 119.15 120.00 TM34082 120.00 121.00 TM34083
120.07	123.17	MASSIVE MAFIC FLOW(<1%biotite) . A total of .5 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 121.00 122.00 TM34084 122.00 123.20 TM34085
123.17	124.07	INTERMEDIATE DYKE(PURPLISH/BROWN) . 123.20 124.00 TM34086 124.00 124.50 TM34087
124.07	125.38	MASSIVE MAFIC FLOW(<1%biotite) . trace% pyrrhotite occurs as disseminations & scattered crystals . 124.50 125.40 TM34088
125.38	126.45	INTERMEDIATE DYKE with chloritic or biotitic phenocrysts . This unit is fine grained , foliated A total of 1 % quartz veins occur in this unit. trace% pyrite occurs as disseminations & scattered crystals . 125.40 126.35 TM34089

From	To	Geological Description
		126.35 127.00 TM34090
126.45	134.84	WEAKLY POTASSIC PILLOW FLOW(1-5% potassic alteration) . This unit is amygdaloidal , pillowed and foliated . A total of 1 % quartz veins occur in this unit. 0.5-2% pyrrhotite occurs as vein associated . 0.5-2% pyrite occurs as vein associated . 3 specks of VISIBLE GOLD hosted by quartz vein(s). 127.00 128.00 TM34092 128.00 128.71 TM34093 128.71 130.00 TM33777 130.00 131.00 TM33778 131.00 132.08 TM33779 132.08 133.19 TM33780 133.19 134.20 TM33781 134.20 135.30 TM33782
134.84	135.30	GABBRO INTRUSIVE (medium to coarse grained) .
135.30	136.40	WEAKLY POTASSIC PILLOW FLOW(1-5% potassic alteration) . A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% chalcopyrite occurs as vein associated . 2 specks of VISIBLE GOLD hosted by quartz vein(s). 135.30 136.46 TM33783
136.40	138.95	INTERMEDIATE DYKE(PURPLISH/BROWN) . This unit is fine grained , foliated A total of 1 % quartz veins occur in this unit. 0.5-2% pyrrhotite occurs as disseminations & scattered crystals . 0.5-2% pyrite occurs as disseminations & scattered crystals . 136.46 137.63 TM33784 137.63 138.95 TM33785
138.95	139.75	MASSIVE MAFIC FLOW(<1%biotite) . This unit is amygdaloidal , fine grained and foliated . A total of 1 % quartz veins occur in this unit. trace% pyrrhotite occurs as patches, as in quilts . trace% pyrite occurs as vein associated . 138.95 139.75 TM33786
139.75	140.88	GABBRO INTRUSIVE (medium to coarse grained) . trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . trace% chalcopyrite occurs as vein associated . 139.75 140.88 TM33787
140.88	144.22	MASSIVE MAFIC FLOW(<1%biotite) . trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as disseminations & scattered crystals . trace% chalcopyrite occurs as stringers . 140.88 142.00 TM33788 142.00 143.12 TM33789 143.12 144.24 TM33790
144.22	144.80	MAFIC DYKE(GREENISH) . 144.24 145.69 TM33791
144.80	145.69	PLAGIOCLASE PORPHYRYTIC INTERMEDIATE DYKE . This unit is xenolithic
145.69	146.10	MASSIVE MAFIC FLOW(<1%biotite) . trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 145.69 146.83 TM33792
146.10	146.83	MAFIC DYKE(GREENISH) . trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated .

From	To	Geological Description
146.83	148.81	WEAKLY POTASSIC MAFIC FLOW(1-5% potassic alteration) . This unit is amygdaloidal , pillowed and foliated . 0.5-2% pyrrhotite occurs as vein associated . 0.3-0.5% pyrite occurs as disseminations & scattered crystals . 146.83 147.95 TM33793 147.95 148.81 TM33794
148.81	149.86	GABBRO INTRUSIVE (medium to coarse grained) . This unit is porphyritic 0.3-0.5% pyrite occurs as vein associated . 148.81 149.86 TM33795
149.86	151.50	MASSIVE MAFIC FLOW(<1%biotite) . 149.86 151.15 TM33796 151.15 152.12 TM33797
151.50	152.12	MAFIC DYKE(GREENISH) .
152.12	153.73	WEAKLY POTASSIC MAFIC FLOW(1-5% potassic alteration) . 0.5-2% pyrrhotite occurs as vein associated . 0.5-2% pyrite occurs as vein associated . trace% chalcopyrite occurs as vein associated . 152.12 152.94 TM33798 152.94 153.73 TM33799
153.73	156.55	INTERMEDIATE DYKE(PURPLISH/BROWN) . This unit is fine grained , foliated trace% pyrrhotite occurs as vein associated . 153.73 154.68 TM33800 154.68 156.55 TM33726
156.55	158.70	WEAKLY POTASSIC PILLOW FLOW(1-5% potassic alteration) . A total of 1 % quartz veins occur in this unit. 0.3-0.5% pyrrhotite occurs as vein associated . 156.55 157.61 TM33751 157.61 158.45 TM33752 158.45 159.31 TM33753
158.70	160.16	PLAGIOCLASE PORPHYRITIC FELSIC DYKE(+Kf+/- hem matrix) . 159.31 160.16 TM33754
160.16	160.40	ULTRAMAFIC INTRUSIVE . This unit is fine grained 160.16 161.44 TM33755
160.40	161.44	CHLORITIC GREENSTONE with >50% chlorite alteration; +/- talc & biotite bands .
161.44	164.13	FELSIC DYKE(BROWN) . This unit is porphyritic 0.5-2% magnetite occurs as disseminations & scattered crystals . 161.44 162.88 TM33756 162.88 164.13 TM33757
164.13	165.08	CHLORITIC GREENSTONE with >50% chlorite alteration; +/- talc & biotite bands . A total of V % quartz veins occur in this unit. trace% pyrrhotite trace% pyrite trace% chalcopyrite trace% marcasite N1 specks of VISIBLE GOLD hosted by quartz vein(s). 164.13 165.08 TM33758
165.08	170.12	FELSIC DYKE(BROWN) . 0.3-0.5% pyrite occurs as disseminations & scattered crystals . trace% chalcopyrite occurs as vein associated . trace% magnetite occurs as disseminations & scattered crystals .

From	To	Geological Description
		<p>165.08 166.07 TM33759 166.07 167.00 TM33760 167.00 168.11 TM33761 168.11 169.16 TM33762 169.16 170.12 TM33763</p>
170.12	170.40	<p>CHLORITIC GREENSTONE with >50% chlorite alteration; +/- talc & biotite bands . 170.12 172.15 TM33764</p>
170.40	173.20	<p>FAULT ZONE; +/- CHLORITIC GOUGE . This unit is brecciated 0.3-0.5% pyrite occurs as disseminations & scattered crystals . 172.15 174.00 TM33765</p>
173.20	174.00	<p>CHLORITIC GREENSTONE with >50% chlorite alteration; +/- talc & biotite bands .</p>
174.00	175.87	<p>SERICITICALLY ALTERED(+10%) FELSIC DYKE . A total of .1 % quartz veins occur in this unit. trace% chalcopyrite occurs as vein associated . 174.00 175.00 TM33766 175.00 175.87 TM33767</p>
175.87	182.39	<p>CHLORITIC GREENSTONE with >50% chlorite alteration; +/- talc & biotite bands . This unit is contorted trace% pyrite occurs as vein associated . 175.87 177.00 TM33768 177.00 178.00 TM33769 178.00 179.00 TM33770 179.00 180.00 TM33771 180.00 181.00 TM33772 181.00 182.39 TM33773</p>
182.39	184.08	<p>PLAGIOCLASE PORPHYRYTIC FELSIC DYKE(+Kf+/- hem matrix) . 182.39 184.08 TM33774</p>
184.08	185.40	<p>CHLORITIC GREENSTONE with >50% chlorite alteration; +/- talc & biotite bands . 184.08 185.24 TM33775 185.24 186.48 TM33776</p>
185.40	187.38	<p>MASSIVE MAFIC FLOW(<1%biotite) . This unit is fine grained , amygdaloidal trace% pyrite occurs as disseminations & scattered crystals . 186.48 187.38 TM33727</p>
187.38	189.10	<p>GABBRO INTRUSIVE (medium to coarse grained) . 187.38 188.55 TM33728 188.55 189.91 TM33729</p>
189.10	189.81	<p>MASSIVE MAFIC FLOW(<1%biotite) . 0.5-2% pyrite occurs as disseminations & scattered crystals .</p>
189.81	190.70	<p>FELSIC DYKE(BROWN) . trace% pyrite occurs as vein associated . 189.91 190.70 TM33730</p>
190.70		<p>** END OF HOLE **</p>



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

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

Project : DETOUR LAKE MINES
Comments: ATTN: LORNE WARNER

Page Number : 1
Total Pages : 1
Certificate Date: 24-SEP-96
Invoice No. : I9631691
P.O. Number : 464E
Account : MOE

CERTIFICATE OF ANALYSIS

A9631691

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
464-118-TM33726	208 226	0.030	-----								
464-118-TM33727	208 226	0.460	-----								
464-118-TM33728	208 226	0.030	-----								
464-118-TM33729	208 226	0.275	-----								
464-118-TM33730	208 226	0.085	-----								

CERTIFICATION

Adriana Alexander

03/05/97 WED 10:24 FAX 604 984 0218 CHEMEX LABS 028



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

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

Project : DETOUR LAKE - MET
 Comments: ATN: Lorne Warner

Page Number : 1
 Total Pages : 1
 Certificate Date : 09-SEP-96
 Invoice No. : 19631033
 P.O. Number :
 Account : MOE

CERTIFICATE OF ANALYSIS A9631033

SAMPLE	PREP CODE	Au tot g/t	Au - g/t	Au + mg	Wt. - grams	Wt. + grams	Au g/t	Au check		
464-118-TM33751	230 294	< 0.07	< 0.07	0.003	1851	26.33	< 0.03	< 0.030		
464-118-TM33752	230 294	0.08	0.07	0.015	1521	30.42	0.09	0.050		
464-118-TM33753	230 294	< 0.07	< 0.07	< 0.002	1605	26.18	< 0.03	0.040		
464-118-TM33754	230 294	< 0.07	< 0.07	< 0.002	1560	23.43	< 0.03	< 0.030		
464-118-TM33755	230 294	< 0.07	< 0.07	0.004	2259	30.29	< 0.03	0.040		
464-118-TM33756	230 294	< 0.07	< 0.07	< 0.002	2458	19.24	< 0.03	< 0.030		
464-118-TM33757	230 294	< 0.07	< 0.07	< 0.002	2354	23.24	< 0.03	< 0.030		
464-118-TM33758	230 294	47.19	43.79	7.680	1876	27.49	44.96	42.62		
464-118-TM33759	230 294	0.43	0.43	0.016	1699	30.42	0.50	0.360		
464-118-TM33760	230 294	< 0.07	< 0.07	0.006	1986	21.31	< 0.03	< 0.030		
464-118-TM33761	230 294	< 0.07	< 0.07	< 0.002	2091	28.33	< 0.03	< 0.030		
464-118-TM33762	230 294	< 0.07	< 0.07	< 0.002	2022	27.81	< 0.03	< 0.030		
464-118-TM33763	230 294	< 0.07	< 0.07	< 0.002	1862	29.41	0.04	0.040		
464-118-TM33764	230 294	< 0.07	< 0.07	< 0.002	1941	27.67	< 0.03	0.040		
464-118-TM33765	230 294	< 0.07	< 0.07	0.002	2126	22.99	< 0.03	< 0.030		
464-118-TM33766	230 294	< 0.07	< 0.07	< 0.002	1710	7.99	< 0.03	< 0.030		
464-118-TM33767	230 294	< 0.07	< 0.07	< 0.002	1533	16.56	0.04	0.060		
464-118-TM33768	230 294	< 0.07	< 0.07	< 0.002	1861	25.17	< 0.03	< 0.030		
464-118-TM33769	230 294	< 0.07	< 0.07	0.010	2101	28.77	< 0.03	< 0.030		
464-118-TM33770	230 294	< 0.07	< 0.07	< 0.002	2013	24.84	< 0.03	< 0.030		
464-118-TM33771	230 294	< 0.07	< 0.07	0.004	1896	29.34	< 0.03	< 0.030		
464-118-TM33772	230 294	< 0.07	< 0.07	0.064	1880	25.92	< 0.03	< 0.030		
464-118-TM33773	230 294	< 0.07	< 0.07	0.003	3094	29.72	< 0.03	< 0.030		
464-118-TM33774	230 294	< 0.07	< 0.07	0.003	2912	25.12	< 0.03	< 0.030		
464-118-TM33775	230 294	0.07	0.07	0.002	2032	33.31	0.08	0.060		
464-118-TM33776	230 294	0.57	0.57	0.019	2216	28.05	0.60	0.540		
464-118-TM33777	230 294	< 0.07	< 0.07	< 0.002	2692	23.71	< 0.03	< 0.030		
464-118-TM33778	230 294	0.10	0.10	0.003	1888	16.92	0.09	0.100		
464-118-TM33779	230 294	0.11	0.11	0.004	1955	35.72	0.11	0.110		
464-118-TM33780	230 294	2.42	2.22	0.496	2154	24.60	2.30	2.130		
464-118-TM33781	230 294	< 0.07	< 0.07	0.004	2014	31.98	< 0.03	< 0.030		
464-118-TM33782	230 294	< 0.07	< 0.07	0.002	2156	54.90	< 0.03	< 0.030		
464-118-TM33783	230 294	2.95	2.20	1.797	2273	30.55	2.27	2.120		
464-118-TM33784	230 294	0.23	0.22	0.030	2289	32.93	0.21	0.230		
464-118-TM33785	230 294	< 0.07	< 0.07	0.004	2548	19.33	0.04	< 0.030		
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464-118-TM33787	230 294	< 0.07	< 0.07	0.010	2204	29.32	0.07	< 0.030		
464-118-TM33788	230 294	< 0.07	< 0.07	0.008	2122	8.09	< 0.03	< 0.030		
464-118-TM33789	230 294	< 0.07	< 0.07	< 0.002	2291	29.15	< 0.03	< 0.030		
464-118-TM33790	230 294	< 0.07	< 0.07	< 0.002	2169	7.85	< 0.03	< 0.030		

CERTIFICATE OF ANALYSIS
Adriana Alexander



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

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

Project: DETOUR LAKE MINES
 Comments: ATTN: LORNE WARNER

Page Number : 1
 Total Pages : 1
 Certificate Date: 25-SEP-96
 Invoice No. : 19631692
 P.O. Number : 464E
 Account : MOE

CERTIFICATE OF ANALYSIS A9631692

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
464-118-TM33791	208 226	0.005	-----								
464-118-TM33792	208 226	0.060	-----								
464-118-TM33793	208 226	0.070	-----								
464-118-TM33794	208 226	0.055	-----								
464-118-TM33795	208 226	0.025	-----								
464-118-TM33796	208 226	0.020	-----								
464-118-TM33797	208 226	1.720	1.710								
464-118-TM33798	208 226	1.560	1.410								
464-118-TM33799	208 226	0.060	-----								
464-118-TM33800	208 226	< 0.005	-----								
D464-118-TM33791	214 --	-----	0.010								
CANMET	214 --	-----	2.420								
100000	214 --	-----	< 0.005								

