

**PLACER DOME CANADA  
MUSSELWHITE GRUBSTAKE (1973)**

**ROCK TYPE LEGEND**

2-17821

<u>Code</u>	<u>Rock Type</u>
Avol	felsic to intermediate volcanics
Bvol	mafic to intermediate volcanics
1	ultramafic
2	basement basalt
4a	chert-grunerite iron formation
4b	chert-magnetite iron formation
4c	quartz-carbonate iron formation
4e	garnet-amphibole iron formation
4ea	chert-grunerite-amphibole-garnet iron formation
4f	garnet-biotite schist
4h	sulphide iron formation
SIF	southern iron formation
QZVN	quartz vein
QCVN	quartz carbonate vein
8	dyke
8a	chloritic dyke
8b	biotitic dyke
lost	lost core
ovbd	overburden
cas	casing

**RECEIVED**  
AUG 07 1997  
9:51 AM  
GEOSCIENCE ASSESSMENT  
OFFICE

*jm*

PLACER DOME CANADA  
MUSSELWHITE GRUBSTAKE (1973)

07 JUN 98 10:10



53B09SW0020 2.17821 ZEEMEL LAKE



**PLACER DOME CANADA**

a division of  
PLACER DOME (CLA) LIMITED

P.O. Box 43  
Suite 3201, 130 Adelaide Street West  
Toronto, Ontario M5H 3P5  
Phone: (416) 363-4962 Fax: (416) 359-9787

**DDH: 506-1036**

**NORTHING:** 8900.45  
**EASTING:** 8850.22

**AZIMUTH:** 147.53  
**DIP:** -84.00

**DRILL DATE:** Nov. 1996

**DATE LOGGED:** Nov. 15, 1996

**LENGTH:** 520.00 metres

**DEPTH TO OVERBURDEN:** 7.20 metres

**LOCATION:** 132m north, 90m west of Post #2 of claim PA 529845

**DRILLED BY:** Midwest Drilling  
180 Cree Crescent  
Winnipeg, Manitoba  
R3J 3W1

**CORE:** CORE STORED ON PROPERTY

**REPRESENTATIVE OF COMPANY RESPONSIBLE FOR DRILL PROGRAM:**

Placer Dome Canada  
Paul Brown  
243 Hammell Road  
General Delivery  
Red Lake, Ontario  
P0V 2M0

signed by PAUL BROWN, Senior Geologist, PDC

Date: 2nd Apr, 1997  
 Northing : 8900.45  
 Easting : 8850.22  
 Elevation : 5307.11  
 Hole Depth : 520.00mt

Project ID : 506E  
 Core Size : NQ  
 Date Logged : 06NOV96  
 Logged By : HBL  
 Assisted by :

**FINAL**

Date edited and initials of editor: LMC  
 Date drilling started (mm/dd/yr): 11/05/96  
 Date drilling finished: 11/15/96  
 Date logging completed: 11/15/96  
 Target zone: T  
 Grid system: EBM  
 Section N: 8900N  
 Survey company: PD  
 Initial down hole survey method: SSIOL  
 Final survey method (if different from initial): LIGHTLOG (LL NOT READABLE)  
 OVBD: 7.2  
 Depth to ledge: 7.2  
 Depth of casing: 7.8  
 Was casing pulled?: NO  
 Type and amount of cement: NO  
 Grout plug installed?: NO  
 Abandoned?: NO  
 Claim #:  
 Post location:  
 Geoteched by: CAT  
 Comments:

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	147.53	-84.00
8.50	147.53	-84.00
28.00	147.53	-84.00
64.00	147.53	-83.75
112.00	147.53	-80.75
178.00	147.53	-76.75
211.00	147.53	-77.00
265.00	147.53	-76.25
292.00	147.53	-75.50
310.00	147.53	-75.50
324.00	147.53	-74.00
367.00	147.53	-71.75
391.00	147.53	-67.75
424.00	147.53	-67.00
490.00	147.53	-66.75
514.00	147.53	-66.75

Grid Azimuth: 317.95  
 Coord System:

Drillers : MW  
 Drill date : NOV96  
 Rig Type :  
 Drill Time :  
 Print Template : GTRAN001.FMT  
 Gtran Version : 3.6.6

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
R		all references to core axis are with respect to**				

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
R		looking down plunge and as they appear in the				
R		core box. all core angle measurements are taken in a				
R		clockwise manner using the toe of the hole as a 0 degree				
R		reference and the collar as a 180 degree reference				
R		for structural data, refer to strip log.				
R		geotechnical data is recorded in dbase iv.				
R		.....				
0.00	7.20	overburden, 100				
7.20	64.72	chert-magnetite iron formation, banded, 80, garnet-biotite schist, laminated, 20, 0.3% blebs pyrrhotite, 3.5% flooded quartz flooding, 7.5% banded biotite, 3.5% porphyroblastic garnet, 0.3% bedded grunerite, 50% banded magnetite <i>R: finely banded chert and magnetite 4b, local chert flooding with blebs of py+po. local occurrences of chert boudins. very fine banding, minor 4e bands. chert bands show small boudins. banding is wider (1-2 cm) banding becomes very fine.</i>	7.20	8.82	AA17834	0.31
			8.82	10.00	AA17836	15.63
			10.00	11.13	AA17837	0.41
			11.13	12.64	AA17838	0.96
			12.64	13.91	AA17839	0.38
			13.91	14.67	AA17841	0.14
			14.67	15.39	AA17842	3.91
			15.39	16.92	AA17843	0.07
			16.92	18.45	AA17844	0.07
			18.45	20.06	AA17845	0.07
			20.06	20.94	AA17846	3.57
			20.94	22.21	AA17848	0.07
			22.21	23.76	AA17849	0.14
			23.76	25.00	AA17850	0.65
			25.00	26.23	AA17851	0.24
			26.23	27.88	AA17852	0.07
			27.88	28.75	AA17853	0.07
			28.75	30.23	AA17854	0.07
			30.23	31.24	AA17856	0.07
			31.24	31.97	AA17857	0.07
			31.97	33.06	AA17858	0.07
			33.06	33.76	AA17859	0.17
			33.76	34.47	AA17861	0.07
			34.47	35.37	AA17862	0.07
			35.37	36.34	AA17863	0.07
			36.34	37.57	AA17864	0.07
			37.57	38.82	AA17865	0.07
			38.82	40.00	AA17866	0.07
			40.00	41.22	AA17867	0.07
			41.22	42.36	AA17869	0.17
			42.36	43.21	AA17870	0.07
			43.21	44.04	AA17871	0.10
			44.04	45.15	AA17872	0.07
			45.15	46.20	AA17873	0.07

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
			46.20	47.00	AA17874	0.07
			47.00	47.54	AA17876	0.07
			47.54	48.55	AA17877	0.07
			48.55	49.55	AA17878	0.07
			49.55	50.75	AA17879	0.07
			50.75	51.75	AA17881	0.07
			51.75	53.29	AA17882	0.07
			53.29	54.68	AA17883	0.07
			54.68	55.42	AA17884	0.41
			55.42	56.27	AA17885	0.41
			56.27	57.61	AA17887	0.07
			57.61	58.94	AA17888	0.07
			58.94	60.41	AA17889	0.07
			60.41	61.73	AA17890	0.07
			61.73	62.68	AA17891	0.07
			62.68	64.00	AA17892	0.07
			64.00	64.72	AA17893	0.07
64.72	65.47	mafic to intermediate volcanics, foliated, 90, garnet-amphibole iron formation, banded, 10, 20% flooded quartz flooding, 5.5% banded green amphibole, 0.3% pervasive chlorite, 3.5% porphyroblastic garnet <i>R: foliated green mafic bvol with less than 10% bands of 4e. *****</i>	64.72	65.47	AA17894	0.07
65.47	71.53	chert-magnetite iron formation, banded, 80, garnet-biotite schist, laminated, 20, 1.5% bedded green amphibole, 9% bedded biotite, 0.8% porphyroblastic garnet, 50% banded magnetite <i>R: chert-magnetite, 4b, with intermixed 4f, 4e and minor bvol. *****</i>	65.47	66.29	AA17896	0.07
			66.29	67.37	AA17897	0.07
			67.37	68.39	AA17898	0.07
			68.39	70.08	AA17899	0.07
			70.08	71.53	AA17901	0.07
71.53	72.44	chert-grunerite-amphibole-garnet iron formation, banded, 80, chert-magnetite iron formation, contorted, 20, 30% banded green amphibole, 15% banded biotite, 10% glomeroporphyroblastic garnet, 10% bedded grunerite <i>R: 4ea with intermixed narrow bands of 4b. *****</i>	71.53	72.44	AA17902	0.07
72.44	115.53	chert-magnetite iron formation, banded, 80, garnet-biotite schist, laminated, 20, 0.1% speck(s) pyrrhotite, 15% bedded biotite, 5.5% porphyroblastic garnet, 0.3% bedded grunerite, 50% bedded magnetite <i>R: 4b with intermixed 4f plus lesser amounts of 4e/4ea. core very broken up (discing). *****</i>	72.44	73.49	AA17903	0.07
			73.49	74.00	AA17904	0.07
			74.00	75.02	AA17905	0.07
			75.02	76.00	AA17906	0.07
			76.00	76.69	AA17908	0.07
			76.69	77.50	AA17909	0.07
			77.50	78.44	AA17910	0.62
			78.44	79.04	AA17911	0.17
			79.04	79.95	AA17912	0.27
			79.95	80.70	AA17913	0.07
			80.70	81.43	AA17914	0.07
			81.43	82.44	AA17916	0.10
			82.44	83.55	AA17917	0.07
			83.55	84.28	AA17918	0.07
			84.28	85.10	AA17919	0.07
			85.10	86.10	AA17921	0.07

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
			86.10	86.52	AA17922	0.07
			86.52	87.48	AA17923	0.07
			87.48	88.00	AA17924	0.89
			88.00	89.08	AA17925	0.14
			89.08	89.94	AA17926	0.07
			89.94	90.60	AA17927	0.07
			90.60	91.36	AA17928	0.07
			91.36	92.32	AA17929	0.07
			92.32	93.10	AA17930	0.31
			93.10	93.94	AA17932	0.07
			93.94	94.83	AA17933	0.07
			94.83	95.68	AA17934	0.07
			95.68	96.55	AA17936	0.14
			96.55	97.78	AA17937	0.07
			97.78	98.69	AA17938	0.07
			98.69	100.00	AA17939	0.07
			100.00	101.12	AA17941	0.38
			101.12	102.12	AA17942	0.07
			102.12	103.28	AA17943	0.55
			103.28	104.45	AA17944	0.07
			104.45	105.30	AA17945	0.14
			105.30	106.16	AA17947	0.07
			106.16	107.22	AA17948	0.07
			107.22	108.22	AA17949	0.07
			108.22	109.00	AA17950	0.07
			109.00	109.83	AA17951	0.21
			109.83	110.89	AA17952	0.07
			110.89	111.89	AA17953	0.07
			111.89	112.46	AA17954	0.07
			112.46	113.28	AA17956	0.07
			113.28	114.22	AA17957	0.07
			114.22	115.00	AA17958	0.07
			115.00	115.53	AA17959	0.07
115.53	144.68	chert-magnetite iron formation, banded, 100, 0.1% speck(s) pyrrhotite, 0.3% banded carbonate, 50% banded magnetite <i>R: banded chert-magnetite with trace amount of po. pale yellow carb occurring along bedding plane b/n chert and magnetite. *****</i>	115.53	116.84	AA17961	0.07
			116.84	118.00	AA17962	0.07
			118.00	119.00	AA17963	0.07
			119.00	120.00	AA17964	0.07
			120.00	121.00	AA17965	0.07
			121.00	122.00	AA17966	0.07
			122.00	123.00	AA17967	0.07
			123.00	124.00	AA17968	0.10
			124.00	125.00	AA17969	0.07
			125.00	126.00	AA17970	0.07
			126.00	127.00	AA17971	0.07
			127.00	128.00	AA17972	0.07
			128.00	129.03	AA17974	0.07
			129.03	130.00	AA17976	0.48
			130.00	131.00	AA17977	0.51
			131.00	132.00	AA17978	0.07

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
			132.00	133.00	AA17979	0.07
			133.00	133.85	AA17981	0.31
			133.85	134.70	AA17982	1.23
			134.70	135.83	AA17983	0.17
			135.83	137.00	AA17984	0.17
			137.00	137.64	AA17985	0.27
			137.64	138.44	AA17986	0.51
			138.44	139.00	AA17987	0.82
			139.00	139.63	AA17988	0.79
			139.63	141.00	AA17990	0.72
			141.00	142.00	AA17991	0.07
			142.00	143.00	AA17992	0.38
			143.00	143.37	AA17993	2.43
			143.37	144.10	AA17994	0.69
			144.10	144.68	AA17996	0.75
144.68	153.73	chert-magnetite iron formation, banded, 90, garnet-biotite schist, 10, 0.3% patchy pyrrhotite, 3.5% flooded quartz flooding, 9% banded biotite, 0.3% banded carbonate, 0.8% porphyroblastic garnet, 50% banded magnetite <i>R: banded chert-magnetite with occasional intermixed bands of 4f. a 5-10 cm wide quartz vein observed at the lower contact with intense po mineralization above and below it. *****</i>	144.68	145.36	AA17997	1.78
			145.36	145.80	AA17998	0.45
			145.80	146.39	AA17999	0.48
			146.39	147.13	AA18001	0.07
			147.13	148.08	AA18002	0.07
			148.08	148.86	AA18003	0.07
			148.86	149.51	AA18004	0.07
			149.51	150.61	AA18005	0.07
			150.61	151.56	AA18006	0.07
			151.56	152.55	AA18007	0.07
			152.55	153.00	AA18008	0.07
			153.00	153.73	AA18010	0.14
153.73	169.27	basement basalt, foliated, 100, schistose, 3.5% pervasive biotite, 10% coatings carbonate, 50% pervasive chlorite <i>R: foliated green to dark green 2vol. unit is well chloritized gainy texture. *****</i>	153.73	154.51	AA18011	0.07
			168.72	169.27	AA18012	0.07
169.27	169.90	chert-magnetite iron formation, banded, 50, basement basalt, foliated, 50, 0.3% blebs pyrrhotite, 30% banded magnetite <i>R: intermixed chert-magnetite and 2vol *****</i>	169.27	169.90	AA18013	0.72
169.90	217.20	basement basalt, foliated, 100, schistose, 0.1% blebs pyrrhotite, 3.5% pervasive biotite, 10% coatings carbonate, 50% pervasive chlorite, 0.3% banded magnetite <i>R: foliated green to dark green 2vol. unit is well chlorited grainy texture. rare and isolated occurrence of 4b. weakly magnetic in patches. *****</i>	169.90	171.82	AA18014	0.07
			173.07	173.48	AA18016	0.07
			175.00	175.94	AA18017	0.07
			177.80	178.34	AA18018	0.07
			182.32	182.96	AA18019	0.07
			182.96	183.65	AA18021	0.07
			184.52	185.09	AA18022	0.07
			190.25	191.00	AA18023	0.07
			201.02	201.62	AA18024	0.07
			202.60	203.48	AA18026	0.07
			212.76	213.26	AA18027	0.07
			215.53	216.46	AA18028	0.07

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
			216.46	217.20	AA18029	0.07
217.20	218.54	chert-magnetite iron formation, banded, 100, 1.5% disseminated pyrrhotite, 0.8% flooded quartz flooding, 0.3% pervasive carbonate, 0.1% porphyroblastic garnet, 50% banded magnetite <i>R: banded chert-magnetite with minor quart flooding near bottom contact. po associated with flooding.</i>	217.20	217.94	AA18030	0.07
			217.94	218.54	AA18031	0.07
218.54	349.10	basement basalt, foliated, 100, schistose, 0.3% blebs pyrrhotite, 3.5% pervasive biotite, 10% coatings carbonate, 50% pervasive chlorite <i>R: green to dark green foliated mafic to ultramafic unit (2vol). weak banded appears.</i>	218.54	219.38	AA18032	0.07
			223.00	223.64	AA18033	0.07
			223.64	224.70	AA18034	0.07
			224.70	225.22	AA18036	0.07
			225.22	225.79	AA18037	0.07
			225.79	226.61	AA18038	0.07
			226.61	227.16	AA18039	0.07
			227.16	227.95	AA18041	0.07
			227.95	228.66	AA18042	0.07
			234.84	235.53	AA18043	0.07
			238.00	239.00	AA18044	0.07
			246.10	247.07	AA18045	0.07
			247.07	247.97	AA18046	0.07
			247.97	248.58	AA18047	0.07
			254.44	255.20	AA18048	0.07
			255.20	256.36	AA18049	0.07
			268.40	268.96	AA18051	0.07
			268.96	269.45	AA18052	0.07
			275.77	276.56	AA18053	0.07
			277.00	277.84	AA18054	0.07
			277.84	278.40	AA18056	0.07
			279.59	280.42	AA18057	0.07
			281.29	281.90	AA18058	0.07
			285.63	286.10	AA18059	0.07
			286.67	287.20	AA18061	0.07
			287.20	287.55	AA18062	0.07
			288.85	289.54	AA18063	0.07
			291.80	292.42	AA18064	0.07
			296.00	296.56	AA18065	0.07
			298.19	298.98	AA18066	0.07
			301.10	301.84	AA18067	0.07
			304.52	305.33	AA18068	0.07
			314.18	314.69	AA18069	0.07
			317.42	317.96	AA18070	0.07
			318.32	318.72	AA18071	0.07
			322.83	323.57	AA18072	0.07
			325.30	325.89	AA18073	0.07
			331.45	332.09	AA18074	0.07
			338.44	338.79	AA18076	0.07
			343.60	344.49	AA18077	0.07
			347.61	348.19	AA18079	0.07
			348.19	349.10	AA18081	0.07



From	To	Geology	FROM AC01	TO AC01	SAMPLE AC01	AU-FIN AC01
349.10	392.78	chert-magnetite iron formation, thinly banded, 100, 0.1% disseminated pyrrhotite, 0.3% stringers quartz (not floods), 0.1% pervasive carbonate, 0.3% pervasive grunerite, 50% banded magnetite <i>R: tightly banded chert-magnetite, small tight folds through- out. weak pervasive carb, appears to be weakly            gruneritized. trace disseminated po associated with occasional qtz stgs</i> .....	349.10	350.00	AA18082	0.10
			350.00	350.87	AA18083	0.10
			350.87	351.79	AA18084	0.10
			351.79	352.63	AA18086	0.07
			352.63	353.59	AA18087	0.10
			353.59	354.42	AA18088	0.07
			354.42	355.33	AA18089	0.07
			355.33	355.86	AA18090	0.07
			355.86	356.19	AA18091	0.07
			356.19	357.21	AA18092	0.10
			357.21	357.96	AA18093	0.07
			357.96	358.73	AA18094	0.07
			358.73	359.66	AA18096	0.07
			359.66	360.59	AA18097	0.24
			360.59	361.48	AA18098	0.10
			361.48	362.29	AA18099	0.07
			362.29	363.27	AA18101	0.07
			363.27	364.27	AA18102	0.07
			364.27	365.17	AA18103	0.89
			365.17	365.85	AA18104	0.07
			365.85	366.63	AA18105	0.07
			366.63	367.00	AA18106	0.14
			367.00	368.00	AA18107	0.07
			368.00	369.00	AA18109	0.31
			369.00	369.50	AA18110	0.14
			369.50	370.00	AA18111	0.07
			370.00	370.40	AA18112	0.07
			370.40	370.90	AA18113	0.07
			370.90	371.73	AA18114	1.95
			371.73	372.35	AA18116	0.34
			372.35	373.00	AA18117	0.34
			373.00	373.56	AA18118	0.45
			373.56	374.56	AA18119	0.34
			374.56	375.30	AA18121	0.38
			375.30	376.00	AA18122	0.07
			376.00	376.60	AA18123	0.07
			376.60	377.14	AA18124	0.07
			377.14	377.70	AA18125	0.07
			377.70	378.55	AA18126	0.93
			378.55	379.60	AA18127	0.07
379.60	380.28	AA18129	0.31			
380.28	380.62	AA18130	0.17			
380.62	381.62	AA18131	0.72			
381.62	382.54	AA18132	1.10			
382.54	383.36	AA18133	0.21			
383.36	384.04	AA18134	0.07			
384.04	385.00	AA18136	0.07			
385.00	385.86	AA18137	0.07			
385.86	386.83	AA18138	0.07			

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
			386.83	387.70	AA18139	0.07
			387.70	388.26	AA18141	0.07
			388.26	388.80	AA18142	0.07
			388.80	389.30	AA18143	0.07
			389.30	389.77	AA18144	0.07
			389.77	390.32	AA18145	0.07
			390.32	390.90	AA18146	0.07
			390.90	391.73	AA18147	0.07
			391.73	392.33	AA18148	0.07
			392.33	392.78	AA18149	0.07
392.78	419.73	basement basalt, foliated, 100, schistose, 0.1% blebs pyrrhotite, 1.5% stringers quartz (not floods), 10% patchy biotite, 0.8% patchy carbonate, 30% pervasive chlorite <i>R: green to dark green, grainy texture and foliated mafic to ultramafic unit. small quartz stringers seen throughout. pervasive chlorite alteration with patchy occurrences of of biotite alteration. (2vol)</i>	392.78	393.36	AA18151	0.07
			393.36	393.90	AA18152	0.07
			404.16	404.79	AA18153	0.07
			408.39	409.00	AA18154	0.07
			418.77	419.43	AA18156	0.07
419.73	431.33	ultramafic, massive, 100, 0.8% stringers quartz (not floods) <i>R: dark green, massive unit. grainy texture. upper and lower c ontacts appear to be gradational.</i>	429.44	430.20	AA18157	0.07
431.33	451.91	basement basalt, foliated, 100, 0.1% blebs pyrrhotite, 0.3% stringers quartz (not floods), 30% pervasive chlorite <i>R: green to dark green, foliated mafic to ultramafic unit. quartz-carb stringers seen throughout.</i>	434.55	435.07	AA18158	0.07
			436.17	436.75	AA18159	0.07
			446.00	446.40	AA18161	0.07
			451.40	451.91	AA18162	0.07
451.91	461.73	chert-magnetite iron formation, thinly banded, 100, 0.8% wispy pyrrhotite, 1.5% pervasive carbonate, 10% pervasive grunerite, 50% banded magnetite <i>R: thinly band chert-magnetite unit with wisps and blebs of pyrrhotite throughout. weakly prevasive carb. throughout.</i>	451.91	452.82	AA18163	0.07
			452.82	453.61	AA18164	0.07
			453.61	454.51	AA18165	0.07
			454.51	454.96	AA18166	0.07
			454.96	455.57	AA18167	0.07
			455.57	456.48	AA18168	0.07
			456.48	457.19	AA18169	0.07
			457.19	458.00	AA18171	0.07
			458.00	459.00	AA18172	0.07
			459.00	459.84	AA18173	0.07
			459.84	460.52	AA18174	0.07
			460.52	461.27	AA18176	0.07
			461.27	461.73	AA18177	0.07
461.73	468.20	sulphide iron formation, banded, 100, 10% wispy pyrrhotite, 10% veins qtz-calcite veining <i>R: sulphide iron formation, approx. 10% pyrrhotite occurring as fine stringers, blebs, wisps. quartz/chert occurring as bands and floods.</i>	461.73	462.30	AA18178	0.10
			462.30	463.00	AA18179	0.07
			463.00	463.72	AA18180	0.07
			463.72	464.36	AA18181	0.07
			464.36	465.00	AA18182	0.07
			465.00	465.86	AA18183	0.07
			465.86	466.66	AA18184	0.07
			466.66	467.31	AA18185	0.07

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
			467.31	468.20	AA18186	0.07
468.20	520.00	basement basalt, massive, 100, homogeneous, 0.1% blebs pyrrhotite, 5.5% stringers qtz-calcite veining, 0.8% veins quartz (not floods), 30% pervasive chlorite <i>R: green to grey green homogeneous rock with weak foliation. basement basalt. quartz-calcite stringers seen throughout unit occurring at various angles and cross-cutting patterns. between interval 474.3 &amp; 475.0 core very broken up (very sm all pieces) possible faulting.</i>	468.20	468.89	AA18187	0.07
			481.38	481.95	AA18189	0.07
			482.70	483.78	AA18190	0.07
			486.30	486.73	AA18191	0.07
			488.47	489.16	AA18192	0.07
			493.00	494.00	AA18193	0.07
			500.11	500.48	AA18194	0.07
			504.50	505.00	AA18196	0.07
520.00		** END OF HOLE **				



**PLACER DOME CANADA**

a division of  
PLACER DOME (CLA) LIMITED

P.O. Box 43  
Suite 3201, 130 Adelaide Street West  
Toronto, Ontario M5H 3P5  
Phone: (416) 363-4962 Fax: (416) 359-9787

**DDH: 506-1037**

**NORTHING:** 8899.62                      **AZIMUTH:** 45.04  
**EASTING:** 8699.50                      **DIP:** -71.00

**DRILL DATE:** Nov. 1996                      **DATE LOGGED:** Nov. 27, 1996

**LENGTH:** 538.25 metres

**DEPTH TO OVERBURDEN:** 14.37 metres

**LOCATION:** 12m north, 189m east of Post #3 of claim PA 529845

**DRILLED BY:** Midwest Drilling  
180 Cree Crescent  
Winnipeg, Manitoba  
R3J 3W1

**CORE:** CORE STORED ON PROPERTY

**REPRESENTATIVE OF COMPANY RESPONSIBLE FOR DRILL PROGRAM:**

Placer Dome Canada  
Paul Brown  
243 Hammell Road  
General Delivery  
Red Lake, Ontario  
P0V 2M0

signed by PAUL BROWN, Senior Geologist, PDC

Date: 2nd Apr, 1997  
 Northing : 8899.62  
 Easting : 8699.50  
 Elevation : 5308.34  
 Hole Depth : 538.25mt

Project ID : 506E  
 Core Size : NQ  
 Date Logged : 18NOV96  
 Logged By : HBL  
 Assisted by :

**FINAL**

Date edited and initials of editor: LMC  
 Date drilling started (mm/dd/yr): 11/17/96  
 Date drilling finished: 11/26/96  
 Date logging completed: 11/27/96  
 Target zone: T  
 Grid system: EBM  
 Section N: 8900N  
 Survey company: PD  
 Initial down hole survey method: SSIOL  
 Final survey method (if different from initial): LIGHTLOG (LL NOT READABLE)  
 OVBD: 14.37  
 Depth to ledge: 14.37  
 Depth of casing: 15.24  
 Was casing pulled?: NO  
 Type and amount of cement: NO  
 Grout plug installed?: NO  
 Abandoned?: NO  
 Claim #:  
 Post location:  
 Geotched by: C.T.  
 Comments:

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	45.04	-71.00
17.00	45.04	-69.00
50.00	45.04	-69.00
92.00	45.04	-68.50
125.00	45.04	-68.00
170.00	45.04	-68.00
215.00	45.04	-67.50
257.00	45.04	-66.75
293.00	45.04	-66.25
329.00	45.04	-66.00
362.00	45.04	-65.75
413.00	45.04	-64.25
461.00	45.04	-61.50
512.00	45.04	-60.50
538.00	45.04	-59.75

Grid Azimuth: 317.95  
 Coord System:

Drillers : MW  
 Drill date :  
 Rig Type :  
 Drill Time :  
 Print Template : GTRAN001.FMT  
 Gran Version : 3.6.6

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
R		all references to core axis are with respect to*				
R		looking down plunge and are as they appear in the				

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
R		core box. all core angle measurements are taken in a				
R		clockwise manner using the toe of the hole as a				
R		zero degree reference and the collar as a 180 degree re				
R		for structural data, refer to strip log.				
R		geotechnical data is recorded in dbase iv.				
R		*****				
0.00	14.37	overburden, 100 <i>R: boulder till *****</i>				
14.37	88.46	garnet-biotite schist, banded, 90, chert-magnetite iron formation, foliated, 10, 70% banded biotite, 0.3% fracture filling carbonate, 0.8% fracture filling chlorite, 20% interstitial garnet, 5.5% banded magnetite <i>R: biotite-garnet schist with approx. 10% intermixed chert- magnetite. weakly folded.</i> *****				
88.46	115.69	sulphide iron formation, banded, 100, 3.5% wispy pyrrhotite, 3.5% stringers quartz (not floods), 3.5% banded biotite, 0.8% porphyroblastic garnet, 0.3% bedded grunerite, 0.3% stringers magnetite <i>R: approx. 70% chert with fine banding of magnetite, biotite a and pyrrhotite. upper contact at 20% to ca. less than 0.5% grunerite seen within thin bands. *****</i>	88.46	89.29	AA18197	0.14
			89.29	90.28	AA18198	0.21
			90.28	91.15	AA18199	0.07
			91.15	92.00	AA18201	2.57
			92.00	93.00	AA18202	0.10
			93.00	94.00	AA18203	0.65
			94.00	95.00	AA18204	0.07
			95.00	96.00	AA18205	0.07
			96.00	97.00	AA18206	1.27
			97.00	98.00	AA18207	2.23
			98.00	99.00	AA18208	0.07
			99.00	100.00	AA18209	0.17
			100.00	101.00	AA18211	0.17
			101.00	102.00	AA18212	0.07
			102.00	103.00	AA18213	0.07
			103.00	104.12	AA18214	0.07
			104.12	105.00	AA18216	0.07
			105.00	106.00	AA18217	0.07
			106.00	107.00	AA18218	0.07
			107.00	108.00	AA18219	0.07
			108.00	109.00	AA18221	0.14
			109.00	110.00	AA18222	0.07
			110.00	111.00	AA18223	0.07
			111.00	112.00	AA18224	0.10
			112.00	113.00	AA18225	0.10
			113.00	114.00	AA18226	0.07
			114.00	115.00	AA18228	0.07

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
			115.00	115.69	AA18229	0.17
115.69	199.19	ultramafic, homogeneous, 100, foliated, 1.5% stringers quartz (not floods), 0.3% pervasive biotite, 5.5% pervasive chlorite <i>R: grey, fine to medium grained, weak foliation, homogeneous ultramafic unit.</i>	115.69	116.61	AA18230	0.07
			199.19	199.91	AA18231	0.07
199.19	202.00	ultramafic, schistose, 100, 5.5% wispy pyrrhotite <i>R: intensely sheared ultramafic unit with approx. 5-10% po occurring as wisps and blebs.</i>	199.91	200.91	AA18232	0.07
			200.91	202.00	AA18233	0.07
			202.00	202.71	AA18234	0.07
202.00	394.59	basement basalt, homogeneous, 100, foliated, 0.1% blebs pyrrhotite, 0.8% stringers qtz-calcite veining, 1.5% stringers quartz (not floods), 5.5% patchy biotite, 10% pervasive chlorite <i>R: grey to green fine to medium grained moderate foliation, 2vol with an ultramafic component.</i>	207.21	208.28	AA18236	0.07
			208.70	209.52	AA18237	0.07
			290.62	291.44	AA18238	0.07
			291.87	292.09	AA18239	0.07
			363.21	363.59	AA18241	0.07
			371.77	372.54	AA18242	0.07
			377.00	377.85	AA18243	0.07
			383.77	384.56	AA18244	0.07
			393.72	394.59	AA18245	0.07
			394.59	395.00	AA18246	0.07
394.59	479.36	chert-magnetite iron formation, thinly banded, 100, laminated, 0.3% blebs pyrrhotite, 0.8% veins quartz (not floods), 1.5% interstitial grunerite, 50% banded magnetite <i>R: tightly banded chert-magnetite unit with grunerite. less th an 0.3% blebs of pyrrhotite within qtz veining/floods.</i>	395.00	395.74	AA18247	0.07
			395.74	396.11	AA18248	0.34
			396.11	397.00	AA18250	0.07
			397.00	398.00	AA18251	0.10
			398.00	399.00	AA18252	0.07
			399.00	400.00	AA18253	0.07
			400.00	400.59	AA18254	0.07
			400.59	401.00	AA18256	0.07
			401.00	402.00	AA18257	0.69
			402.00	403.00	AA18258	0.07
			403.00	403.36	AA18259	0.07
			403.36	403.94	AA18261	0.07
			403.94	405.00	AA18262	0.07
			405.00	406.00	AA18263	0.07
			406.00	407.00	AA18264	0.07
			407.00	408.00	AA18265	0.07
			408.00	409.00	AA18266	0.07
			409.00	410.00	AA18267	0.14
			410.00	411.00	AA18269	0.07
			411.00	412.00	AA18270	0.07
			412.00	413.00	AA18271	0.07
			413.00	413.54	AA18272	0.07
			413.54	414.00	AA18273	0.07
			414.00	415.00	AA18274	0.07
			415.00	416.00	AA18276	0.07

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
			416.00	417.00	AA18277	0.07
			417.00	418.00	AA18278	0.07
			418.00	419.00	AA18279	0.07
			419.00	420.00	AA18281	0.55
			420.00	421.00	AA18282	0.07
			421.00	422.00	AA18283	0.07
			422.00	423.00	AA18284	0.07
			423.00	424.00	AA18285	0.07
			424.00	425.00	AA18286	0.10
			425.00	426.00	AA18287	0.21
			426.00	426.68	AA18288	0.62
			426.68	427.00	AA18289	2.95
			427.00	428.00	AA18291	0.38
			428.00	429.00	AA18292	0.27
			429.00	430.00	AA18293	0.51
			430.00	431.00	AA18294	0.17
			431.00	432.00	AA18296	0.31
			432.00	433.00	AA18297	0.07
			433.00	434.00	AA18298	0.07
			434.00	434.75	AA18299	0.69
			434.75	435.35	AA18301	3.63
			435.35	436.00	AA18302	0.31
			436.00	437.00	AA18303	0.07
			437.00	438.00	AA18304	0.07
			438.00	439.00	AA18305	0.07
			439.00	440.00	AA18306	0.07
			440.00	441.00	AA18307	0.17
			441.00	442.00	AA18308	0.07
			442.00	443.00	AA18309	0.14
			443.00	444.00	AA18311	0.07
			444.00	445.00	AA18312	0.07
			445.00	446.00	AA18313	0.07
			446.00	447.00	AA18314	0.17
			447.00	448.00	AA18316	0.10
			448.00	449.00	AA18317	0.21
			449.00	450.00	AA18318	0.07
			450.00	451.00	AA18319	0.10
			451.00	452.00	AA18321	0.07
			452.00	453.00	AA18322	0.14
			453.00	454.00	AA18323	1.78
			454.00	455.00	AA18324	0.72
			455.00	456.00	AA18325	0.14
			456.00	457.00	AA18326	0.07
			457.00	458.00	AA18327	0.07
			458.00	459.00	AA18329	0.07
			459.00	460.00	AA18330	0.07
			460.00	461.00	AA18331	0.07
			461.00	462.00	AA18332	0.07
			462.00	463.00	AA18333	0.07
			463.00	464.00	AA18334	0.07



From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
			464.00	465.00	AA18336	0.07
			465.00	466.00	AA18337	0.07
			466.00	467.00	AA18338	0.07
			467.00	468.00	AA18339	0.07
			468.00	469.00	AA18341	0.07
			469.00	470.00	AA18342	0.07
			470.00	471.00	AA18343	0.07
			471.00	472.00	AA18344	0.07
			472.00	473.00	AA18345	0.07
			473.00	474.00	AA18346	0.07
			474.00	475.00	AA18347	0.07
			475.00	475.41	AA18348	0.07
			475.41	476.00	AA18349	0.07
			476.00	477.00	AA18351	0.07
			477.00	478.14	AA18352	0.07
			478.14	478.76	AA18353	0.07
			478.76	479.36	AA18354	0.07
479.36	524.03	basement basalt, foliated, 100, 0.3% stringers qtz-calcite veining, 0.8% pervasive biotite, 0.8% coatings carbonate, 10% pervasive chlorite <i>R: fine grained weakly foliated light green 2vol. *****</i>	479.36	480.21	AA18356	0.07
			523.10	524.03	AA18357	0.07
524.03	537.80	chert-magnetite iron formation, thinly banded, 100, folded, 0.3% blebs pyrrhotite, 0.3% pervasive carbonate, 0.8% banded grunerite, 50% banded magnetite <i>R: tightly banded chert-magnetite. weak presences of grunerite and pyrrhotite. folding throughout unit. *****</i>	524.03	525.00	AA18358	0.07
			525.00	526.00	AA18359	0.07
			526.00	527.00	AA18361	0.07
			527.00	528.00	AA18362	0.07
			528.00	529.00	AA18363	0.07
			529.00	530.00	AA18364	0.07
			530.00	531.00	AA18365	0.07
			531.00	532.00	AA18366	0.07
			532.00	532.62	AA18367	0.07
			532.62	533.14	AA18368	0.07
			533.14	534.00	AA18370	0.07
			534.00	535.00	AA18371	0.07
			535.00	536.00	AA18372	0.07
			536.00	537.00	AA18373	0.07
			537.00	537.80	AA18374	0.07
537.80	538.25	basement basalt, foliated, 100, 10% pervasive chlorite <i>R: light green, weakly foliated 2vol. e.o.h.</i>				
538.25		** END OF HOLE **				