CERTIFICATE BY *Aliciana Alexander*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

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

Project: DETOUR LAKE MINES
 Comments: ATTN: LORNE WARNER

Page Number : 1
 Total Pages : 1
 Certificate Date: 24-SEP-96
 Invoice No. : 19631693
 P.O. Number : 464E
 Account : MOE

CERTIFICATE OF ANALYSIS

A9631693

SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
464-118-TM33941	208 226	0.025	-----										
464-118-TM33942	208 226	0.380	-----										
464-118-TM33943	208 226	< 0.005	-----										
464-118-TM33944	208 226	0.025	-----										
464-118-TM33945	208 226	0.010	-----										
464-118-TM33946	208 226	0.005	-----										
464-118-TM33947	208 226	0.295	-----										
464-118-TM33948	208 226	0.020	-----										
464-118-TM33949	208 226	0.015	-----										
464-118-TM33950	208 226	0.080	-----										
464-118-TM33951	208 226	0.035	-----										
464-118-TM33952	208 226	0.020	-----										
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464-118-TM33954	208 226	0.035	-----										
464-118-TM33955	208 226	0.005	-----										
464-118-TM33956	208 226	0.015	-----										
464-118-TM33957	208 226	0.035	-----										
464-118-TM33958	208 226	0.035	-----										
464-118-TM33959	208 226	0.010	-----										
464-118-TM33960	214 --	< 0.005	-----										
D464-118-TM33941	214 --	-----	0.020										
100560	214 --	-----	2.500										
100000	214 --	-----	< 0.005										

CERTIFICATION *Adriana Flexano*

CHEMEX LABS

03/05/97 WED 10:21 FAX 604 984 0218



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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Project: DETOUR LAKE MINES
 Comments: ATTN: LORNE WARNER

Page Number : 1
 Total Pages : 1
 Certificate Date: 24-SEP-96
 Invoice No. : 19631694
 P.O. Number : 464E
 Account : MOE

CERTIFICATE OF ANALYSIS A9631694

SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
464-118-TM33961	208 226	< 0.005	-----										
464-118-TM33962	208 226	0.040	-----										
464-118-TM33963	208 226	0.015	-----										
464-118-TM33964	208 226	0.005	-----										
464-118-TM33965	208 226	0.010	-----										
464-118-TM33966	208 226	0.035	-----										
464-118-TM33967	208 226	0.030	-----										
464-118-TM33968	208 226	0.010	-----										
464-118-TM33969	208 226	0.020	-----										
464-118-TM33970	208 226	0.015	-----										
464-118-TM33971	208 226	< 0.005	-----										
464-118-TM33972	214 --	3.34	-----										
464-118-TM33973	208 226	0.025	-----										
464-118-TM33974	208 226	0.090	-----										
464-118-TM33975	208 226	0.115	-----										
464-118-TM33976	208 226	0.025	-----										
464-118-TM33977	208 226	0.025	-----										
464-118-TM33978	208 226	0.020	-----										
464-118-TM33979	208 226	0.015	-----										
464-118-TM33980	208 226	0.015	-----										
D464-118-TM33961	214 --	-----	< 0.005										
CANMET	214 --	-----	2.530										
100000	214 --	-----	< 0.005										

CHEMEX LABS

03/05/97 WED 10:21 FAX 604 984 0218

CERTIFICATE *Adriana Alexander*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

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

Project: DETOUR LAKE MINES
Comments: ATTN: LORNE WARNER

Page Number : 1
Total Pages : 1
Certificate Date: 25-SEP-96
Invoice No. : I9631695
P.O. Number : 464E
Account : MOE

CERTIFICATE OF ANALYSIS

A9631695

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
464-118-TM33981	214 --	0.005	-----								
464-118-TM33982	208 226	0.100	-----								
464-118-TM33983	208 226	0.025	-----								
464-118-TM33984	208 226	0.045	-----								
464-118-TM33985	208 226	< 0.005	-----								
464-118-TM33986	208 226	0.015	-----								
464-118-TM33987	214 --	3.10	-----								
464-118-TM33988	208 226	0.035	-----								
464-118-TM33989	208 226	0.035	-----								
464-118-TM33990	208 226	0.090	-----								
464-118-TM33991	208 226	0.205	-----								
464-118-TM33992	208 226	0.025	-----								
464-118-TM33993	208 226	0.085	-----								
464-118-TM33994	208 226	0.085	-----								
464-118-TM33995	208 226	0.010	-----								
464-118-TM33996	208 226	0.165	-----								
464-118-TM33997	208 226	1.880	1.610								
464-118-TM33998	208 226	0.105	-----								
464-118-TM33999	208 226	0.090	-----								
464-118-TM34000	214 --	< 0.005	-----								
D464-118-TM33981	214 --	-----	0.005								
100560	214 --	-----	2.550								
100000	214 --	-----	< 0.005								

CERTIFICATE

Aliciana Alexander



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

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

Page Number : 1
 Total Pages : 1
 Certificate Date: 25-SEP-96
 Invoice No. : 19631696
 P.O. Number : 464E
 Account : MOE

Project : DETOUR LAKE MINES
 Comments: ATTN: LORNE WARNER

CERTIFICATE OF ANALYSIS A9631696

SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
464-118-TM34001	208 226	0.025	-----										
464-118-TM34002	208 226	0.080	-----										
464-118-TM34003	208 226	0.025	-----										
464-118-TM34004	208 226	0.025	-----										
464-118-TM34005	208 226	0.015	-----										
464-118-TM34006	208 226	0.030	-----										
464-118-TM34007	214 --	2.87	-----										
464-118-TM34008	208 226	0.015	-----										
464-118-TM34009	208 226	0.020	-----										
464-118-TM34010	208 226	0.230	-----										
464-118-TM34011	208 226	0.055	-----										
464-118-TM34012	208 226	0.215	-----										
464-118-TM34013	208 226	0.700	-----										
464-118-TM34014	208 226	2.04	2.130										
464-118-TM34015	208 226	0.120	-----										
464-118-TM34016	208 226	0.110	-----										
464-118-TM34017	208 226	< 0.005	-----										
464-118-TM34018	208 226	0.015	-----										
464-118-TM34019	208 226	0.010	-----										
464-118-TM34020	214 --	< 0.005	-----										
D464-118-TM34001	214 --	-----	0.020										
CANMET	214 --	-----	2.480										
100000	214 --	-----	< 0.005										

CERTIFICATE BY *Adriano Alexano*

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

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

Project: DETOUR LAKE MINES
Comments: ATTN: LORNE WARNER

Page Number : 1
Total Pages : 1
Certificate Date: 24-SEP-96
Invoice No. : 19631697
P.O. Number : 464E
Account : MOE

CERTIFICATE OF ANALYSIS

A9631697

SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
464-118-TM34021	208 226	0.020	-----										
464-118-TM34022	208 226	0.005	-----										
464-118-TM34023	208 226	0.010	-----										
464-118-TM34024	208 226	0.115	-----										
464-118-TM34025	214 --	3.05	-----										
464-118-TM34026	208 226	0.010	-----										
464-118-TM34027	208 226	< 0.005	-----										
464-118-TM34028	208 226	0.015	-----										
464-118-TM34029	208 226	0.080	-----										
464-118-TM34030	208 226	0.010	-----										
464-118-TM34031	208 226	0.010	-----										
464-118-TM34032	208 226	0.360	-----										
464-118-TM34033	208 226	0.005	-----										
464-118-TM34034	208 226	0.020	-----										
464-118-TM34035	208 226	0.090	-----										
464-118-TM34036	208 226	< 0.005	-----										
464-118-TM34037	208 226	0.085	-----										
464-118-TM34038	208 226	0.065	-----										
464-118-TM34039	208 226	0.105	-----										
464-118-TM34040	214 --	< 0.005	-----										
D464-118-TM34021	214 --	-----	0.015										
100560	214 --	-----	2.570										
100000	214 --	-----	< 0.005										

CERTIFIED

Adriana Alexander



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

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

Page Number : 1
 Total Pages : 1
 Certificate Date: 25-SEP-96
 Invoice No. : 19631698
 P.O. Number : 464E
 Account : MOE

Project : DETOUR LAKE MINES
 Comments: ATTN: LORNE WARNER

CERTIFICATE OF ANALYSIS

A9631698

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
464-118-TM34041	208 226	0.100	-----									
464-118-TM34042	208 226	0.290	-----									
464-118-TM34043	208 226	< 0.005	-----									
464-118-TM34044	208 226	< 0.005	-----									
464-118-TM34045	208 226	0.015	-----									
464-118-TM34046	208 226	0.030	-----									
464-118-TM34047	208 226	1.990	1.660									
464-118-TM34048	214 --	3.08	-----									
464-118-TM34049	208 226	0.135	-----									
464-118-TM34050	208 226	0.005	-----									
464-118-TM34051	208 226	< 0.005	-----									
464-118-TM34052	208 226	0.005	-----									
464-118-TM34053	208 226	0.040	-----									
464-118-TM34054	208 226	0.005	-----									
464-118-TM34055	208 226	< 0.005	-----									
464-118-TM34056	208 226	< 0.005	-----									
464-118-TM34057	208 226	< 0.005	-----									
464-118-TM34058	208 226	< 0.005	-----									
464-118-TM34059	208 226	0.005	-----									
464-118-TM34060	214 --	< 0.005	-----									
D464-118-TM34041	214 --	-----	0.095									
CANMET	214 --	-----	2.430									
100000	214 --	-----	< 0.005									

CERTIFICATION: *Adriana Alexandra*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

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

Project: DETOUR LAKE MINES
 Comments: ATTN: LORNE WARNER

Page Number : 1
 Total Pages : 1
 Certificate Date: 24-SEP-96
 Invoice No. : 19631699
 P.O. Number : 464E
 Account : MOE

CERTIFICATE OF ANALYSIS

A9631699

SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
464-118-TM34061	208 226	0.020	-----										
464-118-TM34062	208 226	0.005	-----										
464-118-TM34063	208 226	0.010	-----										
464-118-TM34064	208 226	0.035	-----										
464-118-TM34065	208 226	0.005	-----										
464-118-TM34066	208 226	< 0.005	-----										
464-118-TM34067	214 --	2.98	-----										
464-118-TM34068	208 226	< 0.005	-----										
464-118-TM34069	208 226	< 0.005	-----										
464-118-TM34070	208 226	< 0.005	-----										
464-118-TM34071	208 226	0.030	-----										
464-118-TM34072	208 226	< 0.005	-----										
464-118-TM34073	208 226	< 0.005	-----										
464-118-TM34074	208 226	< 0.005	-----										
464-118-TM34075	208 226	< 0.005	-----										
464-118-TM34076	208 226	0.020	-----										
464-118-TM34077	208 226	0.005	-----										
464-118-TM34078	208 226	0.020	-----										
464-118-TM34079	208 226	0.015	-----										
464-118-TM34080	214 --	< 0.005	-----										
D464-118-TM34061	214 --	-----	0.020										
100560	214 --	-----	2.510										
100000	214 --	-----	< 0.005										

CERTIFIED BY *Adriana Alexandra*



Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

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

Page Number : 1
 Total Pages : 1
 Certificate Date: 24-SEP-96
 Invoice No. : 19631700
 P.O. Number : 464E
 Account : MOE

Project : DETOUR LAKE MINES
 Comments : ATTN: LORNE WARNER

CERTIFICATE OF ANALYSIS

A9631700

SAMPLE	PREP CODE	Au g/t FA+AA	Au check										
464-118-TM34081	208 226	0.100	-----										
464-118-TM34082	208 226	0.045	-----										
464-118-TM34083	208 226	0.010	-----										
464-118-TM34084	208 226	0.010	-----										
464-118-TM34085	208 226	< 0.005	-----										
464-118-TM34086	208 226	0.010	-----										
464-118-TM34087	208 226	< 0.005	-----										
464-118-TM34088	208 226	< 0.005	-----										
464-118-TM34089	208 226	< 0.005	-----										
464-118-TM34090	208 226	0.025	-----										
464-118-TM34091	214 --	3.00	-----										
464-118-TM34092	208 226	0.085	-----										
464-118-TM34093	208 226	0.030	-----										
D464-118-TM34081	214 --	-----	0.095										
CANMET	214 --	-----	2.390										
100000	214 --	-----	< 0.005										

CHEMEX LABS

03/05/97 WED 10:23 FAX 604 984 0218

CERTIFIED BY *Loraine Alexander*

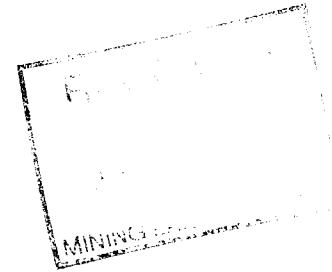
*** DETOUR LAKE MINEX ***
 PLACER DOME CANADA INC.

Drill Hole: 464-119

Date: 1st Mar, 1997
 Northing : 20550.00
 Easting : 17060.00
 Elevation : 6282.00
 Hole Depth : 200.00mt

Project ID : 464
 Core Size : NQ
 Date Logged : 13OCT96
 Logged By : PDT
 Assisted by :

MINING CLAIM NUMBER:: CLM 231
 SURVEYED:: NO
 DATE LOGGING STARTED:: OCTOBER 13, 1996
 DATE LOGGING ENDED:: OCTOBER 15, 1996
 LOGGED BY:: PAUL TURNBULL
 GEOTECHNICIAN:: GRAEME LILLIE
 PURPOSE:: TO TEST SHALLOW M-ZONE
 DRILLING STARTED:: OCTOBER 10, 1996
 DRILLING COMPLETED:: OCTOBER 13, 1996
 DRILLING CONTRACTOR:: BRADELY BROTHERS DRILLING LIMITED
 DEPTH TO BEDROCK:: 34.00M
 DRILL CORE STORAGE LOCATION:: DETOUR LAKE MINE
 ROUTINE FIRE ASSAY SAMPLES:: TM29901-972, TM29975-976, TM29978-984, TM29988-993,
 ROUTINE FIRE ASSAY SAMPLES:: TM29995-40001, TM40003-010, TM40015-045, TM0048-081
 METALLIC SAMPLES:: TM29972-974,977, TM29985-987,994, TM40002,011-014,046-047



Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	190.00	-55.00
44.00	195.00	-53.00
130.00	190.00	-51.50
200.00	196.00	-51.00

Grid Azimuth: 0.00
 Coord System:

Drillers :
 Drill date :
 Rig Type : 35
 Drill Time :
 Print Template : GTRAN.FMT
 Gtran Version : 4.2.3

From	To	Geological Description
0.00	34.00	OVERBURDEN . 0.00 0.00 TM29915 QUALITY CONTROL STANDARD 0.00 0.00 TM29920 QUALITY CONTROL BLANK 0.00 0.00 TM29935 QUALITY CONTROL STANDARD 0.00 0.00 TT29940 QUALITY CONTROL BLANK 0.00 0.00 TM29955 QUALITY CONTROL STANDARD 0.00 0.00 TM29960 QUALITY CONTROL BLANK 0.00 0.00 TM29975 QUALITY CONTROL STANDARD 0.00 0.00 TM29980 QUALITY CONTROL BLANK 0.00 0.00 TM29995 QUALITY CONTROL STANDARD 0.00 0.00 TM30000 QUALITY CONTROL BLANK 0.00 0.00 TM40015 QUALITY CONTROL STANDARD 0.00 0.00 TM40020 QUALITY CONTROL BLANK 0.00 0.00 TM40035 QUALITY CONTROL STANDARD 0.00 0.00 TM40040 QUALITY CONTROL BLANK 0.00 0.00 TM40055 QUALITY CONTROL STANDARD 0.00 0.00 TM40060 QUALITY CONTROL BLANK

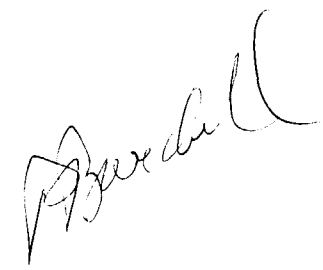
From	To	Geological Description
		0.00 0.00 TM40075 QUALITY CONTROL STANDARD
		0.00 0.00 TM40080 QUALITY CONTROL BLANK
34.00	67.96	PILLOWED MAFIC FLOW . The unit is variolitic A total of 0.5-2% quartz veins occur in this unit. 0.3-0.5% pyrrhotite occurs as amygdaloidal . trace% pyrite occurs as vein associated . trace% chalcopyrite occurs as vein associated . present% specks of VISIBLE GOLD hosted by quartz vein(s).
		34.00 35.00 TM29901
		35.00 36.00 TM29902
		36.00 37.00 TM29903
		37.00 38.00 TM29904
		38.00 39.00 TM29905
		39.00 40.00 TM29906
		40.00 41.00 TM29907
		41.00 42.00 TM29908
		42.00 43.00 TM29909
		43.00 44.00 TM29910
		44.00 45.42 TM29911
		45.42 46.75 TM29912
		46.75 48.49 TM29913
		48.49 49.59 TM29914
		49.59 50.58 TM29916
		50.58 52.00 TM29917
		52.00 53.00 TM29918
		52.00 53.00 TM29919 DUPLICATE
		53.00 54.17 TM29921
		54.17 55.68 TM29922
		55.68 56.30 TM29923
		56.30 57.51 TM29924
		57.51 58.61 TM29925
		58.61 59.77 TM29926
		59.77 60.90 TM29927
		60.90 61.68 TM29928
		61.68 62.29 TM29929
		62.29 63.28 TM29930
		63.28 64.63 TM29931
		64.63 65.61 TM29932
		65.61 67.00 TM29933
		67.00 67.96 TM29934
67.96	76.43	INTERMEDIATE DYKE(PURPLISH/BROWN) . A total of 0.3-0.5% quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated .
		67.96 68.59 TM29936
		68.59 69.54 TM29937
		69.54 70.57 TM29938
		69.54 70.57 TM29939 DUPLICATE
		70.57 71.70 TM29941
		71.70 73.29 TM29942
		73.29 74.30 TM29943
		74.30 75.11 TM29944

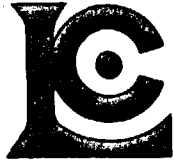
From	To	Geological Description
		75.11 76.41 TM29945 76.41 77.45 TM29946
76.43	84.94	WEAKLY POTASSIC PILLOW FLOW(1-5% potassic alteration) . A total of 0.5-2% quartz veins occur in this unit. 0.5-2% pyrrhotite occurs as wisps . trace% pyrite occurs as vein associated . trace% chalcopyrite occurs as vein associated . 77.45 78.65 TM29947 78.65 80.34 TM29948 80.34 81.74 TM29949 81.74 82.88 TM29950 82.88 83.79 TM29951 83.79 84.94 TM29952
84.94	88.32	INTERMEDIATE DYKE(PURPLISH/BROWN) . 84.94 86.09 TM29953 86.09 87.14 TM29954 87.14 88.32 TM29956
88.32	93.61	WEAKLY POTASSIC PILLOW FLOW(1-5% potassic alteration) . A total of 0.3-0.5% quartz veins occur in this unit. 0.5-2% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . trace% chalcopyrite occurs as vein associated . 88.32 89.33 TM29957 89.33 90.16 TM29958 89.33 90.16 TM29959 DUPLICATE 90.16 91.00 TM29961 91.00 92.22 TM29962 92.22 93.61 TM29963
93.61	100.00	MASSIVE MAFIC FLOW(<1%biotite) . A total of 0.3-0.5% quartz veins occur in this unit. 0.5-2% pyrrhotite occurs as vein associated . trace% chalcopyrite occurs as vein associated . 93.61 95.00 TM29964 95.00 96.00 TM29965 96.00 97.00 TM29966 97.00 98.00 TM29967 98.00 99.00 TM29968 99.00 100.00 TM29969
100.00	108.48	WEAKLY POTASSIC PILLOW FLOW(1-5% potassic alteration) . A total of 0.5-2% quartz veins occur in this unit. 0.5-2% pyrrhotite occurs as 6 . trace% pyrite occurs as vein associated . trace% marcasite occurs as vein associated . 0.3-0.5% chalcopyrite occurs as vein associated . trace% specks of VISIBLE GOLD hosted by quartz vein(s). 100.00 101.00 TM29970 101.00 102.00 TM29971 102.00 103.00 TM29972 103.00 104.28 TM29973 104.28 104.95 TM29974 104.95 106.06 TM29976 106.06 107.07 TM29977 107.07 108.14 TM29978 107.07 108.14 TM29979 DUPLICATE 108.14 109.10 TM29981

From	To	Geological Description
108.48	110.40	MASSIVE MAFIC FLOW(<1%biotite) . A total of 0.3-0.5% quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . 109.10 110.40 TM29982
110.40	117.33	INTERMEDIATE DYKE(PURPLISH/BROWN) . A total of 0.5-2% quartz veins occur in this unit. 0.5-2% pyrrhotite occurs as vein associated . trace% chalcopyrite occurs as vein associated . 110.40 111.37 TM29983 111.37 112.48 TM29984 112.48 113.18 TM29985 113.18 114.11 TM29986 114.11 115.42 TM29987 115.42 116.44 TM29988 116.44 117.75 TM29989
117.33	119.12	GABBRO INTRUSIVE (medium to coarse grained) . A total of 2-4% quartz veins occur in this unit. 0.5-2% pyrrhotite occurs as vein associated . 0.5-2% pyrite occurs as disseminations & scattered crystals . trace% chalcopyrite occurs as vein associated . 117.75 118.37 TM29990 118.37 119.12 TM29991
119.12	129.84	PLAGIOCLASE PORPHYRYIC INTERMEDIATE DYKE . A total of 0.5-2% quartz veins occur in this unit. 0.5-2% pyrrhotite occurs as vein associated . 0.3-0.5% pyrite occurs as vein associated . 0.3-0.5% chalcopyrite occurs as vein associated . trace% specks of VISIBLE GOLD hosted by quartz vein(s). 119.12 120.25 TM29992 120.25 121.40 TM29993 121.40 122.40 TM29994 122.40 123.78 TM29996 123.78 125.49 TM29997 125.49 127.00 TM29998 125.49 127.00 TM29999 DUPLICATE 127.00 127.61 TM40001 127.61 128.28 TM40002 128.28 129.84 TM40003
129.84	132.12	CHLORITIC GREENSTONE with >50% chlorite alteration; +/- talc & biotite bands . A total of 0.5-2% quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . 129.84 130.85 TM40004 130.85 131.51 TM40005 131.51 132.32 TM40006
132.12	135.37	INTERMEDIATE DYKE(PURPLISH/BROWN) . A total of 0.3-0.5% quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 132.32 133.40 TM40007 133.40 134.32 TM40008 134.32 135.37 TM40009
135.37	139.30	CHLORITIC GREENSTONE with >50% chlorite alteration; +/- talc & biotite bands . A total of 2-4% quartz veins occur in this unit. 0.3-0.5% pyrrhotite occurs as microveins . trace% marcasite occurs as vein associated . trace% chalcopyrite occurs as vein associated . 0.3-0.5% specks of VISIBLE GOLD hosted by quartz vein(s). 135.37 136.77 TM40010 136.77 138.17 TM40011 138.17 139.30 TM40012

From	To	Geological Description
139.30	143.13	TALC-CHLORITE . A total of 0.3-0.5% quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 139.30 140.22 TM40013 140.22 141.05 TM40014 141.05 142.22 TM40016 142.22 143.13 TM40017
143.13	144.73	FELSIC DYKE(BROWN) . 143.13 144.73 TM40018 143.13 144.73 TM40019 DUPLICATE
144.73	145.89	CHLORITIC GREENSTONE with >50% chlorite alteration; +/- talc & biotite bands . 144.73 145.89 TM40021
145.89	156.21	MASSIVE MAFIC FLOW(<1%biotite) . A total of 0.3-0.5% quartz veins occur in this unit. 0.3-0.5% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 145.89 146.88 TM40022 146.88 147.90 TM40023 147.90 149.00 TM40024 149.00 150.00 TM40025 150.00 151.00 TM40026 151.00 152.48 TM40027 152.48 153.30 TM40028 153.30 154.69 TM40029 154.69 156.21 TM40030
156.21	158.15	FELSIC DYKE(BROWN) . 156.21 157.21 TM40031 157.21 158.15 TM40032
158.15	167.08	PILLOWED MAFIC FLOW . A total of 0.5-2% quartz veins occur in this unit. 0.3-0.5% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . trace% chalcopyrite occurs as vein associated . 158.15 158.67 TM40033 158.67 159.62 TM40034 159.62 161.28 TM40036 161.28 162.20 TM40037 162.20 163.00 TM40038 162.20 163.00 TM40039 DUPLICATE 163.00 164.00 TM40041 164.00 165.00 TM40042 165.00 166.30 TM40043 166.30 167.08 TM40044
167.08	168.68	INTERMEDIATE DYKE(PURPLISH/BROWN) . 167.08 168.66 TM40045 168.66 169.41 TM40046
168.68	169.40	WEAKLY POTASSIC PILLOW FLOW(1-5% potassic alteration) . A total of 0.5-2% quartz veins occur in this unit. 0.5-2% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 0.3-0.5% marcasite occurs as vein associated . trace% chalcopyrite occurs as vein associated . trace% specks of VISIBLE GOLD hosted by

From	To	Geological Description
		quartz vein(s).
169.40	173.16	FELSIC DYKE(BROWN) . A total of 0.5-2% quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . 169.41 170.65 TM40047 170.65 172.00 TM40048 172.00 173.16 TM40049
173.16	200.00	PILLOWED MAFIC FLOW . A total of 0.5-2% quartz veins occur in this unit. 0.3-0.5% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . trace% chalcopyrite occurs as vein associated . 173.16 174.38 TM40050 174.38 175.66 TM40051 175.66 176.75 TM40052 176.75 177.91 TM40053 177.91 179.00 TM40054 179.00 180.00 TM40056 180.00 181.00 TM40057 181.00 182.00 TM40058 181.00 182.00 TM40059 DUPLICATE 182.00 183.15 TM40061 183.15 184.00 TM40062 184.00 185.00 TM40063 185.00 186.00 TM40064 186.00 187.00 TM40065 187.00 188.00 TM40066 188.00 189.00 TM40067 189.00 190.00 TM40068 190.00 191.00 TM40069 191.00 192.00 TM40070 192.00 193.00 TM40071 193.00 194.00 TM40072 194.00 195.00 TM40073 195.00 196.00 TM40074 196.00 197.00 TM40076 197.00 197.87 TM40077 197.87 199.00 TM40078 197.87 199.00 TM40079 DUPLICATE 199.00 200.00 TM40081
200.00		** END OF HOLE **





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
 DETOUR LAKE MINE PROJECT
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project: DET LAKE BATCH#117
 Comments: ATTN: LORNE WARNER

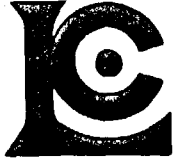
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 Date: 12-NOV-96
 Invoice #: 19639227
 P.O. #: 439
 MOE

QC DATA OF CERTIFICATE

A9639227

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check								
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464-119-TM29901	Dupl	01	< 0.005	-----								
	Orig	01	< 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
DETOUR LAKE MINE PROJECT
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

QC Page #: 1
Tot QC Pg: 1
Date: 12-NOV-96
Invoice #: 19639228
P.O. #: 439
MOE

Project: DET LAKE BATCH#118
Comments: ATTN: LORNE WARNER

QC DATA OF CERTIFICATE

A9639228

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	Orig1	01	< 0.005	-----								

CERTIFICATION

André G. Gauthier



Laboratoires Chemex Ltee.

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

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

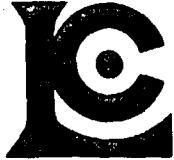
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 Date: 12-NOV-96
 Invoice #: 19639229
 P.O. #: 439
 MOE

Project: DET LAKE BATCH#120
 Comments: ATTN: LORNE WARNER

QC DATA OF CERTIFICATE	A9639229
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STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check						
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	Orig1	01	1.210	-----						

CERTIFICATION: _____



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

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

QC Page #: 1
Tot QC Pg: 1
Date: 12-NOV-96
Invoice #: 19639230
P.O. #: 439
MOE

Project: DET LAKE BATCH#120
Comments: ATTN: LORNE WARNER

QC DATA OF CERTIFICATE A9639230

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check								
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	---	---	2.39	-----								
464-119-TM29961	Dup1	01	0.045	-----								
	Orig1	01	0.055	-----								

CERTIFICATION:



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 Quebec, Canada J9X 5C3
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 823 BIRCH ST. S., P.O. BOX 960
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 P4N 7H1

Project: DET LAKE BATCH#121
 Comments: ATTN: LORNE WARNER

QC Page #: 1
 Tot QC Pg: 1
 Date: 12-NOV-96
 Invoice #: 19639231
 P.O. #: 439
 MOE

QC DATA OF CERTIFICATE

A9639231

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check								
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464-119-TM29981	Dup1 Orig1	-01 -01	0.010 0.010	----- -----								

CERTIFICATION *[Signature]*



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

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

Project: DET LAKE BATCH#122
Comments: ATTN: LORNE WARNER

QC Page #: 1
Tot QC Pg: 1
Date: 12-NOV-96
Invoice #: 19639232
P.O. #: 439
MOE

QC DATA OF CERTIFICATE A9639232

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check								
MA-2B CHEMEX MEAN	Std1 ---	1 ---	2.40 2.39	----- -----								

CERTIFICATION *Heliana 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
 DETOUR LAKE MINE PROJECT
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

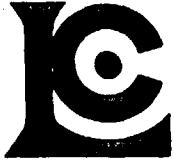
QC Page #: 1
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 Date: 12-NOV-96
 Invoice #: I9639233
 P.O. #: 439
 MOE

Project: DET LAKE BATCH#123
 Comments: ATTN: LORNE WARNER

QC DATA OF CERTIFICATE	A9639233
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STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check						
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464-119-TM40021	Dupl Origl	-01 -01	0.045 0.040	----- -----						

CERTIFICATION: _____



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

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

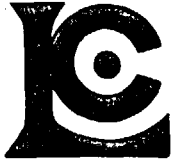
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Comments: ATTN: LORNE WARNER

QC Page #: 1
Tot QC Pg: 1
Date: 12-NOV-96
Invoice #: 19639234
P.O. #: 439
MOE

QC DATA OF CERTIFICATE A9639234

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check								
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464-119-TM40041	Dupl Origl	1-01 1-01	0.080 0.070	----- -----								

CERTIFICATION *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
 DETOUR LAKE MINE PROJECT
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project: DET LAKE BATCH#125
 Comments: ATTN: LORNE WARNER

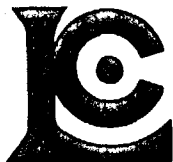
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 Date: 14-NOV-96
 Invoice #: I9639235
 P.O. #: 439
 MOE

QC DATA OF CERTIFICATE

A9639235

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au g/t FA+AA	Au check								
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	---	---	1.370	-----								
464-119-TM40061	Dupl	1-01	0.590	-----								
	Orig	1-01	0.565	-----								

CERTIFICATE
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
DETOUR LAKE MINE PROJECT
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9639227

Comments: ATTN: LORNE WARNER

CERTIFICATE

A9639227

(MOE) - PLACER DOME CANADA LIMITED

Project: DET LAKE BATCH#117
P.O. #: 439

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 12-NOV-96.