**PLACER DOME CANADA**

a division of  
PLACER DOME (CLA) LIMITED

P.O. Box 43  
Suite 3201, 130 Adelaide Street West  
Toronto, Ontario M5H 3P5  
Phone: (416) 363-4962 Fax: (416) 359-9787

**DDH: 506-1038**

**NORTHING:** 9098.87                      **AZIMUTH:** 56.00  
**EASTING:** 8698.13                      **DIP:** -71.00

**DRILL DATE:** Nov. 1996                      **DATE LOGGED:** Nov. 27, 1996

**LENGTH:** 727.90 metres

**DEPTH TO OVERBURDEN:** 7.69 metres

**LOCATION:** 167m south, 36m east of Post #3 of claim PA 529838

**DRILLED BY:** Midwest Drilling  
180 Cree Crescent  
Winnipeg, Manitoba  
R3J 3W1

**CORE:** CORE STORED ON PROPERTY

**REPRESENTATIVE OF COMPANY RESPONSIBLE FOR DRILL PROGRAM:**

Placer Dome Canada  
Paul Brown  
243 Hammell Road  
General Delivery  
Red Lake, Ontario  
P0V 2M0

signed by PAUL BROWN, Senior Geologist, PDC

\*\*\* Musselwhite \*\*\*  
Placer Dome Canada Limited

Drill Hole: 506-1038

Date: 19th Jun, 1997  
Northing : 9098.87  
Easting : 8698.13  
Elevation : 5304.13  
Hole Depth : 727.90mt

Project ID : 506E  
Core Size : NQ  
Date Logged : 27NOV96  
Logged By : HBL  
Assisted by :

Date edited and initials of editor: LMC  
Date drilling started (mm/dd/yr): 11/27/96  
Date drilling finished: 12/10/96  
Date logging completed: 12/11/96  
Target zone: T  
Grid system: EBM  
Section N: 9100  
Survey company: PD  
Initial down hole survey method: SSIOL  
Final survey method (if different from initial): LL NOT READABLE  
OVBN: 7.69  
Depth to ledge: 7.69  
Depth of casing: 8.09  
Was casing pulled?: N  
Type and amount of cement: N  
Grout plug installed?: N  
Abandoned?: N  
Claim #:  
Post location:  
Geotechd by: W.H.  
Comments:

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	56.00	-71.00
14.00	56.00	-69.25
62.00	56.00	-69.00
104.00	56.00	-68.50
161.00	56.00	-68.75
191.00	56.00	-68.00
224.00	56.00	-67.00
269.00	56.00	-65.75
308.00	56.00	-65.25
344.00	56.00	-64.75
380.00	56.00	-64.75
413.00	56.00	-62.00
467.00	56.00	-63.25
497.00	56.00	-62.75
545.00	56.00	-61.50
596.00	56.00	-61.00
629.00	56.00	-59.50
647.00	56.00	-59.00
665.00	56.00	-58.75
713.00	56.00	-56.00

Grid Azimuth: 317.95  
Coord System:

Drillers : MIDW  
Drill date : NOV96  
Rig Type :  
Drill Time :  
Print Template : GTRAN002.FMT  
Gtran Version : 4.3.0

From	To	Geological Description	FROM A001	TO A001	SAMPLE A001	AU-FINA A001

\*\*\*\*\*  
 All references to core axis are with respect to  
 looking down plunge and are as they appear in the  
 core box. All core angle measurements are taken in a  
 clockwise manner using the toe of the hole as a zero  
 degree reference and the collar as a 180 degree ref.  
 For structural data, refer to the strip log.  
 Geotechnical data is recorded in dbase IV.  
 \*\*\*\*\*

0.00	7.69	overburden 100 Granite boulders, overburden. *****				
7.69	15.96	chert-magnetite iron formation thinly banded 70 garnet-biotite schist schistose 30, Pyrrhotite blebs .1% , Green Amphibole banded 3.5% , Chlorite fracture filling 0.3% , Carbonate fracture filling 0.3% , Grunerite banded 3.5% , Garnet porphyroblastic 10% , Magnetite banded 40% Tightly banded unit of chert-magnetite plus 4F and minor 4EA near the top of the interval. *****				
	7.69	8.60	chert-grunerite-amphibole-garnet iron formation 70 30 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	7.69	8.60	AA18376 0.07
	8.60	9.33	chert-magnetite iron formation 80 20 , Pyrrhotite no 0% , Quartz Flooding no 0%	8.60	9.33	AA18377 0.07
	9.33	10.00	chert-magnetite iron formation 70 30 , Pyrrhotite no 0% , Quartz Flooding no 0%	9.33	10.00	AA18378 0.07
	10.00	11.00	chert-magnetite iron formation 70 30 , Pyrrhotite no 0% , Quartz Flooding no 0%	10.00	11.00	AA18379 0.07
	11.00	12.00	chert-magnetite iron formation 80 20 , Pyrrhotite no 0% , Quartz Flooding no 0%	11.00	12.00	AA18381 0.07
	12.00	13.00	chert-magnetite iron formation 80 20 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	12.00	13.00	AA18382 0.07
	13.00	14.00	chert-magnetite iron formation 70 30 , Pyrrhotite no 0% , Quartz Flooding no 0%	13.00	14.00	AA18383 0.07
	14.00	15.00	chert-magnetite iron formation 70 30 , Pyrrhotite no 0% , Quartz Flooding no 0%	14.00	15.00	AA18384 0.07
	15.00	15.96	chert-magnetite iron formation 70 30 , Pyrrhotite no 0% , Quartz Flooding no 0%	15.00	15.96	AA18386 0.07
15.96	65.70	garnet-biotite schist banded 80 chert-magnetite iron formation folded 20 , Pyrrhotite blebs .1% , Quartz Flooding flooded 3.5% , Green Amphibole banded 0.8% , Chlorite fracture filling 0.3% , Carbonate fracture filling 0.3% , Grunerite pervasive 1.5% , Garnet porphyroblastic 20% Dark brown biotite-garnet schist with approximately 20% chert- magnetite banding and minor occurrence of 4E/4EA. *****				
	15.96	17.00	garnet-biotite schist 100 , Pyrrhotite no 0% , Quartz Flooding no 0%	15.96	17.00	AA18387 0.07
	17.00	18.00	garnet-biotite schist 70 30 , Pyrrhotite no 0% , Quartz Flooding no 0%	17.00	18.00	AA18388 0.07
	18.00	19.00	garnet-biotite schist 80 20 , Pyrrhotite no 0% , Quartz Flooding no 0%	18.00	19.00	AA18389 0.07
	29.68	30.49	garnet-biotite schist 80 20 , Pyrrhotite no 0% , Quartz Flooding no 0%	29.68	30.49	AA18390 0.07
	30.49	31.43	garnet-biotite schist 80 20 , Pyrrhotite no 0% , Quartz Flooding no 0%	30.49	31.43	AA18391 0.07
	31.43	32.40	garnet-biotite schist 80 20 , Pyrrhotite no 0% , Quartz Flooding no 0%	31.43	32.40	AA18392 0.07
	32.40	33.06	garnet-biotite schist 80 20 , Pyrrhotite no 0% , Quartz Flooding no 0%	32.40	33.06	AA18393 0.07
	33.06	33.85	garnet-biotite schist 80 20 , Pyrrhotite no 0% , Quartz Flooding no 0%	33.06	33.85	AA18394 0.07
	33.85	34.84	garnet-biotite schist 90 10 , Pyrrhotite no 0% , Quartz Flooding no 0%	33.85	34.84	AA18396 0.07
	34.84	35.72	garnet-biotite schist 90 10 , Pyrrhotite no 0% , Quartz Flooding no 0%	34.84	35.72	AA18397 0.07
	35.72	36.76	garnet-biotite schist 80 20 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	35.72	36.76	AA18398 0.07
	36.76	37.75	garnet-biotite schist 80 20 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	36.76	37.75	AA18399 0.07
	37.75	38.77	garnet-biotite schist 80 20 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	37.75	38.77	AA18401 0.07

From	To	Geological Description	FROM A001	TO A001	SAMPLE A001	AU-FINA A001
		<b>38.77 39.68</b> garnet-biotite schist 80 20 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	38.77	39.68	AA18402	0.07
		<b>39.68 40.68</b> garnet-biotite schist 90 10 , Pyrrhotite no 0% , Quartz Flooding no 0%	39.68	40.68	AA18403	0.07
		<b>40.68 41.70</b> garnet-biotite schist 90 10 , Pyrrhotite no 0% , Quartz Flooding no 0%	40.68	41.70	AA18404	0.07
		<b>41.70 42.65</b> garnet-biotite schist 90 10 , Pyrrhotite no 0% , Quartz Flooding no 0%	41.70	42.65	AA18405	0.07
		<b>42.65 43.67</b> garnet-biotite schist 80 20 , Pyrrhotite no 0% , Quartz Flooding no 0%	42.65	43.67	AA18406	0.07
		<b>43.67 44.64</b> garnet-biotite schist 80 20 , Pyrrhotite no 0% , Quartz Flooding no 0%	43.67	44.64	AA18407	0.24
		<b>44.64 45.57</b> garnet-biotite schist 90 10 , Pyrrhotite no 0% , Quartz Flooding no 0%	44.64	45.57	AA18409	0.07
		<b>45.57 46.17</b> garnet-biotite schist 80 20 , Pyrrhotite blebs .1% , Quartz Flooding flooded 20%	45.57	46.17	AA18410	0.07
		<b>46.17 46.79</b> garnet-biotite schist 80 20 , Pyrrhotite blebs .1% , Quartz Flooding flooded 30%	46.17	46.79	AA18411	0.07
		<b>46.79 47.73</b> garnet-biotite schist 90 10 , Pyrrhotite blebs .1% , Quartz Flooding flooded 10%	46.79	47.73	AA18412	0.07
		<b>47.73 48.74</b> garnet-biotite schist 90 10 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	47.73	48.74	AA18413	0.07
		<b>48.74 49.40</b> garnet-biotite schist 90 10 , Pyrrhotite blebs .1% , Quartz Flooding flooded 40%	48.74	49.40	AA18414	0.07
		<b>49.40 50.30</b> garnet-biotite schist 90 10 , Pyrrhotite no 0% , Quartz Flooding no 0%	49.40	50.30	AA18416	0.07
		<b>50.30 51.34</b> garnet-biotite schist 90 10 , Pyrrhotite no 0% , Quartz Flooding no 0%	50.30	51.34	AA18417	0.07
		<b>51.34 52.31</b> garnet-biotite schist 90 10 , Pyrrhotite no 0% , Quartz Flooding no 0%	51.34	52.31	AA18418	0.07
		<b>52.31 53.30</b> garnet-biotite schist 90 10 , Pyrrhotite no 0% , Quartz Flooding no 0%	52.31	53.30	AA18419	0.07
		<b>53.30 54.42</b> garnet-biotite schist 100 , Pyrrhotite no 0% , Quartz Flooding no 0%	53.30	54.42	AA18421	0.07
		<b>54.42 55.42</b> garnet-biotite schist 90 10 , Pyrrhotite no 0% , Quartz Flooding no 0%	54.42	55.42	AA18422	0.07
		<b>55.42 56.42</b> garnet-biotite schist 90 10 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	55.42	56.42	AA18423	0.07
		<b>56.42 57.32</b> garnet-biotite schist 90 10 , Pyrrhotite no 0% , Quartz Flooding no 0%	56.42	57.32	AA18424	0.07
		<b>57.32 58.08</b> garnet-biotite schist 90 10 , Pyrrhotite no 0% , Quartz Flooding no 0%	57.32	58.08	AA18425	0.07
		<b>58.08 58.81</b> garnet-biotite schist 90 10 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	58.08	58.81	AA18426	0.07
		<b>58.81 59.60</b> garnet-biotite schist 90 10 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	58.81	59.60	AA18427	0.07
		<b>59.60 60.28</b> garnet-biotite schist 80 20 , Pyrrhotite blebs 0.3% , Quartz Flooding flooded 20%	59.60	60.28	AA18428	0.10
		<b>60.28 61.28</b> garnet-biotite schist 70 30 , Pyrrhotite no 0% , Quartz Flooding no 0%	60.28	61.28	AA18429	0.07
		<b>61.28 62.20</b> garnet-biotite schist 80 20 , Pyrrhotite no 0% , Quartz Flooding no 0%	61.28	62.20	AA18431	0.07
		<b>62.20 63.05</b> garnet-biotite schist 80 20 , Pyrrhotite no 0% , Quartz Flooding no 0%	62.20	63.05	AA18432	0.07
		<b>63.05 64.20</b> garnet-biotite schist 90 10 , Pyrrhotite no 0% , Quartz Flooding no 0%	63.05	64.20	AA18433	0.41
		<b>64.20 64.84</b> garnet-biotite schist 80 20 , Pyrrhotite no 0% , Quartz Flooding no 0%	64.20	64.84	AA18434	0.48
		<b>64.84 65.70</b> garnet-biotite schist 80 20 , Pyrrhotite no 0% , Quartz Flooding no 0%	64.84	65.70	AA18436	0.07
65.70	107.67	garnet-biotite schist banded 100 foliated , Pyrrhotite blebs .1% , Grunerite banded 0.8% , Garnet porphyroblastic 10% , Magnetite banded 3.5% <i>Strongly foliated biotite-garnet schist. weak presence of grunerite throughout unit. Occasional 4E bands.</i> *****				
		<b>65.70 66.73</b> garnet-biotite schist 100 , Pyrrhotite no 0% , Quartz Flooding no 0%	65.70	66.73	AA18437	0.07
		<b>98.00 98.37</b> garnet-biotite schist 90 10 , Pyrrhotite no 0% , Quartz Flooding no 0%	98.00	98.37	AA18438	0.07
		<b>98.37 99.00</b> garnet-biotite schist 90 10 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	98.37	99.00	AA18439	0.07
		<b>106.85 107.67</b> garnet-biotite schist 90 10 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	106.85	107.67	AA18441	0.07
107.67	134.20	ultramafic massive 100 foliated , Chlorite pervasive 10% <i>Lite grey, fine grained, weakly foliated ultramafic unit.</i> *****				
134.20	181.50	basement basalt massive 100 foliated , Pyrrhotite blebs .1% , Quartz Calcite stringers 0.8% , Chlorite pervasive 10% , Carbonate fracture filling 0.3% <i>Lite green to grey, weakly foliated 2Vol unit with a weak ultramafic component. Upper contact between 1 and 2 gradational.</i> *****				
		<b>180.68 181.50</b> basement basalt 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	180.68	181.50	AA18442	0.07

From	To	Geological Description	FROM A001	TO A001	SAMPLE A001	AU-FINA A001
181.50	191.70	mafic to intermediate volcanics foliated 100 banded , Pyrrhotite disseminated 1.5% , Quartz Not in Flooding) stringers 0.8% , Quartz Calcite stringers 0.8% , Chlorite pervasive 3.5% , Carbonate fracture filling 0.3% <i>Lite brown, moderately foliated Bvol. Unit is weak to moderately banded. Upper contact has a bleached appearance with 50 cm of intense pyrrhotite mineralization.</i> *****				
		<b>181.50 182.00</b> mafic to intermediate volcanics 100 , Pyrrhotite disseminated 20% , Quartz Flooding no 0%	181.50	182.00	AA18443	0.07
		<b>182.00 182.64</b> mafic to intermediate volcanics 100 , Pyrrhotite blebs 0.8% , Quartz Flooding flooded 5.5%	182.00	182.64	AA18444	0.07
		<b>182.64 182.70</b> mafic to intermediate volcanics 100 , Pyrrhotite no 0% , Quartz Flooding no 0%	182.64	182.70	AA18445	0.07
		<b>190.75 191.70</b> mafic to intermediate volcanics 100 , Pyrrhotite no 0% , Quartz Flooding no 0%	190.75	191.70	AA18446	0.07
191.70	200.00	chert-magnetite iron formation banded 100 laminated , Pyrrhotite blebs 0.3% , Quartz Flooding patchy 0.3% , Quartz Calcite stringers 5.5% , Chlorite fracture filling 0.3% , Carbonate fracture filling 0.3% , Grunerite banded 0.3% , Magnetite banded 50% <i>Banded chert-magnetite unit, weak presence of grunerite with thin banding. Minor presences of Qtz-carb. stgs throughout unit. Approx. 0.3-0.5% pyrrhotite as blebs and stgs.</i> *****				
		<b>191.70 192.32</b> chert-magnetite iron formation 100 , Pyrrhotite blebs 0.8% , Quartz Flooding no 0%	191.70	192.32	AA18447	1.47
		<b>192.32 193.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs 0.3% , Quartz Flooding no 0%	192.32	193.00	AA18448	0.34
		<b>193.00 194.00</b> chert-magnetite iron formation 100 , Pyrrhotite no 0% , Quartz Flooding no 0%	193.00	194.00	AA18449	0.07
		<b>194.00 194.74</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding flooded 3.5%	194.00	194.74	AA18451	0.07
		<b>194.74 195.34</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding flooded 3.5%	194.74	195.34	AA18452	0.07
		<b>195.34 196.12</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	195.34	196.12	AA18453	0.07
		<b>196.12 197.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs 0.8% , Quartz Flooding no 0%	196.12	197.00	AA18454	0.10
		<b>197.00 197.79</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	197.00	197.79	AA18456	0.07
		<b>197.79 198.76</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	197.79	198.76	AA18457	0.07
		<b>198.76 199.45</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	198.76	199.45	AA18458	0.17
		<b>199.45 200.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	199.45	200.00	AA18459	0.07
200.00	212.60	mafic to intermediate volcanics foliated 100 thinly banded , Pyrrhotite wispy 0.8% , Quartz Not in Flooding) boudins 0.8% , Quartz Calcite wispy 5.5% , Chlorite pervasive 10% <i>Green, foliated Bvol. Unit appears to be a shear zone with quartz boudins throughout. Pyrrhotite present as wisps and blebs (approx. 0.3%)</i> *****				
		<b>200.00 201.00</b> mafic to intermediate volcanics 100 , Pyrrhotite wispy 0.3% , Quartz Flooding no 0%	200.00	201.00	AA18461	0.07
		<b>201.00 202.00</b> mafic to intermediate volcanics 100 , Pyrrhotite wispy 0.3% , Quartz Flooding no 0%	201.00	202.00	AA18462	0.07
		<b>202.00 203.00</b> mafic to intermediate volcanics 100 , Pyrrhotite wispy 0.8% , Quartz Flooding no 0%	202.00	203.00	AA18463	0.17
		<b>203.00 204.00</b> mafic to intermediate volcanics 100 , Pyrrhotite wispy 1.5% , Quartz Flooding no 0%	203.00	204.00	AA18464	0.07
		<b>204.00 205.00</b> mafic to intermediate volcanics 100 , Pyrrhotite wispy 0.8% , Quartz Flooding no 0%	204.00	205.00	AA18465	0.07
		<b>205.00 206.00</b> mafic to intermediate volcanics 100 , Pyrrhotite wispy 3.5% , Quartz Flooding no 0%	205.00	206.00	AA18467	0.07
		<b>206.00 207.00</b> mafic to intermediate volcanics 100 , Pyrrhotite wispy .1% , Quartz Flooding no 0%	206.00	207.00	AA18468	0.07
		<b>207.00 208.00</b> mafic to intermediate volcanics 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	207.00	208.00	AA18469	0.07
		<b>208.00 209.00</b> mafic to intermediate volcanics 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	208.00	209.00	AA18470	0.07
		<b>209.00 210.00</b> mafic to intermediate volcanics 100 , Pyrrhotite wispy 0.8% , Quartz Flooding no 0%	209.00	210.00	AA18471	0.07
		<b>210.00 211.00</b> mafic to intermediate volcanics 100 , Pyrrhotite wispy 0.8% , Quartz Flooding no 0%	210.00	211.00	AA18472	0.07
		<b>211.00 212.00</b> mafic to intermediate volcanics 100 , Pyrrhotite no 0% , Quartz Flooding no 0%	211.00	212.00	AA18473	0.07
		<b>212.00 212.60</b> mafic to intermediate volcanics 100 , Pyrrhotite wispy .1% , Quartz Flooding no 0%	212.00	212.60	AA18474	0.07
212.60	254.15	mafic to intermediate volcanics foliated 100 , Pyrrhotite blebs .1% , Quartz Not in Flooding) stringers 0.8% , Quartz Calcite veins 3.5% , Chlorite pervasive 20%				

From	To	Geological Description	FROM A001	TO A001	SAMPLE A001	AU-FINA A001
		<i>Green to grey, weak to moderately foliated Bvol. *****</i>				
		<b>212.60 213.30</b> mafic to intermediate volcanics 100, Pyrrhotite no 0%, Quartz Flooding no 0%	212.60	213.30	AA18476	0.07
		<b>245.47 246.09</b> mafic to intermediate volcanics 50 50, Pyrrhotite blebs 1.5%, Quartz Flooding no 0%	245.47	246.09	AA18477	0.07
		<b>246.09 246.60</b> mafic to intermediate volcanics 100, Pyrrhotite no 0%, Quartz Flooding no 0%	246.09	246.60	AA18478	0.07
		<b>246.60 247.32</b> mafic to intermediate volcanics 50 50, Pyrrhotite blebs 1.5%, Quartz Flooding no 0%	246.60	247.32	AA18479	0.07
		<b>253.15 254.15</b> mafic to intermediate volcanics 100, Pyrrhotite no 0%, Quartz Flooding no 0%	253.15	254.15	AA18481	0.07
254.15	258.69	chert-magnetite iron formation banded 100 folded, Pyrrhotite blebs .1%, Quartz Not in Flooding) stringers 0.8%, Carbonate patchy 0.3%, Magnetite banded 50% <i>Banded chert-magnetite unit. Trace pyrrhotite. Some folding *****</i>				
		<b>254.15 254.67</b> chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding no 0%	254.15	254.67	AA18482	0.07
		<b>254.67 255.40</b> chert-magnetite iron formation 100, Pyrrhotite blebs 0.3%, Quartz Flooding no 0%	254.67	255.40	AA18483	0.07
		<b>255.40 256.27</b> chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	255.40	256.27	AA18484	0.07
		<b>256.27 257.00</b> chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	256.27	257.00	AA18485	0.07
		<b>257.00 257.90</b> chert-magnetite iron formation 100, Pyrrhotite blebs 0.3%, Quartz Flooding no 0%	257.00	257.90	AA18486	0.10
		<b>257.90 258.69</b> chert-magnetite iron formation 100, Pyrrhotite blebs 1.5%, Quartz Flooding no 0%	257.90	258.69	AA18487	0.07
258.69	270.04	basement basalt foliated 100 schistose, Pyrrhotite blebs 0.3%, Quartz Not in Flooding) veins 1.5%, Quartz Calcite stringers 0.8%, Chlorite pervasive 20%, Carbonate stringers 0.8% <i>Grey to green foliated basalt. Pyrrhotite seen around minor quartz veining. *****</i>				
		<b>258.69 259.76</b> basement basalt 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	258.69	259.76	AA18488	0.07
		<b>259.76 260.33</b> basement basalt 100, Pyrrhotite wispy 0.8%, Quartz Flooding no 0%	259.76	260.33	AA18489	0.07
		<b>260.33 260.79</b> quartz vein 50 50, Pyrrhotite blebs 1.5%, Quartz Flooding no 0%	260.33	260.79	AA18490	0.07
		<b>260.79 261.79</b> basement basalt 100, Pyrrhotite no 0%, Quartz Flooding no 0%	260.79	261.79	AA18492	0.07
		<b>269.33 270.04</b> basement basalt 100, Pyrrhotite blebs 0.8%, Quartz Flooding no 0%	269.33	270.04	AA18493	0.07
270.04	271.73	chert-magnetite iron formation banded 100 folded, Pyrrhotite blebs 0.3%, Magnetite banded 50% <i>Banded chert-magnetite unit. Tight folding, appears to be M-type folds. Trace to 0.3% pyrrhotite as blebs/specks. *****</i>				
		<b>270.04 270.80</b> chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	270.04	270.80	AA18494	0.07
		<b>270.80 271.73</b> chert-magnetite iron formation 100, Pyrrhotite blebs 0.8%, Quartz Flooding no 0%	270.80	271.73	AA18496	0.07
271.73	362.73	basement basalt foliated 100 schistose, Pyrrhotite blebs .1%, Quartz Not in Flooding) stringers 0.8%, Quartz Calcite stringers 0.3%, Chlorite pervasive 20% <i>Grey to green foliated basement basalt. Minor quartz and quartz-carb stgs noted. Trace pyrrhotite throughout. An ultramafic component is observed throughout the unit. *****</i>				
		<b>271.73 272.76</b> basement basalt 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	271.73	272.76	AA18497	0.07
		<b>276.69 277.33</b> basement basalt 100, Pyrrhotite blebs 1.5%, Quartz Flooding no 0%	276.69	277.33	AA18498	0.07
		<b>277.33 277.84</b> basement basalt 100, Pyrrhotite blebs 3.5%, Quartz Flooding no 0%	277.33	277.84	AA18499	0.07
		<b>277.84 278.75</b> basement basalt 100, Pyrrhotite blebs 0.8%, Quartz Flooding no 0%	277.84	278.75	AA18501	0.07
		<b>302.00 302.81</b> basement basalt 100, Pyrrhotite blebs .1%, Quartz Flooding flooded 0.8%	302.00	302.81	AA18502	0.07
		<b>302.81 303.81</b> basement basalt 100, Pyrrhotite blebs .1%, Quartz Flooding flooded 0.8%, Quartz Not in Flooding) stringers 3.5%	302.81	303.81	AA18503	0.07
		<b>330.53 331.53</b> basement basalt 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%, Quartz Not in Flooding) stringers 10%	330.53	331.53	AA18504	0.07
		<b>331.53 332.31</b> basement basalt 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%, Quartz Not in Flooding) stringers 5.5%	331.53	332.31	AA18505	0.07
		<b>334.70 335.50</b> basement basalt 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%, Quartz Not in Flooding) stringers 5.5%	334.70	335.50	AA18506	0.07
		<b>340.91 341.57</b> basement basalt 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%, Quartz Not in Flooding) stringers 5.5%	340.91	341.57	AA18507	0.07

From	To	Geological Description	FROM A001	TO A001	SAMPLE A001	AU-FINA A001
		<b>343.94 344.71</b> basement basalt 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0% , Quartz Not in Flooding) stringers 5.5%	343.94	344.71	AA18508	0.07
		<b>344.71 345.54</b> basement basalt 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0% , Quartz Not in Flooding) stringers 3.5%	344.71	345.54	AA18509	0.07
		<b>345.54 346.50</b> basement basalt 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0% , Quartz Not in Flooding) stringers 0.3%	345.54	346.50	AA18510	0.07
		<b>348.40 348.90</b> basement basalt 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0% , Quartz Not in Flooding) stringers 0.3%	348.40	348.90	AA18511	0.07
		<b>349.08 350.00</b> basement basalt 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0% , Quartz Not in Flooding) stringers 0.3%	349.08	350.00	AA18512	0.07
362.73	374.37	ultramafic foliated 100 , Chlorite pervasive 30% <i>Grey to green, grainy, strong chlorite altered ultramafic *****</i>				
374.37	463.80	basement basalt foliated 100 schistose , Chlorite pervasive 10% <i>Grey to green fine grained basement basalt. *****</i>				
		<b>440.24 441.21</b> basement basalt 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	440.24	441.21	AA18513	0.07
		<b>441.21 442.00</b> basement basalt 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	441.21	442.00	AA18514	0.07
		<b>442.00 442.81</b> basement basalt 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	442.00	442.81	AA18516	0.07
		<b>442.81 443.82</b> basement basalt 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	442.81	443.82	AA18517	0.07
		<b>462.00 462.93</b> basement basalt 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	462.00	462.93	AA18518	0.07
		<b>462.93 463.80</b> basement basalt 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	462.93	463.80	AA18519	0.07
463.80	535.59	chert-magnetite iron formation thinly banded 100 laminated , Pyrrhotite wispy 0.8% , Quartz Flooding flooded 5.5% , Quartz Not in Flooding) stringers 3.5% , Quartz Calcite stringers 0.8% , Carbonate pervasive 1.5% , Grunerite banded 1.5% , Magnetite banded 50% <i>Tightly banded chert-magnetite (S.I.F) with some quartz-flooding and pyrrhotite. Folding within the bands present throughout the unit. Quartz boudins also present. *****</i>				
		<b>463.80 464.37</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 0.8% , Quartz Flooding no 0%	463.80	464.37	AA18521	0.07
		<b>464.37 465.00</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 0.8% , Quartz Flooding no 0%	464.37	465.00	AA18522	0.07
		<b>465.00 466.00</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 0.3% , Quartz Flooding no 0%	465.00	466.00	AA18523	0.07
		<b>466.00 467.00</b> chert-magnetite iron formation 100 , Pyrrhotite wispy .1% , Quartz Flooding no 0%	466.00	467.00	AA18524	0.07
		<b>467.00 468.00</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 1.5% , Quartz Flooding flooded 10%	467.00	468.00	AA18526	0.07
		<b>468.00 469.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	468.00	469.00	AA18527	0.07
		<b>469.00 469.69</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 0.3% , Quartz Flooding no 0%	469.00	469.69	AA18528	0.07
		<b>469.69 470.12</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 1.5% , Quartz Flooding flooded 10%	469.69	470.12	AA18529	0.07
		<b>470.12 470.61</b> chert-magnetite iron formation 100 , Pyrrhotite blebs 1.5% , Quartz Flooding no 0%	470.12	470.61	AA18530	0.07
		<b>470.61 471.31</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 3.5% , Quartz Flooding flooded 10%	470.61	471.31	AA18531	0.07
		<b>471.31 472.24</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 0.8% , Quartz Flooding flooded 0.8%	471.31	472.24	AA18532	0.07
		<b>472.24 473.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	472.24	473.00	AA18533	0.07
		<b>473.00 474.00</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 0.8% , Quartz Flooding no 0% , Quartz Not in Flooding) stringers 1.5%	473.00	474.00	AA18534	0.07
		<b>474.00 475.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	474.00	475.00	AA18536	0.07
		<b>475.00 476.00</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 1.5% , Quartz Flooding no 0%	475.00	476.00	AA18537	0.07
		<b>476.00 477.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs 0.3% , Quartz Flooding flooded 10%	476.00	477.00	AA18538	0.07
		<b>477.00 477.69</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 0.8% , Quartz Flooding flooded 5.5%	477.00	477.69	AA18539	0.07
		<b>477.69 478.61</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0% , Quartz Not in Flooding) stringers 0.8%	477.69	478.61	AA18541	0.07
		<b>478.61 479.43</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	478.61	479.43	AA18542	0.07
		<b>479.43 480.00</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 0.3% , Quartz Flooding no 0%	479.43	480.00	AA18543	0.07
		<b>480.00 481.00</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 0.3% , Quartz Flooding no 0%	480.00	481.00	AA18544	0.07
		<b>481.00 482.05</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	481.00	482.05	AA18545	0.07



From	To	Geological Description	FROM A001	TO A001	SAMPLE A001	AU-FINA A001
482.05	483.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	482.05	483.00	AA18546	0.07
483.00	484.00	chert-magnetite iron formation 100, Pyrrhotite wispy 0.3%, Quartz Flooding flooded 5.5%	483.00	484.00	AA18547	0.07
484.00	485.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	484.00	485.00	AA18548	0.07
485.00	486.00	chert-magnetite iron formation 100, Pyrrhotite wispy 0.3%, Quartz Flooding no 0%	485.00	486.00	AA18549	0.07
486.00	487.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	486.00	487.00	AA18551	0.07
487.00	488.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	487.00	488.00	AA18552	0.07
488.00	489.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	488.00	489.00	AA18553	0.07
489.00	490.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	489.00	490.00	AA18554	0.07
490.00	490.95	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	490.00	490.95	AA18556	0.07
490.95	492.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	490.95	492.00	AA18557	0.07
492.00	493.00	chert-magnetite iron formation 100, Pyrrhotite blebs 0.3%, Quartz Flooding no 0%	492.00	493.00	AA18558	0.07
493.00	494.00	chert-magnetite iron formation 100, Pyrrhotite blebs 0.3%, Quartz Flooding no 0%	493.00	494.00	AA18559	0.07
494.00	495.00	chert-magnetite iron formation 100, Pyrrhotite blebs 0.3%, Quartz Flooding no 0%	494.00	495.00	AA18561	0.07
495.00	496.10	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	495.00	496.10	AA18562	0.07
496.10	496.82	chert-magnetite iron formation 100, Pyrrhotite wispy 1.5%, Quartz Flooding flooded 60%	496.10	496.82	AA18563	0.38
496.82	497.40	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding flooded 10%	496.82	497.40	AA18564	0.07
497.40	498.00	chert-magnetite iron formation 100, Pyrrhotite blebs 0.3%, Quartz Flooding no 0%	497.40	498.00	AA18565	0.07
498.00	499.00	chert-magnetite iron formation 100, Pyrrhotite blebs 0.3%, Quartz Flooding no 0%	498.00	499.00	AA18566	0.07
499.00	500.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	499.00	500.00	AA18567	0.07
500.00	501.00	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding flooded 10%	500.00	501.00	AA18568	0.07
501.00	502.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	501.00	502.00	AA18570	0.07
502.00	503.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	502.00	503.00	AA18571	0.07
503.00	504.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	503.00	504.00	AA18572	0.07
504.00	505.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	504.00	505.00	AA18573	0.07
505.00	505.63	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	505.00	505.63	AA18574	0.07
505.63	506.29	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	505.63	506.29	AA18576	0.07
506.29	506.78	chert-magnetite iron formation 100, Pyrrhotite disseminated 1.5%, Quartz Flooding flooded 5.5%	506.29	506.78	AA18577	0.07
506.78	507.37	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	506.78	507.37	AA18578	0.07
507.37	508.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	507.37	508.00	AA18579	0.07
508.00	509.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	508.00	509.00	AA18581	0.07
509.00	510.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	509.00	510.00	AA18582	0.17
510.00	511.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	510.00	511.00	AA18583	0.07
511.00	512.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	511.00	512.00	AA18584	0.07
512.00	512.62	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.8%, Quartz Flooding no 0%	512.00	512.62	AA18585	0.07
512.62	513.45	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	512.62	513.45	AA18586	0.07
513.45	514.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	513.45	514.00	AA18587	0.07
514.00	515.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	514.00	515.00	AA18589	0.07
515.00	516.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	515.00	516.00	AA18590	0.07
516.00	516.58	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	516.00	516.58	AA18591	0.07
516.58	517.35	chert-magnetite iron formation 100, Pyrrhotite wispy 0.3%, Quartz Flooding no 0%	516.58	517.35	AA18592	0.07
517.35	518.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	517.35	518.00	AA18593	0.07
518.00	519.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	518.00	519.00	AA18594	0.07
519.00	520.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	519.00	520.00	AA18596	0.07
520.00	521.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	520.00	521.00	AA18597	0.07
521.00	522.00	chert-magnetite iron formation 100, Pyrrhotite fracture filling 0.3%, Quartz Flooding no 0%	521.00	522.00	AA18598	0.07
522.00	523.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	522.00	523.00	AA18599	0.07
523.00	524.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	523.00	524.00	AA18601	0.07
524.00	525.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	524.00	525.00	AA18602	0.07