SAMPLE PREPARATION

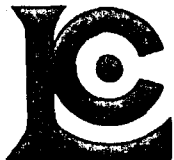
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	5	Rcvd as pulp; mesh size checked
208	18	Assay ring to approx 150 mesh
226	18	0-3 Kg crush and split
3202	18	Rock - save entire reject

* 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
DETOUR LAKE MINE PROJECT
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9639228

Comments: ATTN: LORNE WARNER

CERTIFICATE

A9639228

(MOE) - PLACER DOME CANADA LIMITED

Project: DET LAKE BATCH#118
P.O.#: 439

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 12-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	5	Rcvd as pulp; mesh size checked
208	18	Assay ring to approx 150 mesh
226	18	0-3 Kg crush and split
3202	18	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
DETOUR LAKE MINE PROJECT
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9639229

Comments: ATTN: LORNE WARNER

CERTIFICATE

A9639229

(MOE) - PLACER DOME CANADA LIMITED

Project: DET LAKE BATCH#120
P.O.#: 439

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 12-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	5	Rcvd as pulp; mesh size checked
208	18	Assay ring to approx 150 mesh
226	18	0-3 Kg crush and split
3202	18	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



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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
DETOUR LAKE MINE PROJECT
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9639230

Comments: ATTN: LORNE WARNER

CERTIFICATE

A9639230

(MOE) - PLACER DOME CANADA LIMITED

Project: DET LAKE BATCH#120
P.O.#: 439

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 12-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	5	Rcvd as pulp; mesh size checked
208	14	Assay ring to approx 150 mesh
226	14	0-3 Kg crush and split
3202	14	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	16	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	5	Au check analysis		0.005	10000



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

A9639231

Comments: ATTN: LORNE WARNER

CERTIFICATE

A9639231

(MOE) - PLACER DOME CANADA LIMITED

Project: DET LAKE BATCH#121
P.O.#: 439

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 12-NOV-96.

SAMPLE PREPARATION

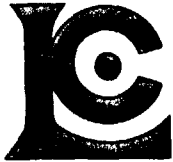
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208	14	Assay ring to approx 150 mesh
226	14	0-3 Kg crush and split
3202	14	Rock - save entire reject

* 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	16	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

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

A9639232

Comments: ATTN: LORNE WARNER

CERTIFICATE

A9639232

(MOE) - PLACER DOME CANADA LIMITED

Project: DET LAKE BATCH#122
P.O. #: 439

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 12-NOV-96.

SAMPLE PREPARATION

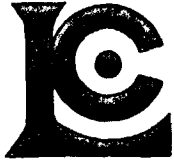
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214	5	Rcvd as pulp; mesh size checked
208	13	Assay ring to approx 150 mesh
226	13	0-3 Kg crush and split
3202	13	Rock - save entire reject

* 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	15	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	4	Au check analysis		0.005	10000



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

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

A9639233

Comments: ATTN: LORNE WARNER

CERTIFICATE

A9639233

(MOE) - PLACER DOME CANADA LIMITED

Project: DET LAKE BATCH#123
P.O. #: 439

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 12-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	5	Rcvd as pulp; mesh size checked
208	18	Assay ring to approx 150 mesh
226	18	0-3 Kg crush and split
3202	18	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



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

A9639234

Comments: ATTN: LORNE WARNER

CERTIFICATE

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(MOE) - PLACER DOME CANADA LIMITED

Project: DET LAKE BATCH#124
P.O. #: 439

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 12-NOV-96.

SAMPLE PREPARATION

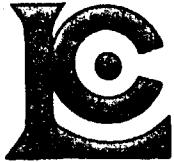
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
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3202	16	Rock - save entire reject

* 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	18	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
DETOUR LAKE MINE PROJECT
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9639235

Comments: ATTN: LORNE WARNER

CERTIFICATE

A9639235

(MOE) - PLACER DOME CANADA LIMITED

Project: DET LAKE BATCH#125
P.O. #: 439

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 14-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	5	Rcvd as pulp; mesh size checked
208	18	Assay ring to approx 150 mesh
226	18	0-3 Kg crush and split
3202	18	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



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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
DETOUR LAKE MINE PROJECT
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

A9639242

Comments: ATN: Lorne Warner

CERTIFICATE **A9639242**

(MOE) - PLACER DOME CANADA LIMITED

Project: 464
P.O. #:

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 12-NOV-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
230	15	sieve to -200 mesh
294	15	4-7 Kg crush and split
1316	15	Silica 'wash' in pulverizer
1316	15	Silica 'wash' in pulverizer
3202	15	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
881	15	Au g/t: Total, metallics calc.	FA-AAS/GRAV	0.07	500.00
885	15	Au- g/t: Metallics calc.	FA-AAS/GRAV	0.07	500.00
887	15	Au+ mg: Metallics calculation	FA-AAS/GRAV	0.002	9999.00
889	15	Weight- g: Metallics calculation	BALANCE	1	N/A
888	15	Weight+ g: Metallics calculation	BALANCE	0.01	N/A
999	15	Au g/t: 1 assay ton, AA finish	FA-AAS	0.03	150.00
1350	15	Au check analysis		0.005	10000



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

A9639236

Comments: ATTN: LORNE WARNER

CERTIFICATE

A9639236

(MOE) - PLACER DOME CANADA LIMITED

Project: DET LAKE BATCH#126
P.O.#: 439

Samples submitted to our lab in Rouyn, PQ.
This report was printed on 13-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	1	Assay ring to approx 150 mesh
226	1	0-3 Kg crush and split
3202	1	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	1	Au g/t: Fuse 30 g sample	FA-AAS	0.005	12.00
1350	0	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
DETOUR LAKE MINE PROJECT
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : DET LAKE BATCH#117
Comments: ATTN: LORNE WARNER

Page Number :1
Total Pages :1
Certificate Date: 12-NOV-96
Invoice No. :19639227
P.O. Number :439
Account :MOE

CERTIFICATE OF ANALYSIS

A9639227

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
464-119-TM29901	208 226	< 0.005	-----								
464-119-TM29902	208 226	< 0.005	-----								
464-119-TM29903	208 226	< 0.005	-----								
464-119-TM29904	208 226	< 0.005	-----								
464-119-TM29905	208 226	0.250	-----								
464-119-TM29906	208 226	< 0.005	-----								
464-119-TM29907	208 226	0.010	-----								
464-119-TM29908	208 226	0.015	-----								
464-119-TM29909	208 226	< 0.005	-----								
464-119-TM29910	208 226	< 0.005	-----								
464-119-TM29911	208 226	< 0.005	-----								
464-119-TM29912	208 226	0.010	-----								
464-119-TM29913	208 226	0.020	-----								
464-119-TM29914	208 226	0.005	-----								
464-119-TM29915	214 --	3.22	-----								
464-119-TM29916	208 226	0.010	-----								
464-119-TM29917	208 226	< 0.005	-----								
464-119-TM29918	208 226	< 0.005	-----								
464-119-TM29919	208 226	< 0.005	-----								
464-119-TM29920	214 --	< 0.005	-----								
D464-119-TM29901	214 --	-----	< 0.005								
100560	214 --	-----	1.460								
100000	214 --	-----	< 0.005								

CERTIFICATION

Alicia Alexandre



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
 DETOUR LAKE MINE PROJECT
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : DET LAKE BATCH#118
 Comments: ATTN: LORNE WARNER

Page Number :1
 Total Pages :1
 Certificate Date: 12-NOV-96
 Invoice No. :19639228
 P.O. Number :439
 Account :MOE

CERTIFICATE OF ANALYSIS

A9639228

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
464-119-TM29921	208 226	< 0.005	-----								
464-119-TM29922	208 226	0.050	-----								
464-119-TM29923	208 226	< 0.005	-----								
464-119-TM29924	208 226	0.015	-----								
464-119-TM29925	208 226	0.150	-----								
464-119-TM29926	208 226	0.020	-----								
464-119-TM29927	208 226	0.035	-----								
464-119-TM29928	208 226	0.005	-----								
464-119-TM29929	208 226	0.010	-----								
464-119-TM29930	208 226	0.010	-----								
464-119-TM29931	208 226	< 0.005	-----								
464-119-TM29932	208 226	0.010	-----								
464-119-TM29933	208 226	0.030	-----								
464-119-TM29934	208 226	0.020	-----								
464-119-TM29935	214 --	3.11	-----								
464-119-TM29936	208 226	< 0.005	-----								
464-119-TM29937	208 226	< 0.005	-----								
464-119-TM29938	208 226	< 0.005	-----								
464-119-TM29939	208 226	< 0.005	-----								
464-119-TM29940	214 --	< 0.005	-----								
D464-119-TM29921	214 --	-----	< 0.005								
CANMET	214 --	-----	2.400								
100000	214 --	-----	< 0.005								

CERTIFICATE

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
 DETOUR LAKE MINE PROJECT
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : DET LAKE BATCH#120
 Comments: ATTN: LORNE WARNER

Page Number : 1
 Total Pages : 1
 Certificate Date: 12-NOV-96
 Invoice No. : 19639229
 P.O. Number : 439
 Account : MOE

CERTIFICATE OF ANALYSIS	A9639229
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SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
464-119-TM29941	208 226	1.210	-----								
464-119-TM29942	208 226	< 0.005	-----								
464-119-TM29943	208 226	0.035	-----								
464-119-TM29944	208 226	0.040	-----								
464-119-TM29945	208 226	0.030	-----								
464-119-TM29946	208 226	0.020	-----								
464-119-TM29947	208 226	< 0.005	-----								
464-119-TM29948	208 226	0.025	-----								
464-119-TM29949	208 226	0.015	-----								
464-119-TM29950	208 226	0.065	-----								
464-119-TM29951	208 226	0.040	-----								
464-119-TM29952	208 226	1.990	2.430								
464-119-TM29953	208 226	0.015	-----								
464-119-TM29954	208 226	0.030	-----								
464-119-TM29955	214 --	3.43	-----								
464-119-TM29956	208 226	0.280	-----								
464-119-TM29957	208 226	0.025	-----								
464-119-TM29958	208 226	0.025	-----								
464-119-TM29959	208 226	0.025	-----								
464-119-TM29960	214 --	< 0.005	-----								
D464-119-TM29941	214 --	-----	1.200								
100560	214 --	-----	1.410								
100000	214 --	-----	< 0.005								

CERTIFICATION *Audiana 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
DETOUR LAKE MINE PROJECT
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : DET LAKE BATCH#120
Comments: ATTN: LORNE WARNER

Page Number : 1
Total Pages : 1
Certificate Date: 12-NOV-96
Invoice No. : 19639230
P.O. Number : 439
Account : MOE

CERTIFICATE OF ANALYSIS

A9639230

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
464-119-TM29961	208 226	0.055	-----								
464-119-TM29962	208 226	0.020	-----								
464-119-TM29963	208 226	0.020	-----								
464-119-TM29964	208 226	0.005	-----								
464-119-TM29965	208 226	< 0.005	-----								
464-119-TM29966	208 226	0.800	-----								
464-119-TM29967	208 226	0.015	-----								
464-119-TM29968	208 226	0.020	-----								
464-119-TM29969	208 226	0.005	-----								
464-119-TM29970	208 226	0.005	-----								
464-119-TM29971	208 226	0.020	-----								
464-119-TM29975	214 --	3.19	-----								
464-119-TM29976	208 226	0.010	-----								
464-119-TM29978	208 226	3.71	2.910								
464-119-TM29979	208 226	2.90	2.540								
464-119-TM29980	214 --	< 0.005	-----								
D464-119-TM29961	214 --	-----	0.045								
CANMET	214 --	-----	2.390								
100000	214 --	-----	< 0.005								

CERTIFICATE OF

Alexandre 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
DETOUR LAKE MINE PROJECT
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : DET LAKE BATCH#121
Comments: ATTN: LORNE WARNER

Page Number : 1
Total Pages : 1
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Invoice No. : 19639231
P.O. Number : 439
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CERTIFICATE OF ANALYSIS A9639231

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
464-119-TM29981	208 226	0.010	-----									
464-119-TM29982	208 226	0.010	-----									
464-119-TM29983	208 226	0.190	-----									
464-119-TM29984	208 226	0.180	-----									
464-119-TM29988	208 226	0.040	-----									
464-119-TM29989	208 226	0.030	-----									
464-119-TM29990	208 226	< 0.005	-----									
464-119-TM29991	208 226	0.020	-----									
464-119-TM29992	208 226	< 0.005	-----									
464-119-TM29993	208 226	0.030	-----									
464-119-TM29995	214 --	3.25	-----									
464-119-TM29996	208 226	0.020	-----									
464-119-TM29997	208 226	0.010	-----									
464-119-TM29998	208 226	0.065	-----									
464-119-TM29999	208 226	0.075	-----									
464-119-TM30000	214 --	< 0.005	-----									
D464-119-TM29981	214 --	-----	0.010									
100560	214 --	-----	1.420									
100000	214 --	-----	< 0.005									

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Alexandre 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
 DETOUR LAKE MINE PROJECT
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : DET LAKE BATCH#122
 Comments: ATTN: LORNE WARNER

Page Number : 1
 Total Pages : 1
 Certificate Date: 12-NOV-96
 Invoice No. : 19639232
 P.O. Number : 439
 Account : MOE

CERTIFICATE OF ANALYSIS A9639232

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
464-119-TM40001	208 226	0.065	-----									
464-119-TM40003	208 226	0.055	-----									
464-119-TM40004	208 226	0.030	-----									
464-119-TM40005	208 226	0.600	-----									
464-119-TM40006	208 226	0.025	-----									
464-119-TM40007	208 226	0.070	-----									
464-119-TM40008	208 226	0.340	-----									
464-119-TM40009	208 226	0.190	-----									
464-119-TM40010	208 226	0.050	-----									
464-119-TM40015	214 --	3.28	-----									
464-119-TM40016	208 226	3.01	2.810									
464-119-TM40017	208 226	0.060	-----									
464-119-TM40018	208 226	0.005	-----									
464-119-TM40019	208 226	0.025	-----									
464-119-TM40020	214 --	< 0.005	-----									
D464-119-TM40001	214 --	-----	0.075									
CANMET	214 --	-----	2.400									
100000	214 --	-----	< 0.005									

CERTIFICATION

Alexandre Alexandre



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
 DETOUR LAKE MINE PROJECT
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project: DET LAKE BATCH#123
 Comments: ATTN: LORNE WARNER

Page Number :1
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 Invoice No. :19639233
 P.O. Number :439
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CERTIFICATE OF ANALYSIS	A9639233
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SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
464-119-TM40021	208	226	0.040	-----							
464-119-TM40022	208	226	0.070	-----							
464-119-TM40023	208	226	0.255	-----							
464-119-TM40024	208	226	0.005	-----							
464-119-TM40025	208	226	0.030	-----							
464-119-TM40026	208	226	0.005	-----							
464-119-TM40027	208	226	0.010	-----							
464-119-TM40028	208	226	0.160	-----							
464-119-TM40029	208	226	0.035	-----							
464-119-TM40030	208	226	< 0.005	-----							
464-119-TM40031	208	226	1.120	1.570							
464-119-TM40032	208	226	0.385	-----							
464-119-TM40033	208	226	0.030	-----							
464-119-TM40034	208	226	0.085	-----							
464-119-TM40035	214	--	3.29	-----							
464-119-TM40036	208	226	0.020	-----							
464-119-TM40037	208	226	0.850	-----							
464-119-TM40038	208	226	0.065	-----							
464-119-TM40039	208	226	0.060	-----							
464-119-TM40040	214	--	< 0.005	-----							
D464-119-TM40021	214	--	-----	0.045							
100560	214	--	-----	1.480							
100000	214	--	-----	< 0.005							

CERTIFICATE OF ANALYSIS
Alexandra Alexandre



Laboratoires Chemex Ltee.

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

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

Page Number : 1
 Total Pages : 1
 Certificate Date: 12-NOV-96
 Invoice No. : 19639234
 P.O. Number : 439
 Account : MOE

Project : DET LAKE BATCH#124
 Comments: ATTN: LORNE WARNER

CERTIFICATE OF ANALYSIS

A9639234

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
464-119-TM40041	208 226	0.070	-----									
464-119-TM40042	208 226	0.025	-----									
464-119-TM40043	208 226	0.015	-----									
464-119-TM40044	208 226	0.075	-----									
464-119-TM40045	208 226	< 0.005	-----									
464-119-TM40048	208 226	0.050	-----									
464-119-TM40049	208 226	0.040	-----									
464-119-TM40050	208 226	0.010	-----									
464-119-TM40051	208 226	0.010	-----									
464-119-TM40052	208 226	1.750	1.920									
464-119-TM40053	208 226	0.050	-----									
464-119-TM40054	208 226	0.100	-----									
464-119-TM40055	214 --	3.12	-----									
464-119-TM40056	208 226	0.190	-----									
464-119-TM40057	208 226	0.325	-----									
464-119-TM40058	208 226	0.025	-----									
464-119-TM40059	208 226	0.010	-----									
464-119-TM40060	214 --	< 0.005	-----									
D464-119-TM40041	214 --	-----	0.080									
CANMET	214 --	-----	2.260									
100000	214 --	-----	< 0.005									

CERTIFICATION

Aliciana Alexandre



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
 DETOUR LAKE MINE PROJECT
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : DET LAKE BATCH#125
 Comments: ATTN: LORNE WARNER

Page Number : 1
 Total Pages : 1
 Certificate Date: 14-NOV-96
 Invoice No. : 19639235
 P.O. Number : 439
 Account : MOE

CERTIFICATE OF ANALYSIS

A9639235

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
464-119-TM40061	208 226	0.565	-----								
464-119-TM40062	208 226	0.020	-----								
464-119-TM40063	208 226	0.070	-----								
464-119-TM40064	208 226	0.035	-----								
464-119-TM40065	208 226	0.100	-----								
464-119-TM40066	208 226	0.050	-----								
464-119-TM40067	208 226	0.070	-----								
464-119-TM40068	208 226	0.040	-----								
464-119-TM40069	208 226	0.040	-----								
464-119-TM40070	208 226	0.025	-----								
464-119-TM40071	208 226	0.040	-----								
464-119-TM40072	208 226	0.045	-----								
464-119-TM40073	208 226	0.060	-----								
464-119-TM40074	208 226	0.065	-----								
464-119-TM40075	214 --	2.92	-----								
464-119-TM40076	208 226	0.080	-----								
464-119-TM40077	208 226	1.360	1.810								
464-119-TM40078	208 226	0.740	-----								
464-119-TM40079	208 226	0.735	-----								
464-119-TM40080	214 --	0.005	-----								
D464-119-TM40061	214 --	-----	0.590								
100560	214 --	-----	1.340								
100000	214 --	-----	< 0.005								

CERTIFIED *Adriana 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
DETOUR LAKE MINE PROJECT
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : DET LAKE BATCH#126
Comments: ATTN: LORNE WARNER

Page Number : 1
Total Pages : 1
Certificate Date: 13-NOV-96
Invoice No. : I9639236
P.O. Number : 439
Account : MOE

CERTIFICATE OF ANALYSIS

A9639236

SAMPLE	PREP CODE	Au g/t FA+AA	Au check																	
464-119-TM40081	208	226	0.030	-----																

CERTIFICATION: *Adriana Alexandra*



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

Project: 464
Comments: ATN: Lorne Warner

Page Number :1
Total Pages :1
Certificate Date: 12-NOV-96
Invoice No. :19639242
P.O. Number :
Account :MOE

CERTIFICATE OF ANALYSIS

A9639242

SAMPLE	PREP CODE	Au tot g/t	Au - g/t	Au + mg	Wt. - grams	Wt. + grams	Au g/t	Au check			
464-119-TM29972	230 294	1.98	1.66	0.653	1890	27.59	1.63	1.680			
464-119-TM29973	230 294	0.38	0.37	0.031	2522	27.50	0.40	0.330			
464-119-TM29974	230 294	0.08	0.07	0.010	1216	27.07	0.07	0.060			
464-119-TM29977	230 294	< 0.07	< 0.07	0.005	1862	19.38	< 0.03	0.060			
464-119-TM29985	230 294	< 0.07	< 0.07	< 0.002	1351	26.65	< 0.03	< 0.030			
464-119-TM29986	230 294	0.79	0.77	0.054	1679	25.55	0.74	0.800			
464-119-TM29987	230 294	< 0.07	< 0.07	0.003	1985	26.70	0.04	0.030			
464-119-TM29994	230 294	2.18	2.13	0.149	1791	26.47	2.23	2.020			
464-119-TM40002	230 294	4.76	4.75	0.140	1278	26.73	4.66	4.830			
464-119-TM40011	230 294	0.30	0.29	0.015	1800	17.63	0.30	0.280			
464-119-TM40012	230 294	46.78	44.70	4.188	1519	22.02	43.62	45.77			
464-119-TM40013	230 294	0.11	0.11	0.006	1527	24.76	0.11	0.110			
464-119-TM40014	230 294	< 0.07	< 0.07	0.011	1314	22.91	< 0.03	< 0.030			
464-119-TM40046	230 294	1.19	1.17	0.051	1443	23.11	1.29	1.050			
464-119-TM40047	230 294	< 0.07	< 0.07	< 0.002	1777	24.34	< 0.03	< 0.030			

CERTIFICATE OF

Alicia Alexander

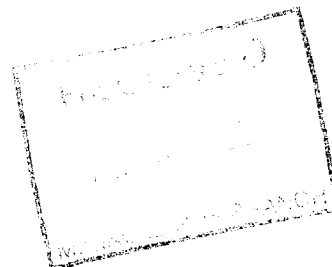
*** DETOUR LAKE MINEX ***
 PLACER DOME CANADA INC.

Drill Hole: 464-120

Date: 1st Mar, 1997
 Northing : 20475.00
 Easting : 17060.00
 Elevation : 6282.00
 Hole Depth : 98.00mt

Project ID : 464
 Core Size : NQ
 Date Logged : 14OCT96
 Logged By : PDT
 Assisted by :

MINING CLAIM NUMBER:: CLM 231
 SURVEYED:: NO
 DATE LOGGING STARTED:: OCTOBER 14, 1996
 DATE LOGGING ENDED:: OCTOBER 15, 1996
 LOGGED BY:: PAUL TURNBULL
 GEOTECHNICIAN:: GRAEME LILLIE
 PURPOSE:: TO TEST SHALLOW M-ZONE
 DRILLING STARTED:: OCTOBER 13, 1996
 DRILLING COMPLETED:: OCTOBER 15, 1996
 DRILLING CONTRACTOR:: BRADLEY BROTHERS DRILLING LIMITED
 DRILL CORE STORAGE LOCATION:: DETOUR LAKE MINE
 ROUTINE FIRE ASSAY SAMPLES:: TM40082-TM40135, TM40139,140, TM40142-146
 METALLIC SAMPLES:: TM40136-138, TM40141



Drill Hole Survey Data
 Depth Azimuth Dip
 Collar 180.00 -45.00
 50.00 190.00 -45.00
 95.00 180.00 -43.00

Grid Azimuth: 0.00
 Coord System:

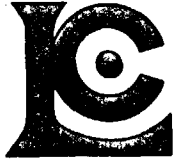
Drillers : BRDL
 Drill date :
 Rig Type : 35
 Drill Time :
 Print Template : GTRAN.FMT
 Gtran Version : 4.2.3

From	To	Geological Description
0.00	42.00	OVERBURDEN . 0.00 0.00 TM40095 QUALITY CONTROL STANDARD 0.00 0.00 TM40100 QUALITY CONTROL BLANK 0.00 0.00 TM40115 QUALITY CONTROL STANDARD 0.00 0.00 TM40120 QUALITY CONTROL BLANK 0.00 0.00 TM40135 QUALITY CONTROL STANDARD 0.00 0.00 TM40140 QUALITY CONTROL BLANK
42.00	68.10	CHLORITIC GREENSTONE with >50% chlorite alteration; +/- talc & biotite bands . The unit is massive A total of 0.3-0.5% quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . trace% pyrite occurs as vein associated . 42.00 42.80 TM40082 42.80 44.00 TM40083 44.00 45.00 TM40084 45.00 46.03 TM40085 46.03 47.00 TM40086 47.00 48.10 TM40087 48.10 48.82 TM40088 48.82 49.63 TM40089 49.63 50.30 TM40090

From	To	Geological Description
	50.30 51.13	TM40091
	51.13 52.00	TM40092
	52.00 53.00	TM40093
	53.00 54.00	TM40094
	54.00 55.00	TM40096
	55.00 56.00	TM40097
	56.00 57.00	TM40098
	56.00 57.00	TM40099 DUPLICATE
	57.00 58.00	TM40101
	58.00 59.04	TM40102
	59.04 60.00	TM40103
	60.00 61.00	TM40104
	61.00 62.00	TM40105
	62.00 63.00	TM40106
	63.00 64.00	TM40107
	64.00 65.00	TM40108
	65.00 66.00	TM40109
	66.00 67.00	TM40110
	67.00 68.10	TM40111
68.10	69.50	FELSIC DYKE(BROWN) . 68.10 69.50 TM40112
69.50	93.75	PILLOWED MAFIC FLOW . A total of 0.5-2% quartz veins occur in this unit. trace% pyrrhotite occurs as vein associated . 0.3-0.5% pyrite occurs as vein associated . trace% chalcopyrite occurs as vein associated . 69.50 70.59 TM40113 70.59 72.00 TM40114 72.00 73.00 TM40116 73.00 74.00 TM40117 74.00 75.00 TM40118 74.00 75.00 TM40119 DUPLICATE 75.00 76.00 TM40121 76.00 77.00 TM40122 77.00 78.00 TM40123 78.00 79.21 TM40124 79.21 80.61 TM40125 80.61 81.34 TM40126 81.34 82.55 TM40127 82.55 83.11 TM40128 83.11 84.00 TM40129 84.00 85.00 TM40130 85.00 86.00 TM40131 86.00 87.00 TM40132 87.00 88.00 TM40133 88.00 89.00 TM40134 89.00 90.00 TM40136 90.00 91.00 TM40137 91.00 92.00 TM40138

From	To	Geological Description
		91.00 92.00 TM40139 DUPLICATE
		92.00 93.00 TM40141
		93.00 93.75 TM40142
93.75	98.00	FELSIC DYKE(BROWN)
		93.75 95.00 TM40143
		95.00 96.00 TM40144
		96.00 97.00 TM40145
		97.00 98.00 TM40146
98.00		** END OF HOLE **

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
 DETOUR LAKE MINE PROJECT
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project: DET LAKE BATCH#127
 Comments: ATTN: LORNE WARNER

Page Number :1
 Total Pages :1
 Certificate Date: 13-NOV-96
 Invoice No. :19639237
 P.O. Number :439
 Account :MOE

CERTIFICATE OF ANALYSIS

A9639237

SAMPLE	PREP CODE	Au g/t FA+AA	Au check									
464-120-TM40082	208 226	0.380	-----									
464-120-TM40083	208 226	1.190	1.510									
464-120-TM40084	208 226	0.260	-----									
464-120-TM40085	208 226	0.700	-----									
464-120-TM40086	208 226	0.330	-----									
464-120-TM40087	208 226	0.090	-----									
464-120-TM40088	208 226	0.055	-----									
464-120-TM40089	208 226	0.130	-----									
464-120-TM40090	208 226	0.020	-----									
464-120-TM40091	208 226	0.090	-----									
464-120-TM40092	208 226	0.040	-----									
464-120-TM40093	208 226	0.095	-----									
464-120-TM40094	208 226	0.090	-----									
464-120-TM40095	214 --	3.22	-----									
464-120-TM40096	208 226	0.025	-----									
464-120-TM40097	208 226	0.030	-----									
464-120-TM40098	208 226	0.080	-----									
464-120-TM40099	208 226	0.080	-----									
464-120-TM40100	214 --	< 0.005	-----									
D464-120-TM40082	214 --	-----	0.385									
100560	214 --	-----	1.480									
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
DETOUR LAKE MINE PROJECT
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : DET LAKE BATCH#128
Comments: ATTN: LORNE WARNER

Page Number :1
Total Pages :1
Certificate Date: 13-NOV-96
Invoice No. :19639238
P.O. Number :439
Account :MOE