From	To	Geological Description	FROM A001	TO A001	SAMPLE A001	AU-FINA A001
		<b>525.00 526.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	525.00	526.00	AA18603	0.07
		<b>526.00 527.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	526.00	527.00	AA18604	0.07
		<b>527.00 528.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	527.00	528.00	AA18605	0.07
		<b>528.00 529.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	528.00	529.00	AA18606	0.07
		<b>529.00 530.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	529.00	530.00	AA18607	0.07
		<b>530.00 530.60</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	530.00	530.60	AA18608	0.07
		<b>530.60 531.00</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 0.8% , Quartz Flooding flooded 5.5%	530.60	531.00	AA18610	0.07
		<b>531.00 531.51</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 0.8% , Quartz Flooding flooded 3.5%	531.00	531.51	AA18611	0.07
		<b>531.51 532.00</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 0.3% , Quartz Flooding flooded 3.5%	531.51	532.00	AA18612	0.07
		<b>532.00 533.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs 0.3% , Quartz Flooding no 0% , Quartz Not in Flooding)	532.00	533.00	AA18613	0.07
		stringers 0.8%				
		<b>533.00 533.53</b> chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.8% , Quartz Flooding no 0%	533.00	533.53	AA18614	0.07
		<b>533.53 534.56</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	533.53	534.56	AA18616	0.07
		<b>534.56 535.02</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 0.8% , Quartz Flooding flooded 3.5% , Arsenopyrite wispy 0.8%	534.56	535.02	AA18617	0.07
		<b>535.02 535.59</b> chert-magnetite iron formation 100 , Pyrrhotite blebs 0.8% , Quartz Flooding flooded 3.5%	535.02	535.59	AA18618	0.10
535.59	558.66	basement basalt foliated 100 schistose , Chlorite pervasive 30% , Carbonate coatings 3.5% <i>Foliated green basement basalt with an ultramafic component The unit is well chloritized.</i> *****				
		<b>535.59 536.48</b> basement basalt 100 , Pyrrhotite no 0% , Quartz Flooding no 0%	535.59	536.48	AA18619	0.07
		<b>557.85 558.66</b> basement basalt 100 , Pyrrhotite no 0% , Quartz Flooding no 0%	557.85	558.66	AA18621	0.07
558.66	562.53	chert-magnetite iron formation thinly banded 100 folded , Pyrrhotite blebs .1% , Carbonate pervasive 0.3% , Magnetite banded 50% <i>Tightly banded and folded chert-magnetite.</i> *****				
		<b>558.66 559.18</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	558.66	559.18	AA18622	0.07
		<b>559.18 560.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	559.18	560.00	AA18623	0.07
		<b>560.00 560.98</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	560.00	560.98	AA18624	0.07
		<b>560.98 562.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	560.98	562.00	AA18626	0.07
		<b>562.00 562.53</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	562.00	562.53	AA18627	0.07
562.53	570.80	basement basalt foliated 100 schistose , Chlorite pervasive 20% , Carbonate fracture filling 0.8% <i>Green foliated basement basalt with a minor ultramafic component. Well chloritized.</i> *****				
		<b>562.53 563.53</b> basement basalt 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	562.53	563.53	AA18628	0.07
		<b>570.00 570.80</b> basement basalt 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	570.00	570.80	AA18629	0.07
570.80	725.82	chert-magnetite iron formation thinly banded 100 folded , Pyrrhotite blebs 0.8% , Quartz Flooding flooded 1.5% , Quartz Not in Flooding) stringers 0.8% , Quartz Calcite stringers 0.3% , Arsenopyrite wispy 0.3% , Carbonate pervasive 0.3% , Grunerite patchy 0.3% , Magnetite banded 50% <i>Tight to moderately banded chert-magnetite unit, folding present throughout, weakly grunerized. Minor quartz flooding with associated pyrrhotite. Interval btn 596.5 to 602 has a yellowish pink bleached color (grunerized?)</i> *****				
		<b>570.80 572.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	570.80	572.00	AA18630	0.21
		<b>572.00 573.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	572.00	573.00	AA18631	0.07
		<b>573.00 574.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	573.00	574.00	AA18632	0.07
		<b>574.00 575.00</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding flooded 5.5%	574.00	575.00	AA18633	0.07
		<b>575.00 575.69</b> chert-magnetite iron formation 100 , Pyrrhotite blebs .1% , Quartz Flooding no 0%	575.00	575.69	AA18634	0.07
		<b>575.69 576.16</b> chert-magnetite iron formation 100 , Pyrrhotite wispy 0.8% , Quartz Flooding flooded 5.5%	575.69	576.16	AA18636	0.07

From	To	Geological Description	FROM A001	TO A001	SAMPLE A001	AU-FINA A001
576.16	577.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	576.16	577.00	AA18637	0.07
577.00	577.55	chert-magnetite iron formation 100, Pyrrhotite no 0% , Quartz Flooding no 0%	577.00	577.55	AA18638	0.07
577.55	578.19	chert-magnetite iron formation 100, Pyrrhotite no 0% , Quartz Flooding no 0%	577.55	578.19	AA18639	0.07
578.19	579.00	chert-magnetite iron formation 100, Pyrrhotite no 0% , Quartz Flooding no 0%	578.19	579.00	AA18641	0.07
579.00	580.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	579.00	580.00	AA18642	0.07
580.00	581.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	580.00	581.00	AA18643	0.07
581.00	582.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	581.00	582.00	AA18644	0.07
582.00	582.68	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	582.00	582.68	AA18645	0.07
582.68	583.40	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	582.68	583.40	AA18646	0.07
583.40	584.39	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	583.40	584.39	AA18648	0.07
584.39	585.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	584.39	585.00	AA18649	0.07
585.00	585.50	chert-magnetite iron formation 100, Pyrrhotite blebs 0.3% , Quartz Flooding no 0%	585.00	585.50	AA18650	0.07
585.50	586.50	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	585.50	586.50	AA18651	0.07
586.50	587.13	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	586.50	587.13	AA18652	0.07
587.13	587.90	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	587.13	587.90	AA18653	0.07
587.90	588.63	chert-magnetite iron formation 100, Pyrrhotite blebs 0.3% , Quartz Flooding no 0%	587.90	588.63	AA18654	0.07
588.63	589.23	chert-magnetite iron formation 100, Pyrrhotite blebs 0.3% , Quartz Flooding no 0%	588.63	589.23	AA18656	0.07
589.23	590.16	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	589.23	590.16	AA18657	0.14
590.16	590.95	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.3% , Quartz Flooding no 0%	590.16	590.95	AA18658	0.07
590.95	591.59	chert-magnetite iron formation 100, Pyrrhotite wispy 1.5% , Quartz Flooding no 0%	590.95	591.59	AA18659	0.07
591.59	592.58	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	591.59	592.58	AA18661	0.07
592.58	593.58	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	592.58	593.58	AA18662	0.07
593.58	594.50	chert-magnetite iron formation 100, Pyrrhotite blebs 0.3% , Quartz Flooding no 0%	593.58	594.50	AA18663	0.07
594.50	595.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	594.50	595.00	AA18664	0.07
595.00	596.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	595.00	596.00	AA18665	0.07
596.00	597.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	596.00	597.00	AA18666	0.07
597.00	597.50	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	597.00	597.50	AA18667	0.07
597.50	598.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding flooded 30%	597.50	598.00	AA18668	0.07
598.00	598.50	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding flooded 20%	598.00	598.50	AA18670	0.07
598.50	599.00	chert-magnetite iron formation 100, Pyrrhotite wispy 0.3% , Quartz Flooding flooded 20%	598.50	599.00	AA18671	0.07
599.00	599.50	chert-magnetite iron formation 100, Pyrrhotite wispy 1.5% , Quartz Flooding flooded 10%	599.00	599.50	AA18672	0.07
599.50	600.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding flooded 40%	599.50	600.00	AA18673	0.07
600.00	600.50	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding flooded 20%	600.00	600.50	AA18674	0.07
600.50	601.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding flooded 10%	600.50	601.00	AA18676	0.07
601.00	601.50	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding flooded 10%	601.00	601.50	AA18677	0.07
601.50	602.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding flooded 10%	601.50	602.00	AA18678	0.07
602.00	602.50	chert-magnetite iron formation 100, Pyrrhotite wispy 1.5% , Quartz Flooding flooded 20%	602.00	602.50	AA18679	0.07
602.50	603.00	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.8% , Quartz Flooding no 0%	602.50	603.00	AA18681	0.07
603.00	603.50	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.3% , Quartz Flooding no 0%	603.00	603.50	AA18682	0.07
603.50	604.08	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	603.50	604.08	AA18683	0.07
604.08	604.37	chert-magnetite iron formation 100, Pyrrhotite wispy 0.3% , Quartz Flooding flooded 40%	604.08	604.37	AA18684	0.07
604.37	604.76	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	604.37	604.76	AA18685	0.07
604.76	605.52	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	604.76	605.52	AA18686	0.07
605.52	605.94	chert-magnetite iron formation 100, Pyrrhotite blebs 0.3% , Quartz Flooding flooded 40%	605.52	605.94	AA18687	0.07
605.94	606.89	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	605.94	606.89	AA18688	0.07
606.89	607.65	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	606.89	607.65	AA18690	0.07
607.65	608.54	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	607.65	608.54	AA18691	0.07
608.54	609.54	chert-magnetite iron formation 100, Pyrrhotite blebs .1% , Quartz Flooding no 0%	608.54	609.54	AA18692	0.07

From	To	Geological Description	FRM A001	TO A001	SAMPLE A001	AU-FINA A001
609.54	610.41	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	609.54	610.41	AA18693	0.07
610.41	611.00	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	610.41	611.00	AA18694	0.07
611.00	611.68	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	611.00	611.68	AA18696	0.07
611.68	612.20	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding no 0%	611.68	612.20	AA18697	0.07
612.20	612.72	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.8%, Quartz Flooding no 0%	612.20	612.72	AA18698	0.07
612.72	613.54	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.3%, Quartz Flooding no 0%	612.72	613.54	AA18699	0.07
613.54	614.04	chert-magnetite iron formation 100, Pyrrhotite blebs .1%, Quartz Flooding no 0%	613.54	614.04	AA18701	0.07
614.04	614.64	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.3%, Quartz Flooding no 0%	614.04	614.64	AA18702	0.07
614.64	615.36	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	614.64	615.36	AA18703	0.07
615.36	616.00	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.3%, Quartz Flooding no 0%	615.36	616.00	AA18704	0.07
616.00	617.00	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.8%, Quartz Flooding no 0%	616.00	617.00	AA18705	0.07
617.00	617.95	chert-magnetite iron formation 100, Pyrrhotite wispy 0.3%, Quartz Flooding no 0%	617.00	617.95	AA18706	0.07
617.95	619.00	chert-magnetite iron formation 100, Pyrrhotite wispy 0.3%, Quartz Flooding flooded 5.5%	617.95	619.00	AA18707	0.07
619.00	619.58	chert-magnetite iron formation 100, Pyrrhotite wispy 0.3%, Quartz Flooding flooded 5.5%	619.00	619.58	AA18708	0.07
619.58	620.10	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding flooded 5.5%	619.58	620.10	AA18710	0.34
620.10	620.85	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding flooded 5.5%	620.10	620.85	AA18711	0.21
620.85	621.51	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	620.85	621.51	AA18712	0.07
621.51	622.34	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.3%, Quartz Flooding flooded 1.5%	621.51	622.34	AA18713	0.07
622.34	623.28	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	622.34	623.28	AA18714	0.07
623.28	624.00	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	623.28	624.00	AA18716	0.07
624.00	625.00	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	624.00	625.00	AA18717	0.07
625.00	626.00	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	625.00	626.00	AA18718	0.07
626.00	627.00	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	626.00	627.00	AA18719	0.07
627.00	628.00	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	627.00	628.00	AA18721	0.07
628.00	629.00	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	628.00	629.00	AA18722	0.07
629.00	630.00	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	629.00	630.00	AA18723	0.07
630.00	631.00	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	630.00	631.00	AA18724	0.07
631.00	632.00	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	631.00	632.00	AA18726	0.21
632.00	632.67	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	632.00	632.67	AA18727	0.07
632.67	633.57	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.3%, Quartz Flooding flooded 5.5%	632.67	633.57	AA18728	0.07
633.57	634.30	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding flooded 3.5%	633.57	634.30	AA18729	0.07
634.30	634.92	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding no 0%, Quartz Not in Flooding)	634.30	634.92	AA18730	0.07
		stringers 3.5%				
634.92	635.61	chert-magnetite iron formation 100, Pyrrhotite no 0%, Quartz Flooding no 0%	634.92	635.61	AA18731	0.07
635.61	636.46	chert-magnetite iron formation 100, Pyrrhotite no 0%, Quartz Flooding no 0%	635.61	636.46	AA18732	0.07
636.46	636.95	chert-magnetite iron formation 100, Pyrrhotite wispy 1.5%, Quartz Flooding no 0%, Quartz Not in Flooding)	636.46	636.95	AA18733	0.07
		stringers 5.5%				
636.95	637.98	chert-magnetite iron formation 100, Pyrrhotite no 0%, Quartz Flooding no 0%	636.95	637.98	AA18734	0.07
637.98	638.71	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding no 0%	637.98	638.71	AA18736	0.07
638.71	639.27	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding no 0%	638.71	639.27	AA18737	0.07
639.27	640.03	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.3%, Quartz Flooding no 0%	639.27	640.03	AA18738	0.07
640.03	640.90	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	640.03	640.90	AA18739	0.07
640.90	641.70	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding no 0%	640.90	641.70	AA18741	0.07
641.70	642.24	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	641.70	642.24	AA18742	0.07
642.24	642.63	chert-magnetite iron formation 100, Pyrrhotite wispy 1.5%, Quartz Flooding no 0%, Quartz Not in Flooding)	642.24	642.63	AA18743	0.07
		stringers 10%				
642.63	643.39	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	642.63	643.39	AA18744	0.07
643.39	643.83	chert-magnetite iron formation 100, Pyrrhotite disseminated 1.5%, Quartz Flooding flooded 3.5%	643.39	643.83	AA18745	0.07

From	To	Geological Description	FROM A001	TO A001	SAMPLE A001	AU-FINA A001
643.83	644.36	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.8%, Quartz Flooding no 0%	643.83	644.36	AA18746	0.07
644.36	645.00	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.8%, Quartz Flooding no 0%, Arsenopyrite wispy 0.8%	644.36	645.00	AA18747	0.10
645.00	645.93	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	645.00	645.93	AA18748	0.07
645.93	646.40	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.8%, Quartz Flooding no 0%, Arsenopyrite wispy 0.3%	645.93	646.40	AA18750	0.07
646.40	647.28	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	646.40	647.28	AA18751	0.07
647.28	648.00	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding flooded 3.5%, Arsenopyrite blebs 0.8%	647.28	648.00	AA18752	0.07
648.00	648.18	chert-magnetite iron formation 100, Pyrrhotite wispy 0.3%, Quartz Flooding no 0%	648.00	648.18	AA18753	0.07
648.18	649.69	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	648.18	649.69	AA18754	0.07
649.69	650.71	chert-magnetite iron formation 100, Pyrrhotite blebs 0.3%, Quartz Flooding no 0%	649.69	650.71	AA18756	0.07
650.71	651.21	chert-magnetite iron formation 100, Pyrrhotite wispy 0.3%, Quartz Flooding no 0%	650.71	651.21	AA18757	0.07
651.21	651.72	chert-magnetite iron formation 100, Pyrrhotite wispy 0.3%, Quartz Flooding no 0%	651.21	651.72	AA18758	0.07
651.72	652.28	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding no 0%, Arsenopyrite wispy 0.8%	651.72	652.28	AA18759	0.14
652.28	653.09	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	652.28	653.09	AA18761	0.07
653.09	654.00	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding no 0%	653.09	654.00	AA18762	0.07
654.00	655.00	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.3%, Quartz Flooding no 0%	654.00	655.00	AA18763	0.07
655.00	656.00	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	655.00	656.00	AA18764	0.07
656.00	656.48	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	656.00	656.48	AA18765	0.07
656.48	657.00	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.8%, Quartz Flooding no 0%	656.48	657.00	AA18766	0.07
657.00	657.47	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	657.00	657.47	AA18767	0.07
657.47	658.10	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	657.47	658.10	AA18768	0.07
658.10	658.54	chert-magnetite iron formation 100, Pyrrhotite blebs 0.8%, Quartz Flooding no 0%	658.10	658.54	AA18770	0.07
658.54	659.20	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding no 0%	658.54	659.20	AA18771	0.07
659.20	659.62	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding flooded 5.5%	659.20	659.62	AA18772	0.07
659.62	660.29	chert-magnetite iron formation 100, Pyrrhotite wispy .1%, Quartz Flooding no 0%	659.62	660.29	AA18773	0.21
660.29	661.29	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	660.29	661.29	AA18774	0.14
661.29	661.92	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	661.29	661.92	AA18776	0.07
661.92	662.61	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	661.92	662.61	AA18777	0.07
662.61	663.00	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.3%, Quartz Flooding flooded 20%	662.61	663.00	AA18778	0.07
663.00	664.00	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.3%, Quartz Flooding flooded 3.5%	663.00	664.00	AA18779	0.07
664.00	664.41	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.3%, Quartz Flooding no 0%	664.00	664.41	AA18781	0.07
664.41	664.92	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding flooded 5.5%	664.41	664.92	AA18782	0.07
664.92	665.45	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding flooded 40%	664.92	665.45	AA18783	0.10
665.45	665.85	chert-magnetite iron formation 100, Pyrrhotite wispy 0.3%, Quartz Flooding flooded 10%	665.45	665.85	AA18784	0.14
665.85	666.41	chert-magnetite iron formation 100, Pyrrhotite wispy 0.8%, Quartz Flooding flooded 50%	665.85	666.41	AA18785	0.07
666.41	667.00	chert-magnetite iron formation 100, Pyrrhotite disseminated 1.5%, Quartz Flooding flooded 10%	666.41	667.00	AA18786	0.21
667.00	667.47	chert-magnetite iron formation 100, Pyrrhotite disseminated 1.5%, Quartz Flooding flooded 5.5%, Arsenopyrite blebs .1%	667.00	667.47	AA18787	0.21
667.47	668.00	chert-magnetite iron formation 100, Pyrrhotite disseminated 1.5%, Quartz Flooding flooded 3.5%, Arsenopyrite wispy 0.3%	667.47	668.00	AA18788	0.07
668.00	669.00	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.3%, Quartz Flooding no 0%	668.00	669.00	AA18790	0.07
669.00	670.00	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	669.00	670.00	AA18791	0.07
670.00	670.70	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.3%, Quartz Flooding no 0%	670.00	670.70	AA18792	0.07
670.70	671.10	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.8%, Quartz Flooding flooded 10%, Arsenopyrite wispy 0.3%	670.70	671.10	AA18793	0.07
671.10	671.86	chert-magnetite iron formation 100, Pyrrhotite disseminated .1%, Quartz Flooding no 0%	671.10	671.86	AA18794	0.07
671.86	672.50	chert-magnetite iron formation 100, Pyrrhotite disseminated 0.3%, Quartz Flooding flooded 20%	671.86	672.50	AA18796	0.07

From	To	Geological Description	FROM A001	TO A001	SAMPLE A001	AU-FINA A001
672.50	673.29	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	672.50	673.29	AA18797	0.07
673.29	673.71	chert-magnetite iron formation 100 , Pyrrhotite wispy 3.5% , Quartz Flooding flooded 5.5% , Arsenopyrite wispy 3.5%	673.29	673.71	AA18798	1.61
673.71	674.00	chert-magnetite iron formation 100 , Pyrrhotite wispy 0.3% , Quartz Flooding no 0% , Quartz Not in Flooding) veins 80%	673.71	674.00	AA18799	0.07
674.00	674.45	chert-magnetite iron formation 100 , Pyrrhotite wispy 0.8% , Quartz Flooding no 0% , Quartz Not in Flooding) stringers 5.5% , Arsenopyrite blebs 0.3%	674.00	674.45	AA18801	0.07
674.45	675.03	chert-magnetite iron formation 100 , Pyrrhotite blebs 0.3% , Quartz Flooding no 0%	674.45	675.03	AA18802	0.07
675.03	675.45	chert-magnetite iron formation 100 , Pyrrhotite wispy 0.3% , Quartz Flooding no 0% , Arsenopyrite wispy 0.8%	675.03	675.45	AA18803	0.21
675.45	675.85	chert-magnetite iron formation 100 , Pyrrhotite wispy 1.5% , Quartz Flooding no 0% , Arsenopyrite wispy 3.5%	675.45	675.85	AA18804	2.81
675.85	676.43	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.3% , Quartz Flooding no 0% , Arsenopyrite blebs .1%	675.85	676.43	AA18805	0.07
676.43	677.45	chert-magnetite iron formation 100 , Pyrrhotite wispy 0.8% , Quartz Flooding no 0% , Arsenopyrite wispy 0.3%	676.43	677.45	AA18806	0.07
677.45	678.25	chert-magnetite iron formation 100 , Pyrrhotite wispy 0.3% , Quartz Flooding no 0% , Arsenopyrite wispy 0.3%	677.45	678.25	AA18807	0.07
678.25	678.85	chert-magnetite iron formation 100 , Pyrrhotite wispy 0.8% , Quartz Flooding no 0% , Arsenopyrite blebs 0.3%	678.25	678.85	AA18808	0.07
678.85	679.34	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	678.85	679.34	AA18809	0.07
679.34	680.00	chert-magnetite iron formation 100 , Pyrrhotite wispy 0.3% , Quartz Flooding no 0% , Arsenopyrite wispy 0.3%	679.34	680.00	AA18811	0.07
680.00	681.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	680.00	681.00	AA18812	0.07
681.00	682.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	681.00	682.00	AA18813	0.07
682.00	683.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	682.00	683.00	AA18814	0.07
683.00	683.90	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.3% , Quartz Flooding no 0%	683.00	683.90	AA18816	0.07
683.90	684.63	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.3% , Quartz Flooding no 0% , Quartz Not in Flooding) stringers 5.5%	683.90	684.63	AA18817	0.07
684.63	685.62	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	684.63	685.62	AA18818	0.07
685.62	686.25	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.8% , Quartz Flooding no 0% , Quartz Not in Flooding) stringers 5.5%	685.62	686.25	AA18819	0.07
686.25	686.63	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.8% , Quartz Flooding no 0% , Arsenopyrite wispy 0.8%	686.25	686.63	AA18821	0.07
686.63	687.61	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	686.63	687.61	AA18822	0.07
687.61	688.35	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.3% , Quartz Flooding no 0% , Arsenopyrite wispy 0.3%	687.61	688.35	AA18823	0.07
688.35	689.35	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	688.35	689.35	AA18824	0.07
689.35	690.44	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	689.35	690.44	AA18825	0.07
690.44	691.54	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.3% , Quartz Flooding no 0%	690.44	691.54	AA18826	0.07
691.54	692.10	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.8% , Quartz Flooding no 0%	691.54	692.10	AA18827	0.07
692.10	692.52	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.3% , Quartz Flooding no 0%	692.10	692.52	AA18828	0.07
692.52	693.10	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.8% , Quartz Flooding no 0% , Arsenopyrite wispy 0.8%	692.52	693.10	AA18829	0.07
693.10	693.90	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.8% , Quartz Flooding no 0% , Arsenopyrite wispy 0.3%	693.10	693.90	AA18830	0.10
693.90	694.50	chert-magnetite iron formation 100 , Pyrrhotite wispy 1.5% , Quartz Flooding no 0%	693.90	694.50	AA18831	0.07
694.50	695.40	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	694.50	695.40	AA18832	0.07
695.40	696.17	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.3% , Quartz Flooding no 0%	695.40	696.17	AA18834	0.21
696.17	697.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.8% , Quartz Flooding no 0%	696.17	697.00	AA18836	0.21
697.00	697.51	chert-magnetite iron formation 100 , Pyrrhotite wispy 0.8% , Quartz Flooding flooded 3.5% , Arsenopyrite wispy 0.3%	697.00	697.51	AA18837	0.07
697.51	698.13	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.3% , Quartz Flooding flooded 1.5%	697.51	698.13	AA18838	0.07
698.13	698.87	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	698.13	698.87	AA18839	0.07
698.87	699.59	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.8% , Quartz Flooding flooded 5.5% , Arsenopyrite wispy 0.8%	698.87	699.59	AA18841	0.62
699.59	700.57	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	699.59	700.57	AA18842	0.07

From	To	Geological Description	FROM A001	TO A001	SAMPLE A001	AU-FINA A001	
	700.57	701.56	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	700.57	701.56	AA18843	0.07
	701.56	702.52	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	701.56	702.52	AA18844	0.07
	702.52	703.54	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	702.52	703.54	AA18845	0.07
	703.54	704.53	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	703.54	704.53	AA18846	0.07
	704.53	705.17	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	704.53	705.17	AA18848	0.07
	705.17	705.88	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	705.17	705.88	AA18849	0.07
	705.88	706.39	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	705.88	706.39	AA18850	0.07
	706.39	706.78	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.3% , Quartz Flooding no 0% , Arsenopyrite wispy 0.3%	706.39	706.78	AA18851	0.07
	706.78	708.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	706.78	708.00	AA18852	0.07
	708.00	709.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	708.00	709.00	AA18853	0.07
	709.00	709.38	chert-magnetite iron formation 100 , Pyrrhotite wispy 0.3% , Quartz Flooding no 0%	709.00	709.38	AA18854	0.07
	709.38	710.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	709.38	710.00	AA18856	0.07
	710.00	710.45	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.3% , Quartz Flooding no 0%	710.00	710.45	AA18857	0.07
	710.45	711.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.3% , Quartz Flooding no 0%	710.45	711.00	AA18858	0.07
	711.00	711.38	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.8% , Quartz Flooding no 0%	711.00	711.38	AA18859	0.07
	711.38	712.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.8% , Quartz Flooding no 0%	711.38	712.00	AA18861	0.07
	712.00	713.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.3% , Quartz Flooding no 0%	712.00	713.00	AA18862	0.07
	713.00	714.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.3% , Quartz Flooding no 0%	713.00	714.00	AA18863	0.07
	714.00	715.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	714.00	715.00	AA18864	0.07
	715.00	715.45	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.3% , Quartz Flooding no 0%	715.00	715.45	AA18865	0.07
	715.45	716.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated 0.8% , Quartz Flooding no 0% , Quartz Not in Flooding)	715.45	716.00	AA18866	0.07
	716.00	717.00	stringers 5.5%	716.00	717.00	AA18867	0.07
	717.00	718.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	717.00	718.00	AA18868	0.07
	718.00	719.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	718.00	719.00	AA18870	0.07
	719.00	720.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	719.00	720.00	AA18871	0.10
	720.00	721.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	720.00	721.00	AA18872	0.07
	721.00	722.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	721.00	722.00	AA18873	0.07
	722.00	723.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	722.00	723.00	AA18874	0.07
	723.00	724.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	723.00	724.00	AA18876	0.07
	724.00	725.00	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	724.00	725.00	AA18877	0.07
	725.00	725.82	chert-magnetite iron formation 100 , Pyrrhotite disseminated .1% , Quartz Flooding no 0%	725.00	725.82	AA18878	0.07
725.82	727.90	basement basalt foliated 100 schistose , Chlorite pervasive 20% <i>Green foliated basement basalt with an ultramafic component</i> *****					
	725.82	727.00	basement basalt 100 , Pyrrhotite no 0% , Quartz Flooding no 0%	725.82	727.00	AA18879	0.07
	727.00	727.90	basement basalt 100 , Pyrrhotite no 0% , Quartz Flooding no 0%	727.00	727.90	AA18881	0.07
727.90		** END OF HOLE **					



**PLACER DOME CANADA**

a division of  
PLACER DOME (CLA) LIMITED

P.O. Box 43  
Suite 3201, 130 Adelaide Street West  
Toronto, Ontario M5H 3P5  
Phone: (416) 363-4962 Fax: (416) 359-9787

**DDH: 506-1039**

**NORTHING:** 9098.87  
**EASTING:** 8693.13

**AZIMUTH:** 56.00  
**DIP:** -60.50

**DRILL DATE:** Jan. 1997

**DATE LOGGED:** Jan. 15, 1997

**LENGTH:** 608.00 metres

**DEPTH TO OVERBURDEN:** 7.89 metres

**LOCATION:** 167m south, 36m east of Post #3 of claim PA 529838

**DRILLED BY:** Midwest Drilling  
180 Cree Crescent  
Winnipeg, Manitoba  
R3J 3W1

**CORE:** CORE STORED ON PROPERTY

**REPRESENTATIVE OF COMPANY RESPONSIBLE FOR DRILL PROGRAM:**

Placer Dome Canada  
Paul Brown  
243 Hammell Road  
General Delivery  
Red Lake, Ontario  
P0V 2M0

signed by PAUL BROWN, Senior Geologist, PDC



Date: 2nd Apr, 1997  
Northing : 9098.87  
Easting : 8698.13  
Elevation : 5304.13  
Hole Depth : 608.00mt

Project ID : 506E  
Core Size : NQ  
Date Logged : 11DEC96  
Logged By : HBL  
Assisted by :

**FINAL**

Date edited and initials of editor: LMC  
Date drilling started (mm/dd/yr): 12/11/96  
Date drilling finished: 01/14/97  
Date logging completed: 01/15/97  
Target zone: T  
Grid system: EBM  
Section N: 9100  
Survey company: PD  
Initial down hole survey method: SSIOL  
Final survey method (if different from initial): LL  
OVBD: 7.62  
Depth to ledge: 9.14  
Depth of casing: 9.14  
Was casing pulled?: N  
Type and amount of cement: N  
Grout plug installed?: N  
Abandoned?: N  
Claim #:  
Post location:  
Geotched by: W.H.  
Comments:

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	56.00	-60.50
3.00	55.79	-61.50
6.10	55.79	-61.50
9.20	56.21	-61.70
12.20	56.63	-61.70
15.30	56.84	-61.60
18.40	57.05	-61.50
21.50	57.26	-61.40
24.50	57.68	-61.40
27.60	57.89	-61.30
30.70	58.10	-61.20
33.70	58.30	-61.20
36.80	58.51	-61.10
39.90	58.51	-60.90
42.90	58.92	-60.80
46.00	59.13	-60.70
49.10	59.33	-60.60
52.20	59.33	-60.60
55.20	59.33	-60.60
58.30	59.33	-60.40
61.40	59.33	-60.30
64.40	59.33	-60.20
67.50	59.53	-60.30
70.60	59.53	-60.20
73.70	59.53	-60.30

Grid Azimuth: 317.95  
Coord System:

Drillers : MW  
Drill date : DEC96  
Rig Type :  
Drill Time :  
Print Template : GTRAN001.FMT  
Gtran Version : 3.6.6

Depth	Azimuth	Dip
76.70	59.73	-60.20
79.80	59.73	-60.20
82.90	59.93	-60.10
85.90	59.93	-60.10
89.00	59.93	-60.10
92.10	59.93	-60.00
95.20	59.93	-60.00
98.20	60.13	-59.90
101.30	60.13	-59.90
104.40	60.13	-59.90
107.40	60.13	-59.90
110.50	60.13	-59.80
113.60	60.13	-59.80
116.70	60.13	-59.80
119.70	60.33	-59.70
122.80	60.53	-59.60
125.90	60.53	-59.40
128.90	60.53	-59.40
132.00	60.53	-59.40
135.10	60.53	-59.40
138.20	60.53	-59.40
141.20	60.53	-59.40
144.30	60.53	-59.30
147.40	60.53	-59.00
150.40	60.72	-58.90
153.50	60.72	-58.80
156.60	60.72	-58.80
159.70	60.72	-58.80
162.70	60.91	-58.80
165.80	60.91	-58.70
168.90	60.91	-58.70
171.90	61.11	-58.60
175.00	61.11	-58.60
178.10	61.30	-58.50
181.10	61.11	-58.50
184.20	61.11	-58.40
187.30	61.11	-58.30
190.40	61.30	-58.30
193.40	61.30	-58.30
196.50	61.30	-58.20
199.60	61.30	-58.20
202.60	61.30	-58.20
205.70	61.49	-58.10
208.80	61.49	-57.90
211.90	61.49	-57.90
214.90	61.67	-57.80
218.00	61.67	-57.80
221.10	61.86	-57.70
224.10	62.05	-57.60
227.20	62.05	-57.60
230.30	62.05	-57.50
233.40	62.05	-57.50
236.40	62.23	-57.50
239.50	62.23	-57.40
242.60	62.23	-57.40

Depth	Azimuth	Dip
245.60	62.23	-57.40
248.70	62.23	-57.40
251.80	62.42	-57.30
254.90	62.42	-57.30
257.90	62.60	-57.20
261.00	62.60	-57.20
264.10	62.79	-57.10
267.10	62.79	-57.10
270.20	62.79	-57.00
273.30	62.97	-56.90
276.40	62.97	-56.80
279.40	62.97	-56.70
282.50	62.97	-56.60
285.60	62.97	-56.50
288.60	62.97	-56.50
291.70	63.15	-56.30
294.80	63.15	-56.20
297.80	63.33	-56.10
300.90	63.33	-56.00
304.00	63.33	-55.90
307.10	63.15	-55.80
310.10	63.15	-55.80
313.20	63.15	-55.80
316.30	62.97	-55.70
319.30	62.97	-55.70
322.40	62.97	-55.60
325.50	62.80	-55.50
328.60	62.80	-55.50
331.60	62.62	-55.40
334.70	62.45	-55.30
337.80	62.45	-55.30
340.80	62.45	-55.20 <sup>1</sup>
343.90	62.45	-55.20
347.00	62.45	-55.10
350.10	62.45	-55.10
353.10	62.45	-55.10
356.20	62.45	-55.10
359.30	62.45	-55.10
362.30	62.45	-55.10
365.40	62.45	-55.10
368.50	62.45	-55.10
371.60	62.45	-55.00
374.60	62.45	-54.90
377.70	62.45	-54.90
380.80	62.79	-54.70
383.80	62.79	-54.70
386.90	62.97	-54.60
390.00	62.97	-54.60
393.10	62.97	-54.40
396.10	62.97	-54.40
399.20	62.97	-54.20
402.30	62.97	-54.20
405.30	62.97	-54.10
408.40	62.97	-54.10
411.50	62.97	-54.00

Depth	Azimuth	Dip
414.50	62.80	-53.90
417.60	62.80	-53.80
420.70	62.80	-53.70
423.80	62.80	-53.20
426.80	62.80	-52.60
429.90	62.80	-52.30
433.00	62.80	-52.10
436.00	62.80	-52.00
439.10	62.80	-51.90
442.20	62.63	-51.90
445.30	62.63	-51.70
448.30	62.63	-51.60
451.40	62.63	-51.50
454.50	62.63	-51.10
457.50	62.63	-50.40
460.60	62.79	-49.70
463.70	62.79	-49.30
466.80	62.79	-48.80
469.80	62.64	-48.40
472.90	62.49	-47.90
476.00	62.64	-47.50
479.00	62.64	-47.30
482.10	62.78	-47.10
485.20	62.93	-47.00
488.30	63.08	-46.90
491.30	63.22	-46.70
494.40	63.22	-46.60
497.50	63.22	-46.40
500.50	63.22	-46.20
503.60	63.22	-46.00
506.70	63.22	-45.80
509.80	63.22	-45.60
512.80	63.22	-45.40
515.90	63.22	-45.30
519.00	63.22	-45.20
522.00	63.22	-45.10
525.10	63.22	-45.00
528.20	63.36	-45.00
531.20	63.50	-45.10
534.30	63.50	-45.00
537.40	63.50	-44.90
540.50	63.50	-44.90
543.50	63.50	-44.80
546.60	63.65	-44.70
549.70	63.79	-44.60
552.70	63.79	-44.60
555.80	63.79	-44.60
558.90	63.79	-44.60
562.00	63.79	-44.50
565.00	63.79	-44.40
568.10	63.79	-44.40
571.20	63.79	-44.30
574.20	63.79	-44.30
577.30	63.79	-44.30
580.40	63.79	-44.30

Depth	Azimuth	Dip
583.50	63.65	-44.10
586.50	63.65	-44.00
589.60	63.37	-43.70
592.70	63.37	-43.60
595.70	63.37	-43.50
598.80	63.37	-43.30
601.90	63.23	-43.10
605.00	63.23	-43.00

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
R		surveys below are sperry sun surveys				
R		made obsolete by light log survey above				
R		s000 0.00 mt 608.00 56.00-61.00				
R		s001 9.00 56.00-60.75				
R		s002 59.00 56.00-59.75				
R		s003 98.00 56.00-59.00				
R		s004 176.00 56.00-57.50				
R		s005 212.00 56.00-57.00				
R		s006 242.00 56.00-56.75				
R		s007 260.00 56.00-56.50				
R		s008 278.00 56.00-55.75				
R		s009 344.00 56.00-54.00				
R		s010 392.00 56.00-53.00				
R		s011 443.00 56.00-50.25				
R		s012 461.00 56.00-49.50				
R		s013 497.00 56.00-44.75				
R		s014 524.00 56.00-41.50				
R		s015 560.00 56.00-43.00				
R		s016 581.00 56.00-43.00				
R		all references to core axis are with respect to				



From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
			93.00	94.00	AA18917	0.21
			94.00	95.00	AA18918	0.17
			95.00	95.55	AA18919	0.07
			95.55	96.55	AA18921	0.07
			96.55	97.50	AA18922	0.07
			97.50	98.00	AA18923	0.45
			98.00	98.78	AA18924	0.07
			98.78	99.33	AA18925	0.48
			99.33	99.73	AA18926	0.07
			99.73	100.22	AA18927	0.07
			100.22	100.63	AA18928	0.07
			100.63	101.52	AA18929	0.07
101.52	152.14	basement basalt, foliated, 100, schistose, 5.5% patchy biotite, 20% pervasive chlorite <i>R: green foliated basalt with an ultramafic component. fairly well chloritized and fractured.</i> *****	101.52	102.63	AA18930	0.07
			122.35	123.00	AA18931	0.07
152.14	199.53	ultramafic, schistose, 100, foliated, 10% patchy biotite, 50% pervasive chlorite, 0.3% stringers calcite <i>R: light grey to green, schistose texture, strong pervasive chlorite alteration, minor and patch biotite alteration. where biotite alteration present intense calcite strings within the section.</i> *****	198.53	199.53	AA18932	0.07
199.53	202.57	chert-magnetite iron formation, banded, 100, 5.5% disseminated pyrrhotite, 30% flooded qtz-calcite veining, 30% banded magnetite <i>R: coarsely banded chert-magnetite. approx. 30% quartz-carbonate flooding with associated disseminated pyrrhotite (5%).</i> *****	199.53	200.25	AA18933	0.07
			200.25	200.78	AA18934	0.07
			200.78	201.61	AA18936	7.03
			201.61	202.57	AA18937	2.61
202.57	204.61	basement basalt, foliated, 100, schistose, 3.5% pervasive biotite, 0.3% patchy carbonate, 20% pervasive chlorite <i>R: light green foliated basement basalt. moderate chlorite alteration and minor biotite alteration.</i> *****	202.57	203.56	AA18938	0.07
			203.56	204.61	AA18939	0.07
204.61	217.62	sulphide iron formation, banded, 80, chert-magnetite iron formation, 20, 10% disseminated pyrrhotite, 10% flooded quartz flooding, 0.8% stringers qtz-calcite veining, 0.8% patchy carbonate, 3.5% patchy chlorite, 0.8% stringers calcite, 3.5% patchy grunerite, 20% banded magnetite <i>R: a mixture of sulphide bearing iron formation with approximately 10% chert-magnetite and 10% basement basalt. pyrrhotite is seen throughout the unit as wisps, blebs and disseminations.</i> *****	204.61	205.56	AA18941	0.14
			205.56	206.33	AA18942	0.07
			206.33	206.98	AA18943	0.07
			206.98	207.37	AA18944	0.07
			207.37	208.00	AA18945	0.38
			208.00	208.66	AA18946	0.38
			208.66	209.64	AA18947	0.07
			209.64	210.65	AA18949	0.34
			210.65	211.57	AA18950	0.27
			211.57	212.00	AA18951	0.21
			212.00	212.65	AA18952	0.27
			212.65	213.64	AA18953	0.07
			213.64	214.26	AA18954	0.07
			214.26	215.00	AA18956	0.07
			215.00	215.93	AA18957	0.07