CERTIFICATE OF ANALYSIS

A9639238

SAMPLE	PREP CODE		Au g/t FA+AA	Au check							
464-120-TM40101	208	226	0.025	-----							
464-120-TM40102	208	226	0.040	-----							
464-120-TM40103	208	226	0.080	-----							
464-120-TM40104	208	226	0.050	-----							
464-120-TM40105	208	226	1.250	1.170							
464-120-TM40106	208	226	0.060	-----							
464-120-TM40107	208	226	0.440	-----							
464-120-TM40108	208	226	0.085	-----							
464-120-TM40109	208	226	0.100	-----							
464-120-TM40110	208	226	0.300	-----							
464-120-TM40111	208	226	0.250	-----							
464-120-TM40112	208	226	0.025	-----							
464-120-TM40113	208	226	0.100	-----							
464-120-TM40114	208	226	0.015	-----							
464-120-TM40115	214	--	3.10	-----							
464-120-TM40116	208	226	0.015	-----							
464-120-TM40117	208	226	0.010	-----							
464-120-TM40118	208	226	0.025	-----							
464-120-TM40119	208	226	0.025	-----							
464-120-TM40120	214	--	0.005	-----							
D464-120-TM40101	214	--	-----	0.025							
CANMET	214	--	-----	2.500							
100000	214	--	-----	< 0.005							

CERTIFICATION:

Adriana 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
 DETOUR LAKE MINE PROJECT
 823 BIRCH ST. S., P.O. BOX 960
 TIMMINS, ON
 P4N 7H1

Project : DET LAKE BATCH#129
 Comments: ATTN: LORNE WARNER

Page Number : 1
 Total Pages : 1
 Certificate Date: 13-NOV-96
 Invoice No. : 19639239
 P.O. Number : 439
 Account : MOE

CERTIFICATE OF ANALYSIS

A9639239

SAMPLE	PREP CODE	Au g/t FA+AA	Au check								
464-120-TM40121	208 226	< 0.005	-----								
464-120-TM40122	208 226	< 0.005	-----								
464-120-TM40123	208 226	0.010	-----								
464-120-TM40124	208 226	< 0.005	-----								
464-120-TM40125	208 226	0.005	-----								
464-120-TM40126	208 226	0.050	-----								
464-120-TM40127	208 226	0.085	-----								
464-120-TM40128	208 226	0.080	-----								
464-120-TM40129	208 226	0.060	-----								
464-120-TM40130	208 226	0.055	-----								
464-120-TM40131	208 226	0.060	-----								
464-120-TM40132	208 226	0.030	-----								
464-120-TM40133	208 226	0.045	-----								
464-120-TM40134	208 226	0.050	-----								
464-120-TM40135	214 --	3.24	-----								
464-120-TM40140	208 226	0.015	-----								
D464-120-TM40121	214 --	-----	< 0.005								
100560	214 --	-----	1.440								
100000	214 --	-----	< 0.005								

CERTIFICATION: *Alexandre Alexandre*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbark Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

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

Project: DET LAKE BATCH#130
 Comments: ATTN: LORNE WARNER

RECEIVED

NOV 14 1996

Page Number 1
 Total Pages 1
 Certificate Date 13-NOV-96
 Invoice No. I-9639240
 P.O. Number 439
 Account :

CERTIFICATE OF ANALYSIS

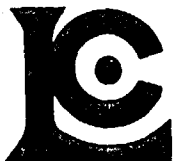
A9639240

SAMPLE DESCRIPTION	PREP CODE	Au g/t FA+AA	Au check						
464-120-TM40142	208 226	0.040	-----						
464-120-TM40143	208 226	0.540	-----						
464-120-TM40144	208 226	0.115	-----						
464-120-TM40145	208 226	0.040	-----						
464-120-TM40146	208 226	0.220	-----						

CERTIFICATION: _____

11/14/96 7:06AM CHEMEX LABS VAX-FAX2

PAGE 001



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
DETOUR LAKE MINE PROJECT
823 BIRCH ST. S., P.O. BOX 960
TIMMINS, ON
P4N 7H1

Project : 464
Comments: ATN: Lorne Warner

Page Number :1
Total Pages :1
Certificate Date: 07-NOV-96
Invoice No. :19639243
P.O. Number :
Account :MOE

CERTIFICATE OF ANALYSIS

A9639243

SAMPLE	PREP CODE		Au tot g/t	Au - g/t	Au + mg	Wt. - grams	Wt. + grams	Au g/t	Au check			
464-120-TM40136	230	294	< 0.07	< 0.07	0.005	1779	32.18	< 0.03	0.030			
464-120-TM40137	230	294	< 0.07	< 0.07	0.072	2021	31.22	0.03	< 0.030			
464-120-TM40138	230	294	0.34	0.34	< 0.002	2117	30.91	0.35	0.320			
464-120-TM40141	230	294	< 0.07	< 0.07	0.002	1921	29.91	0.04	0.030			

CERTIFICATION:



Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use) W9760.00152
Assessment Files Research Imaging

Personal information collected under the Access to Information Act, the information is for the use of the Ministry of Northern Development and Mines. For more information, contact the Ministry at 933 Ramsey Lake Road,



32L04SE0008 2.17450 SUNDAY LAKE

(3) of the Mining Act. Under section 8 of the Act, the assessment work must be done in accordance with the Mining Act and correspond with the mining land holder. For more information, contact the Ministry of Northern Development and Mines, 6th Floor,

900

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.
- Please type or print in ink.

2.17450

1. Recorded holder(s) (Attach a list if necessary)

Name Placer Dome (CLA) Limited/Placer Dome Canada Limited	Client Number 300210
Address PO Box 43, 3201-130 Adelaide Street West	Telephone Number (416) 363-4962
Toronto Ontario M5H 3P5	Fax Number (416) 359-9787
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.

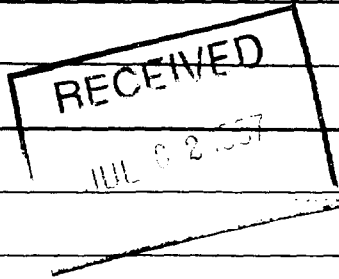
- Geotechnical: prospecting, surveys, assays and work under section 18 (regs) Physical: drilling, stripping, trenching and associated assays Rehabilitation

Work Type 6 ddh totalling 852.57m (holes 464-115 through 120)	Office Use Commodity Total \$ Value of Work Claimed NTS Reference
Dates Work Performed From 17 08 1996 To 05 03 1997	Mining Division Resident Geologist District
Global Positioning System Data (if available)	Township/Area Sunday Lk/W of Sunday Lk M or G-Plan Number G-1677 / G-1680

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 Ryan McEachern - Placer Dome	Telephone Number (705) 267-5400
Address PO Box 960, Timmins ON P4N 7H1	Fax Number (705) 267-5440
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number



4. Certification by Recorded Holder or Agent

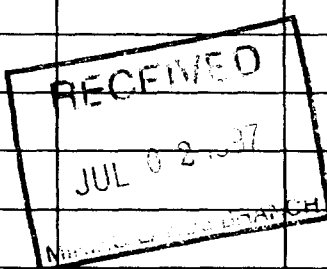
I, Paul Burchell (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent <i>Paul Burchell</i>	Date March 7/97
Agent's Address PO Box 960 Timmins ON P4N 7H1	Telephone Number (705) 267-5400 Fax Number (705) 267-5440

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 G6000004 CLM 229	350 ha	\$27,305	0	\$27,305	0
3 G6000240 CLM 231	302 ha	\$61,799	0	\$61,799	0
4					
5 * see attached Schedule					
6 be applied.					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals		\$89,104	0	\$89,104	0

2.17450



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 Date: 07 March/97

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):
 P1211119 first / P1211120/ P1211121/ P 1211122/ P 1211123/ P1211124
 P123438 last
 * call Ms. Luba Vcislo - Placer Dome (CLA) in Toronto at (416)363-4962 before credits are cut back.

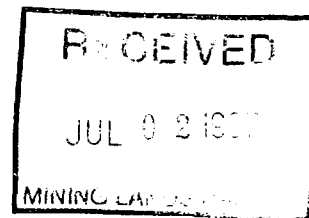
Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp 	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

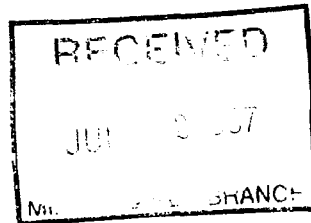
Tenure	Units	\$ Work Performed	\$ Work Applied	\$ Work Assigned	Add to Bank
CLM 229	0	\$13,916	0	13916	0
CLM 229	0	\$13,389	0	13389	0
CLM 231	0	\$14,434	0	14434	0
CLM 231	0	\$19,510	0	19510	0
CLM 231	0	\$17,835	0	17835	0
CLM 231	0	\$10,020	0	10020	0
P1154539	1	0	100	0	0
P1154540	1	0	100	0	0
P1154547	1	0	100	0	0
P1154548	1	0	100	0	0
P1155038	1	0	100	0	0
P1155039	1	0	100	0	0
P1155043	1	0	100	0	0
P1155050	1	0	100	0	0
P1155051	1	0	100	0	0
P1155058	1	0	100	0	0
P1155059	1	0	100	0	0
P1155066	1	0	100	0	0
P1189908	1	0	800	0	0
P1155001	1	0	800	0	0
P1204540	1	0	800	0	0
P1204541	4	0	3200	0	0
P1204542	4	0	3200	0	0
P1204543	1	0	800	0	0
P1204544	3	0	2400	0	0
P1204545	1	0	800	0	0
P1204546	3	0	2400	0	0
P1204547	1	0	800	0	0
P1211119	8	0	1204	0	0
P1211122	3	0	1200	0	0
P1211123	7	0	2400	0	0
P1211124	3	0	1200	0	0
P1213438	8	0	3200	0	0
P1213701	1	0	400	0	0
P1218760	1	0	400	0	0
P1218761	2	0	800	0	0
P1218762	3	0	1200	0	0
P755305	1	0	800	0	0
P755306	1	0	800	0	0
P755307	1	0	800	0	0
P755308	1	0	800	0	0
P755309	1	0	800	0	0
P1154537	1	0	100	0	0
P1154538	1	0	100	0	0
P1154541	1	0	100	0	0
P1154542	1	0	100	0	0
P1154543	1	0	100	0	0
P1154544	1	0	100	0	0
P1154545	1	0	100	0	0
P1154546	1	0	100	0	0
P1154550	1	0	100	0	0

2.17450



Tenure	Units	\$ Work Performed	\$ Work Applied	\$ Work Assigned	Add to Bank
P1155035	1	0	100	0	0
P1155036	1	0	100	0	0
P1155040	1	0	100	0	0
P1155041	1	0	100	0	0
P1155042	1	0	100	0	0
P1155045	1	0	100	0	0
P1155046	1	0	100	0	0
P1155047	1	0	100	0	0
P1155048	1	0	100	0	0
P1155049	1	0	100	0	0
P1155052	1	0	100	0	0
P1155053	1	0	100	0	0
P1155054	1	0	100	0	0
P1155055	1	0	100	0	0
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P1155057	1	0	100	0	0
P1155060	1	0	100	0	0
P1155061	1	0	100	0	0
P1155062	1	0	100	0	0
P1155063	1	0	100	0	0
P1155064	1	0	100	0	0
P1155065	1	0	100	0	0
P1189624	16	0	12800	0	0
P1189626	2	0	1600	0	0
P1189627	6	0	4800	0	0
P1189628	12	0	9600	0	0
P1189629	1	0	800	0	0
P1189630	1	0	800	0	0
P1189631	6	0	4800	0	0
P1189904	12	0	9600	0	0
P1189905	2	0	1600	0	0
P1189906	2	0	1600	0	0
P1218759	12	0	4800	0	0
		\$89,104	89104	89104	0

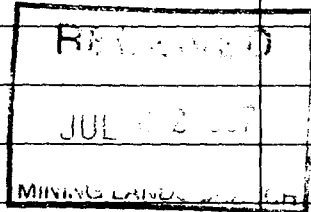
2.17450



Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. 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.

2.17430

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
diamond drilling	852.57m 6 ddh	varies	\$63,431
assays	621 FA+AA	\$14.85	\$ 9,222
assays	174 metallics	\$45.35	\$ 7,891
salaries	geologists, 21 days	\$250/day	\$ 5,250
salaries	geotech, 13 days	\$150/day	\$ 1,950
Associated Costs (e.g. supplies, mobilization and demobilization).			
Transportation Costs			
Food and Lodging Costs			
room + board on site	34 days	\$40/day	\$ 1,360
Total Value of Assessment Work			\$89,104



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 × 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 BURCHELL (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 or the accompanying Declaration of Work form as JUNIOR GEOLOGIST I am authorized (recorded holder, agent, or state company position with signing authority) to make this certification.

Signature: Paul Burchell Date: March 7/97

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines



Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

July 4, 1997

Gary White
Mining Recorder
Ontario Government Complex
P.O. Bag 3060, Hwy 101 East
South Porcupine, ON
P0N 1H0

Telephone: (705) 670-5853
Fax: (705) 670-5863

Dear Sir or Madam:

Submission Number: 2.17450

Status

Subject: Transaction Number(s): W9760.00152 Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

NOTE: This correspondence may affect the status of your mining lands. Please contact the Mining Recorder to determine the available options and the status of your claims.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at beneteau_s@torv05.ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Ron C. Gashinski".

ORIGINAL SIGNED BY
Ron C. Gashinski
Senior Manager, Mining Lands Section
Mines and Minerals Division

Work Report Assessment Results

Submission Number: 2.17450

Date Correspondence Sent: July 04, 1997

Assessor: Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9760.00152	CLM 229	SUNDAY LAKE, WEST OF SUNDAY LAKE	Deemed Approval	June 05, 1997

Section:

10 Physical PDRILL

Correspondence to:

Mining Recorder
South Porcupine, ON

Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

Paul Burchell
TIMMINS, ONTARIO

PLACER DOME (CLA) LIMITED
TORONTO, ON

KATTAWAGAMI RIVER G-1639



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.

NEWHAM CREEK G-1658

SUNDAY LAKE G-1677

HOPPER LAKE G-1636

REFERENCES

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

AREA REOPENED BY ORDER # NRO 27/85
JULY 22, 1985 S.R.O.

THIS TWP. IS SUBJECT TO FORESTRY ACTIVITIES IN 1994/95 FURTHER INFORMATION AVAILABLE ON FILE.
THIS TOWNSHIP IS SUBJECT TO FORESTRY OPERATIONS IN 1996/97 FURTHER INFORMATION ON FILE.

Received Aug 18/83

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 MUSKE
- MINES
- TRAVELSE MONUMENT

RECEIVED
JUL 2 1997
MINING CLAIMS BRANCH

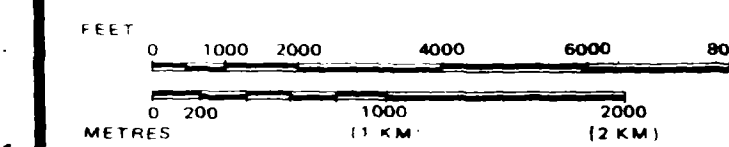
DISPOSITION OF CROWN LANDS

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 8, 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1910, CHAP. 380, SEC. 53, SUBSEC. 1.

REMOTE TOURIST CAMP

SCALE: 1 INCH = 40 CHAINS



2.17450
PDRILL

AREA

WEST OF
SUNDAY LAKE
M.N.R. ADMINISTRATIVE DISTRICT
COCHRANE
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE



Date DECEMBER 1982

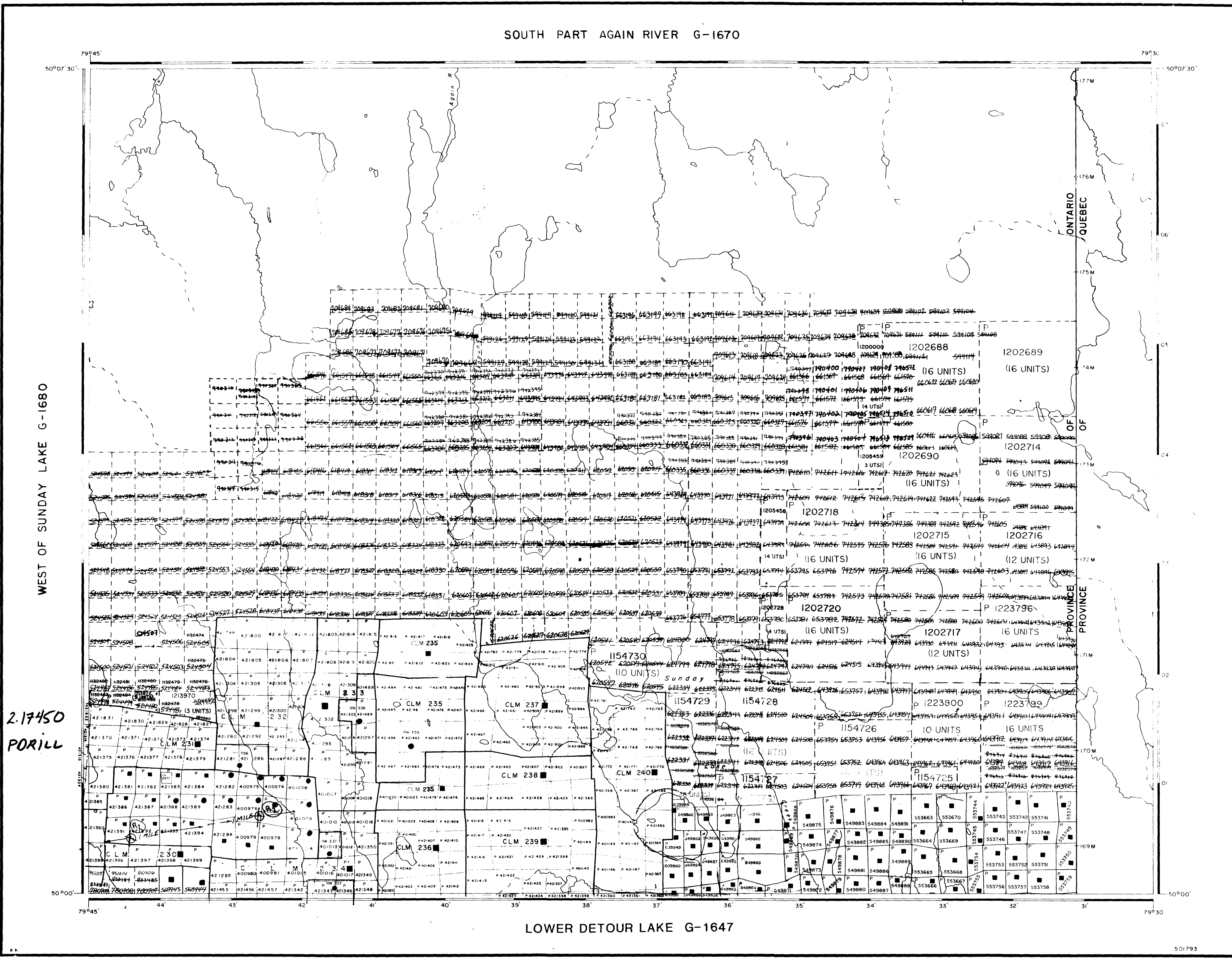
Member

G-1680

501794



SOUTH PART AGAIN RIVER G-1670



REFERENCES

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
(R2)	N.R. 11/81-15/81	SR	10054	
	N.R.O. 27/85	22/7/85	SR	

THIS TOWNSHIP IS SUBJECT TO FORESTRY OPERATIONS IN 1986/87 FURTHER INFORMATION ON 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

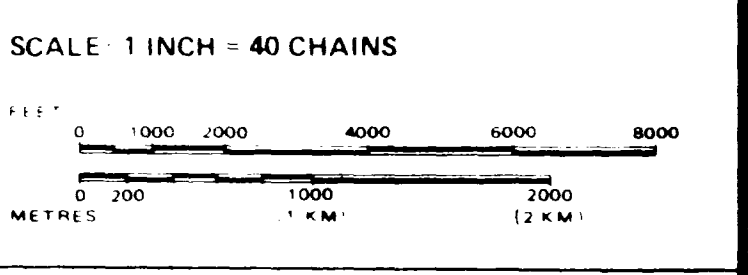
LEGEND

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 COMP. SITE 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 PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1910, CHAP. 30, SEC. 63 SUBSEC. 1



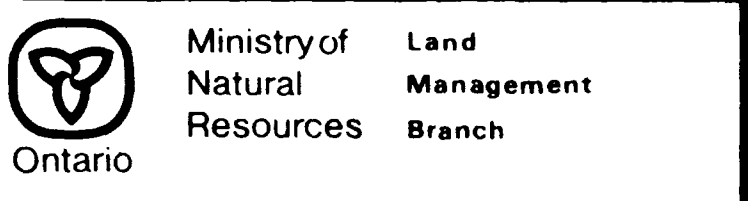
AREA

SUNDAY LAKE

M.N.R. ADMINISTRATIVE DISTRICT
COCHRANE

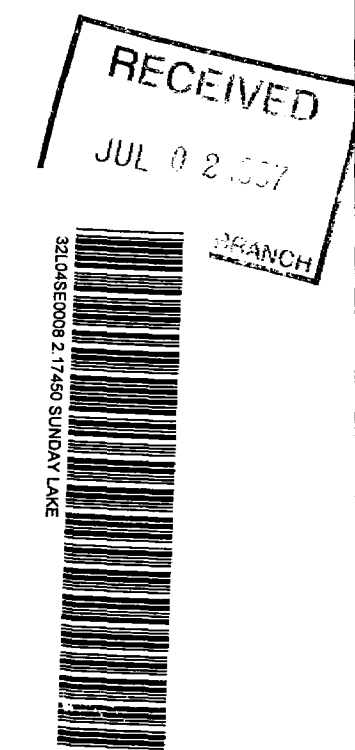
MINING DIVISION
PORCUPINE

LAND TITLES / REGISTRY DIVISION
COCHRANE



Date: DECEMBER 1982

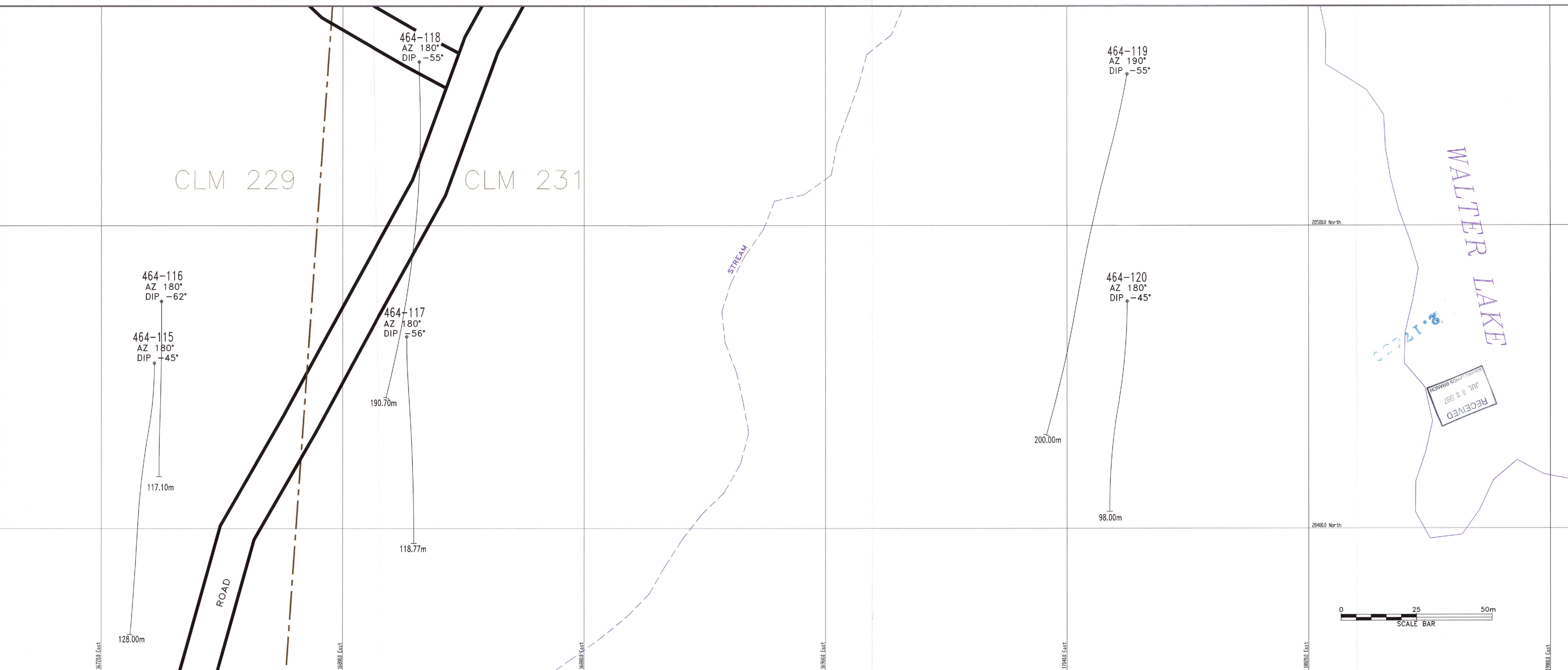
Number: G-1677



WEST OF SUNDAY LAKE G-1680

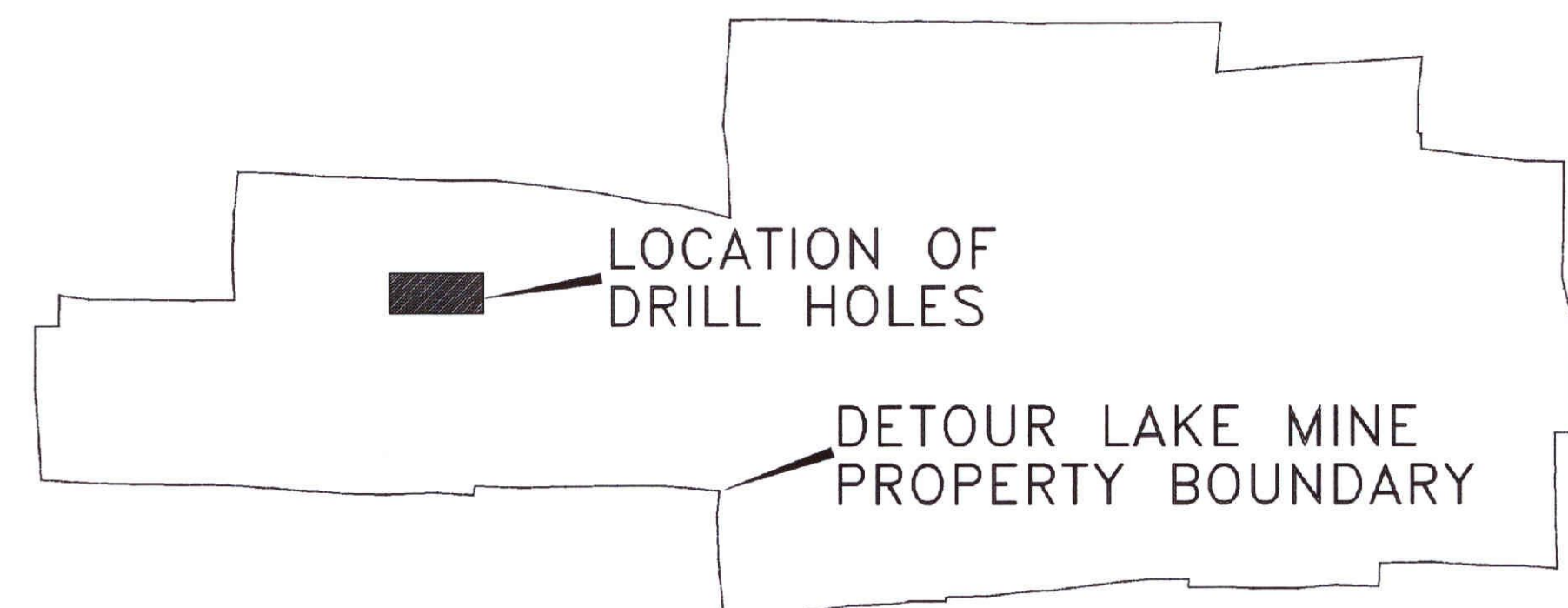
2.17450
PORILL

LOWER DETOUR LAKE G-1647



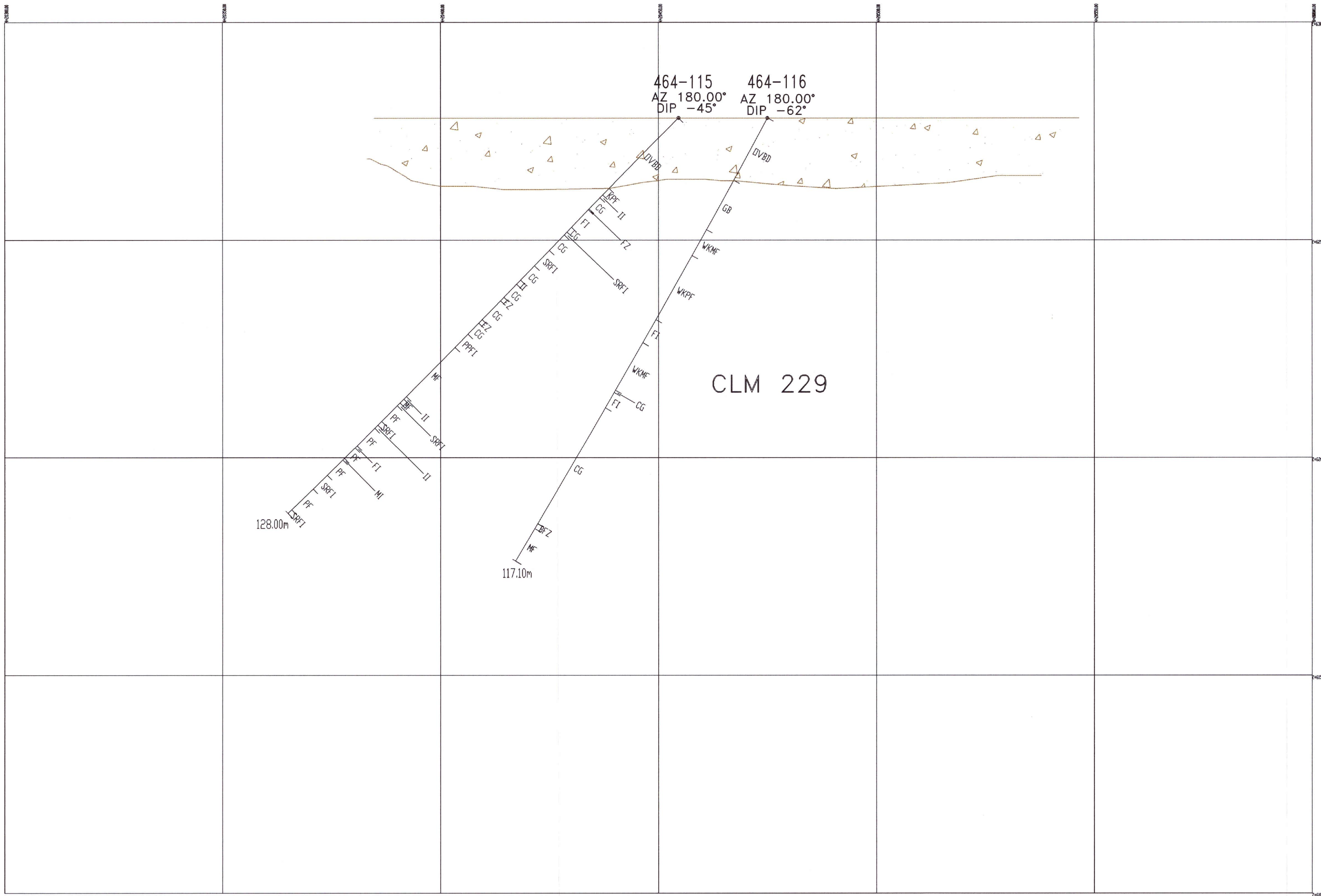
LEGEND

- ROADS
- MINE GRID
- LAKES
- CREEKS
- CLAIM BOUNDARY
- DDH 464-116 - DDH NUMBER
 AZ 180° - AZIMUTH
 DIP -62° - DIP
 - COLLAR