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
			215.93	216.57	AA18958	0.07
			216.57	217.62	AA18959	0.07
217.62	278.42	chert-magnetite iron formation, 70, garnet-biotite schist, banded, 30, 0.3% blebs pyrrhotite, 30% banded biotite, 10% porphyroblastic garnet, 10% flooded grunerite, 30% banded magnetite <i>R: coarsely banded unit with intermixed chert-magnetite and a biotite garnet schist. minor pyrrhotite.</i> *****	217.62	218.72	AA18961	0.07
			218.72	220.00	AA18962	0.07
			220.00	221.00	AA18963	0.07
			221.00	222.00	AA18964	0.07
			222.00	223.00	AA18965	0.07
			223.00	224.00	AA18966	0.07
			224.00	225.00	AA18967	0.07
			225.00	226.00	AA18968	0.07
			226.00	227.00	AA18970	0.07
			227.00	228.00	AA18971	0.07
			228.00	229.00	AA18972	0.07
			229.00	230.00	AA18973	0.07
			230.00	231.00	AA18974	0.07
			231.00	232.00	AA18976	0.07
			232.00	233.00	AA18977	0.07
			233.00	234.00	AA18978	0.07
			234.00	235.00	AA18979	0.07
			235.00	236.00	AA18981	0.07
			236.00	237.00	AA18982	0.07
			237.00	238.00	AA18983	0.07
			238.00	239.00	AA18984	0.07
			239.00	240.00	AA18985	0.07
			240.00	241.00	AA18986	0.17
			241.00	242.00	AA18987	0.07
			242.00	243.00	AA18988	0.07
			243.00	244.00	AA18990	0.07
			244.00	245.00	AA18991	0.07
			245.00	246.00	AA18992	0.07
			246.00	247.00	AA18993	0.07
			247.00	248.00	AA18994	0.07
			248.00	249.00	AA18996	0.07
			249.00	249.36	AA18997	0.07
			249.36	250.00	AA18998	0.07
			250.00	250.50	AA18999	0.07
			250.50	251.00	AA19001	0.27
			251.00	252.00	AA19002	0.07
			252.00	253.00	AA19003	0.07
			253.00	254.00	AA19004	0.07
			254.00	255.00	AA19005	0.69
			255.00	256.00	AA19006	0.07
			256.00	257.00	AA19008	0.07
			257.00	257.50	AA19009	0.07
			257.50	258.24	AA19010	0.07
			258.24	258.66	AA19011	0.07
			258.66	259.46	AA19012	0.07
			259.46	260.00	AA19013	0.07
			260.00	261.00	AA19014	0.07



From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
			261.00	262.00	AA19016	0.07
			262.00	263.00	AA19017	0.07
			263.00	264.00	AA19018	0.27
			264.00	265.00	AA19019	0.07
			265.00	265.60	AA19021	0.07
			265.60	266.44	AA19022	0.07
			266.44	267.12	AA19023	0.07
			267.12	268.00	AA19024	0.07
			268.00	269.00	AA19026	0.07
			269.00	270.00	AA19027	0.07
			270.00	271.00	AA19028	0.07
			271.00	272.00	AA19029	0.07
			272.00	273.00	AA19030	0.07
			273.00	274.00	AA19031	0.07
			274.00	275.00	AA19032	0.07
			275.00	276.00	AA19033	0.07
			276.00	277.00	AA19034	0.07
			277.00	277.70	AA19036	0.24
			277.70	278.42	AA19037	0.07
278.42	286.02	chert-magnetite iron formation, thinly banded, 100, 10% wispy pyrrhotite, 3.5% banded biotite, 0.8% porphyroblastic garnet <i>R: sulphide bearing iron formation with 10-15% pyrrhotite occurring as wisps and strings throughout the unit. minor 4f component present. note: core has been logged by Mike Roberts from here on. note: all references to core angles are with respect to the top of the hole (collar) as a zero degree reference</i> *****	278.42	279.20	AA19038	0.10
			279.20	279.72	AA19039	0.41
			279.72	280.59	AA19041	0.07
			280.59	281.65	AA19042	0.07
			281.65	282.35	AA19043	0.07
			282.35	283.00	AA19044	0.07
			283.00	283.93	AA19045	0.07
			283.93	285.00	AA19046	0.24
			285.00	286.02	AA19047	0.41
286.02	289.65	basement basalt, homogeneous, 100, 3.5% veins quartz (not floods), tourmaline, 0.1% crystals MIN1 how/amount, 3.5% pervasive biotite, 0.8% patchy carbonate, 30% pervasive chlorite <i>R: green, fine grained, weakly magnetic, and moderately hard (4). this unit contains one 5cm wide quartz vein with 1 percent tourmaline crystals.</i> *****	286.02	287.00	AA19049	0.07
			287.00	288.00	AA19050	0.07
			288.00	289.00	AA19051	0.07
			289.00	289.65	AA19052	0.07
289.65	308.63	chert-magnetite iron formation, thinly banded, 90, garnet-biotite schist, glomeroporphyroblastic, 10, 3.5% stringers pyrrhotite, 5.5% flooded quartz flooding, 0.8% crystals arsenopyrite, 3.5% bedded biotite, 3.5% glomeroporphyroblastic garnet, 7.5% felty masses grunerite, 30% banded magnetite <i>R: unit is well bedded with a fair amount of grunerite and &lt;1% aspy. unit has only up to 3% 4f.</i> <i>R: 289.65 297.00 unit is weakly magnetic with little magnetic up to 10% grunerite</i> <i>R: 307.00 308.00 locally potassic alteration lower contact sharp at 32</i> *****	289.65	290.50	AA19053	0.07
			290.50	292.00	AA19054	0.07
			292.00	293.00	AA19056	0.07
			293.00	294.00	AA19057	0.07
			294.00	295.00	AA19058	0.07
			295.00	296.00	AA19059	0.07
			296.00	297.00	AA19061	0.07
			297.00	298.00	AA19062	0.14
			298.00	299.00	AA19063	0.48
			299.00	300.00	AA19064	0.07
			300.00	301.00	AA19065	0.14
			301.00	302.00	AA19066	0.21
			302.00	303.00	AA19067	0.48
			303.00	304.00	AA19068	0.48

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
			304.00	305.00	AA19070	0.07
			305.00	306.00	AA19071	0.07
			306.00	307.00	AA19072	0.07
			307.00	308.00	AA19073	0.24
			308.00	308.63	AA19074	0.07
308.63	319.56	ultramafic, massive, 100, heterogeneous, 0.1% stringers pyrrhotite, 3.5% microveins qtz-calcite veining, 3.5% laminated biotite, 20% pervasive carbonate, 20% pervasive chlorite <i>R: this unit is an ultramafic unit is green, grey, fine to medium grained, non magnetic, and moderately soft (2.5-3)* talcose*</i> <i>R: 310.64 312.04 this area consist of intercalated 4b contacts are irregular at 61 and 33 degrees contacts are fragmental relics with intercalated amphiboles in a 1cm xenoliths unit consists of 60% 4b 40% 1</i> *****	308.63	309.90	AA19076	0.07
			309.90	310.64	AA19077	0.07
			310.64	312.04	AA19078	0.07
			312.04	313.00	AA19079	0.07
319.56	439.51	basement basalt, massive, 100, foliated, 0.1% blebs pyrrhotite, 0.1% veins qtz-calcite veining, 10% laminated biotite, 10% pervasive chlorite <i>R: this unit consists of green amphiboles fine grained, moderately hard (4) and non magnetic</i> <i>R: 345.90 346.05 qc vein</i> <i>R: 373.99 374.40 barren qtz vein contacts sharp at 58 and 47 degrees</i> <i>R: 377.20 377.35 barren qtz vein contacts sharp at 47 degrees</i> <i>R: 403.50 403.55 qv tr po local incidents of dark core towards black colour due to in crease in biotite content</i> <i>R: 413.50 415.75 grey coloured core</i> <i>R: 415.75 419.00 black coloured core</i> <i>R: 418.35 418.40 qv contacts z folded at 37 and 48 degrees</i> <i>R: 418.55 418.62 qv contacts sharp at 45 and 42 degrees</i> <i>R: 419.05 419.20 qv contacts at 54 degrees</i> <i>R: 425.78 425.86 qv contacts sharp at 38 and 20 degrees</i> <i>R: 426.92 427.12 qc vein contacts sharp at 13 and 15 degrees lower contact gradational at 50 degrees</i> *****				
439.51	447.20	ultramafic, massive, 100, 0.1% blebs pyrrhotite, 1.5% fracture filling carbonate, 10% pervasive chlorite, 0.8% fracture filling calcite, 0 no garnet, 0 no grunerite <i>R: grey, green, fine to medium grained, non magnetic, and moderately soft (3-3.5) talcose massive lower contact irregular at 50 degrees</i> *****				
447.20	454.16	basement basalt, foliated, 100, 0.1% blebs pyrrhotite, 0.1% fracture filling qtz-calcite veining, 0.1% veins quartz (not floods), 10% pervasive biotite, 10% pervasive chlorite, 0.1% fracture filling calcite, 0.1% laminated magnetite <i>R: green, grey, black, fine grained, locally magnetic, and moderately hard (5) lower contact sharp at 34 degrees</i> *****	453.00	454.16	AA19081	0.07
454.16	462.57	chert-grunerite iron formation, banded, 50, quartz-carbonate iron formation, heterogeneous, 50, 3.5% stringers pyrrhotite, 1.5% boudins quartz flooding, 1.5% boudins quartz (not floods), 0.1% crystals arsenopyrite, 3.5% laminated biotite, 1.5% flooded carbonate, 1.5% banded chlorite, 3.5% glomeroporphyroblastic gamet, 10% felty masses grunerite, 1.5% laminated magnetite <i>R: green, grey, black, very fine grained, locally weakly magnetic and locally moderately strongly magnetic, and hard (5.5-6) this unit is a chert-grunerite-quartz carbonate iron format ion local po stringers up to 10-15% very local 4f beds</i>	454.16	455.00	AA19083	0.07
			455.00	456.00	AA19084	0.07
			456.00	457.00	AA19085	0.27
			457.00	458.00	AA19086	0.14
			458.00	459.00	AA19087	0.07
			459.00	460.00	AA19088	0.07

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
		<i>of 0.5cm thick lower contact sharp at 36 degrees *****</i>	460.00	461.00	AA19089	0.07
			461.00	462.00	AA19090	0.07
			462.00	462.57	AA19091	0.07
462.57	556.85	basement basalt, foliated, 100, massive, 0.1% blebs pyrrhotite, 0.1% stringers qtz-calcite veining, 0.1% veins quartz (not floods), 10% laminated biotite, 10% pervasive chlorite, 0.1% stringers calcite <i>R: typical volcanic unit with amphibole and biotite non descript</i> <i>R: 490.50 490.55 barren white qv contacts sharp at 30 degrees</i> <i>R: 492.00 492.80 fracture zone core is in small 1 cm wide pieces at angles from 30 to 150 degrees</i> <i>R: 498.20 498.90 fracture zone as above with angles at 30 to 150 degrees</i> <i>R: 504.20 504.30 healed microfault with quartz and po and py at contacts at 47 degrees</i> <i>R: 506.90 513.00 core is lighter green due to increase of pervasive chlorite and locally up to 15% quartz carbonate veinlets possibly due to hydrothermal reactions with above microfault?</i> <i>R: 537.61 537.81 qv barren contacts sharp at 33 and 32 degrees</i> <i>R: 547.32 547.85 interformational chert-amphibole iron formation (4e) unit contains 10% quartz stringers and veinlets contacts irregular and/or gradational at 44 and 36 degrees lower contact gradational at 45 degrees *****</i>	462.57	463.50	AA19092	0.07
			503.00	504.00	AA19093	0.07
			504.00	505.00	AA19094	0.07
			505.00	506.00	AA19096	0.07
			546.00	547.32	AA19097	0.07
			547.32	547.85	AA19098	0.07
			547.85	549.00	AA19099	0.07
			556.00	556.85	AA19101	0.07
556.85	561.84	chert-grunerite iron formation, contorted, 100, heterogeneous, 3.5% stringers pyrrhotite, 10% flooded quartz flooding, 10% patchy green amphibole, 10% laminated biotite, 0.1% stringers carbonate, 0.3% pervasive chlorite, 3.5% glomeroporphyroblastic garnet, 10% felty masses grunerite, 0.3% laminated magnetite <i>R: green, locally black, very fine grained, locally magnetic and moderately hard (5.5) is this an if? or just altered volcanic? lower contact gradational at 37 degrees *****</i>	556.85	558.00	AA19102	0.07
			558.00	559.00	AA19104	0.07
			559.00	560.00	AA19105	0.07
			560.00	561.00	AA19106	0.07
			561.00	561.84	AA19107	0.07
561.84	563.43	basement basalt, foliated, 100, homogeneous, 0.3% stringers qtz-calcite veining, 0.3% boudins quartz (not floods), 10% laminated biotite, 0.1% pervasive carbonate, 0.3% pervasive chlorite, 0.3% stringers calcite, 0.1% laminated magnetite <i>R: typical volcanic black, green, fine grained, non to weakly magnetic, and moderately hard (5) lower contact gradational at 40 degrees *****</i>	561.84	563.00	AA19108	0.07
			563.00	563.43	AA19109	0.07
563.43	565.24	chert-grunerite iron formation, contorted, 100, heterogeneous, 0.8% stringers pyrrhotite, 10% flooded quartz flooding, 0.8% stringers qtz-calcite veining, 0.1% veins quartz (not floods), 30% patchy green amphibole, 0.3% laminated biotite, 10% pervasive chlorite, 0.8% stringers calcite, 0.3% glomeroporphyroblastic garnet, 10% felty masses grunerite, 0.1% laminated magnetite <i>R: as 556.85 to 561.84 above this may be a limb but no micro folding is visible in the core lower contact gradational at 38 degrees *****</i>	563.43	564.00	AA19110	0.07
			564.00	565.24	AA19111	0.07
565.24	608.00	basement basalt, foliated, 100, homogeneous, 0.1% stringers pyrrhotite, 0.1% stringers qtz-calcite veining, 0.1% veins quartz (not floods), 10% laminated biotite, 10% pervasive chlorite, 0.1% stringers calcite <i>R: typical volcanic green, grey, fine grained, non magnetic and moderately hard (4.5-5) ***** e.o.h. 608.00m</i>	565.24	566.00	AA19112	0.07
			566.00	567.50	AA19113	0.07
			567.50	569.00	AA19114	0.07
			569.00	570.00	AA19116	0.07
			570.00	571.00	AA19117	0.07
608.00		** END OF HOLE **				



**PLACER DOME CANADA**

a division of  
PLACER DOME (CLA) LIMITED

P.O. Box 43  
Suite 3201, 130 Adelaide Street West  
Toronto, Ontario M5H 3P5  
Phone: (416) 363-4962 Fax: (416) 359-9787

**DDH: 506-1050**

**NORTHING:** 9192.70  
**EASTING:** 8826.30

**AZIMUTH:** 48.00  
**DIP:** -46.00

**DRILL DATE:** Jan. 1997

**DATE LOGGED:** Feb. 02, 1997

**LENGTH:** 83.00 metres

**DEPTH TO OVERBURDEN:** 12.19 metres

**LOCATION:** 12m south, 69m east of Post #3 of claim PA 529838

**DRILLED BY:** Midwest Drilling  
180 Cree Crescent  
Winnipeg, Manitoba  
R3J 3W1

**CORE:** CORE STORED ON PROPERTY

**REPRESENTATIVE OF COMPANY RESPONSIBLE FOR DRILL PROGRAM:**

Placer Dome Canada  
Paul Brown  
243 Hammell Road  
General Delivery  
Red Lake, Ontario  
P0V 2M0

signed by PAUL BROWN, Senior Geologist, PDC

\*\*\* Musselwhite \*\*\*  
Placer Dome Canada Limited

Drill Hole: 506-1050

Date: 2nd Apr, 1997  
Northing : 9192.70  
Easting : 8826.30  
Elevation : 5298.00  
Hole Depth : 83.00mt

**FINAL**

Project ID : 506E  
Core Size : NQ  
Date Logged : 02FEB97  
Logged By : MR  
Assisted by :

Date edited and initials of editor: LMC  
Date drilling started (mm/dd/yr): 01/29/97  
Date drilling finished: 01/30/97  
Date logging completed: 02/02/97  
Target zone: T  
Grid system: EBM  
Section N: 9194  
Survey company: PD  
Initial down hole survey method: SSIOL  
Final survey method (if different from initial):  
OVBD: 12.19  
Depth to ledge: 12.19  
Depth of casing: 12.19  
Was casing pulled?: N  
Type and amount of cement: VOLCLAY, 3 BAGS  
Grout plug installed?: Y AT 15M  
Abandoned?: N  
Claim #:  
Post location:  
Geotched by: WH  
Comments:

Drill Hole Survey Data  
Depth Azimuth Dip  
Collar 48.00 -46.00  
17.00 48.00 -44.75  
83.00 48.00 -37.50

Grid Azimuth: 317.95  
Coord System:

Drillers : MW  
Drill date : JAN97  
Rig Type :  
Drill Time :  
Print Template : GTRAN001.FMT  
Gtran Version : 3.6.6

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
R		all references to core axis are with respect to looking				
R		n plunge and are as they appear in the core box. all co				
R		angle measurements are taken in a clockwise manner usin				
R		the toe of the hole as a 180 degree reference and the				
R		collar as a 0 degree reference				
R		for structural data refer to the strip log				
R		geotechnical data is recorded in dbase iv				

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
R		-----				
0.00	12.19	overburden, 100 R: -----				
12.19	13.16	mafic to intermediate volcanics, massive, 100, 0.1% stringers qtz-calcite veining, 0.1% banded green amphibole, 0.1% banded biotite, 0.1% banded chlorite, 0.1% stringers calcite, 0.1% glomeroporphyroblastic garnet, 0.1% felty masses grunerite, 0.1% disseminated magnetite R: green, fine grained, non magnetic, and moderately hard R: 12.19 12.24 4ea piece R: 12.19 12.50 broken blocky rusty fractured core lower contact irregular at 73 degrees -----	12.19	13.16	AA19777	0.07
13.16	37.88	chert-grunerite-amphibole-garnet iron formation, banded, 100, contorted, 0.3% stringers pyrrhotite, 0.3% flooded quartz flooding, 0.1% speck(s) visible gold, 0.1% stringers qtz-calcite veining, 0.1% boudins quartz (not floods), 10% banded green amphibole, 0.1% crystals arsenopyrite, 10% banded biotite, 10% banded chlorite, 0.1% stringers calcite, 10% banded garnet, 10% felty masses grunerite, 1.5% laminated magnetite R: grey, green, pink, very fine grained, weakly to moderately magnetic, and hard (5.5) local 10% 4f beds R: 28.03 28.12 interbedded wacke and/or argillite contacts sharp at 37 and 46 degrees lower contact gradational at 63 degrees -----	13.16 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00 23.00 24.00 25.00 26.00 27.00 28.00 29.00 30.00 31.00 32.00 33.00 34.00 35.00 36.00 37.00	14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00 23.00 24.00 25.00 26.00 27.00 28.00 29.00 30.00 31.00 32.00 33.00 34.00 35.00 36.00 37.88	AA19778 AA19779 AA19781 AA19782 AA19783 AA19784 AA19785 AA19786 AA19787 AA19788 AA19789 AA19790 AA19791 AA19792 AA19793 AA19794 AA19797 AA19798 AA19799 AA19801 AA19802 AA19803 AA19804 AA19805 AA19806	0.07 0.07 0.07 0.07 0.07 0.07 0.21 0.07 0.07 0.27 0.10 0.14 1.44 0.21 3.09 1.71 6.31 0.58 4.05 2.02 0.38 0.38 0.24 0.41 2.81
37.88	47.90	chert-magnetite iron formation, banded, 100, 0.1% stringers pyrrhotite, 0.1% flooded quartz flooding, 0.1% stringers qtz-calcite veining, feldspar, 0.1% pervasive MIN1 how/amount, GU, TB, 0.1% banded green amphibole, 0.3% banded biotite, 0.1% pervasive carbonate, 0.1% banded chlorite, 0.1% stringers calcite, 0.3% glomeroporphyroblastic garnet, 0.3% felty masses grunerite, 3.5% laminated magnetite R: grey, local green, local pink, very fine grained, moderate magnetic to strongly magnetic, and hard (5.5) local 4ea local 4f local quartz albite intrusive R: 38.72 40.02 50% 4b with recrystallized chert and 50% 4f beds contacts gradational at 55 and 55 degrees R: 42.92 44.25 interbedded 4ea contacts gradational at 33 and 41 degrees R: 45.05 45.35 fracture zone fractures from 29 to 37 degrees	37.88 38.72 40.02 41.00 42.00 42.93 44.25 45.28 45.71	38.72 40.02 41.00 42.00 42.93 44.25 45.28 45.71	AA19807 AA19808 AA19809 AA19810 AA19811 AA19812 AA19813 AA19816 AA19817	0.07 0.07 0.14 0.07 0.07 0.93 0.07 0.10 0.07

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
		<i>R: 45.28 45.71 interbedded 4ea upper contact fractured at 37 degrees lower contact irregular at 57 degrees</i>	46.05	46.54	AA19818	0.41
		<i>R: 45.71 46.05 quartz albite intrusive &lt;1mm quartz and albite phenocrysts upper contact irregular at 57 degrees lower contact irregular at 42 degrees</i>	46.54	47.90	AA19819	0.07
		<i>R: 46.05 46.54 interbedded 4ea upper contact irregular at 42 degrees lower contact gradational at 59 degrees lower contact gradational at 50 degrees *****</i>				
47.90	55.99	chert-grunerite-amphibole-garnet iron formation, contorted, 100, banded, 0.1% stringers pyrrhotite, 1.5% flooded quartz flooding, 0.1% stringers qtz-calcite veining, 1.5% banded green amphibole, 1.5% banded biotite, 1.5% banded chlorite, 0.1% stringers calcite, 1.5% glomeroporphyroblastic garnet, 3.5% felty masses grunerite, 10% laminated magnetite	47.90	49.00	AA19821	0.07
		<i>R: grey, green, very fine grained, moderately magnetic, and hard (5.5) unit is contorted and low in 4f component possibly altered 4b gruneritized lower contact gradational at 56 degrees *****</i>	49.00	50.00	AA19822	0.10
			50.00	51.00	AA19823	4.59
			51.00	52.00	AA19824	1.78
			52.00	53.00	AA19825	2.02
			53.00	54.00	AA19826	0.14
			54.00	55.00	AA19827	0.14
			55.00	55.99	AA19828	0.65
55.99	65.19	chert-magnetite iron formation, banded, 100, contorted, 0.1% stringers pyrrhotite, 0.1% flooded quartz flooding, GU, 0.8% banded green amphibole, 0.8% banded biotite, 0.1% pervasive carbonate, 0.8% banded chlorite, 0.1% fracture filling calcite, 0.8% glomeroporphyroblastic garnet, 0.8% felty masses grunerite, 3.5% laminated magnetite	55.99	57.00	AA19829	0.07
		<i>R: grey, very fine grained, strongly magnetic, and hard (5.5) unit contains 2-3% intercalated 4f and 4e/4ea lower contact gradational at 38 degrees *****</i>	57.00	58.00	AA19830	0.07
			58.00	59.42	AA19831	0.17
			59.42	60.00	AA19832	0.07
			60.00	61.00	AA19833	0.72
			61.00	62.00	AA19834	0.07
			62.00	63.00	AA19837	0.07
			63.00	64.00	AA19838	0.07
			64.00	65.19	AA19839	0.07
65.19	68.20	chert-grunerite-amphibole-garnet iron formation, banded, 100, 0.3% stringers pyrrhotite, 1.5% flooded quartz flooding, 0.1% fracture filling qtz-calcite veining, TB, 10% banded green amphibole, 10% banded biotite, 10% banded chlorite, 0.1% fracture filling calcite, 10% glomeroporphyroblastic garnet, 10% felty masses grunerite, 3.5% laminated magnetite	65.19	66.00	AA19841	0.07
		<i>R: grey, green, pink, very fine grained, moderately to strongly magnetic, and hard (5.5) lower contact gradational at 39 degrees *****</i>	66.00	67.00	AA19842	0.45
			67.00	68.20	AA19843	9.02
68.20	77.59	chert-magnetite iron formation, banded, 100, crenulated, 0.1% stringers pyrrhotite, 0.3% flooded quartz flooding, 0.1% fracture filling qtz-calcite veining, 0.1% banded green amphibole, 0.1% crystals arsenopyrite, 0.1% banded biotite, 0.1% pervasive carbonate, 0.1% banded chlorite, 0.1% fracture filling calcite, 0.1% glomeroporphyroblastic garnet, 0.1% felty masses grunerite, 5.5% laminated magnetite	68.20	69.00	AA19844	0.07
		<i>R: grey, very fine grained, strongly magnetic, and hard (5.5) local flooding at bottom of unit possibly grading into 4ea local minor 4f beds local weakly gruneritized lower contact gradational at 53 degrees *****</i>	69.00	70.00	AA19845	0.07
			70.00	71.00	AA19846	0.07
			71.00	72.00	AA19847	0.07
			72.00	73.00	AA19848	0.07
			73.00	74.00	AA19849	0.07
			74.00	75.00	AA19850	0.07
			75.00	76.00	AA19851	0.07
			76.00	77.00	AA19852	3.94
			77.00	77.59	AA19853	2.26
77.59	83.00	mafic to intermediate volcanics, foliated, 100, massive, 0 no pyrrhotite, 0 no quartz flooding, 0.8% veins qtz-calcite veining, 40% pervasive green amphibole, 10% pervasive chlorite, 0.1% stringers calcite	77.59	79.00	AA19856	0.07
		<i>R: green, fine grained, non magnetic, and moderately hard (4.5 -5) eoh *****</i>				

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
83.00		** END OF HOLE **				





**PLACER DOME CANADA**

a division of  
PLACER DOME (CLA) LIMITED

P.O. Box 43  
Suite 3201, 130 Adelaide Street West  
Toronto, Ontario M5H 3P5  
Phone: (416) 363-4962 Fax: (416) 359-9787

**DDH: 506-1051**

**NORTHING:** 9156.00  
**EASTING:** 8819.50

**AZIMUTH:** 48.00  
**DIP:** -45.00

**DRILL DATE:** Jan. 1997

**DATE LOGGED:** Feb. 05, 1997

**LENGTH:** 56.00 metres

**DEPTH TO OVERBURDEN:** 12.19 metres

**LOCATION:** 43m south, 88m east of Post #3 of claim PA 529838

**DRILLED BY:** Midwest Drilling  
180 Cree Crescent  
Winnipeg, Manitoba  
R3J 3W1

**CORE:** CORE STORED ON PROPERTY

**REPRESENTATIVE OF COMPANY RESPONSIBLE FOR DRILL PROGRAM:**

Placer Dome Canada  
Paul Brown  
243 Hammell Road  
General Delivery  
Red Lake, Ontario  
P0V 2M0

signed by PAUL BROWN, Senior Geologist, PDC

\*\*\* Musselwhite \*\*\*  
Placer Dome Canada Limited

Drill Hole: 506-1051

Date: 2nd Apr, 1997  
Northing : 9156.00  
Easting : 8819.50  
Elevation : 5297.40  
Hole Depth : 56.00mt

**FINAL**

Project ID : 506E  
Core Size : NQ  
Date Logged : 05FEB97  
Logged By : MR  
Assisted by :

Date edited and initials of editor: LMC  
Date drilling started (mm/dd/yr): 01/30/97  
Date drilling finished: 01/31/97  
Date logging completed: 02/05/97  
Target zone: T  
Grid system: EBM  
Section N: 9157  
Survey company: PD  
Initial down hole survey method: SSIOL  
Final survey method (if different from initial):  
OVBD: 12.19  
Depth to ledge: 12.19  
Depth of casing: 12.19  
Was casing pulled?: N  
Type and amount of cement: VOLCLAY, 3 BAGS  
Grout plug installed?: Y AT 15M  
Abandoned?: N  
Claim #:  
Post location:  
Geotched by: WH  
Comments:

Drill Hole Survey Data  
Depth Azimuth Dip  
Collar 48.00 -45.00  
17.00 48.00 -43.75  
56.00 48.00 -41.00

Grid Azimuth: 317.95  
Coord System:

Drillers : MW  
Drill date : JAN97  
Rig Type :  
Drill Time :  
Print Template : GTRAN001.FMT  
Gtran Version : 3.6.6

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
R		all references to core axis are with respect to looking				
R		down plunge and are as they appear in the core box. all				
R		core angle measurements are taken in a clockwise manner				
R		using the toe of the hole as a 180 degree reference and				
R		collar as a 0 degree reference.				
R		for structural data, refer to the strip log.				
R		geotechnical data is recorded in dbase iv.				



From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
		25 degree rotated 85 degrees clockwise eoh .....	50.00	51.00	AA19902	0.07
			51.00	52.00	AA19903	0.07
			52.00	53.00	AA19904	0.07
			53.00	54.00	AA19905	1.27
			54.00	55.00	AA19906	0.72
			55.00	56.00	AA19907	0.75
56.00		** END OF HOLE **				



**PLACER DOME CANADA**

a division of  
PLACER DOME (CLA) LIMITED

P.O. Box 43  
Suite 3201, 130 Adelaide Street West  
Toronto, Ontario M5H 3P5  
Phone: (416) 363-4962 Fax: (416) 359-9787

**DDH: 506-1055**

**NORTHING:** 9425.00  
**EASTING:** 8862.00

**AZIMUTH:** 228.00  
**DIP:** -50.00

**DRILL DATE:** Feb. 1997

**DATE LOGGED:** Feb. 08, 1997

**LENGTH:** 60.67 metres

**DEPTH TO OVERBURDEN:** 14.02 metres

**LOCATION:** 160m north, 61m west of Post #2 of claim PA 529839

**DRILLED BY:** Midwest Drilling  
180 Cree Crescent  
Winnipeg, Manitoba  
R3J 3W1

**CORE:** CORE STORED ON PROPERTY

**REPRESENTATIVE OF COMPANY RESPONSIBLE FOR DRILL PROGRAM:**

Placer Dome Canada  
Paul Brown  
243 Hammell Road  
General Delivery  
Red Lake, Ontario  
P0V 2M0

signed by PAUL BROWN, Senior Geologist, PDC

Date: 2nd Apr, 1997  
Northing : 9425.00  
Easting : 8862.00  
Elevation : 5294.60  
Hole Depth : 60.67mt

Project ID : 506E  
Core Size : NQ  
Date Logged : 08FEB97  
Logged By : MR  
Assisted by :

FINAL

Date edited and initials of editor: LMC  
Date drilling started (mm/dd/yr): 02/03/97  
Date drilling finished: 02/03/97  
Date logging completed: 02/08/97  
Target zone: T  
Grid system: EBM  
Section N: 9425  
Survey company: PD  
Initial down hole survey method: SSIOL  
Final survey method (if different from initial):  
OVBD: 14.02  
Depth to ledge: 14.02  
Depth of casing: 14.02  
Was casing pulled?: Y  
Type and amount of cement: VOLCLAY, 2 BAGS  
Grout plug installed?: Y AT 18M  
Abandoned?: N  
Claim #:  
Post location:  
Geotched by: WH  
Comments:

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	228.00	-50.00
20.00	228.00	-48.00
60.00	228.00	-46.75

Grid Azimuth: 317.95  
Coord System:

Drillers : MW  
Drill date : FEB97  
Rig Type :  
Drill Time :  
Print Template : GTRAN001.FMT  
Gtran Version : 3.6.6

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
R		all references to core axis are with respect to looking				
R		down plunge and are as they appear in the core box. all				
R		core angle measurements are taken in a clockwise manner				
R		using the toe of the hole as a 180 degree reference and				
R		collar as a 0 degree reference.				
R		for structural data, refer to the strip log.				
R		geotechnical data is recorded in dbase iv.				

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
R		*****				
0.00	14.02	overburden, 100 R: *****				
14.02	36.70	mafic to intermediate volcanics, foliated, 100, 0.1% stringers pyrrhotite, 0.1% flooded quartz flooding, 1.5% stringers qtz-calcite veining, 1.5% veins quartz (not floods), 30% pervasive green amphibole, 20% banded biotite, 20% pervasive chlorite, 1.5% stringers calcite, 0.1% glomeroporphyroblastic garnet, 0.1% disseminated magnetite R: green, locally brown, fine grained, very weakly magnetic, and moderately hard (4.5) strongly fractured throughout unit fractures from 20 degrees to 176 degrees 2% recrystallized quartz veins 1-5cm in width local garnet amphibole interbeds local biotite alteration R: 21.66 22.29 interformational 4e contacts gradational at 31 and 20 degrees R: 24.89 25.41 interformational 4e contacts gradational at 27 degrees and 25 degrees R: 30.30 31.46 quartz vein contacts at 47 and 44 degrees lower contact gradational at 38 degrees *****	21.00 21.66 22.29 23.00 24.00 24.89 25.41 26.00 29.00 30.30 31.46 36.00	21.66 22.29 23.00 24.00 24.89 25.41 26.00 30.30 31.46 36.70	FE39030 FE39031 FE39032 FE39033 FE39036 FE39037 FE39038 FE39039 FE39041 FE39042 FE39043 FE39044	0.14 3.77 0.45 0.17 0.07 2.02 2.61 0.17 1.65 1.71 0.24 0.10
36.70	38.55	chert-grunerite-amphibole-garnet iron formation, banded, 90, garnet-biotite schist, glomeroporphyroblastic, 10, 0.1% stringers pyrrhotite, 0.1% flooded quartz flooding, 10% banded green amphibole, 10% banded biotite, 10% banded chlorite, 20% glomeroporphyroblastic garnet, 7.5% felty masses grunerite, 0.3% laminated magnetite R: grey, green, black, pink, very fine grained, very weakly magnetic, and hard (5.5) unit is weakly gruneritized almost 4e R: 36.70 37.04 4f lower contact gradational at 37 degrees lower contact gradational at 41 degrees *****	36.70 37.04 38.00	37.04 38.00 38.55	FE39045 FE39046 FE39047	0.07 0.07 0.17
38.55	60.67	mafic to intermediate volcanics, foliated, 100, 0.1% blebs pyrrhotite, 0.1% flooded quartz flooding, 0.1% stringers qtz-calcite veining, 0.3% veins quartz (not floods), 30% pervasive green amphibole, 1.5% banded biotite, 20% pervasive chlorite, 0.1% stringers calcite, 0.1% glomeroporphyroblastic garnet, 0.1% disseminated magnetite R: green, fine grained, very weakly magnetic, and moderately hard (4.5) local interformational garnet amphibole trace recrystallized quartz and quartz carbonate stringers and veins R: 49.51 49.75 interformational 4e contacts gradational at 39 and 35 degrees eoh *****	38.55 39.00 49.00 49.51 49.75	39.00 40.00 49.51 49.75 51.00	FE39048 FE39049 FE39050 FE39051 FE39052	0.07 0.07 0.07 0.07 0.07
60.67		** END OF HOLE **				



**PLACER DOME CANADA**

a division of  
PLACER DOME (CLA) LIMITED

P.O. Box 43  
Suite 3201, 130 Adelaide Street West  
Toronto, Ontario M5H 3P5  
Phone: (416) 363-4962 Fax: (416) 359-9787

**DDH: 506-1062**

**NORTHING:** 9450.50                      **AZIMUTH:** 228.00  
**EASTING:** 8906.00                      **DIP:** -55.00

**DRILL DATE:** Feb. 1997                      **DATE LOGGED:** Feb. 15, 1997

**LENGTH:** 78.21 metres

**DEPTH TO OVERBURDEN:** 15.85 metres

**LOCATION:** 209m north, 45m west of Post #2 of claim PA 529839

**DRILLED BY:** Midwest Drilling  
180 Cree Crescent  
Winnipeg, Manitoba  
R3J 3W1

**CORE:** CORE STORED ON PROPERTY

**REPRESENTATIVE OF COMPANY RESPONSIBLE FOR DRILL PROGRAM:**

Placer Dome Canada  
Paul Brown  
243 Hammell Road  
General Delivery  
Red Lake, Ontario  
P0V 2M0

signed by PAUL BROWN, Senior Geologist, PDC



Date: 18th Apr, 1997  
 Northing : 9450.50  
 Easting : 8906.00  
 Elevation : 5294.60  
 Hole Depth : 78.21mt

Project ID : 506E  
 Core Size : NQ  
 Date Logged : 15FEB97  
 Logged By : MR  
 Assisted by :

**FINAL**

Date edited and initials of editor: LMC  
 Date drilling started (mm/dd/yr): 02/10/97  
 Date drilling finished: 02/11/97  
 Date logging completed: 02/15/97  
 Target zone: T  
 Grid system: EBM  
 Section N: 9450  
 Survey company: PD  
 Initial down hole survey method: SSIOL  
 Final survey method (if different from initial):  
 OVBD: 15.85  
 Depth to ledge: 15.85  
 Depth of casing: 15.85  
 Was casing pulled?: Y  
 Type and amount of cement: VOLCLAY, 3 BAGS  
 Grout plug installed?: Y AT 70M, 50M, 20M  
 Sample number series:  
 Number of samples taken:  
 Abandoned?: BS  
 Claim #:  
 Post location:  
 Geotched by: WH  
 Comments:

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	228.00	-55.00
20.00	228.00	-51.75
77.00	228.00	-51.50

Grid Azimuth: 317.95  
 Coord System:

Drillers : MW  
 Drill date : FEB97  
 Rig Type :  
 Drill Time :  
 Print Template : GTRAN001.FMT  
 Gtran Version : 3.6.6

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
R		all references to core axis are with respect to looking				
R		down plunge and are as they appear in the core box. all				
R		core angle measurements are taken in a clockwise manner				
R		using the toe of the hole as a 180 degree reference and				
R		collar as a 0 degree reference.				
R		for structural data, refer to the strip log.				