PLACER DOME CANADA LIMITED.
 PROJECT NO. 464
DETOUR LAKE MINE
 PLANMAP

DATE: 3/97	ORIG BY: RM	DWG. NO.
SCALE: 1:1000	NTS REF.: 32L 04	



LEGEND

VOLCANIC UNITS

- MF Mafic Flow
- MT Mafic Tuff
- PF Pillowed Flow
- KMF Potassic Mafic Flow
- KPF Potassic Pillowed Flow
- CMF Carbonatized Mafic Flow
- CPF Carbonatized Pillowed Flow
- SMF Silicified Mafic Flow
- BPF Brecciated Pillowed Flow
- CH "Cherty Marker"
- CHQ "Cherty Marker Equivalent"
- SBV Sulphide Breccia Vein
- SV Sulphide Vein
- TF Intermediate Tuff
- KB Komatiitic Basalt
- CG Chloritic Greenstone
- FWV Footwall Vein (Qtz & Sul)
- KF Komatiitic Flow
- TC Talc Chlorite
- TCB Talc Carbonate
- VC Volcaniclastic Biotite Banding
- FMV Footwall Mafic Volcanic
- TMV Tuffaceous Mafic Volcanic



SEDIMENTARY UNITS

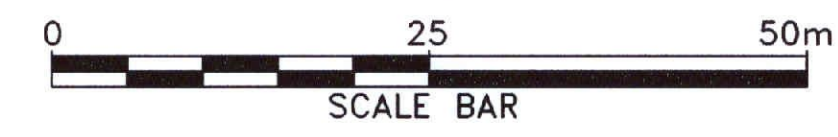
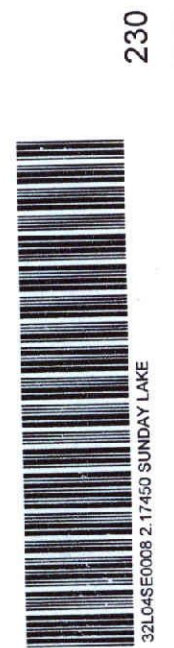
- GWE Greywacke
- SNS Sandstone
- SLS Siltstone
- ARK Arkose
- BDTF Bedded Tuff

INTRUSIVE UNITS

- FI Felsic Intrusive; Local Plag Porph
- II Intermediate Dyke; Grey/Purple
- MI Mafic Intrusive; Green
- GB Gabbro
- HBX Heterolithic Breccia
- UI Ultramafic Intrusive
- GR Granite
- GD Granodiorite
- SY Syenite
- DT Diorite
- FPV Feldspar Porphyry Mafic Intrusive

MISCELLANEOUS

-  OVBD Overburden
-  FZ Fault Zone/Crumbled Core & Gouge



PLACER DOME CANADA LIMITED.

PROJECT NO. 464

DETOUR LAKE MINE

SECTION 16740E

DATE: 3/97	ORIG BY: R.M	DWG.NO.
SCALE: 1:500	DRAWN BY:	
	NTS REF: 32L 04	

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RECEIVED
JUL 0 2 1997
MINING LANDS BRANCH

LEGEND

VOLCANIC UNITS

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- MT Mafic Tuff
- PF Pillowed Flow
- KMF Potassic Mafic Flow
- KPF Potassic Pillowed Flow
- CMF Carbonatized Mafic Flow
- CPF Carbonatized Pillowed Flow
- SMF Silicified Mafic Flow
- BPF Brecciated Pillowed Flow
- CH "Cherty Marker"
- CHQ "Cherty Marker Equivalent"
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- SV Sulphide Vein
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- KB Komatiitic Basalt
- CG Chloritic Greenstone
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- KF Komatiitic Flow
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- TCB Talc Carbonate
- VC Volcaniclastic Biotite Banding
- FMV Footwall Mafic Volcanic
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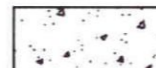

SEDIMENTARY UNITS

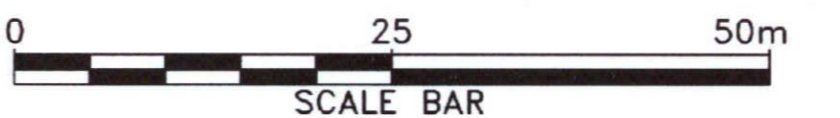
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- SY Syenite
- DT Diorite
- FPV Feldspar Porphyry Mafic Intrusive

MISCELLANEOUS

-  OVBD Overburden
-  FZ Fault Zone/Crumbled Core & Gouge

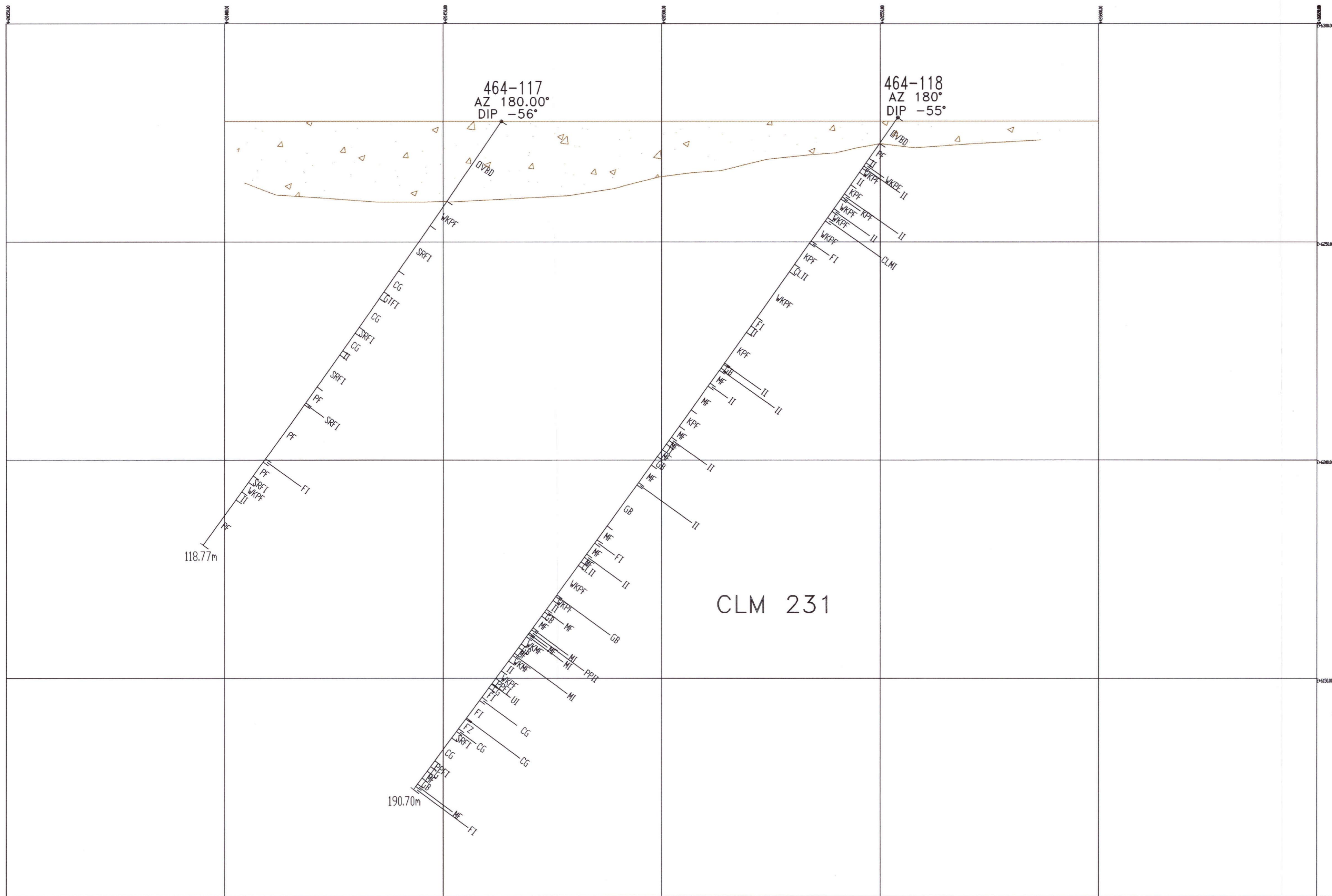


PLACER DOME CANADA LIMITED.

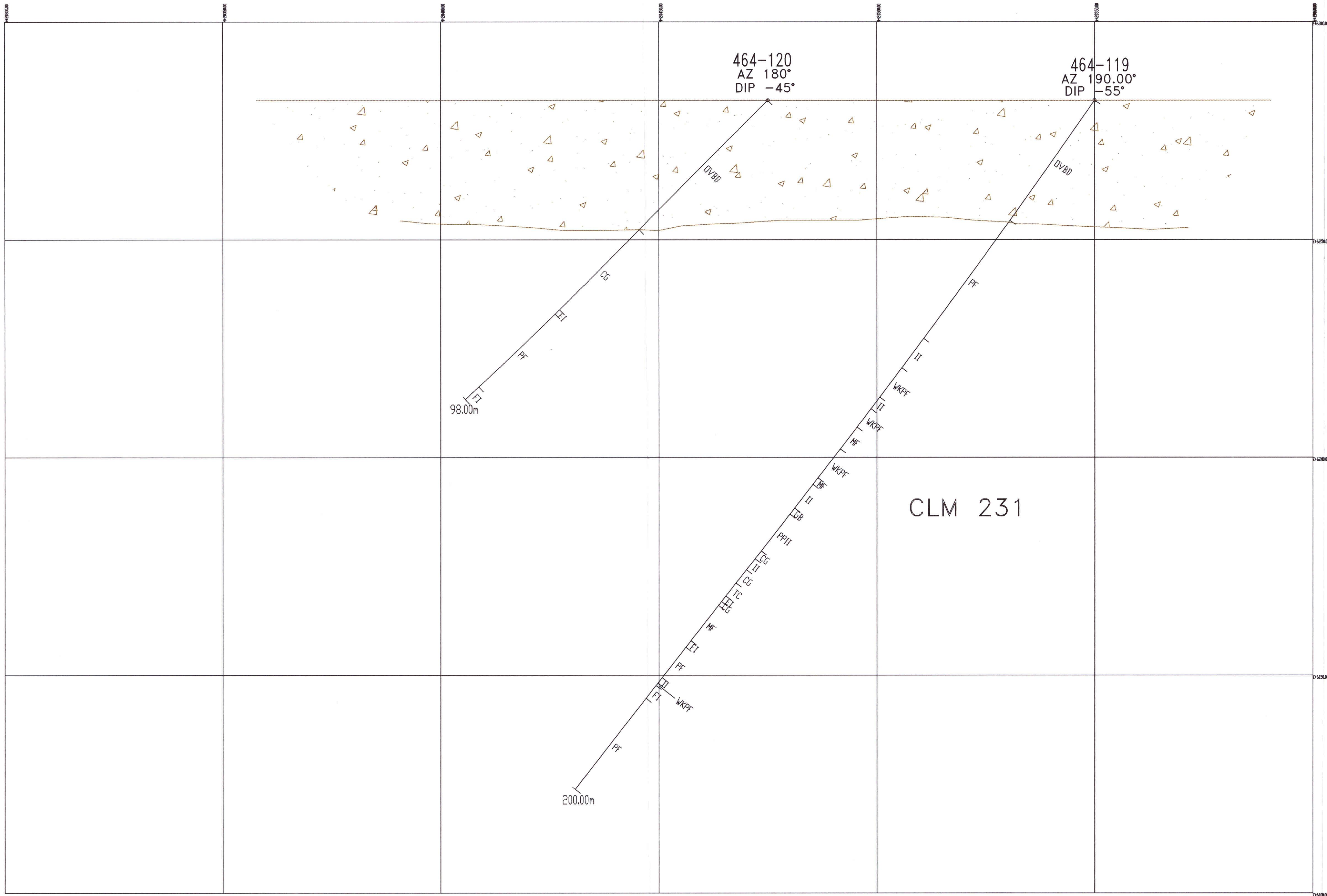
PROJECT NO. 464

DETOUR LAKE MINE
SECTION 16820E

DATE: 3/97	ORIG BY: R.M	DWG. NO.
SCALE: 1:500	DRAWN BY:	
	NTS REF. 32L 04	



2-17450



LEGEND

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- KMF Potassic Mafic Flow
- KPF Potassic Pillowed Flow
- CMF Carbonatized Mafic Flow
- CPF Carbonatized Pillowed Flow
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MISCELLANEOUS

-  OVBD Overburden
-  FZ Fault Zone/Crumbled Core & Gouge



PLACER DOME CANADA LIMITED.

PROJECT NO. 464
DETOUR LAKE MINE
 SECTION 17060E

DATE: 3/97	ORIG BY: R.M	DWG.NO.
SCALE: 1:500	DRAWN BY:	
	NTS REF. 32L 04	

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 JUL 02 1997
 MANNING LAKES BRANCH