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
R		geotechnical data is recorded in dbase iv.				
R		.....				
R		note: hole was abandoned due to the intersecting of				
R		underground crosscut				
R		.....				
0.00	15.85	overburden, 100 R: .....				
15.85	22.67	gamet-biotite schist, glomeroporphyroblastic, 90, gamet-amphibole iron formation, contorted, 10, 0.1% blebs pyrrhotite, 0.1% flooded quartz flooding, 0.1% stringers qtz-calcite veining, 10% banded green amphibole, 20% banded biotite, 5.5% banded chlorite, 0.1% fracture filling calcite, 30% glomeroporphyroblastic gamet, 0.1% felty masses grunerite, 1.5% disseminated magnetite R: black, pink, green, very fine grained, weakly magnetic, and hard (5) local bvol interbed R: 17.36 18.00 interbedded bvol contacts gradational at 45 and 40 degrees R: 20.72 21.47 interbedded bvol contacts gradational at 51 and 39 degrees lower contact ground at 59 degrees .....	15.85 17.36 18.00 19.00 20.00 20.72 21.47	17.36 18.00 19.00 20.00 20.72 22.67	FE39418 FE39419 FE39421 FE39422 FE39423 FE39424 FE39425	0.17 0.07 0.07 0.07 0.07 0.07 0.07
22.67	34.78	mafic to intermediate volcanics, foliated, 100, 0.1% blebs pyrrhotite, 0.1% flooded quartz flooding, 0.8% stringers qtz-calcite veining, 30% pervasive green amphibole, 0.1% banded biotite, 20% pervasive chlorite, 0.1% fracture filling calcite, 0.1% glomeroporphyroblastic gamet, 0.1% disseminated magnetite R: green, fine grained, very weakly magnetic, and moderately hard (4.5) local 4f/4e interbed R: 28.06 28.74 interformational 60% 4f / 40% 4e contacts gradational at 51 and 53 degrees lower contact gradational at 49 degrees .....	22.67 27.00 28.06 28.74 34.00	24.00 28.06 28.74 30.00 34.78	FE39426 FE39427 FE39428 FE39429 FE39430	0.07 0.07 0.07 0.07 0.07
34.78	36.58	gamet-amphibole iron formation, contorted, 90, mafic to intermediate volcanics, glomeroporphyroblastic, 10, 0.8% stringers pyrrhotite, 0.3% flooded quartz flooding, 0.8% stringers qtz-calcite veining, 20% banded green amphibole, 10% banded biotite, 10% banded chlorite, 0.1% fracture filling calcite, 20% glomeroporphyroblastic gamet, 0.1% felty masses grunerite, 0.3% laminated magnetite R: green, grey, pink, fine grained, very weakly magnetic, and hard (5) recrystallized chert unit has the appearance of being an intraformational 4e 20% intercalated bvol 3% 4f beds R: 34.95 35.00 interbedded bvol contacts gradational at 41 and 53 degrees R: 35.23 35.44 interbedded bvol contacts gradational at 44 and 51 degrees lower contact gradational at 61 degrees .....	34.78 35.44	35.44 36.58	FE39431 FE39432	0.07 8.98
36.58	65.00	mafic to intermediate volcanics, foliated, 100, 0 no pyrrhotite, 0 no quartz flooding, 0.3% stringers qtz-calcite veining, 30% pervasive green amphibole, 0.1% pervasive biotite, 20% pervasive chlorite, 0.1% fracture filling calcite, 0.1% disseminated magnetite R: green, fine grained, very weakly magnetic, and moderately hard (4.5) lower contact fractured at 38 degrees .....	36.58 64.00	38.00 65.00	FE39433 FE39436	0.24 0.21

From	To	Geology	FROM A001	TO A001	SAMPLE A001	AU-FIN A001
65.00	78.21	chert-grunerite-amphibole-gamet iron formation, contorted, 100, banded, 0.1% stringers pyrrhotite, 0.8% flooded quartz flooding, 0.1% stringers qtz-calcite veining, 10% banded green amphibole, 10% banded biotite, 10% banded chlorite, 0.1% fracture filling calcite, 10% glomeroporphyroblastic gamet, 10% felty masses grunerite, 1.5% laminated magnetite <i>R: grey, green, pink, very fine grained, weakly to moderately magnetic, and hard (5.5) local bvol interbed</i> <i>R: 72.33 72.83 interbedded bvol unit is strongly fractured with several fractures at 39 degrees. upper contact sharp at 49 degrees lower contact fractured at 49 degrees hole abandoned due to intersecting underground mine workings</i> eoh *****	65.00	66.00	FE39437	2.40
			66.00	67.00	FE39438	10.63
			67.00	68.00	FE39439	3.67
			68.00	69.00	FE39441	2.02
			69.00	70.00	FE39442	0.89
			70.00	71.00	FE39443	0.31
			71.00	72.33	FE39444	-0.24
			72.33	72.83	FE39445	0.55
			72.83	74.00	FE39446	0.07
			74.00	75.00	FE39447	1.85
			75.00	76.00	FE39448	1.34
			76.00	77.00	FE39449	2.81
			77.00	78.21	FE39450	0.45
78.21		** END OF HOLE **				



# 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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1163  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 30-DEC-96  
Invoice No. : 19643096  
P.O. Number : TM196065  
Account : MUS

## CERTIFICATE OF ANALYSIS

A9643096

SAMPLE	PREP CODE		Au FA g/t	Au check								
AA17834	1388	274	0.31	-----								
AA17835	1388	274	< 0.07	< 0.070								
AA17836	1388	274	15.63	15.290								
AA17837	1388	274	0.41	-----								
AA17838	1388	274	0.96	-----								
AA17839	1388	274	0.38	-----								
AA17840	1388	274	0.41	-----								

CERTIFICATION:

*Leslie Baldwin*



# 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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD D1164  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 30-DEC-96  
Invoice No. : 19643097  
P.O. Number : TM196065  
Account : MUS

## CERTIFICATE OF ANALYSIS

A9643097

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA17841	1388 274	0.14	-----								
AA17842	1388 274	3.91	4.180								
AA17843	1388 274	< 0.07	-----								
AA17844	1388 274	< 0.07	-----								
AA17845	1388 274	< 0.07	-----								
AA17846	1388 274	3.57	4.010								
AA17847	214 --	6.48	-----								
AA17848	1388 274	< 0.07	-----								
AA17849	1388 274	0.14	-----								
AA17850	1388 274	0.65	-----								
AA17851	1388 274	0.24	-----								
AA17852	1388 274	< 0.07	-----								
AA17853	1388 274	< 0.07	-----								
AA17854	1388 274	< 0.07	-----								
AA17855	1388 274	< 0.07	-----								
AA17856	1388 274	< 0.07	-----								
AA17857	1388 274	< 0.07	-----								
AA17858	1388 274	< 0.07	-----								
AA17859	1388 274	0.17	-----								
AA17860	1388 274	< 0.07	-----								
DAA17841	214 --	-----	0.140								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.690								

CERTIFICATION:



# 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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Page Number : 1  
Total Pages : 1  
Certificate Date: 23-DEC-96  
Invoice No. : 19643098  
P.O. Number : TM196065  
Account : MUS

Project : SD\_D1165  
Comments: ATTN: LESLIE BALDWIN

## CERTIFICATE OF ANALYSIS A9643098

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA17861	1388 274	< 0.07	-----								
AA17862	1388 274	< 0.07	-----								
AA17863	1388 274	< 0.07	-----								
AA17864	1388 274	< 0.07	-----								
AA17865	1388 274	< 0.07	-----								
AA17866	1388 274	< 0.07	-----								
AA17867	1388 274	< 0.07	-----								
AA17868	214 --	6.21	-----								
AA17869	1388 274	0.17	-----								
AA17870	1388 274	< 0.07	-----								
AA17871	1388 274	0.10	-----								
AA17872	1388 274	< 0.07	-----								
AA17873	1388 274	< 0.07	-----								
AA17874	1388 274	< 0.07	-----								
AA17875	1388 274	< 0.07	-----								
AA17876	1388 274	< 0.07	-----								
AA17877	1388 274	< 0.07	-----								
AA17878	1388 274	< 0.07	-----								
AA17879	1388 274	< 0.07	-----								
AA17880	1388 274	< 0.07	-----								
DAA17861	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.920								

CERTIFICATION: *Leslie Baldwin*



# 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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1166  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 30-DEC-96  
Invoice No. : 19643099  
P.O. Number : TM196065  
Account : MUS

## CERTIFICATE OF ANALYSIS A9643099

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA17881	1388	274	< 0.07	-----								
AA17882	1388	274	< 0.07	-----								
AA17883	1388	274	< 0.07	-----								
AA17884	1388	274	0.41	0.380								
AA17885	1388	274	0.41	0.520								
AA17886	214	--	6.17	-----								
AA17887	1388	274	< 0.07	-----								
AA17888	1388	274	< 0.07	-----								
AA17889	1388	274	< 0.07	-----								
AA17890	1388	274	< 0.07	-----								
AA17891	1388	274	< 0.07	-----								
AA17892	1388	274	< 0.07	-----								
AA17893	1388	274	< 0.07	-----								
AA17894	1388	274	< 0.07	-----								
AA17895	1388	274	< 0.07	-----								
AA17896	1388	274	< 0.07	-----								
AA17897	1388	274	< 0.07	-----								
AA17898	1388	274	< 0.07	-----								
AA17899	1388	274	< 0.07	-----								
AA17900	1388	274	< 0.07	-----								
DAA17881	214	--	-----	< 0.070								
100000	214	--	-----	< 0.070								
GMN-1A	214	--	-----	5.550								

CERTIFICATION: *John Walsh*



# 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  
 MUSSELWHITE PROJECT (508)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 23-DEC-96  
 Invoice No. : 19643100  
 P.O. Number : TM196065  
 Account : MUS

Project : SD\_D1167  
 Comments : ATTN: LESLIE BALDWIN

## CERTIFICATE OF ANALYSIS

A9643100

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA17901	1388 274	< 0.07	-----								
AA17902	1388 274	< 0.07	-----								
AA17903	1388 274	< 0.07	-----								
AA17904	1388 274	< 0.07	-----								
AA17905	1388 274	< 0.07	-----								
AA17906	1388 274	< 0.07	-----								
AA17907	214 --	6.07	-----								
AA17908	1388 274	< 0.07	-----								
AA17909	1388 274	< 0.07	-----								
AA17910	1388 274	0.62	-----								
AA17911	1388 274	0.17	-----								
AA17912	1388 274	0.27	-----								
AA17913	1388 274	< 0.07	-----								
AA17914	1388 274	< 0.07	-----								
AA17915	1388 274	< 0.07	-----								
AA17916	1388 274	0.10	-----								
AA17917	1388 274	< 0.07	-----								
AA17918	1388 274	< 0.07	-----								
AA17919	1388 274	< 0.07	-----								
AA17920	1388 274	0.27	-----								
DAA17901	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.850								

CERTIFICATION: *[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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 23-DEC-96  
 Invoice No. : I9643101  
 P.O. Number : TM196065  
 Account : MUS

Project : SD\_D1168  
 Comments: ATTN: LESLIE BALDWIN

## CERTIFICATE OF ANALYSIS

### A9643101

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA17921	1388 274	< 0.07	-----								
AA17922	1388 274	< 0.07	-----								
AA17923	1388 274	< 0.07	-----								
AA17924	1388 274	0.89	-----								
AA17925	1388 274	0.14	-----								
AA17926	1388 274	0.07	-----								
AA17927	1388 274	0.07	-----								
AA17928	1388 274	< 0.07	-----								
AA17929	1388 274	< 0.07	-----								
AA17930	1388 274	0.31	-----								
AA17931	214 --	6.45	-----								
AA17932	1388 274	< 0.07	-----								
AA17933	1388 274	< 0.07	-----								
AA17934	1388 274	< 0.07	-----								
AA17935	1388 274	< 0.07	-----								
AA17936	1388 274	0.14	-----								
AA17937	1388 274	< 0.07	-----								
AA17938	1388 274	< 0.07	-----								
AA17939	1388 274	< 0.07	-----								
AA17940	1388 274	< 0.07	-----								
DAA17921	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.550								

CERTIFICATION: \_\_\_\_\_

*Leslie Baldwin*



# 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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Project: SD\_D1169  
 Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 23-DEC-96  
 Invoice No. : 19643102  
 P.O. Number : TM196065  
 Account : MUS

## CERTIFICATE OF ANALYSIS

A9643102

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA17941	1388	274	0.38	-----								
AA17942	1388	274	< 0.07	-----								
AA17943	1388	274	0.55	-----								
AA17944	1388	274	< 0.07	-----								
AA17945	1388	274	0.14	-----								
AA17946	214	--	7.03	-----								
AA17947	1388	274	< 0.07	-----								
AA17948	1388	274	< 0.07	-----								
AA17949	1388	274	< 0.07	-----								
AA17950	1388	274	< 0.07	-----								
AA17951	1388	274	0.21	-----								
AA17952	1388	274	< 0.07	-----								
AA17953	1388	274	< 0.07	-----								
AA17954	1388	274	< 0.07	-----								
AA17955	1388	274	< 0.07	-----								
AA17956	1388	274	< 0.07	-----								
AA17957	1388	274	< 0.07	-----								
AA17958	1388	274	< 0.07	-----								
AA17959	1388	274	< 0.07	-----								
AA17960	1388	274	0.07	-----								
DAA17941	214	--	-----	0.410								
100000	214	--	-----	< 0.070								
RB-1	214	--	-----	1.850								

CERTIFICATION:

*[Handwritten Signature]*



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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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1170  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 23-DEC-96  
Invoice No. : 19643103  
P.O. Number : TM196065  
Account : MUS

## CERTIFICATE OF ANALYSIS

A9643103

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA17961	1388 274	< 0.07	-----								
AA17962	1388 274	< 0.07	-----								
AA17963	1388 274	< 0.07	-----								
AA17964	1388 274	< 0.07	-----								
AA17965	1388 274	< 0.07	-----								
AA17966	1388 274	< 0.07	-----								
AA17967	1388 274	< 0.07	-----								
AA17968	1388 274	0.10	-----								
AA17969	1388 274	< 0.07	-----								
AA17970	1388 274	< 0.07	-----								
AA17971	1388 274	< 0.07	-----								
AA17972	1388 274	< 0.07	-----								
AA17973	214 --	6.00	-----								
AA17974	1388 274	< 0.07	-----								
AA17975	1388 274	< 0.07	-----								
AA17976	1388 274	0.48	-----								
AA17977	1388 274	0.51	-----								
AA17978	1388 274	< 0.07	-----								
AA17979	1388 274	< 0.07	-----								
AA17980	1388 274	< 0.07	-----								
DAA17961	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.490								

CERTIFICATION:



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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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1171  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 23-DEC-96  
Invoice No. : 19643104  
P.O. Number : TM196065  
Account : MUS

## CERTIFICATE OF ANALYSIS A9643104

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA17981	1388 274	0.31	-----								
AA17982	1388 274	1.23	-----								
AA17983	1388 274	0.17	-----								
AA17984	1388 274	0.17	-----								
AA17985	1388 274	0.27	-----								
AA17986	1388 274	0.51	-----								
AA17987	1388 274	0.82	-----								
AA17988	1388 274	0.79	-----								
AA17989	214 --	6.38	-----								
AA17990	1388 274	0.72	-----								
AA17991	1388 274	0.07	-----								
AA17992	1388 274	0.38	-----								
AA17993	1388 274	2.43	-----								
AA17994	1388 274	0.69	-----								
AA17995	1388 274	< 0.07	-----								
AA17996	1388 274	0.75	-----								
AA17997	1388 274	1.78	-----								
AA17998	1388 274	0.45	-----								
AA17999	1388 274	0.48	-----								
AA18000	1388 274	0.45	-----								
DAA17981	214 --	-----	0.310								
100000	214 --	-----	< 0.070								
RB-1	-- --	-----	1.920								

CERTIFICATION:



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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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 23-DEC-96  
 Invoice No. : 19643105  
 P.O. Number : TM196065  
 Account : MUS

Project : SD\_D1172  
 Comments: ATTN: LESLIE BALDWIN

<b>CERTIFICATE OF ANALYSIS</b>	<b>A9643105</b>
--------------------------------	-----------------

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18001	1388	274	< 0.07	-----							
AA18002	1388	274	< 0.07	-----							
AA18003	1388	274	< 0.07	-----							
AA18004	1388	274	< 0.07	-----							
AA18005	1388	274	< 0.07	-----							
AA18006	1388	274	< 0.07	-----							
AA18007	1388	274	< 0.07	-----							
AA18008	1388	274	< 0.07	-----							
AA18009	214	--	5.93	-----							
AA18010	1388	274	0.14	-----							
AA18011	1388	274	< 0.07	-----							
AA18012	1388	274	< 0.07	-----							
AA18013	1388	274	0.72	-----							
AA18014	1388	274	< 0.07	-----							
AA18015	1388	274	< 0.07	-----							
AA18016	1388	274	< 0.07	-----							
AA18017	1388	274	< 0.07	-----							
AA18018	1388	274	< 0.07	-----							
AA18019	1388	274	< 0.07	-----							
AA18020	1388	274	< 0.07	-----							
DAA18001	214	--	-----	< 0.070							
100000	214	--	-----	< 0.070							
GMN-1A	214	--	-----	5.280							

CERTIFICATION: *Leslie Baldwin*



# 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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Project: SD\_D1173  
 Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 23-DEC-96  
 Invoice No. : 19643106  
 P.O. Number : TM196065  
 Account : MUS

## CERTIFICATE OF ANALYSIS

A9643106

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA18021	1388 274	< 0.07	-----									
AA18022	1388 274	< 0.07	-----									
AA18023	1388 274	< 0.07	-----									
AA18024	1388 274	< 0.07	-----									
AA18025	214 --	6.21	-----									
AA18026	1388 274	< 0.07	-----									
AA18027	1388 274	< 0.07	-----									
AA18028	1388 274	< 0.07	-----									
AA18029	1388 274	< 0.07	-----									
AA18030	1388 274	< 0.07	-----									
AA18031	1388 274	< 0.07	-----									
AA18032	1388 274	< 0.07	-----									
AA18033	1388 274	< 0.07	-----									
AA18034	1388 274	< 0.07	-----									
AA18035	1388 274	< 0.07	-----									
AA18036	1388 274	< 0.07	-----									
AA18037	1388 274	< 0.07	-----									
AA18038	1388 274	< 0.07	-----									
AA18039	1388 274	< 0.07	-----									
AA18040	1388 274	< 0.07	-----									
DAA18021	214 --	-----	< 0.070									
100000	214 --	-----	< 0.070									
RB-1	214 --	-----	1.920									

CERTIFICATION:

*Leslie Baldwin*



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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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Page Number : 1  
Total Pages : 1  
Certificate Date: 23-DEC-96  
Invoice No. : 19643107  
P.O. Number : TM196065  
Account : MUS

Project : SD\_D1174  
Comments : ATTN: LESLIE BALDWIN

## CERTIFICATE OF ANALYSIS

### A9643107

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA18041	1388 274	< 0.07	-----									
AA18042	1388 274	< 0.07	-----									
AA18043	1388 274	< 0.07	-----									
AA18044	1388 274	< 0.07	-----									
AA18045	1388 274	< 0.07	-----									
AA18046	1388 274	< 0.07	-----									
AA18047	1388 274	< 0.07	-----									
AA18048	1388 274	< 0.07	-----									
AA18049	1388 274	< 0.07	-----									
AA18050	214 --	5.97	-----									
AA18051	1388 274	< 0.07	-----									
AA18052	1388 274	< 0.07	-----									
AA18053	1388 274	< 0.07	-----									
AA18054	1388 274	< 0.07	-----									
AA18055	1388 274	< 0.07	-----									
AA18056	1388 274	< 0.07	-----									
AA18057	1388 274	< 0.07	-----									
AA18058	1388 274	< 0.07	-----									
AA18059	1388 274	< 0.07	-----									
AA18060	1388 274	< 0.07	-----									
DAA18041	214 --	-----	< 0.070									
100000	214 --	-----	< 0.070									
GMN-1A	214 --	-----	5.550									

CERTIFICATION:



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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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1175  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 23-DEC-96  
Invoice No. : I9643108  
P.O. Number : TM196065  
Account : MUS

## CERTIFICATE OF ANALYSIS

A9643108

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18061	1388 274	< 0.07	-----								
AA18062	1388 274	< 0.07	-----								
AA18063	1388 274	< 0.07	-----								
AA18064	1388 274	< 0.07	-----								
AA18065	1388 274	< 0.07	-----								
AA18066	1388 274	< 0.07	-----								
AA18067	1388 274	< 0.07	-----								
AA18068	1388 274	< 0.07	-----								
AA18069	1388 274	< 0.07	-----								
AA18070	1388 274	< 0.07	-----								
AA18071	1388 274	< 0.07	-----								
AA18072	1388 274	< 0.07	-----								
AA18073	1388 274	< 0.07	-----								
AA18074	1388 274	< 0.07	-----								
AA18075	1388 274	< 0.07	-----								
AA18076	1388 274	< 0.07	-----								
AA18077	1388 274	< 0.07	-----								
AA18078	214 --	6.14	-----								
AA18079	1388 274	< 0.07	-----								
AA18080	1388 274	< 0.07	-----								
DAA18061	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.920								

CERTIFICATION: \_\_\_\_\_

*Leslie Baldwin*





# 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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD D1176  
Comments: ATTN: LESLIE BALDWIN

Page Number :1  
Total Pages :1  
Certificate Date: 30-DEC-96  
Invoice No. :19643109  
P.O. Number :TM196065  
Account :MUS

## CERTIFICATE OF ANALYSIS A9643109

SAMPLE	PREP CODE		Au FA g/t	Au check								
AA18081	1388	274	< 0.07	-----								
AA18082	1388	274	0.10	-----								
AA18083	1388	274	0.10	-----								
AA18084	1388	274	0.10	0.140								
AA18085	214	--	5.55	6.450								
AA18086	1388	274	< 0.07	< 0.070								
AA18087	1388	274	0.10	-----								
AA18088	1388	274	0.07	-----								
AA18089	1388	274	< 0.07	-----								
AA18090	1388	274	< 0.07	-----								
AA18091	1388	274	< 0.07	-----								
AA18092	1388	274	0.10	-----								
AA18093	1388	274	< 0.07	-----								
AA18094	1388	274	0.07	-----								
AA18095	1388	274	< 0.07	-----								
AA18096	1388	274	< 0.07	-----								
AA18097	1388	274	0.24	-----								
AA18098	1388	274	0.10	-----								
AA18099	1388	274	< 0.07	-----								
AA18100	1388	274	< 0.07	-----								
DAA18081	214	--	-----	< 0.070								
100000	214	--	-----	< 0.070								
GMN-1A	214	--	-----	5.690								

CERTIFICATION: *Theresa Vank*



# 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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 31-DEC-96  
 Invoice No. : 19643110  
 P.O. Number : TM196065  
 Account : MUS

Project : SD\_D1177  
 Comments : ATTN: LESLIE BALDWIN

## CERTIFICATE OF ANALYSIS

### A9643110

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA18101	1388 274	< 0.07	-----									
AA18102	1388 274	< 0.07	-----									
AA18103	1388 274	0.89	-----									
AA18104	1388 274	< 0.07	-----									
AA18105	1388 274	< 0.07	-----									
AA18106	1388 274	0.14	-----									
AA18107	1388 274	0.07	-----									
AA18108	214 --	5.97	-----									
AA18109	1388 274	0.31	-----									
AA18110	1388 274	0.14	-----									
AA18111	1388 274	< 0.07	-----									
AA18112	1388 274	< 0.07	-----									
AA18113	1388 274	< 0.07	-----									
AA18114	1388 274	1.95	1.440									
AA18115	1388 274	< 0.07	-----									
AA18116	1388 274	0.34	-----									
AA18117	1388 274	0.34	-----									
AA18118	1388 274	0.45	-----									
AA18119	1388 274	0.34	-----									
AA18120	1388 274	0.27	-----									
DAA18101	214 --	-----	< 0.070									
100000	214 --	-----	< 0.070									
RB-1	214 --	-----	1.890									

CERTIFICATION: *Leslie Baldwin*



# 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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 23-DEC-96  
 Invoice No. : 19643111  
 P.O. Number : TM196065  
 Account : MUS

Project: SD\_D1178  
 Comments: ATTN: LESLIE BALDWIN

## CERTIFICATE OF ANALYSIS

### A9643111

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18121	1388 274	0.38	-----								
AA18122	1388 274	< 0.07	-----								
AA18123	1388 274	< 0.07	-----								
AA18124	1388 274	< 0.07	-----								
AA18125	1388 274	< 0.07	-----								
AA18126	1388 274	0.93	-----								
AA18127	1388 274	0.07	-----								
AA18128	214 --	6.03	-----								
AA18129	1388 274	0.31	-----								
AA18130	1388 274	0.17	-----								
AA18131	1388 274	0.72	-----								
AA18132	1388 274	1.10	-----								
AA18133	1388 274	0.21	-----								
AA18134	1388 274	< 0.07	-----								
AA18135	1388 274	< 0.07	-----								
AA18136	1388 274	< 0.07	-----								
AA18137	1388 274	< 0.07	-----								
AA18138	1388 274	< 0.07	-----								
AA18139	1388 274	< 0.07	-----								
AA18140	1388 274	< 0.07	-----								
DAA18121	214 --	-----	0.340								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.620								

CERTIFICATION: *[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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1179  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 23-DEC-96  
Invoice No. : I9643112  
P.O. Number : TM196065  
Account : MUS

## CERTIFICATE OF ANALYSIS A9643112

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA18141	1388	274	< 0.07	-----								
AA18142	1388	274	< 0.07	-----								
AA18143	1388	274	< 0.07	-----								
AA18144	1388	274	< 0.07	-----								
AA18145	1388	274	< 0.07	-----								
AA18146	1388	274	< 0.07	-----								
AA18147	1388	274	< 0.07	-----								
AA18148	1388	274	< 0.07	-----								
AA18149	1388	274	< 0.07	-----								
AA18150	214	--	6.65	-----								
AA18151	1388	274	< 0.07	-----								
AA18152	1388	274	< 0.07	-----								
AA18153	1388	274	< 0.07	-----								
AA18154	1388	274	< 0.07	-----								
AA18155	1388	274	< 0.07	-----								
AA18156	1388	274	< 0.07	-----								
AA18157	1388	274	< 0.07	-----								
AA18158	1388	274	< 0.07	-----								
AA18159	1388	274	< 0.07	-----								
AA18160	1388	274	< 0.07	-----								
DAA18141	214	--	-----	< 0.070								
100000	214	--	-----	< 0.070								
RB-1	214	--	-----	1.920								

CERTIFICATION:





# 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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1181  
Comments: ATTN: LESLIE BALDWIN

Page Number :1  
Total Pages :1  
Certificate Date: 23-DEC-96  
Invoice No. : I9643114  
P.O. Number : TM196065  
Account : MUS

## CERTIFICATE OF ANALYSIS

### A9643114

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18181	1388 274	< 0.07	-----								
AA18182	1388 274	< 0.07	-----								
AA18183	1388 274	< 0.07	-----								
AA18184	1388 274	< 0.07	-----								
AA18185	1388 274	< 0.07	-----								
AA18186	1388 274	< 0.07	-----								
AA18187	1388 274	< 0.07	-----								
AA18188	214 --	6.31	-----								
AA18189	1388 274	< 0.07	-----								
AA18190	1388 274	< 0.07	-----								
AA18191	1388 274	< 0.07	-----								
AA18192	1388 274	< 0.07	-----								
AA18193	1388 274	< 0.07	-----								
AA18194	1388 274	< 0.07	-----								
AA18195	1388 274	< 0.07	-----								
AA18196	1388 274	< 0.07	-----								
AA18197	1388 274	0.14	-----								
AA18198	1388 274	0.21	-----								
AA18199	1388 274	< 0.07	-----								
AA18200	1388 274	< 0.07	-----								
DAA18181	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.920								

CERTIFICATION: *[Signature]*



# 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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Project : SD\_D1182  
 Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 30-DEC-96  
 Invoice No. : 19643115  
 P.O. Number : TM196065  
 Account : MUS

## CERTIFICATE OF ANALYSIS

### A9643115

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA18201	1388 274	2.57	-----									
AA18202	1388 274	0.10	-----									
AA18203	1388 274	0.65	-----									
AA18204	1388 274	< 0.07	-----									
AA18205	1388 274	< 0.07	-----									
AA18206	1388 274	1.27	1.340									
AA18207	1388 274	2.23	2.640									
AA18208	1388 274	< 0.07	< 0.070									
AA18209	1388 274	0.17	-----									
AA18210	214 --	5.97	-----									
AA18211	1388 274	0.17	-----									
AA18212	1388 274	< 0.07	-----									
AA18213	1388 274	< 0.07	-----									
AA18214	1388 274	< 0.07	-----									
AA18215	1388 274	< 0.07	-----									
AA18216	1388 274	< 0.07	-----									
AA18217	1388 274	< 0.07	-----									
AA18218	1388 274	< 0.07	-----									
AA18219	1388 274	< 0.07	-----									
AA18220	1388 274	0.10	-----									
DAA18201	214 --	-----	2.400									
100000	214 --	-----	< 0.070									
GMN-1A	214 --	-----	5.550									

CERTIFICATION: *Leslie Baldwin*



# 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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Project: SD\_D1183  
 Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 23-DEC-96  
 Invoice No. : 19643116  
 P.O. Number : TM196065  
 Account : MUS

## CERTIFICATE OF ANALYSIS

### A9643116

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18221	1388 274	0.14	-----								
AA18222	1388 274	0.07	-----								
AA18223	1388 274	0.07	-----								
AA18224	1388 274	0.10	-----								
AA18225	1388 274	0.10	-----								
AA18226	1388 274	0.07	-----								
AA18227	214 --	6.24	-----								
AA18228	1388 274	0.07	-----								
AA18229	1388 274	0.17	-----								
AA18230	1388 274	< 0.07	-----								
AA18231	1388 274	< 0.07	-----								
AA18232	1388 274	< 0.07	-----								
AA18233	1388 274	< 0.07	-----								
AA18234	1388 274	< 0.07	-----								
AA18235	1388 274	< 0.07	-----								
AA18236	1388 274	< 0.07	-----								
AA18237	1388 274	< 0.07	-----								
AA18238	1388 274	< 0.07	-----								
AA18239	1388 274	< 0.07	-----								
AA18240	1388 274	< 0.07	-----								
DAA18221	214 --	-----	0.140								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.990								

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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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 30-DEC-96  
 Invoice No. : 19643117  
 P.O. Number : TM196065  
 Account : MUS

Project : SD D1184  
 Comments: ATTN: LESLIE BALDWIN

CERTIFICATE OF ANALYSIS	A9643117
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SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18241	1388	274	< 0.07	-----							
AA18242	1388	274	< 0.07	-----							
AA18243	1388	274	< 0.07	-----							
AA18244	1388	274	< 0.07	-----							
AA18245	1388	274	< 0.07	-----							
AA18246	1388	274	< 0.07	-----							
AA18247	1388	274	< 0.07	-----							
AA18248	1388	274	0.34	-----							
AA18249	214	--	6.86	-----							
AA18250	1388	274	< 0.07	-----							
AA18251	1388	274	0.10	-----							
AA18252	1388	274	< 0.07	-----							
AA18253	1388	274	< 0.07	-----							
AA18254	1388	274	< 0.07	-----							
AA18255	1388	274	< 0.07	-----							
AA18256	1388	274	< 0.07	< 0.070							
AA18257	1388	274	0.69	0.590							
AA18258	1388	274	< 0.07	-----							
AA18259	1388	274	< 0.07	-----							
AA18260	1388	274	< 0.07	-----							
DAA18241	214	--	-----	< 0.070							
100000	214	--	-----	< 0.070							
GMN-1A	214	--	-----	5.690							

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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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Project: SD\_D1185  
 Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 23-DEC-96  
 Invoice No. : I9643118  
 P.O. Number : TM196065  
 Account : MUS

<b>CERTIFICATE OF ANALYSIS</b>	<b>A9643118</b>
--------------------------------	-----------------

SAMPLE	PREP CODE	Au FA g/t	Au check							
AA18261	1388	274	< 0.07	-----						
AA18262	1388	274	< 0.07	-----						
AA18263	1388	274	< 0.07	-----						
AA18264	1388	274	< 0.07	-----						
AA18265	1388	274	< 0.07	-----						
AA18266	1388	274	< 0.07	-----						
AA18267	1388	274	0.14	-----						

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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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1186  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 30-DEC-96  
Invoice No. : 19643119  
P.O. Number : TM196066  
Account : MUS

## CERTIFICATE OF ANALYSIS A9643119

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18268	1388 274	5.83	-----								
AA18269	1388 274	< 0.07	-----								
AA18270	1388 274	< 0.07	-----								
AA18271	1388 274	< 0.07	-----								
AA18272	1388 274	< 0.07	-----								
AA18273	1388 274	< 0.07	-----								
AA18274	1388 274	< 0.07	-----								
AA18275	1388 274	< 0.07	-----								
AA18276	1388 274	< 0.07	-----								
AA18277	1388 274	< 0.07	-----								
AA18278	1388 274	< 0.07	-----								
AA18279	1388 274	< 0.07	-----								
AA18280	1388 274	< 0.07	-----								
DAA18268	214 --	-----	6.030								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.550								

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To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD D1187  
Comments: ATTN: LESLIE BALDWIN

Page Number :1  
Total Pages :1  
Certificate Date: 30-DEC-96  
Invoice No. : I9643120  
P.O. Number : TM196066  
Account : MUS

## CERTIFICATE OF ANALYSIS

A9643120

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18281	214 --	0.55	-----								
AA18282	1388 274	< 0.07	-----								
AA18283	1388 274	< 0.07	-----								
AA18284	1388 274	< 0.07	-----								
AA18285	1388 274	< 0.07	-----								
AA18286	1388 274	0.10	-----								
AA18287	1388 274	0.21	-----								
AA18288	1388 274	0.62	-----								
AA18289	1388 274	2.95	-----								
AA18290	214 --	5.86	-----								
AA18291	1388 274	0.38	-----								
AA18292	1388 274	0.27	-----								
AA18293	1388 274	0.51	-----								
AA18294	1388 274	0.17	-----								
AA18295	1388 274	< 0.07	-----								
AA18296	1388 274	0.31	-----								
AA18297	1388 274	0.07	-----								
AA18298	1388 274	< 0.07	-----								
AA18299	1388 274	0.69	-----								
AA18300	1388 274	0.69	-----								
DAA18281	214 --	-----	0.340								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.920								

CERTIFICATION:

*Leslie Baldwin*



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To: PLACER DOME CANADA LIMITED  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 30-DEC-96  
 Invoice No. : 19643121  
 P.O. Number : TM196066  
 Account : MUS

Project : SD\_D1188  
 Comments: ATTN: LESLIE BALDWIN

## CERTIFICATE OF ANALYSIS

## A9643121

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18301	1388 274	3.63	-----								
AA18302	1388 274	0.31	-----								
AA18303	1388 274	0.07	-----								
AA18304	1388 274	< 0.07	-----								
AA18305	1388 274	< 0.07	-----								
AA18306	1388 274	< 0.07	-----								
AA18307	1388 274	0.17	-----								
AA18308	1388 274	< 0.07	-----								
AA18309	1388 274	0.14	-----								
AA18310	214 --	6.34	-----								
AA18311	1388 274	< 0.07	-----								
AA18312	1388 274	0.07	-----								
AA18313	1388 274	< 0.07	-----								
AA18314	1388 274	0.17	-----								
AA18315	1388 274	< 0.07	-----								
AA18316	1388 274	0.10	-----								
AA18317	1388 274	0.21	-----								
AA18318	1388 274	< 0.07	-----								
AA18319	1388 274	0.10	-----								
AA18320	1388 274	0.07	-----								
DAA18301	214 --	-----	3.260								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.620								

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

To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1189  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 30-DEC-96  
Invoice No. : 19643122  
P.O. Number : TM196066  
Account : MUS

## CERTIFICATE OF ANALYSIS

### A9643122

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18321	1388 274	< 0.07	-----								
AA18322	1388 274	0.14	-----								
AA18323	1388 274	1.78	-----								
AA18324	1388 274	0.72	-----								
AA18325	1388 274	0.14	-----								
AA18326	1388 274	< 0.07	-----								
AA18327	1388 274	< 0.07	-----								
AA18328	214 --	5.55	-----								
AA18329	1388 274	< 0.07	-----								
AA18330	1388 274	< 0.07	-----								
AA18331	1388 274	< 0.07	-----								
AA18332	1388 274	0.07	-----								
AA18333	1388 274	< 0.07	-----								
AA18334	1388 274	< 0.07	-----								
AA18335	1388 274	< 0.07	-----								
AA18336	1388 274	< 0.07	-----								
AA18337	1388 274	< 0.07	-----								
AA18338	1388 274	< 0.07	-----								
AA18339	1388 274	< 0.07	-----								
AA18340	1388 274	< 0.07	-----								
DAA18321	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.920								

CERTIFICATION: *[Signature]*



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

To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1190  
Comments: ATTN: LESLIE BALDWIN

Page Number :1  
Total Pages :1  
Certificate Date: 30-DEC-96  
Invoice No. :19643123  
P.O. Number :TM196066  
Account :MUS

## CERTIFICATE OF ANALYSIS A9643123

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18341	1388 274	< 0.07	-----								
AA18342	1388 274	< 0.07	-----								
AA18343	1388 274	< 0.07	-----								
AA18344	1388 274	< 0.07	-----								
AA18345	1388 274	< 0.07	-----								
AA18346	1388 274	< 0.07	-----								
AA18347	1388 274	< 0.07	-----								
AA18348	1388 274	< 0.07	-----								
AA18349	1388 274	< 0.07	-----								
AA18350	214 --	6.34	-----								
AA18351	1388 274	< 0.07	-----								
AA18352	1388 274	< 0.07	-----								
AA18353	1388 274	< 0.07	-----								
AA18354	1388 274	< 0.07	-----								
AA18355	1388 274	< 0.07	-----								
AA18356	1388 274	< 0.07	-----								
AA18357	1388 274	< 0.07	-----								
AA18358	1388 274	< 0.07	-----								
AA18359	1388 274	< 0.07	-----								
AA18360	1388 274	< 0.07	-----								
DAA18341	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.550								

CERTIFICATION: *[Signature]*



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

To: PLACER DOME CANADA LIMITED  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Project: SD\_D1191  
 Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 30-DEC-96  
 Invoice No. : 19643124  
 P.O. Number : TM196066  
 Account : MUS

## CERTIFICATE OF ANALYSIS

### A9643124

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18361	1388	274	< 0.07	-----							
AA18362	1388	274	< 0.07	-----							
AA18363	1388	274	< 0.07	-----							
AA18364	1388	274	< 0.07	-----							
AA18365	1388	274	< 0.07	-----							
AA18366	1388	274	< 0.07	-----							
AA18367	1388	274	< 0.07	-----							
AA18368	1388	274	< 0.07	-----							
AA18369	214	--	6.27	-----							
AA18370	1388	274	< 0.07	-----							
AA18371	1388	274	< 0.07	-----							
AA18372	1388	274	< 0.07	-----							
AA18373	1388	274	< 0.07	-----							
AA18374	1388	274	< 0.07	-----							
AA18375	1388	274	< 0.07	-----							
AA18376	1388	274	< 0.07	-----							
AA18377	1388	274	< 0.07	-----							
AA18378	1388	274	< 0.07	-----							
AA18379	1388	274	< 0.07	-----							
AA18380	1388	274	< 0.07	-----							
DAA18361	214	--	-----	< 0.070							
100000	214	--	-----	< 0.070							
RB-1	214	--	-----	1.990							

CERTIFICATION: \_\_\_\_\_

*Leslie Baldwin*





# 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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8


Project : SD\_D1192  
Comments: ATTN: LESLIE BALDWIN

Page Number :1  
Total Pages :1  
Certificate Date: 30-DEC-96  
Invoice No. :19643125  
P.O. Number :TM196066  
Account :MUS

## CERTIFICATE OF ANALYSIS

A9643125

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18381	1388 274	< 0.07	-----								
AA18382	1388 274	< 0.07	-----								
AA18383	1388 274	< 0.07	-----								
AA18384	1388 274	< 0.07	-----								
AA18385	214 --	6.62	-----								
AA18386	1388 274	< 0.07	-----								
AA18387	1388 274	< 0.07	-----								
AA18388	1388 274	< 0.07	-----								
AA18389	1388 274	< 0.07	-----								
AA18390	1388 274	< 0.07	-----								
AA18391	1388 274	< 0.07	-----								
AA18392	1388 274	< 0.07	-----								
AA18393	1388 274	< 0.07	-----								
AA18394	1388 274	< 0.07	-----								
AA18395	1388 274	< 0.07	-----								
AA18396	1388 274	< 0.07	-----								
AA18397	1388 274	< 0.07	-----								
AA18398	1388 274	< 0.07	-----								
AA18399	1388 274	< 0.07	-----								
AA18400	1388 274	< 0.07	-----								
DAA18381	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.620								

CERTIFICATION: 



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5175 Timberlea Blvd., Mississauga  
Ontario, Canada L4W 2S3  
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To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD D1193  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 30-DEC-96  
Invoice No. : 19643126  
P.O. Number : TM196066  
Account : MUS

## CERTIFICATE OF ANALYSIS

A9643126

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18401	1388 274	< 0.07	-----								
AA18402	1388 274	< 0.07	-----								
AA18403	1388 274	< 0.07	-----								
AA18404	1388 274	< 0.07	-----								
AA18405	1388 274	< 0.07	-----								
AA18406	1388 274	< 0.07	-----								
AA18407	1388 274	0.24	-----								
AA18408	214 --	6.24	-----								
AA18409	1388 274	< 0.07	-----								
AA18410	1388 274	< 0.07	-----								
AA18411	1388 274	< 0.07	-----								
AA18412	1388 274	< 0.07	-----								
AA18413	1388 274	0.07	-----								
AA18414	1388 274	< 0.07	-----								
AA18415	1388 274	< 0.07	-----								
AA18416	1388 274	< 0.07	-----								
AA18417	1388 274	< 0.07	-----								
AA18418	1388 274	< 0.07	-----								
AA18419	1388 274	< 0.07	-----								
AA18420	1388 274	< 0.07	-----								
DAA18401	214 --	-----	0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.950								

CERTIFICATION:



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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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Project: SD D1194  
 Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 30-DEC-96  
 Invoice No. : 19643127  
 P.O. Number : TM196066  
 Account : MUS

## CERTIFICATE OF ANALYSIS

### A9643127

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18421	1388 274	< 0.07	-----								
AA18422	1388 274	< 0.07	-----								
AA18423	1388 274	< 0.07	-----								
AA18424	1388 274	< 0.07	-----								
AA18425	1388 274	< 0.07	-----								
AA18426	1388 274	< 0.07	-----								
AA18427	1388 274	< 0.07	-----								
AA18428	1388 274	0.10	-----								
AA18429	1388 274	< 0.07	-----								
AA18430	214 --	6.48	-----								
AA18431	1388 274	< 0.07	-----								
AA18432	1388 274	< 0.07	-----								
AA18433	1388 274	0.41	-----								
AA18434	1388 274	0.48	-----								
AA18435	1388 274	< 0.07	-----								
AA18436	1388 274	< 0.07	-----								
AA18437	1388 274	< 0.07	-----								
AA18438	1388 274	< 0.07	-----								
AA18439	1388 274	< 0.07	-----								
AA18440	1388 274	< 0.07	-----								
DAA18421	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.280								

CERTIFICATION: \_\_\_\_\_

*[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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1195  
Comments : ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 07-JAN-97  
Invoice No. : I9643128  
P.O. Number : TM196066  
Account : MUS

## CERTIFICATE OF ANALYSIS

### A9643128

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA18441	1388	274	< 0.07	-----								
AA18442	1388	274	< 0.07	-----								
AA18443	1388	274	< 0.07	-----								
AA18444	1388	274	< 0.07	-----								
AA18445	1388	274	< 0.07	-----								
AA18446	1388	274	< 0.07	-----								
AA18447	1388	274	1.47	1.240								
AA18448	1388	274	0.34	0.270								
AA18449	1388	274	< 0.07	-----								
AA18450	214	--	6.27	-----								
AA18451	1388	274	< 0.07	-----								
AA18452	1388	274	< 0.07	-----								
AA18453	1388	274	< 0.07	-----								
AA18454	1388	274	0.10	-----								
AA18455	1388	274	< 0.07	-----								
AA18456	1388	274	< 0.07	-----								
AA18457	1388	274	0.07	-----								
AA18458	1388	274	0.17	-----								
AA18459	1388	274	< 0.07	-----								
AA18460	1388	274	< 0.07	-----								
DAA18441	214	--	-----	< 0.070								
100000	214	--	-----	< 0.070								
RB-1	214	--	-----	1.850								

CERTIFICATION: *[Signature]*



# 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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 30-DEC-96  
 Invoice No. : 19643129  
 P.O. Number : TM196066  
 Account : MUS

Project : SD\_D1196  
 Comments: ATTN: LESLIE BALDWIN

CERTIFICATE OF ANALYSIS	A9643129
-------------------------	----------

SAMPLE	PREP CODE	Au FA g/t	Au check							
AA18461	1388	274	< 0.07	-----						
AA18462	1388	274	< 0.07	-----						
AA18463	1388	274	< 0.17	-----						
AA18464	1388	274	< 0.07	-----						
AA18465	1388	274	< 0.07	-----						
AA18466	214	--	6.17	-----						
AA18467	1388	274	< 0.07	-----						
AA18468	1388	274	< 0.07	-----						
AA18469	1388	274	< 0.07	-----						
AA18470	1388	274	< 0.07	-----						
AA18471	1388	274	0.07	-----						
AA18472	1388	274	0.07	-----						
AA18473	1388	274	< 0.07	-----						
AA18474	1388	274	< 0.07	-----						
AA18475	1388	274	< 0.07	-----						
AA18476	1388	274	< 0.07	-----						
AA18477	1388	274	< 0.07	-----						
AA18478	1388	274	< 0.07	-----						
AA18479	1388	274	< 0.07	-----						
AA18480	1388	274	< 0.07	-----						
DAA18461	214	--	-----	< 0.070						
100000	214	--	-----	< 0.070						
GMN-1A	214	--	-----	5.420						

CERTIFICATION: *John V. Smith*



# Chemex Labs Ltd.

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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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1197  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 30-DEC-96  
Invoice No. : 19643130  
P.O. Number : TM196066  
Account : MUS

## CERTIFICATE OF ANALYSIS A9643130

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18481	1388 274	< 0.07	-----								
AA18482	1388 274	< 0.07	-----								
AA18483	1388 274	< 0.07	-----								
AA18484	1388 274	< 0.07	-----								
AA18485	1388 274	< 0.07	-----								
AA18486	1388 274	0.10	-----								
AA18487	1388 274	0.07	-----								
AA18488	1388 274	< 0.07	-----								
AA18489	1388 274	< 0.07	-----								
AA18490	1388 274	< 0.07	-----								
AA18491	214 --	6.38	-----								
AA18492	1388 274	< 0.07	-----								
AA18493	1388 274	< 0.07	-----								
AA18494	1388 274	< 0.07	-----								
AA18495	1388 274	< 0.07	-----								
AA18496	1388 274	< 0.07	-----								
AA18497	1388 274	< 0.07	-----								
AA18498	1388 274	< 0.07	-----								
AA18499	1388 274	< 0.07	-----								
AA18500	1388 274	< 0.07	-----								
DAA18481	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.950								

CERTIFICATION:



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

To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1198  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 30-DEC-96  
Invoice No. : 19643131  
P.O. Number : TM196066  
Account : MUS

## CERTIFICATE OF ANALYSIS

A9643131

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA18501	1388 274	< 0.07	-----									

CERTIFICATION: *Leslie Baldwin*



# 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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1199  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 28-JAN-97  
Invoice No. : 19710841  
P.O. Number : 196076  
Account : MUS

## CERTIFICATE OF ANALYSIS A9710841

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA18502	2341388	< 0.07	-----									
AA18503	2341388	< 0.07	-----									
AA18504	2341388	< 0.07	-----									
AA18505	2341388	< 0.07	-----									
AA18506	2341388	< 0.07	-----									
AA18507	2341388	< 0.07	-----									
AA18508	2341388	< 0.07	-----									
AA18509	2341388	< 0.07	-----									
AA18510	2341388	< 0.07	-----									
AA18511	2341388	< 0.07	-----									
AA18512	2341388	< 0.07	-----									
AA18513	2341388	< 0.07	-----									
AA18514	2341388	< 0.07	-----									
AA18515	2341388	< 0.07	-----									
AA18516	2341388	< 0.07	-----									
AA18517	2341388	< 0.07	-----									
AA18518	2341388	< 0.07	-----									
AA18519	2341388	< 0.07	-----									
AA18520	2341388	< 0.07	-----									
DAA18502	214 --	-----	< 0.070									
100000	214 --	-----	< 0.070									
RB-1	214 --	-----	1.860									

CERTIFICATION: *Theresa Vank*





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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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1200  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 28-JAN-97  
Invoice No. : 19710842  
P.O. Number : 196076  
Account : MUS

## CERTIFICATE OF ANALYSIS

### A9710842

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18521	2341388	< 0.07	-----								
AA18522	2341388	< 0.07	-----								
AA18523	2341388	< 0.07	-----								
AA18524	2341388	< 0.07	-----								
AA18525	214 --	6.00	-----								
AA18526	2341388	< 0.07	-----								
AA18527	2341388	< 0.07	-----								
AA18528	2341388	< 0.07	-----								
AA18529	2341388	< 0.07	-----								
AA18530	2341388	< 0.07	-----								
AA18531	2341388	< 0.07	-----								
AA18532	2341388	< 0.07	-----								
AA18533	2341388	< 0.07	-----								
AA18534	2341388	< 0.07	-----								
AA18535	2341388	< 0.07	-----								
AA18536	2341388	< 0.07	-----								
AA18537	2341388	< 0.07	-----								
AA18538	2341388	< 0.07	-----								
AA18539	2341388	< 0.07	-----								
AA18540	2341388	< 0.07	-----								
DAA18521	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.480								

CERTIFICATION: *Theresa Vornh*



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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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 28-JAN-97  
 Invoice No. : 19710843  
 P.O. Number : 196076  
 Account : MUS

Project : SD\_D1201  
 Comments: ATTN: LESLIE BALDWIN

<b>CERTIFICATE OF ANALYSIS</b>	<b>A9710843</b>
--------------------------------	-----------------

SAMPLE	PREP CODE	Au FA g/t	Au check						
AA18541	2341388	< 0.07	-----						
AA18542	2341388	< 0.07	-----						
AA18543	2341388	< 0.07	-----						
AA18544	2341388	< 0.07	-----						
AA18545	2341388	< 0.07	-----						
AA18546	2341388	< 0.07	-----						
AA18547	2341388	< 0.07	-----						
AA18548	2341388	< 0.07	-----						
AA18549	2341388	< 0.07	-----						
AA18550	214 --	6.00	-----						
AA18551	2341388	< 0.07	-----						
AA18552	2341388	< 0.07	-----						
AA18553	2341388	0.07	-----						
AA18554	2341388	< 0.07	-----						
AA18555	2341388	< 0.07	-----						
AA18556	2341388	< 0.07	-----						
AA18557	2341388	< 0.07	-----						
AA18558	2341388	< 0.07	-----						
AA18559	2341388	< 0.07	-----						
AA18560	2341388	< 0.07	-----						
DAA18541	214 --	-----	< 0.070						
100000	214 --	-----	< 0.070						
RB-1	214 --	-----	1.820						

CERTIFICATION: *Leslie Baldwin*



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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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 28-JAN-97  
 Invoice No. : 19710844  
 P.O. Number : 196076  
 Account : MUS

Project : SD\_D1202  
 Comments: ATTN: LESLIE BALDWIN

CERTIFICATE OF ANALYSIS	A9710844
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SAMPLE	PREP CODE	Au FA g/t	Au check						
AA18561	2341388	< 0.07	-----						
AA18562	2341388	< 0.07	-----						
AA18563	2341388	0.38	-----						
AA18564	2341388	< 0.07	-----						
AA18565	2341388	< 0.07	-----						
AA18566	2341388	< 0.07	-----						
AA18567	2341388	< 0.07	-----						
AA18568	2341388	< 0.07	-----						
AA18569	214 --	6.07	-----						
AA18570	2341388	< 0.07	-----						
AA18571	2341388	< 0.07	-----						
AA18572	2341388	< 0.07	-----						
AA18573	2341388	< 0.07	-----						
AA18574	2341388	< 0.07	-----						
AA18575	2341388	< 0.07	-----						
AA18576	2341388	< 0.07	-----						
AA18577	2341388	< 0.07	-----						
AA18578	2341388	< 0.07	-----						
AA18579	2341388	< 0.07	-----						
AA18580	2341388	< 0.07	-----						
DAA18561	214 --	-----	< 0.070						
100000	214 --	-----	< 0.070						
GMN-1A	214 --	-----	5.480						

CERTIFICATION:



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British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1203  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 30-JAN-97  
Invoice No. : 19710845  
P.O. Number : 196076  
Account : MUS

## CERTIFICATE OF ANALYSIS A9710845

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA18581	2341388	< 0.07	-----									
AA18582	2341388	0.17	-----									
AA18583	2341388	< 0.07	-----									
AA18584	2341388	< 0.07	-----									
AA18585	2341388	< 0.07	-----									
AA18586	2341388	< 0.07	-----									
AA18587	2341388	< 0.07	-----									
AA18588	214 --	6.00	-----									
AA18589	2341388	< 0.07	-----									
AA18590	2341388	< 0.07	-----									
AA18591	2341388	< 0.07	-----									
AA18592	2341388	< 0.07	-----									
AA18593	2341388	< 0.07	-----									
AA18594	2341388	< 0.07	-----									
AA18595	2341388	< 0.07	-----									
AA18596	2341388	< 0.07	-----									
AA18597	2341388	< 0.07	-----									
AA18598	2341388	< 0.07	-----									
AA18599	2341388	< 0.07	-----									
AA18600	2341388	< 0.07	-----									
DAA18581	214 --	-----	< 0.070									
100000	214 --	-----	< 0.070									
RB-1	214 --	-----	1.990									

CERTIFICATION: *John Vonk*



# 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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1204  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 30-JAN-97  
Invoice No. : 19710846  
P.O. Number : 196076  
Account : MUS

## CERTIFICATE OF ANALYSIS

A9710846

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18601	2341388	< 0.07	-----								
AA18602	2341388	< 0.07	-----								
AA18603	2341388	< 0.07	-----								
AA18604	2341388	< 0.07	-----								
AA18605	2341388	< 0.07	-----								
AA18606	2341388	< 0.07	-----								
AA18607	2341388	< 0.07	-----								
AA18608	2341388	< 0.07	-----								
AA18609	214 --	6.51	-----								
AA18610	2341388	< 0.07	-----								
AA18611	2341388	< 0.07	-----								
AA18612	2341388	< 0.07	-----								
AA18613	2341388	0.07	-----								
AA18614	2341388	0.07	-----								
AA18615	2341388	< 0.07	-----								
AA18616	2341388	< 0.07	-----								
AA18617	2341388	0.07	-----								
AA18618	2341388	0.10	-----								
AA18619	2341388	< 0.07	-----								
AA18620	2341388	< 0.07	-----								
DAA18601	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.210								

CERTIFICATION: Theresa Vank



# 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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 30-JAN-97  
 Invoice No. : 19710847  
 P.O. Number : 196076  
 Account : MUS

Project : SD\_D1205  
 Comments : ATTN: LESLIE BALDWIN

## CERTIFICATE OF ANALYSIS

### A9710847

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18621	2341388	< 0.07	-----								
AA18622	2341388	< 0.07	-----								
AA18623	2341388	< 0.07	-----								
AA18624	2341388	< 0.07	-----								
AA18625	214 --	6.51	-----								
AA18626	2341388	< 0.07	-----								
AA18627	2341388	< 0.07	-----								
AA18628	2341388	< 0.07	-----								
AA18629	2341388	< 0.07	-----								
AA18630	2341388	0.21	-----								
AA18631	2341388	< 0.07	-----								
AA18632	2341388	< 0.07	-----								
AA18633	2341388	< 0.07	-----								
AA18634	2341388	< 0.07	-----								
AA18635	2341388	< 0.07	-----								
AA18636	2341388	< 0.07	-----								
AA18637	2341388	< 0.07	-----								
AA18638	2341388	< 0.07	-----								
AA18639	2341388	< 0.07	-----								
AA18640	2341388	< 0.07	-----								
DAA18621	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.850								

CERTIFICATION: \_\_\_\_\_

*Leslie Baldwin*



# 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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1206  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 28-JAN-97  
Invoice No. : 19710848  
P.O. Number : 196076  
Account : MUS

## CERTIFICATE OF ANALYSIS A9710848

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18641	2341388	< 0.07	-----								
AA18642	2341388	< 0.07	-----								
AA18643	2341388	< 0.07	-----								
AA18644	2341388	< 0.07	-----								
AA18645	2341388	< 0.07	-----								
AA18646	2341388	< 0.07	-----								
AA18647	214 --	6.21	-----								
AA18648	2341388	< 0.07	-----								
AA18649	2341388	< 0.07	-----								
AA18650	2341388	< 0.07	-----								
AA18651	2341388	< 0.07	-----								
AA18652	2341388	0.07	-----								
AA18653	2341388	< 0.07	-----								
AA18654	2341388	< 0.07	-----								
AA18655	2341388	< 0.07	-----								
AA18656	2341388	< 0.07	-----								
AA18657	2341388	0.14	-----								
AA18658	2341388	< 0.07	-----								
AA18659	2341388	< 0.07	-----								
AA18660	2341388	< 0.07	-----								
DAA18641	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.480								

CERTIFICATION:

*Frank Vank*



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Analytical Chemists \* Geochemists \* Registered Assayers

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British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1207  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 28-JAN-97  
Invoice No. : 19710849  
P.O. Number : 196076  
Account : MUS

## CERTIFICATE OF ANALYSIS

### A9710849

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA18661	2341388	< 0.07	-----									
AA18662	2341388	< 0.07	-----									
AA18663	2341388	< 0.07	-----									
AA18664	2341388	< 0.07	-----									
AA18665	2341388	< 0.07	-----									
AA18666	2341388	< 0.07	-----									
AA18667	2341388	< 0.07	-----									
AA18668	2341388	< 0.07	-----									
AA18669	214 --	6.21	-----									
AA18670	2341388	< 0.07	-----									
AA18671	2341388	< 0.07	-----									
AA18672	2341388	< 0.07	-----									
AA18673	2341388	< 0.07	-----									
AA18674	2341388	< 0.07	-----									
AA18675	2341388	< 0.07	-----									
AA18676	2341388	< 0.07	-----									
AA18677	2341388	< 0.07	-----									
AA18678	2341388	< 0.07	-----									
AA18679	2341388	< 0.07	-----									
AA18680	2341388	< 0.07	-----									
DAA18661	214 --	-----	< 0.070									
100000	214 --	-----	< 0.070									
RB-1	214 --	-----	1.950									

CERTIFICATION: *Jack Vank*





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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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Project: SD\_D1208  
 Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 28-JAN-97  
 Invoice No. : 19710850  
 P.O. Number : 196076  
 Account : MUS

<b>CERTIFICATE OF ANALYSIS</b>	<b>A9710850</b>
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SAMPLE	PREP CODE	Au FA g/t	Au check						
AA18681	2341388	< 0.07	-----						
AA18682	2341388	< 0.07	-----						
AA18683	2341388	< 0.07	-----						
AA18684	2341388	< 0.07	-----						
AA18685	2341388	< 0.07	-----						
AA18686	2341388	< 0.07	-----						
AA18687	2341388	< 0.07	-----						
AA18688	2341388	< 0.07	-----						
AA18689	214 --	6.17	6.120						
AA18690	2341388	< 0.07	-----						
AA18691	2341388	< 0.07	-----						
AA18692	2341388	< 0.07	-----						
AA18693	2341388	< 0.07	-----						
AA18694	2341388	< 0.07	-----						
AA18695	2341388	< 0.07	-----						
AA18696	2341388	< 0.07	-----						
AA18697	2341388	< 0.07	-----						
AA18698	2341388	< 0.07	-----						
AA18699	2341388	< 0.07	-----						
AA18700	2341388	< 0.07	-----						
DAA18681	214 --	-----	< 0.070						
100000	214 --	-----	< 0.070						
GMN-1A	214 --	-----	5.960						

CERTIFICATION:





# 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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1210  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 30-JAN-97  
Invoice No. : 19710853  
P.O. Number : 196076  
Account : MUS

## CERTIFICATE OF ANALYSIS

A9710853

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18721	2341388	< 0.07	-----								
AA18722	2341388	< 0.07	-----								
AA18723	2341388	< 0.07	-----								
AA18724	2341388	< 0.07	-----								
AA18725	214 --	6.24	-----								
AA18726	2341388	0.21	-----								
AA18727	2341388	< 0.07	-----								
AA18728	2341388	< 0.07	-----								
AA18729	2341388	< 0.07	-----								
AA18730	2341388	< 0.07	-----								
AA18731	2341388	< 0.07	-----								
AA18732	2341388	< 0.07	-----								
AA18733	2341388	< 0.07	-----								
AA18734	2341388	< 0.07	-----								
AA18735	2341388	< 0.07	-----								
AA18736	2341388	< 0.07	-----								
AA18737	2341388	< 0.07	-----								
AA18738	2341388	< 0.07	-----								
AA18739	2341388	< 0.07	-----								
AA18740	2341388	< 0.07	-----								
DAA18721	214 234	-----	< 0.070								
100000	214 234	-----	< 0.070								
GMN-1A	214 234	-----	5.690								

CERTIFICATION:

*Thub Vmb*



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British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1211  
Comments: ATTN: LESLIE BALDWIN

Page Number :1  
Total Pages :1  
Certificate Date: 28-JAN-97  
Invoice No. :19710854  
P.O. Number :196076  
Account :MUS

## CERTIFICATE OF ANALYSIS

### A9710854

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18741	2341388	< 0.07	-----								
AA18742	2341388	< 0.07	-----								
AA18743	2341388	< 0.07	-----								
AA18744	2341388	< 0.07	-----								
AA18745	2341388	< 0.07	-----								
AA18746	2341388	< 0.07	-----								
AA18747	2341388	0.10	-----								
AA18748	2341388	< 0.07	-----								
AA18749	214 --	5.97	-----								
AA18750	2341388	< 0.07	-----								
AA18751	2341388	< 0.07	-----								
AA18752	2341388	< 0.07	-----								
AA18753	2341388	0.07	-----								
AA18754	2341388	< 0.07	-----								
AA18755	2341388	< 0.07	-----								
AA18756	2341388	< 0.07	-----								
AA18757	2341388	< 0.07	-----								
AA18758	2341388	< 0.07	-----								
AA18759	2341388	0.14	-----								
AA18760	2341388	0.14	-----								
DAA18741	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.890								

CERTIFICATION:

*Theresa Vank*



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British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1212  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 28-JAN-97  
Invoice No. : 19710855  
P.O. Number : 196076  
Account : MUS

## CERTIFICATE OF ANALYSIS A9710855

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA18761	2341388	< 0.07	-----									
AA18762	2341388	< 0.07	-----									
AA18763	2341388	< 0.07	-----									
AA18764	2341388	< 0.07	-----									
AA18765	2341388	< 0.07	-----									
AA18766	2341388	< 0.07	-----									
AA18767	2341388	< 0.07	-----									
AA18768	2341388	< 0.07	-----									
AA18769	214 --	6.10	-----									
AA18770	2341388	< 0.07	-----									
AA18771	2341388	< 0.07	-----									
AA18772	2341388	< 0.07	-----									
AA18773	2341388	0.21	-----									
AA18774	2341388	0.14	-----									
AA18775	2341388	< 0.07	-----									
AA18776	2341388	< 0.07	-----									
AA18777	2341388	< 0.07	-----									
AA18778	2341388	< 0.07	-----									
AA18779	2341388	< 0.07	-----									
AA18780	2341388	0.07	-----									
DAA18761	214 --	-----	< 0.070									
100000	214 --	-----	< 0.070									
GMN-1A	214 --	-----	5.690									

CERTIFICATION: *Theresa Walsh*



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To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Page Number : 1  
Total Pages : 1  
Certificate Date: 28-JAN-97  
Invoice No. : 19710856  
P.O. Number : 196076  
Account : MUS

Project : SD\_D1213  
Comments: ATTN: LESLIE BALDWIN

## CERTIFICATE OF ANALYSIS A9710856

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18781	2341388	0.07	-----								
AA18782	2341388	< 0.07	-----								
AA18783	2341388	0.10	-----								
AA18784	2341388	0.14	-----								
AA18785	2341388	< 0.07	-----								
AA18786	2341388	0.21	-----								
AA18787	2341388	0.21	-----								
AA18788	2341388	< 0.07	-----								
AA18789	214 --	6.69	-----								
AA18790	2341388	< 0.07	-----								
AA18791	2341388	< 0.07	-----								
AA18792	2341388	< 0.07	-----								
AA18793	2341388	0.07	-----								
AA18794	2341388	< 0.07	-----								
AA18795	2341388	< 0.07	-----								
AA18796	2341388	< 0.07	-----								
AA18797	2341388	< 0.07	-----								
AA18798	2341388	1.61	1,600								
AA18799	2341388	< 0.07	-----								
AA18800	2341388	< 0.07	-----								
DAA18781	214 --	-----	0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.890								

CERTIFICATION: *Jack Vank*



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PHONE: 604-984-0221 FAX: 604-984-0218

To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1214  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 30-JAN-97  
Invoice No. : 19710857  
P.O. Number : 196076  
Account : MUS

## CERTIFICATE OF ANALYSIS

### A9710857

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18801	2341388	0.07	-----								
AA18802	2341388	< 0.07	-----								
AA18803	2341388	0.21	-----								
AA18804	2341388	2.81	2.860								
AA18805	2341388	< 0.07	-----								
AA18806	2341388	< 0.07	-----								
AA18807	2341388	< 0.07	-----								
AA18808	2341388	< 0.07	-----								
AA18809	2341388	< 0.07	-----								
AA18810	214 --	6.14	-----								
AA18811	2341388	< 0.07	-----								
AA18812	2341388	< 0.07	-----								
AA18813	2341388	< 0.07	-----								
AA18814	2341388	< 0.07	-----								
AA18815	2341388	< 0.07	-----								
AA18816	2341388	< 0.07	-----								
AA18817	2341388	< 0.07	-----								
AA18818	2341388	< 0.07	-----								
AA18819	2341388	< 0.07	-----								
AA18820	2341388	< 0.07	-----								
DAA18801	214 --	-----	0.070								
100000	214 --	-----	0.070								
GMN-1A	214 --	-----	5.350								

CERTIFICATION:

*Theresa Vornh*



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To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1215  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 30-JAN-97  
Invoice No. : 19710858  
P.O. Number : 196076  
Account : MUS

## CERTIFICATE OF ANALYSIS

### A9710858

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18821	2341388	< 0.07	-----								
AA18822	2341388	< 0.07	-----								
AA18823	2341388	< 0.07	-----								
AA18824	2341388	< 0.07	-----								
AA18825	2341388	< 0.07	-----								
AA18826	2341388	< 0.07	-----								
AA18827	2341388	< 0.07	-----								
AA18828	2341388	< 0.07	-----								
AA18829	2341388	0.07	-----								
AA18830	2341388	0.10	-----								
AA18831	2341388	< 0.07	-----								
AA18832	2341388	< 0.07	-----								
AA18833	214 --	6.38	-----								
AA18834	2341388	0.21	-----								
AA18835	2341388	< 0.07	-----								
AA18836	2341388	0.21	-----								
AA18837	2341388	< 0.07	-----								
AA18838	2341388	0.07	-----								
AA18839	2341388	< 0.07	-----								
AA18840	2341388	< 0.07	-----								
DAA18821	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.890								

CERTIFICATION:

*Theresa Vank*





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To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1216  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 28-JAN-97  
Invoice No. : 19710859  
P.O. Number : 196076  
Account : MUS

## CERTIFICATE OF ANALYSIS

### A9710859

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18841	2341388	< 0.62	-----								
AA18842	2341388	< 0.07	-----								
AA18843	2341388	< 0.07	-----								
AA18844	2341388	< 0.07	-----								
AA18845	2341388	< 0.07	-----								
AA18846	2341388	< 0.07	-----								
AA18847	214 --	6.51	-----								
AA18848	2341388	< 0.07	-----								
AA18849	2341388	< 0.07	-----								
AA18850	2341388	< 0.07	-----								
AA18851	2341388	< 0.07	-----								
AA18852	2341388	< 0.07	-----								
AA18853	2341388	< 0.07	-----								
AA18854	2341388	< 0.07	-----								
AA18855	2341388	< 0.07	-----								
AA18856	2341388	< 0.07	-----								
AA18857	2341388	< 0.07	-----								
AA18858	2341388	< 0.07	-----								
AA18859	2341388	< 0.07	-----								
AA18860	2341388	< 0.07	-----								
DAA18841	214 --	-----	0.580								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.620								

CERTIFICATION: *Frank Walsh*



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British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1217  
Comments: ATTN: LESLIE BALDWIN

Page Number :1  
Total Pages :1  
Certificate Date: 28-JAN-97  
Invoice No. :19710860  
P.O. Number :196076  
Account :MUS

## CERTIFICATE OF ANALYSIS A9710860

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18861	2341388	< 0.07	-----								
AA18862	2341388	< 0.07	-----								
AA18863	2341388	< 0.07	-----								
AA18864	2341388	< 0.07	-----								
AA18865	2341388	< 0.07	-----								
AA18866	2341388	< 0.07	-----								
AA18867	2341388	< 0.07	-----								
AA18868	2341388	< 0.07	-----								
AA18869	214 --	6.48	-----								
AA18870	2341388	< 0.07	-----								
AA18871	2341388	< 0.10	-----								
AA18872	2341388	< 0.07	-----								
AA18873	2341388	< 0.07	-----								
AA18874	2341388	< 0.07	-----								
AA18875	2341388	< 0.07	-----								
AA18876	2341388	< 0.07	-----								
AA18877	2341388	< 0.07	-----								
AA18878	2341388	< 0.07	-----								
AA18879	2341388	< 0.07	-----								
AA18880	2341388	< 0.07	-----								
DAA18861	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.990								

CERTIFICATION:

*Leslie Baldwin*



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British Columbia, Canada V7J 2C1  
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To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1218  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 28-JAN-97  
Invoice No. : 19710861  
P.O. Number : 196076  
Account : MUS

## CERTIFICATE OF ANALYSIS

### A9710861

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA18881	2341388	< 0.07	-----									
AA18882	2341388	< 0.07	-----									
AA18883	2341388	< 0.07	-----									
AA18884	2341388	< 0.07	-----									
AA18885	2341388	< 0.07	-----									
AA18886	2341388	< 0.07	-----									
AA18887	214 --	5.97	-----									
AA18888	2341388	< 0.07	-----									
AA18889	2341388	< 0.07	-----									
AA18890	2341388	< 0.07	-----									
AA18891	2341388	< 0.07	-----									
AA18892	2341388	< 0.07	-----									
AA18893	2341388	< 0.07	-----									
AA18894	2341388	< 0.07	-----									
AA18895	2341388	< 0.07	-----									
AA18896	2341388	< 0.07	-----									
AA18897	2341388	< 0.07	-----									
AA18898	2341388	< 0.07	-----									
AA18899	2341388	< 0.07	-----									
AA18900	2341388	< 0.07	-----									
DAA18881	214 --	-----	< 0.070									
100000	214 --	-----	< 0.070									
GMN-1A	214 --	-----	5.690									

CERTIFICATION: *Leslie Baldwin*



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To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1219  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 28-JAN-97  
Invoice No. : 19710862  
P.O. Number : 196076  
Account : MUS

## CERTIFICATE OF ANALYSIS

A9710862

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18901	2341388	0.07	-----								
AA18902	2341388	1.03	-----								
AA18903	2341388	0.55	-----								
AA18904	2341388	0.27	-----								
AA18905	2341388	0.21	-----								
AA18906	2341388	< 0.07	-----								
AA18907	2341388	0.51	-----								
AA18908	2341388	0.24	-----								
AA18909	214 --	6.10	-----								
AA18910	2341388	1.03	-----								
AA18911	2341388	1.54	-----								
AA18912	2341388	1.51	-----								
AA18913	2341388	0.31	-----								
AA18914	2341388	0.07	-----								
AA18915	2341388	< 0.07	-----								
AA18916	2341388	< 0.07	-----								
AA18917	2341388	0.21	-----								
AA18918	2341388	0.17	-----								
AA18919	2341388	< 0.07	-----								
AA18920	2341388	< 0.07	-----								
DAA18901	214 --	-----	0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.890								

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1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1220  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 28-JAN-97  
Invoice No. : 19710863  
P.O. Number : 196076  
Account : MUS

## CERTIFICATE OF ANALYSIS

A9710863

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18921	2341388	< 0.07	-----								
AA18922	2341388	< 0.07	-----								
AA18923	2341388	0.45	-----								
AA18924	2341388	< 0.07	-----								
AA18925	2341388	0.48	-----								
AA18926	2341388	< 0.07	-----								
AA18927	2341388	< 0.07	-----								
AA18928	2341388	< 0.07	-----								
AA18929	2341388	< 0.07	-----								
AA18930	2341388	< 0.07	-----								
AA18931	2341388	< 0.07	-----								
AA18932	2341388	< 0.07	-----								
AA18933	2341388	< 0.07	-----								
AA18934	2341388	< 0.07	-----								
AA18935	2341388	< 0.07	-----								
AA18936	2341388	7.03	-----								
AA18937	2341388	2.61	2.400								
AA18938	2341388	< 0.07	-----								
AA18939	2341388	< 0.07	-----								
AA18940	2341388	< 0.07	-----								
DAA18921	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.140								

CERTIFICATION:

*Theresa Vank*



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To: PLACER DOME CANADA LIMITED  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1221  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 28-JAN-97  
Invoice No. : 19710864  
P.O. Number : 196076  
Account : MUS

## CERTIFICATE OF ANALYSIS

A9710864

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18941	2341388	0.14	-----								
AA18942	2341388	< 0.07	-----								
AA18943	2341388	0.07	-----								
AA18944	2341388	0.07	-----								
AA18945	2341388	0.38	-----								
AA18946	2341388	0.38	-----								
AA18947	2341388	< 0.07	-----								
AA18948	214 --	6.27	-----								
AA18949	2341388	0.34	-----								
AA18950	2341388	0.27	-----								
AA18951	2341388	0.21	-----								
AA18952	2341388	0.27	-----								
AA18953	2341388	< 0.07	-----								
AA18954	2341388	< 0.07	-----								
AA18955	2341388	< 0.07	-----								
AA18956	2341388	< 0.07	-----								
AA18957	2341388	< 0.07	-----								
AA18958	2341388	0.07	-----								
AA18959	2341388	< 0.07	-----								
AA18960	2341388	< 0.07	-----								
DAA18941	214 --	-----	0.140								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.920								

CERTIFICATION:



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To: PLACER DOME CANADA LIMITED  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 28-JAN-97  
 Invoice No. : 19710866  
 P.O. Number : 196076  
 Account : MUS

Project : SD\_D1222  
 Comments: ATTN: LESLIE BALDWIN

## CERTIFICATE OF ANALYSIS

**A9710866**

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18961	2341388	< 0.07	-----								
AA18962	2341388	< 0.07	-----								
AA18963	2341388	< 0.07	-----								
AA18964	2341388	< 0.07	-----								
AA18965	2341388	< 0.07	-----								
AA18966	2341388	< 0.07	-----								
AA18967	2341388	< 0.07	-----								
AA18968	2341388	< 0.07	-----								
AA18969	214 --	6.34	-----								
AA18970	2341388	< 0.07	-----								
AA18971	2341388	< 0.07	-----								
AA18972	2341388	< 0.07	-----								
AA18973	2341388	< 0.07	-----								
AA18974	2341388	< 0.07	-----								
AA18975	2341388	< 0.07	-----								
AA18976	2341388	< 0.07	-----								
AA18977	2341388	< 0.07	-----								
AA18978	2341388	< 0.07	-----								
AA18979	2341388	< 0.07	-----								
AA18980	2341388	< 0.07	-----								
DAA18961	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.350								

CERTIFICATION: *Theresa Vonder*



# 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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Project : SD\_D1223  
 Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 28-JAN-97  
 Invoice No. : 19710867  
 P.O. Number : 196076  
 Account : MUS

## CERTIFICATE OF ANALYSIS

A9710867

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA18981	2341388	0.07	-----								
AA18982	2341388	< 0.07	-----								
AA18983	2341388	< 0.07	-----								
AA18984	2341388	< 0.07	-----								
AA18985	2341388	< 0.07	-----								
AA18986	2341388	0.17	0.140								
AA18987	2341388	< 0.07	-----								
AA18988	2341388	< 0.07	-----								
AA18989	214 --	6.41	-----								
AA18990	2341388	< 0.07	-----								
AA18991	2341388	0.07	0.100								
AA18992	2341388	< 0.07	-----								
AA18993	2341388	< 0.07	-----								
AA18994	2341388	< 0.07	-----								
AA18995	2341388	< 0.07	-----								
AA18996	2341388	< 0.07	-----								
AA18997	2341388	< 0.07	-----								
AA18998	2341388	< 0.07	-----								
AA18999	2341388	0.07	-----								
AA19000	2341388	0.10	-----								
DAA18981	214 --	-----	0.090								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.920								

CERTIFICATION: Theresa Voth





# 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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Project: SD\_D 1224  
 Comments: ATN: LESLIE BALDWIN

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 20-FEB-97  
 Invoice No. : 19713104  
 P.O. Number :  
 Account : MUS

## CERTIFICATE OF ANALYSIS

### A9713104

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA19001	1388 274	< 0.27	-----									
AA19002	1388 274	< 0.07	-----									
AA19003	1388 274	< 0.07	< 0.070									
AA19004	1388 274	0.07	0.100									
AA19005	1388 274	0.69	-----									
AA19006	1388 274	< 0.07	-----									
AA19007	214 --	6.34	-----									
AA19008	1388 274	< 0.07	-----									
AA19009	1388 274	< 0.07	-----									
AA19010	1388 274	< 0.07	-----									
AA19011	1388 274	< 0.07	-----									
AA19012	1388 274	< 0.07	-----									
AA19013	1388 274	< 0.07	-----									
AA19014	1388 274	0.07	-----									
AA19015	1388 274	< 0.07	-----									
AA19016	1388 274	< 0.07	-----									
AA19017	1388 274	< 0.07	-----									
AA19018	1388 274	0.27	-----									
AA19019	1388 274	< 0.07	-----									
AA19020	1388 274	0.07	-----									
DAA19001	214 --	-----	0.310									
100000	214 --	-----	< 0.070									
GMN-1A	214 --	-----	5.760									

CERTIFICATION: 



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PHONE: 604-984-0221 FAX: 604-984-0218

To: PLACER DOME CANADA  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D 1225  
Comments: ATN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 20-FEB-97  
Invoice No. : I9713105  
P.O. Number :  
Account : MUS

## CERTIFICATE OF ANALYSIS A9713105

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA19021	1388 274	< 0.07	-----								
AA19022	1388 274	< 0.07	-----								
AA19023	1388 274	< 0.07	-----								
AA19024	1388 274	< 0.07	-----								
AA19025	214 --	6.17	-----								
AA19026	1388 274	< 0.07	-----								
AA19027	1388 274	< 0.07	-----								
AA19028	1388 274	< 0.07	-----								
AA19029	1388 274	0.07	-----								
AA19030	1388 274	< 0.07	-----								
AA19031	1388 274	< 0.07	-----								
AA19032	1388 274	< 0.07	-----								
AA19033	1388 274	< 0.07	-----								
AA19034	1388 274	< 0.07	-----								
AA19035	1388 274	< 0.07	-----								
AA19036	1388 274	0.24	-----								
AA19037	1388 274	< 0.07	-----								
AA19038	1388 274	0.10	-----								
AA19039	1388 274	0.41	-----								
AA19040	1388 274	0.31	-----								
DAA19021	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.850								

CERTIFICATION: \_\_\_\_\_



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British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: PLACER DOME CANADA  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D 1226  
Comments: ATN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 20-FEB-97  
Invoice No. : 19713106  
P.O. Number :  
Account : MUS

## CERTIFICATE OF ANALYSIS

A9713106

SAMPLE	PREP CODE	Au FA g/t	Au check										
AA19041	1388 274	< 0.07	-----										
AA19042	1388 274	< 0.07	-----										
AA19043	1388 274	< 0.07	-----										
AA19044	1388 274	< 0.07	-----										
AA19045	1388 274	< 0.07	-----										
AA19046	1388 274	0.24	-----										
AA19047	1388 274	0.41	-----										
AA19048	214 --	6.31	-----										
AA19049	1388 274	< 0.07	-----										
AA19050	1388 274	< 0.07	-----										
AA19051	1388 274	< 0.07	-----										
AA19052	1388 274	< 0.07	-----										
AA19053	1388 274	< 0.07	-----										
AA19054	1388 274	< 0.07	-----										
AA19055	1388 274	< 0.07	-----										
AA19056	1388 274	< 0.07	-----										
AA19057	1388 274	< 0.07	-----										
AA19058	1388 274	< 0.07	-----										
AA19059	1388 274	< 0.07	-----										
AA19060	1388 274	< 0.07	-----										
DAA19041	214 --	-----	< 0.070										
100000	214 --	-----	< 0.070										
GMN-1A	214 --	-----	5.550										

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To: PLACER DOME CANADA  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 20-FEB-97  
 Invoice No. : 19713107  
 P.O. Number :  
 Account : MUS

Project : SD\_D 1227  
 Comments: ATN: LESLIE BALDWIN

## CERTIFICATE OF ANALYSIS A9713107

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA19061	1388 274	< 0.07	-----								
AA19062	1388 274	0.14	-----								
AA19063	1388 274	0.48	-----								
AA19064	1388 274	< 0.07	-----								
AA19065	1388 274	0.14	-----								
AA19066	1388 274	0.21	-----								
AA19067	1388 274	0.48	-----								
AA19068	1388 274	0.48	-----								
AA19069	214 --	5.97	-----								
AA19070	1388 274	< 0.07	-----								
AA19071	1388 274	< 0.07	-----								
AA19072	1388 274	< 0.07	-----								
AA19073	1388 274	0.24	-----								
AA19074	1388 274	< 0.07	-----								
AA19075	1388 274	< 0.07	-----								
AA19076	1388 274	< 0.07	-----								
AA19077	1388 274	< 0.07	-----								
AA19078	1388 274	< 0.07	-----								
AA19079	1388 274	< 0.07	-----								
AA19080	1388 274	< 0.07	-----								
DAA19061	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.920								

CERTIFICATION:



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PHONE: 604-984-0221 FAX: 604-984-0218

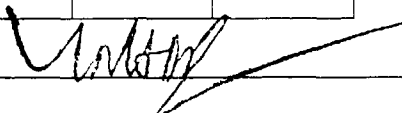
To: PLACER DOME CANADA  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D 1228  
Comments: ATN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 20-FEB-97  
Invoice No. : 19713108  
P.O. Number :  
Account : MUS

## CERTIFICATE OF ANALYSIS A9713108

SAMPLE	PREP CODE		Au FA g/t	Au check								
AA19081	1388	274	< 0.07	-----								
AA19082	1388	274	6.65	-----								
AA19083	1388	274	< 0.07	-----								
AA19084	1388	274	< 0.07	-----								
AA19085	1388	274	0.27	-----								
AA19086	1388	274	0.14	-----								
AA19087	1388	274	< 0.07	-----								
AA19088	1388	274	< 0.07	-----								
AA19089	1388	274	< 0.07	-----								
AA19090	1388	274	< 0.07	-----								
AA19091	1388	274	< 0.07	-----								
AA19092	1388	274	< 0.07	-----								
AA19093	1388	274	< 0.07	-----								
AA19094	1388	274	< 0.07	-----								
AA19095	1388	274	< 0.07	-----								
AA19096	1388	274	< 0.07	-----								
AA19097	1388	274	< 0.07	-----								
AA19098	1388	274	< 0.07	-----								
AA19099	1388	274	< 0.07	-----								
AA19100	1388	274	< 0.07	-----								
DAA19081	214	--	-----	< 0.070								
100000	214	--	-----	< 0.070								
GMN-1A	214	--	-----	5.490								

CERTIFICATION: 



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To: PLACER DOME CANADA  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D 1229  
Comments: ATN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 20-FEB-97  
Invoice No. : 19713109  
P.O. Number :  
Account : MUS

## CERTIFICATE OF ANALYSIS A9713109

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA19101	1388	274	< 0.07	-----								
AA19102	1388	274	< 0.07	-----								
AA19103	214	--	6.00	-----								
AA19104	1388	274	< 0.07	-----								
AA19105	1388	274	< 0.07	-----								
AA19106	1388	274	< 0.07	-----								
AA19107	1388	274	< 0.07	-----								
AA19108	1388	274	< 0.07	-----								
AA19109	1388	274	< 0.07	-----								
AA19110	1388	274	< 0.07	-----								
AA19111	1388	274	< 0.07	-----								
AA19112	1388	274	< 0.07	-----								
AA19113	1388	274	< 0.07	-----								
AA19114	1388	274	< 0.07	-----								
AA19115	1388	274	< 0.07	-----								
AA19116	1388	274	< 0.07	-----								
AA19117	1388	274	< 0.07	-----								
<del>AA19118</del>	<del>1388</del>	<del>274</del>	<del>&lt; 0.07</del>	<del>-----</del>	<b>N/A</b>							
<del>AA19119</del>	<del>1388</del>	<del>274</del>	<del>&lt; 0.07</del>	<del>-----</del>								
<del>AA19120</del>	<del>1388</del>	<del>274</del>	<del>&lt; 0.07</del>	<del>-----</del>								
<del>AA19121</del>	<del>1388</del>	<del>274</del>	<del>&lt; 0.07</del>	<del>-----</del>								
DAA19101	214	--	-----	< 0.070								
100000	214	--	-----	< 0.070								
RB-1	214	--	-----	1.920								

CERTIFICATION:



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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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1263  
Comments: ATTN: LESLIE BALDWIN

Page Number :1  
Total Pages :1  
Certificate Date: 28-FEB-97  
Invoice No. :19714730  
P.O. Number :196083  
Account :MUS

## CERTIFICATE OF ANALYSIS A9714730

SAMPLE	PREP CODE	Au FA g/t	Au check										
<del>AA19761</del>	<del>1388 274</del>	<del>&lt; 0.07</del>	<del>-----</del>										
AA19762	1388 274	< 0.07	-----										
AA19763	1388 274	< 0.07	-----										
AA19764	1388 274	< 0.07	-----										
AA19765	1388 274	< 0.07	-----										
AA19766	1388 274	< 0.82	-----										
AA19767	1388 274	< 0.07	-----										
AA19768	1388 274	< 0.79	-----										
AA19769	1388 274	< 0.07	-----										
AA19770	1388 274	0.24	-----										
AA19771	1388 274	< 0.07	-----										
AA19772	1388 274	0.34	-----										
AA19773	1388 274	0.14	-----										
AA19774	1388 274	< 0.07	-----										
<del>AA19775</del>	<del>1388 274</del>	<del>&lt; 0.07</del>	<del>-----</del>										
<del>AA19776</del>	<del>214</del>	<del>&lt; 0.07</del>	<del>-----</del>										
AA19777	1388 274	< 0.07	-----										
AA19778	1388 274	< 0.07	-----										
AA19779	1388 274	< 0.07	-----										
AA19780	1388 274	< 0.07	-----										
DAA19761	214 --	-----	0.140										
100000	214 --	-----	< 0.070										
RB-1	214 --	-----	1.990										

CERTIFICATION:



# 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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1264  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 28-FEB-97  
Invoice No. : 19714731  
P.O. Number : 196083  
Account : MUS

## CERTIFICATE OF ANALYSIS

### A9714731

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA19781	1388 274	< 0.07	-----								
AA19782	1388 274	< 0.07	-----								
AA19783	1388 274	< 0.07	-----								
AA19784	1388 274	< 0.07	-----								
AA19785	1388 274	0.21	-----								
AA19786	1388 274	< 0.07	-----								
AA19787	1388 274	< 0.07	-----								
AA19788	1388 274	0.27	-----								
AA19789	1388 274	0.10	-----								
AA19790	1388 274	0.14	-----								
AA19791	1388 274	1.44	-----								
AA19792	1388 274	0.21	-----								
AA19793	1388 274	3.09	-----								
AA19794	1388 274	1.71	-----								
AA19795	1388 274	< 0.07	-----								
AA19796	214 --	6.45	-----								
AA19797	1388 274	6.31	-----								
AA19798	1388 274	0.58	-----								
AA19799	1388 274	4.05	4.420								
AA19800	1388 274	9.67	6.860								
DAA19781	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.620								

CERTIFICATION:





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

To: PLACER DOME CANADA  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1265  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 28-FEB-97  
Invoice No. : 19714732  
P.O. Number : 196083  
Account : MUS

## CERTIFICATE OF ANALYSIS

A9714732

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA19801	1388 274	2.02	-----								
AA19802	1388 274	0.38	-----								
AA19803	1388 274	0.38	-----								
AA19804	1388 274	0.24	-----								
AA19805	1388 274	0.41	-----								
AA19806	1388 274	2.81	-----								
AA19807	1388 274	0.07	-----								
AA19808	1388 274	0.07	-----								
AA19809	1388 274	0.14	-----								
AA19810	1388 274	< 0.07	-----								
AA19811	1388 274	0.07	-----								
AA19812	1388 274	0.93	-----								
AA19813	1388 274	< 0.07	-----								
AA19814	214 --	6.48	-----								
AA19815	1388 274	< 0.07	-----								
AA19816	1388 274	0.10	-----								
AA19817	1388 274	< 0.07	-----								
AA19818	1388 274	0.41	-----								
AA19819	1388 274	0.07	-----								
AA19820	1388 274	< 0.07	-----								
DAA19801	214 --	-----	1.580								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.950								

CERTIFICATION:



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 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
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To: PLACER DOME CANADA  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 28-FEB-97  
 Invoice No. : I9714733  
 P.O. Number : 196083  
 Account : MUS

Project : SD\_D1266  
 Comments: ATTN: LESLIE BALDWIN

## CERTIFICATE OF ANALYSIS

## A9714733

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA19821	1388 274	0.07	-----								
AA19822	1388 274	0.10	-----								
AA19823	1388 274	4.59	-----								
AA19824	1388 274	1.78	-----								
AA19825	1388 274	2.02	-----								
AA19826	1388 274	0.14	-----								
AA19827	1388 274	0.14	-----								
AA19828	1388 274	0.65	-----								
AA19829	1388 274	< 0.07	-----								
AA19830	1388 274	< 0.07	-----								
AA19831	1388 274	< 0.17	-----								
AA19832	1388 274	< 0.07	-----								
AA19833	1388 274	0.72	-----								
AA19834	214 --	< 0.07	-----								
AA19835	1388 274	< 0.07	-----								
AA19836	214 --	6.21	-----								
AA19837	1388 274	< 0.07	-----								
AA19838	1388 274	0.07	-----								
AA19839	1388 274	< 0.07	-----								
AA19840	1388 274	< 0.07	-----								
DAA19821	214 --	-----	0.070								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.690								

CERTIFICATION: 



# 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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number :1  
 Total Pages :1  
 Certificate Date: 28-FEB-97  
 Invoice No. :19714734  
 P.O. Number :196083  
 Account :MUS

Project : SD\_D1267  
 Comments: ATTN: LESLIE BALDWIN

## CERTIFICATE OF ANALYSIS

## A9714734

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA19841	1388 274	< 0.07	-----								
AA19842	1388 274	0.45	-----								
AA19843	1388 274	9.02	7.680								
AA19844	1388 274	< 0.07	-----								
AA19845	1388 274	< 0.07	-----								
AA19846	1388 274	< 0.07	-----								
AA19847	1388 274	< 0.07	-----								
AA19848	1388 274	< 0.07	-----								
AA19849	1388 274	< 0.07	-----								
AA19850	1388 274	< 0.07	-----								
AA19851	1388 274	< 0.07	-----								
AA19852	1388 274	3.94	-----								
AA19853	1388 274	2.26	-----								
AA19854	214 --	6.31	-----								
AA19855	1388 274	< 0.07	-----								
AA19856	1388 274	0.07	-----								
AA19857	1388 274	< 0.07	-----								
AA19858	1388 274	< 0.07	-----								
AA19859	1388 274	< 0.07	-----								
AA19860	1388 274	< 0.07	-----								
DAA19841	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.950								

CERTIFICATION: *Leslie Baldwin*



# 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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1268  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 28-FEB-97  
Invoice No. : 19714735  
P.O. Number : 196083  
Account : MUS

## CERTIFICATE OF ANALYSIS

### A9714735

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA19861	1388 274	< 0.07	-----								
AA19862	1388 274	< 0.07	-----								
AA19863	1388 274	< 0.07	-----								
AA19864	1388 274	0.07	-----								
AA19865	1388 274	0.07	-----								
AA19866	1388 274	< 0.07	-----								
AA19867	1388 274	< 0.07	-----								
AA19868	1388 274	0.07	-----								
AA19869	1388 274	< 0.07	-----								
AA19870	1388 274	< 0.07	-----								
AA19871	1388 274	< 0.07	-----								
AA19872	1388 274	< 0.07	-----								
AA19873	1388 274	< 0.07	-----								
AA19874	1388 274	< 0.07	-----								
AA19875	1388 274	< 0.07	-----								
AA19876	214 --	6.48	-----								
AA19877	1388 274	< 0.07	-----								
AA19878	1388 274	< 0.07	-----								
AA19879	1388 274	< 0.07	-----								
AA19880	1388 274	< 0.07	-----								
DAA19861	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
GMN-1A	214 --	-----	5.690								

CERTIFICATION: 



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

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

To: PLACER DOME CANADA  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1269  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 28-FEB-97  
Invoice No. : 19714736  
P.O. Number : 196083  
Account : MUS

## CERTIFICATE OF ANALYSIS A9714736

SAMPLE	PREP CODE	Au FA g/t	Au check								
AA19881	1388 274	< 0.07	-----								
AA19882	1388 274	< 0.07	-----								
AA19883	1388 274	3.26	-----								
AA19884	1388 274	0.41	-----								
AA19885	1388 274	0.86	-----								
AA19886	1388 274	5.04	-----								
AA19887	1388 274	0.93	-----								
AA19888	1388 274	0.99	-----								
AA19889	1388 274	< 0.07	-----								
AA19890	1388 274	0.41	-----								
AA19891	1388 274	5.62	-----								
AA19892	1388 274	< 0.07	-----								
AA19893	1388 274	< 0.07	-----								
AA19894	214 --	6.00	-----								
AA19895	1388 274	< 0.07	-----								
AA19896	1388 274	< 0.07	-----								
AA19897	1388 274	< 0.07	-----								
AA19898	1388 274	< 0.07	-----								
AA19899	1388 274	< 0.07	-----								
AA19900	1388 274	< 0.07	-----								
DAA19881	214 --	-----	< 0.070								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.950								

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

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

To: PLACER DOME CANADA  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project : SD\_D1270  
Comments: ATTN: LESLIE BALDWIN

Page Number :1  
Total Pages :1  
Certificate Date: 28-FEB-97  
Invoice No. :19714737  
P.O. Number :196083  
Account :MUS

## CERTIFICATE OF ANALYSIS

A9714737

SAMPLE	PREP CODE	Au FA g/t	Au check									
AA19901	1388 274	< 0.07	-----									
AA19902	1388 274	< 0.07	-----									
AA19903	1388 274	< 0.07	-----									
AA19904	1388 274	< 0.07	-----									
AA19905	1388 274	1.27	-----									
AA19906	1388 274	0.72	-----									
AA19907	1388 274	0.75	-----									
<del>AA19908</del>	<del>1388 274</del>	<del>-----</del>	<del>-----</del>									
<del>AA19909</del>	<del>1388 274</del>	<del>-----</del>	<del>-----</del>									
<del>AA19910</del>	<del>1388 274</del>	<del>-----</del>	<del>-----</del>									
<del>AA19911</del>	<del>1388 274</del>	<del>-----</del>	<del>-----</del>									
<del>AA19912</del>	<del>1388 274</del>	<del>-----</del>	<del>-----</del>									
<del>AA19913</del>	<del>1388 274</del>	<del>-----</del>	<del>-----</del>									
<del>AA19914</del>	<del>1388 274</del>	<del>-----</del>	<del>-----</del>									
<del>AA19915</del>	<del>1388 274</del>	<del>-----</del>	<del>-----</del>									
<del>AA19916</del>	<del>1388 274</del>	<del>-----</del>	<del>-----</del>									
<del>AA19917</del>	<del>1388 274</del>	<del>-----</del>	<del>-----</del>									
<del>AA19918</del>	<del>1388 274</del>	<del>-----</del>	<del>-----</del>									
<del>AA19919</del>	<del>1388 274</del>	<del>-----</del>	<del>-----</del>									
DAA19901	214 --	-----	< 0.070									
100000	214 --	-----	< 0.070									
GMN-1A	214 --	-----	5.550									

N/A

CERTIFICATION: *[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  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 10-MAR-97  
 Invoice No. : 19715592  
 P.O. Number : TM196086  
 Account : MUS

Project : SD\_D1280  
 Comments: ATTN: LESLIE BALDWIN

<b>CERTIFICATE OF ANALYSIS</b>	<b>A9715592</b>
--------------------------------	-----------------

SAMPLE	PREP CODE	Au FA g/t	Au check						
<del>FE39029</del>	<del>1388 274</del>	<del>0.07</del>	<del>-----</del>	<i>N/A</i>					
<del>FE39030</del>	<del>1388 274</del>	<del>0.07</del>	<del>-----</del>						
<del>FE39031</del>	<del>1388 274</del>	<del>0.07</del>	<del>-----</del>						
<del>FE39032</del>	<del>1388 274</del>	<del>0.07</del>	<del>-----</del>						
<del>FE39033</del>	<del>1388 274</del>	<del>0.07</del>	<del>-----</del>						
<del>FE39034</del>	<del>214 --</del>	<del>6.03</del>	<del>-----</del>						
<del>FE39035</del>	<del>1388 274</del>	<del>0.07</del>	<del>-----</del>						
<del>FE39036</del>	<del>1388 274</del>	<del>0.07</del>	<del>-----</del>						
<del>FE39037</del>	<del>1388 274</del>	<del>0.07</del>	<del>-----</del>						
<del>FE39038</del>	<del>1388 274</del>	<del>0.07</del>	<del>-----</del>						
FE39030	1388 274	0.14	-----						
FE39031	1388 274	3.77	-----						
FE39032	1388 274	0.45	-----						
FE39033	1388 274	0.17	-----						
FE39034	214 --	6.03	-----						
FE39035	1388 274	< 0.07	-----						
FE39036	1388 274	< 0.07	-----						
FE39037	1388 274	2.02	-----						
FE39038	1388 274	2.61	-----						
FE39039	1388 274	0.17	-----						
FE39040	1388 274	0.10	-----						
DFE39021	214 --	-----	< 0.070						
100000	214 --	-----	< 0.070						
GMN-1A	214 --	-----	5.620						

CERTIFICATION: *Leslie Baldwin*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: PLACER DOME CANADA  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number :1  
 Total Pages :1  
 Certificate Date: 10-MAR-97  
 Invoice No. :19715593  
 P.O. Number :TM198086  
 Account :MUS

Project: SD D1281  
 Comments: ATTN: LESLIE BALDWIN

**CERTIFICATE OF ANALYSIS**      **A9715593**

SAMPLE	PREP CODE	Au FA g/t	Au check								
FE39041	1388 274	1.65	-----								
FE39042	1388 274	1.71	-----								
FE39043	1388 274	0.24	-----								
FE39044	1388 274	0.10	-----								
FE39045	1388 274	< 0.07	-----								
FE39046	1388 274	0.07	-----								
FE39047	1388 274	0.17	-----								
FE39048	1388 274	< 0.07	-----								
FE39049	1388 274	< 0.07	-----								
FE39050	1388 274	< 0.07	-----								
FE39051	1388 274	< 0.07	-----								
FE39052	1388 274	< 0.07	-----								
<del>FE39054</del>	<del>1388 274</del>	<del>&lt; 0.07</del>	<del>-----</del>								
<del>FE39055</del>	<del>1388 274</del>	<del>&lt; 0.07</del>	<del>-----</del>								
<del>FE39056</del>	<del>1388 274</del>	<del>6.72</del>	<del>-----</del>								
<del>FE39057</del>	<del>1388 274</del>	<del>0.99</del>	<del>-----</del>								
<del>FE39058</del>	<del>1388 274</del>	<del>0.62</del>	<del>-----</del>								
<del>FE39059</del>	<del>1388 274</del>	<del>&lt; 0.07</del>	<del>-----</del>								
DPE39041	214 --	-----	1.580								
100000	214 --	-----	< 0.070								
RB-1	214 --	-----	1.920								

CERTIFICATION: *[Signature]*

P.2

JUN 25 '97 09:50AM PLACER DOME KAMLOOPS

P.002

TX/RX NO. 6680

06/25/97 11:52





# Chemex Labs Ltd.

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

To: PLACER DOME CANADA  
 MUSSELWHITE PROJECT (506)  
 1440 HUGH ALLAN DR.  
 KAMLOOPS, BC  
 V1S 1L8

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 10-MAR-97  
 Invoice No. : 19715618  
 P.O. Number : TM196086  
 Account : MUS

Project : SD\_D1299  
 Comments : ATTN: LESLIE BALDWIN

<b>CERTIFICATE OF ANALYSIS</b>	<b>A9715618</b>
--------------------------------	-----------------

SAMPLE	PREP CODE	Au FA g/t	Au check						
<del>FE39401</del>	<del>1388 274</del>	<del>0.24</del>	<del>-----</del>						
<del>FE39402</del>	<del>1388 274</del>	<del>0.10</del>	<del>-----</del>						
<del>FE39403</del>	<del>1388 274</del>	<del>0.07</del>	<del>-----</del>						
<del>FE39404</del>	<del>1388 274</del>	<del>&lt; 0.07</del>	<del>-----</del>						
FE39406	1388 274	0.24	-----	N/A					
FE39407	1388 274	0.10	-----						
FE39408	1388 274	0.07	-----						
FE39409	1388 274	< 0.07	-----						
FE39410	1388 274	< 0.07	-----						
FE39411	1388 274	5.69	-----						
FE39412	1388 274	< 0.07	-----						
FE39413	1388 274	< 0.07	-----						
FE39414	1388 274	< 0.07	-----						
FE39415	1388 274	< 0.07	-----						
<del>FE39416</del>	<del>214 --</del>	<del>6.93</del>	<del>-----</del>						
FE39418	1388 274	0.17	-----						
FE39419	1388 274	0.07	-----						
FE39420	1388 274	< 0.07	-----						
DFE39401	214 --	-----	12.960						
100000	214 --	-----	< 0.070						
RB-1	214 --	-----	1.890						

CERTIFICATION:



# 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  
MUSSELWHITE PROJECT (506)  
1440 HUGHES BLVD.  
KAMLOOPS, B.C.  
V1S 1L8

Project: SD\_D1300  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 10-MAR-97  
Invoice No. : 19715619  
P.O. Number : TM196086  
Account : MUS

## CERTIFICATE OF ANALYSIS

### A9715619

SAMPLE	PREP CODE	Au FA g/t	Au check									
FE39421	1388	274	< 0.07	-----								
FE39422	1388	274	< 0.07	-----								
FE39423	1388	274	< 0.07	-----								
FE39424	1388	274	< 0.07	-----								
FE39425	1388	274	< 0.07	-----								
FE39426	1388	274	< 0.07	-----								
FE39427	1388	274	< 0.07	-----								
FE39428	1388	274	< 0.07	-----								
FE39429	1388	274	< 0.07	-----								
FE39430	1388	274	< 0.07	-----								
FE39431	1388	274	< 0.07	-----								
FE39432	1388	274	8.98	-----								
FE39433	1388	274	0.24	-----								
FE39434	214	--	6.45	-----								
FE39435	1388	274	< 0.07	-----								
FE39436	1388	274	0.21	-----								
FE39437	1388	274	2.40	-----								
FE39438	1388	274	10.63	-----								
FE39439	1388	274	3.67	-----								
FE39440	1388	274	4.05	-----								
DFE39421	214	--	-----	0.070								
100000	214	--	-----	< 0.070								
GMN-1A	214	--	-----	5.550								

CERTIFICATION:

*Leslie Baldwin*



# 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  
MUSSELWHITE PROJECT (506)  
1440 HUGH ALLAN DR.  
KAMLOOPS, BC  
V1S 1L8

Project: SD\_D1301  
Comments: ATTN: LESLIE BALDWIN

Page Number : 1  
Total Pages : 1  
Certificate Date: 10-MAR-97  
Invoice No. : 19715620  
P.O. Number : TM196086  
Account : MUS

## CERTIFICATE OF ANALYSIS A9715620

SAMPLE	PREP CODE	Au FA g/t	Au check								
FE39441	1388 274	2.02	-----								
FE39442	1388 274	0.89	-----								
FE39443	1388 274	0.31	-----								
FE39444	1388 274	0.24	-----								
FE39445	1388 274	0.55	-----								
FE39446	1388 274	< 0.07	-----								
FE39447	1388 274	1.85	-----								
FE39448	1388 274	1.34	-----								
FE39449	1388 274	2.81	-----								
FE39450	1388 274	0.45	-----								

CERTIFICATION: *Leslie Baldwin*



Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (office use) 659730-00446 Assessment Files Research Imaging

Personal information Mining Act, the infor Questions about If 933 Ramsey Lake F



53B09SW0020 2 17821 ZEEMEL LAKE

d 66(3) of the Mining Act. Under section 8 of the work and correspond with the mining land holder. 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.

2.17821

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

Name Placer Dome (CLA) Limited Client Number 300210 Address Suite 3201, 130 Adelaide Street West Telephone Number (416) 363-4962 P.O. Box 43, Toronto, ON P0V 1C0 Fax Number (416) 359-9787

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 Diamond Drilling - 8 holes (2672.3 metres) Office Use Commodity Total \$ Value of Work Claimed 230,099 Dates Work Performed From 05/11/1996 To 17/06/1997 NTS Reference Mining Division Patricia Resident Geologist District Sioux Lookout

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 Midwest Drilling (A Division of Germac Enterprises Ltd.) Telephone Number (204) 885-7532 Address 180 Cree Crescent, Winnipeg, Manitoba R3J 3W1 Fax Number (204) 888-4767 RECEIVED AUG 07 1997 9:51 AM GEOSCIENCE ASSESSMENT OFFICE

4. Certification by Recorded Holder or Agent

I, Stuart W. Deveau, 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 Stuart W. Deveau Date June 27/97 Agent's Address P.O. Box 158, Balmertown, ON P0V 1C0 Telephone Number (807) 662-2236 Fax Number (807) 662-22

Received June 5/97

# Schedule A 2017821

30003212  
30002229  
30003381

Claim	Parcel #	Size (Ha)	Units	\$ Work Done	\$ Applied	\$ Assigned	\$ Reserve	
	529838	944DPL		14.7877	8,515.00 ✓	0.00	8,515.00	0.00
	529839	941DPL		18.1548	11,748.00 ✓	0.00	11,748.00	0.00
	529845	945DPL		12.7238	209,836.00 ✓	0.00	18,380.00	191,456.00
4	844663		16	1	0.00	400.00 ✓	0.00	0.00
5	844665		16	1	0.00	400.00 ✓	0.00	0.00
6	844666		16	1	0.00	400.00 ✓	0.00	0.00
7	844670		16	1	0.00	400.00 ✓	0.00	0.00
8	844671		16	1	0.00	400.00 ✓	0.00	0.00
9	844672		16	1	0.00	400.00 ✓	0.00	0.00
10	844677		16	1	0.00	400.00 ✓	0.00	0.00
11	844678		16	1	0.00	400.00 ✓	0.00	0.00
12	844679		16	1	0.00	400.00 ✓	0.00	0.00
13	844680		16	1	0.00	400.00 ✓	0.00	0.00
14	844681		16	1	0.00	400.00 ✓	0.00	0.00
15	844682		16	1	0.00	400.00 ✓	0.00	0.00
16	844683		16	1	0.00	400.00 ✓	0.00	0.00
17	857789		16	1	0.00	400.00 ✓	0.00	0.00
18	857790		16	1	0.00	400.00 ✓	0.00	0.00
19	857791		16	1	0.00	400.00 ✓	0.00	0.00
20	857792		16	1	0.00	400.00 ✓	0.00	0.00
21	857797		16	1	0.00	400.00 ✓	0.00	0.00
22	857798		16	1	0.00	400.00 ✓	0.00	0.00
23	857799		16	1	0.00	400.00 ✓	0.00	0.00
24	857800		16	1	0.00	400.00 ✓	0.00	0.00
25	857801		16	1	0.00	400.00 ✓	0.00	0.00
26	857802		16	1	0.00	400.00 ✓	0.00	0.00
27	857803		16	1	0.00	400.00 ✓	0.00	0.00
28	857804		16	1	0.00	400.00 ✓	0.00	0.00
29	857805		16	1	0.00	400.00 ✓	0.00	0.00
30	857806		16	1	0.00	400.00 ✓	0.00	0.00
31	857807		16	1	0.00	400.00 ✓	0.00	0.00
32	857808		16	1	0.00	400.00 ✓	0.00	0.00
33	857809		16	1	0.00	400.00 ✓	0.00	0.00
34	857810		16	1	0.00	400.00 ✓	0.00	0.00
35	857811		16	1	0.00	400.00 ✓	0.00	0.00
36	857812		16	1	0.00	400.00 ✓	0.00	0.00
37	857813		16	1	0.00	400.00 ✓	0.00	0.00
38	857814		16	1	0.00	400.00 ✓	0.00	0.00
39	857815		16	1	0.00	400.00 ✓	0.00	0.00
40	857816		16	1	0.00	400.00 ✓	0.00	0.00
41	857817		16	1	0.00	400.00 ✓	0.00	0.00
42	857818		16	1	0.00	400.00 ✓	0.00	0.00
43	857819		16	1	0.00	400.00 ✓	0.00	0.00
44	857820		16	1	0.00	400.00 ✓	0.00	0.00
45	857821		16	1	0.00	400.00 ✓	0.00	0.00
46	857822		16	1	0.00	400.00 ✓	0.00	0.00
47	857823		16	1	0.00	400.00 ✓	0.00	0.00
48	857824		16	1	0.00	400.00 ✓	0.00	0.00
49	857825		16	1	0.00	400.00 ✓	0.00	0.00
50	857826		16	1	0.00	400.00 ✓	0.00	0.00
51	1163033			12	0.00	4,800.00 ✓	0.00	0.00

**RECEIVED**  
 AUG 07 1997  
 9:51 AM  
 GEOSCIENCE ASSESSMENT  
 OFFICE

## Schedule A

Claim	Parcel #	Size (Ha)	Units	\$ Work Done	\$ Applied	\$ Assigned	\$ Reserve
52	1163034	160	10	0.00	4,000.00 ✓	0.00	0.00
53	1163035	128	8	0.00	643.00 ✓	0.00	0.00
54	1163036	192	12	0.00	4,800.00 ✓	0.00	0.00
55	1163037	192	12	0.00	4,800.00 ✓	0.00	0.00
56	1163041	32	2	0.00	800.00 ✓	0.00	0.00
				230,099.00	38,643.00	38,643.00	191,456.00

NOISIAKI  
VICIA  
E TON DOEL

97 JUN 50 AIO : 34

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.

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	2672.3 metres	\$80	\$213,784
Assays	1255 samples	\$13	\$16,315
Associated Costs (e.g. supplies, mobilization and demobilization).			
Transportation Costs			
Food and Lodging Costs			
Total Value of Assessment Work			\$230,099

RECORDED & INDEXED  
MINE DIVISION  
37 JUN 30 10:34

**RECEIVED**  
AUG 07 1997  
9:51 AM  
GEOSCIENCE ASSESSMENT OFFICE

**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  $\times 0.50 =$  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, Stuart W. Deveau (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Agent (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature: Stuart W. Deveau Date: June 27/97

Ministry of  
Northern Development  
and Mines  
November 18, 1997

Ministère du  
Développement du Nord  
et des Mines

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

PLACER DOME (CLA) LIMITED  
130 ADELAIDE STREET WEST  
P.O. BOX 43, SUITE 3201  
TORONTO, ON  
M5H-3P5

Telephone: (888) 415-9846  
Fax: (705) 670-5863

Dear Sir or Madam:

**Submission Number:** 2.17821

**Status**

**Subject: Transaction Number(s):** W9730.00446 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.

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at [jerome\\_l@torv05.ndm.gov.on.ca](mailto:jerome_l@torv05.ndm.gov.on.ca) or by telephone at (705) 670-5858.

Yours sincerely,



ORIGINAL SIGNED BY  
Blair Kite  
Supervisor, Geoscience Assessment Office  
Mining Lands Section



# Work Report Assessment Results

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**Submission Number:** 2.17821

**Date Correspondence Sent:** November 18, 1997

**Assessor:** Lucille Jerome

---

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9730.00446	3000328	ZEEMEL LAKE	Deemed Approval	November 05, 1997

**Section:**

16 Drilling PDRILL

**Correspondence to:**

Resident Geologist  
Sioux Lookout, ON

Assessment Files Library  
Sudbury, ON

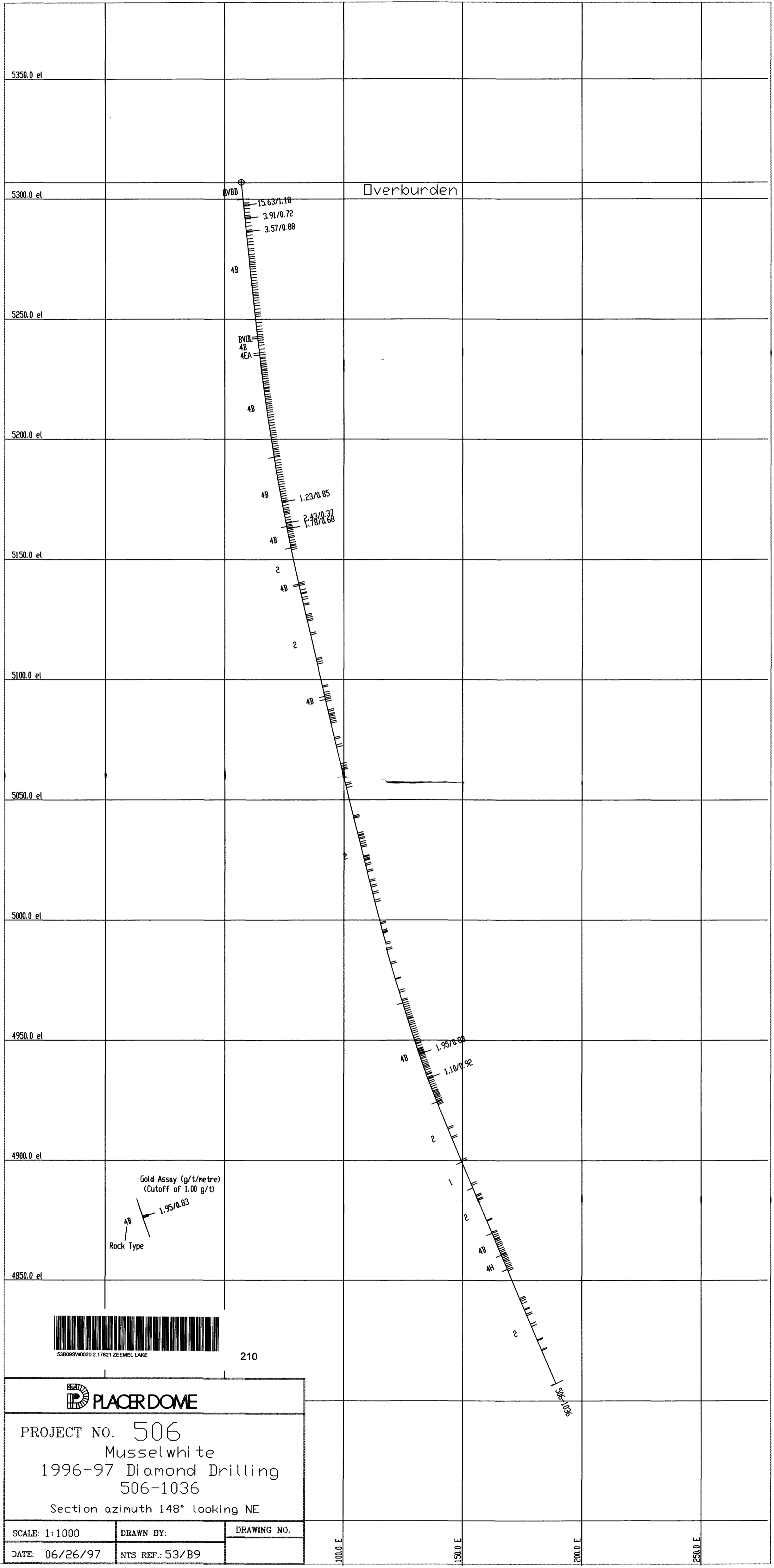
**Recorded Holder(s) and/or Agent(s):**

Stuart Deveau  
RED LAKE, ONTARIO

PLACER DOME (CLA) LIMITED  
TORONTO, ON

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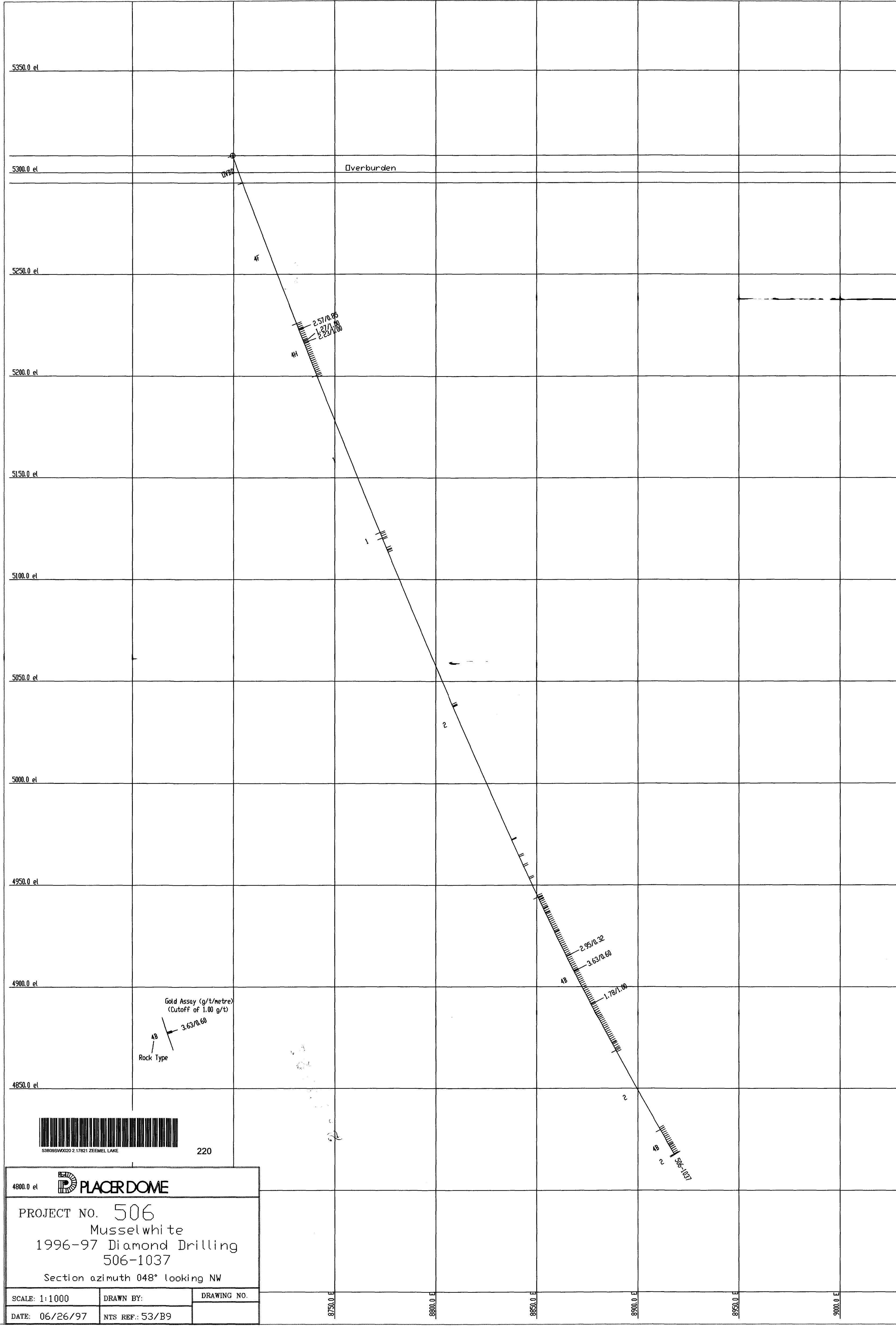




210

PROJECT NO. 506 Musselwhite 1996-97 Diamond Drilling 506-1036 Section azimuth 148° looking NE		
SCALE: 1:1000	DRAWN BY:	DRAWING NO.
DATE: 06/26/97	NTS REF.: 53/B9	

2, 17821



5350.0 el  
5300.0 el  
5250.0 el  
5200.0 el  
5150.0 el  
5100.0 el  
5050.0 el  
5000.0 el  
4950.0 el  
4900.0 el  
4850.0 el  
4800.0 el

8750.0 E 8800.0 E 8850.0 E 8900.0 E 8950.0 E 9000.0 E

Gold Assay (g/t/metre)  
(Cutoff of 1.00 g/t)

AB  
Rock Type

3.63/0.60

2.57/0.85  
1.37/0.48  
2.23/0.60

2.95/0.32  
3.63/0.60  
1.78/0.60

506-1037

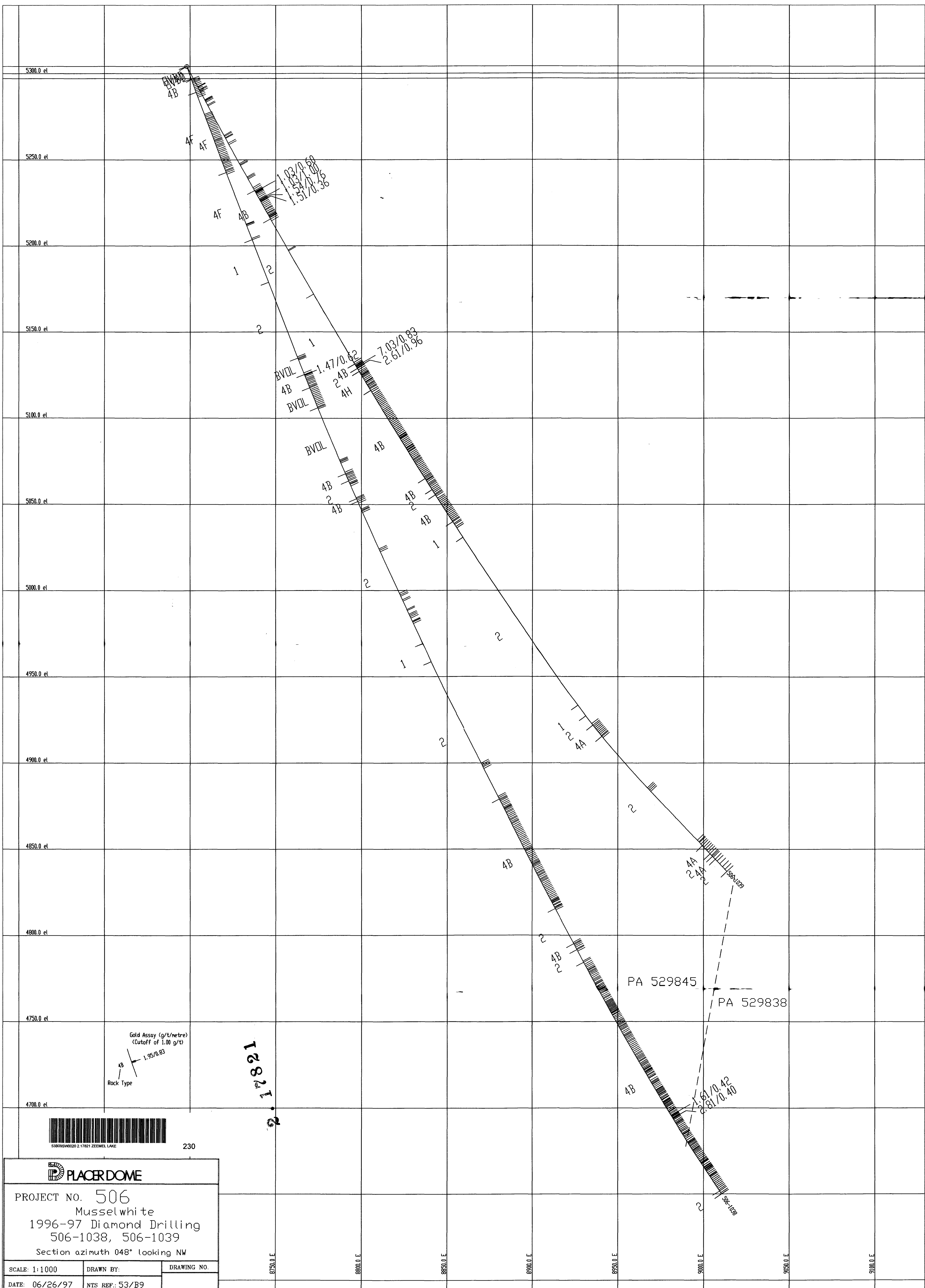


220

4800.0 el PLACER DOME

PROJECT NO. 506  
Musselwhite  
1996-97 Diamond Drilling  
506-1037  
Section azimuth 048° looking NW

SCALE: 1:1000	DRAWN BY:	DRAWING NO.
DATE: 06/26/97	NTS REF.: 53/B9	



230

**PLACER DOME**  
 PROJECT NO. 506  
 Musselwhite  
 1996-97 Diamond Drilling  
 506-1038, 506-1039  
 Section azimuth 048° looking NW

SCALE: 1:1000	DRAWN BY:	DRAWING NO.
DATE: 06/26/97	NTS REF.: 53/B9	

8800.0 E

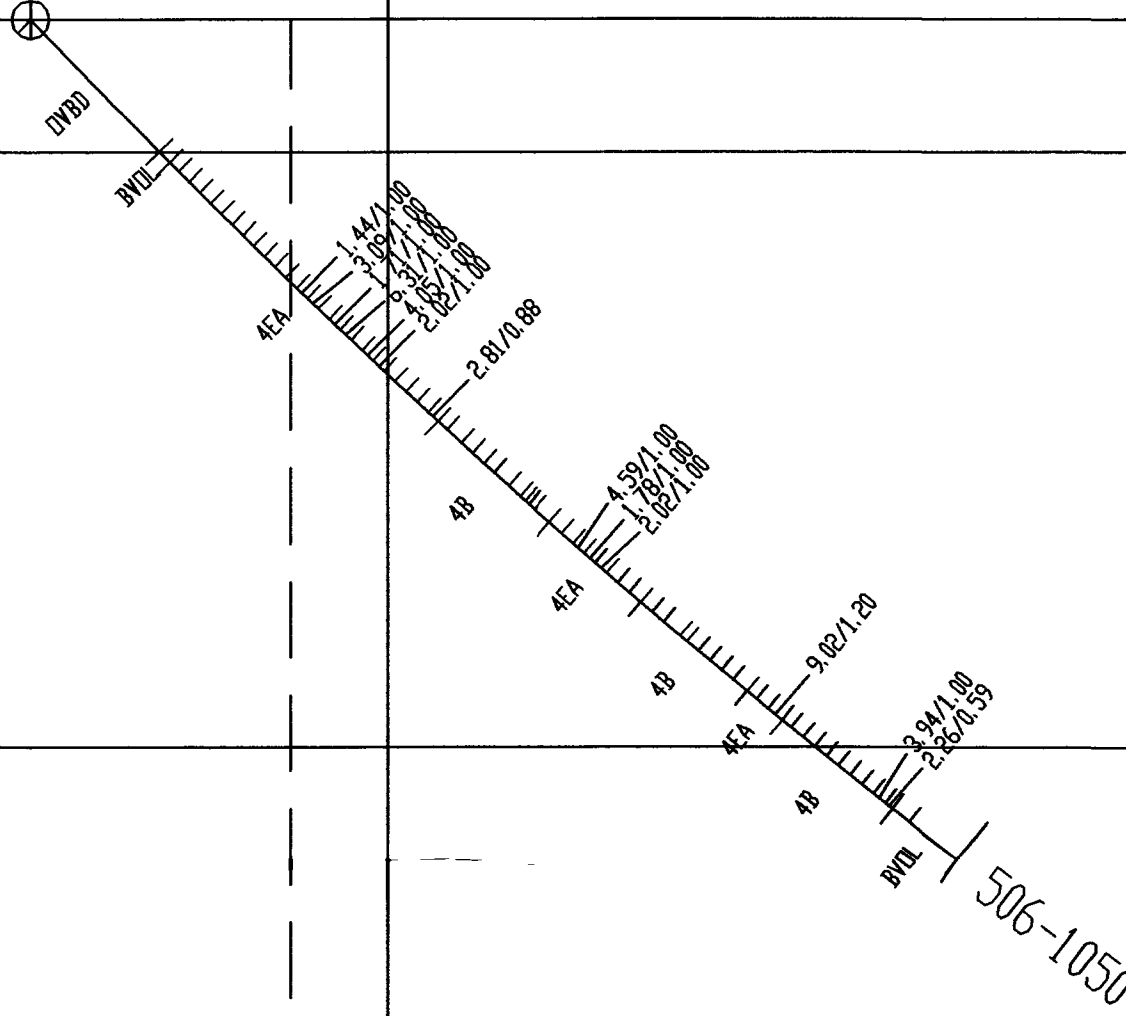
8850.0 E

8900.0 E

5300.0 el

5250.0 el

5200.0 el



PA 529845

PA 529838



53B09SW0020 2.17821 ZEEMEL LAKE

240



PROJECT NO. 506  
 Musselwhite  
 1996-97 Diamond Drilling  
 506-1050  
 Section azimuth 048° looking NW

SCALE: 1:500

DRAWN BY:

DRAWING NO.

DATE: 06/26/97

NTS REF.: 53/B9

Gold Assay (g/t/metre)  
 (Cutoff of 1.00 g/t)

4B  
 Rock Type  
 1.95/0.83

8800.0 E

8850.0 E

8900.0 E

5300.0 el



UVBD

4F

4EA

3.26/1.00

5.04/1.00

5.62/0.84

1.27/1.00

4B

506-1051

5250.0 el



53B09SW0020 2.17821 ZEEMEL LAKE

250

5200.0 el



PROJECT NO. 506  
Musselwhite  
1996-97 Diamond Drilling  
506-1051

Section azimuth 048° looking NW

SCALE: 1:500

DRAWN BY:

DRAWING NO.

DATE: 06/26/97

NTS REF.: 53/B9

Gold Assay (g/t/metre)  
(Cutoff of 1.00 g/t)

4B

1.95/0.83

Rock Type

5150.0 el



5300.0 el

5250.0 el

5200.0 el

506-1055



260



PROJECT NO. 506  
 Musselwhite  
 1996-97 Diamond Drilling  
 506-1055  
 Section azimuth 048° looking NW

SCALE: 1:500

DRAWN BY:

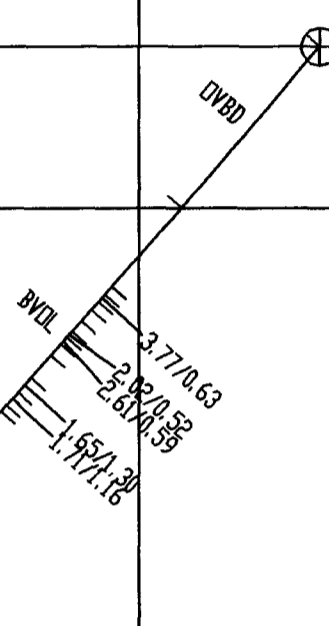
DRAWING NO.

DATE: 06/26/97

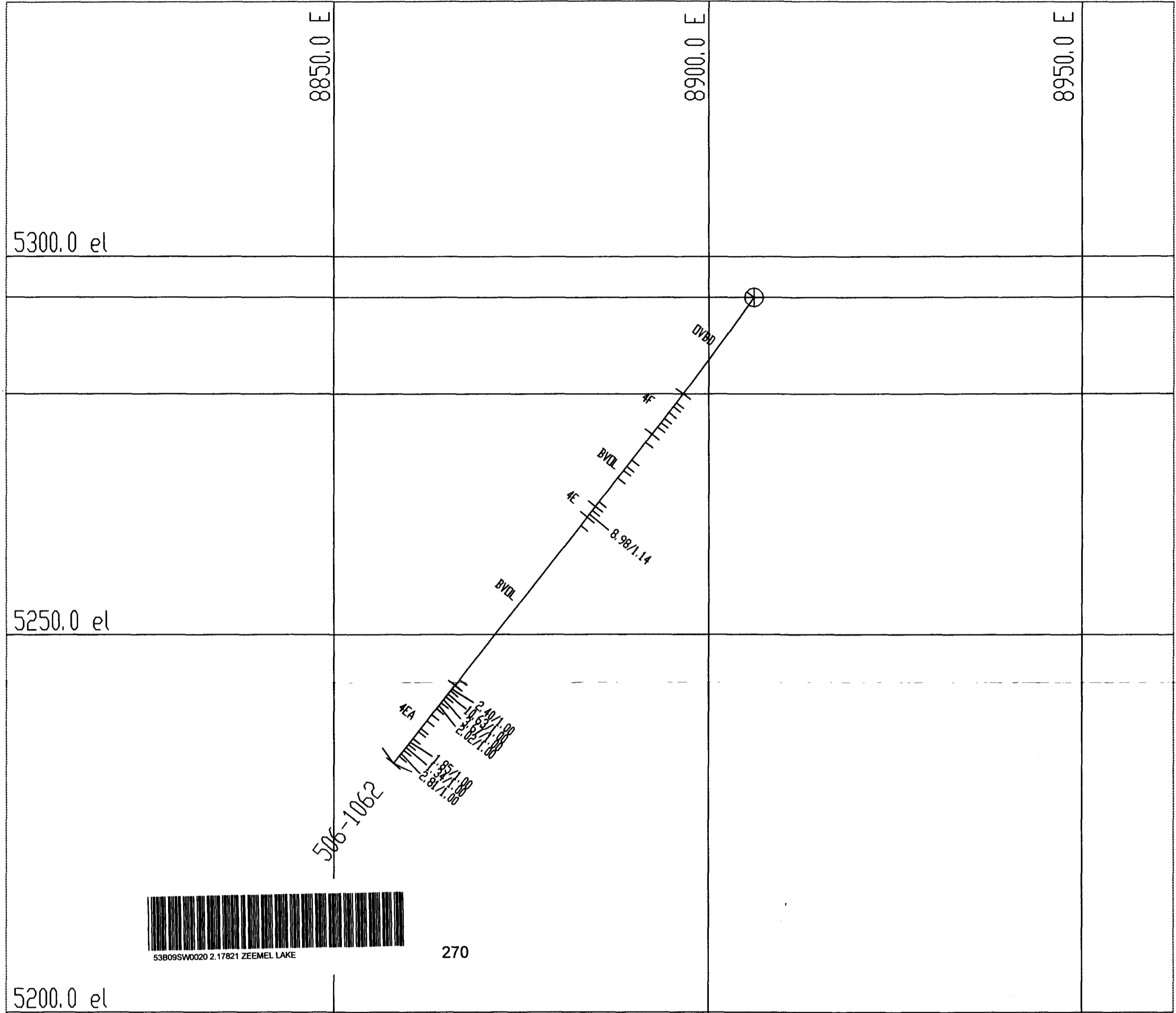
NTS REF.: 53/B9

Gold Assay (g/t/metre)  
(Cutoff of 1.00 g/t)

4B  
 Rock Type  
 1.95/0.83







270

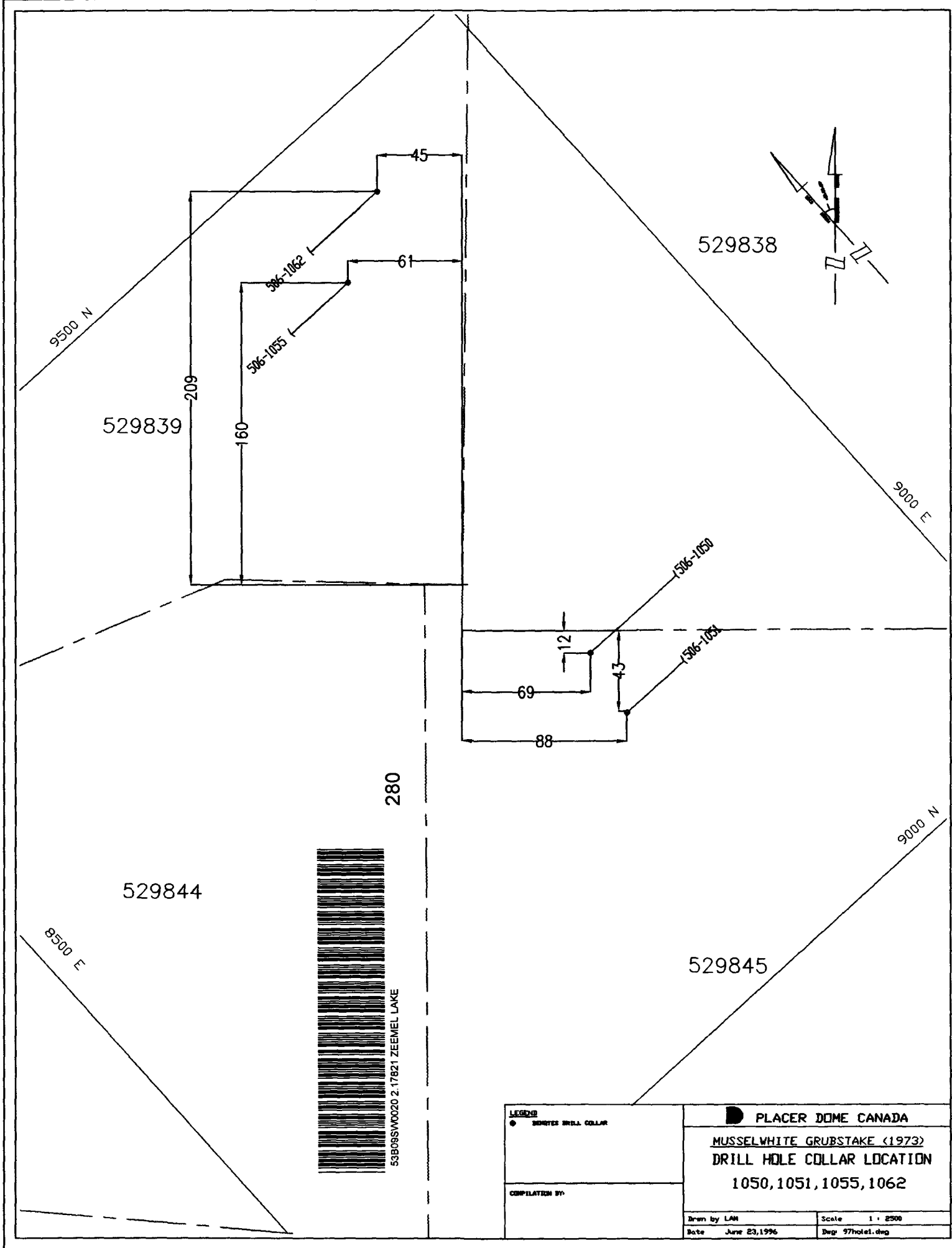


PROJECT NO. 506  
 Musselwhite  
 1996-97 Diamond Drilling  
 506-1062  
 Section azimuth 048° looking NW

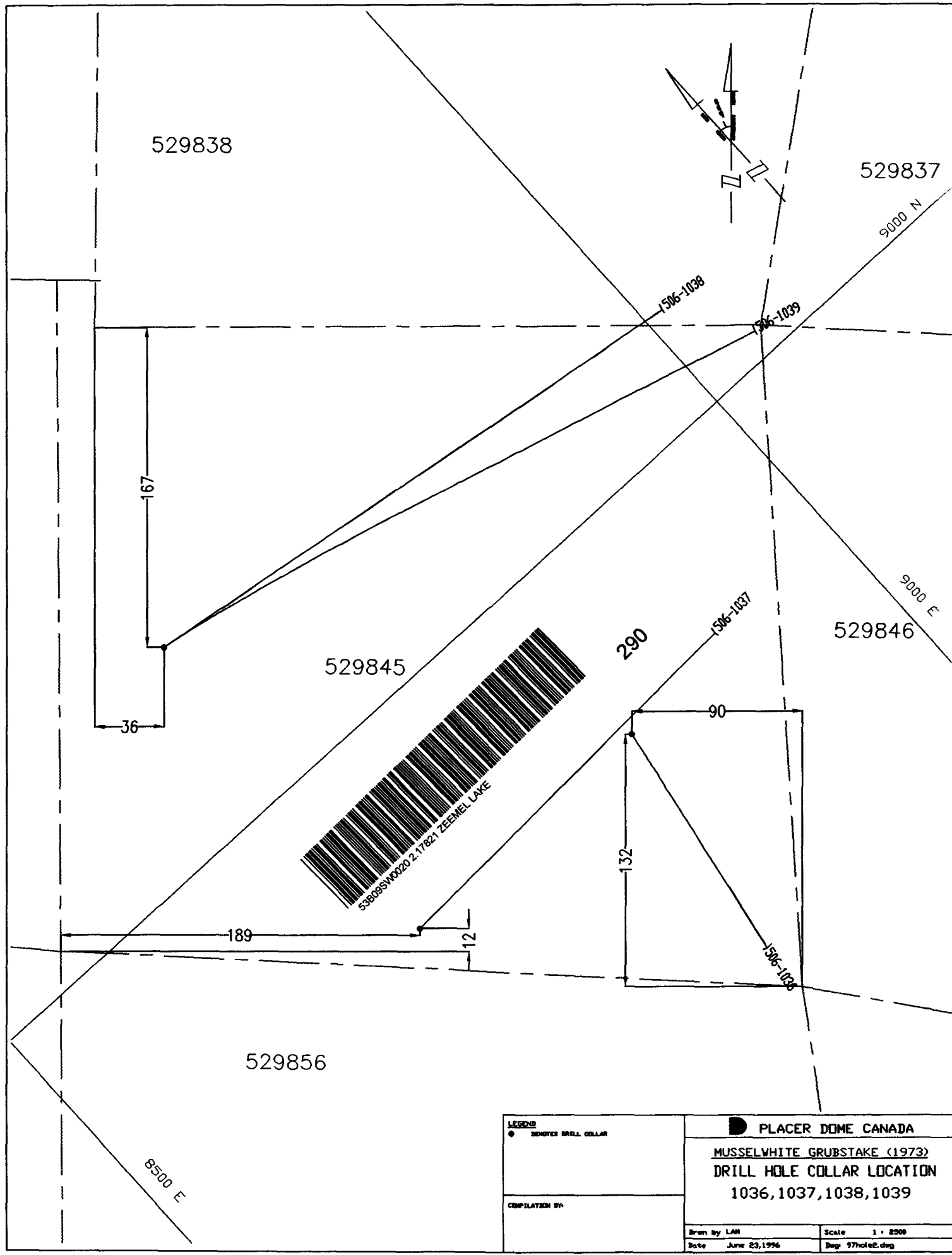
SCALE: 1:500	DRAWN BY:	DRAWING NO.
DATE: 06/26/97	NTS REF.: 53/B9	

Gold Assay (g/t/metre)  
 (Cutoff of 1.00 g/t)

4B  
 Rock Type  
 1.95/0.83



<b>LEGEND</b> ● BOREHOLE DRILL COLLAR  COMPILATION BY:	<b>PLACER DOME CANADA</b> MUSSELWHITE GRUBSTAKE (1973) DRILL HOLE COLLAR LOCATION 1050, 1051, 1055, 1062	
	Drawn by LAM Date June 23, 1996	Scale 1 : 2500 Dwg 97hole1.dwg



529838

529837

9000 N

1506-1038

1506-1039

167

36

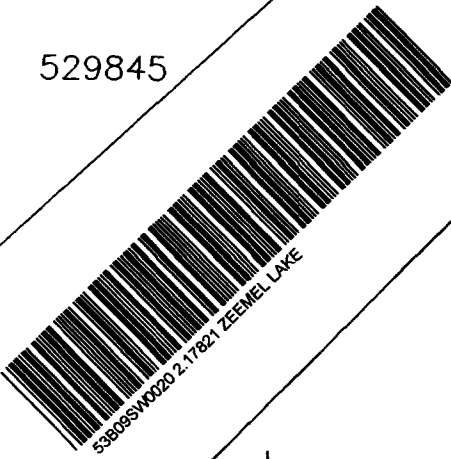
9000 E

529846

529845

290

1506-1037



90

132

1506-1036

189

12

529856

8500 E

<b>LEGEND</b>	
●	INDICATES DRILL COLLAR
COMPILED BY:	

<b>PLACER DOME CANADA</b>	
MUSSELWHITE GRUBSTAKE (1973)	
DRILL HOLE COLLAR LOCATION	
1036, 1037, 1038, 1039	
Drawn by LAM	Scale 1 : 2500
Date June 23, 1996	Dwg 97holeE.dwg