

VOLUME 2
APPENDICES VI & VII
TO ACCOMPANY THE 1991
DRILLING REPORT ON THE
SITE C AREA,
MT. MILLIGAN PROJECT

PLACER DOME INC.

21488
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APPENDIX VI
Geolog Legend



GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,488

~~21,488~~ 2097

Geolog Legend

Rocktypes (upper tier columns 24-27):

<u>Graph Log Code</u>	<u>Rock Code</u>	<u>Rock Type</u>
	CASE	CASING
	OVBD	OVERBURDEN
	ARGL	ARGILLITE
	CONG	CONGLOMERATE
	WACK	WACKE
	MUDS	MUDSTONE
G	GABR	GABBRO
V _T	LPXT	LATITE CRYSTAL TUFF
V _F	LPFW	LATITE PORPHYRY FLOW
Q _S	QSCH or QZ SCHS	QUARTZ SCHIST
S _c	SCHS	SCHIST
	QZVN	QZVN
	FALT	FAULT
	MYLN	MYLONITE

Typifying Modifier (upper tier columns 21-22):

-Additional descriptor for rock type.

BI	biotitic
CL	chloritic
HL	healed
FG	fine-grained
MG	medium-grained
CG	coarse-grained

Mineral Codes (columns 57-80, and Graphlog):

MS	sericite
BI	biotite
CL	chlorite
E:	epidote:chlorite (assoc. with propylitic alteration)
C:	late carbonate (veining)
P1	fine- to coarse-grained pyrite
P2	fine-grained pyrite
PO	pyrrhotite
C1	fine- to coarse-grained chalcopyrite
C2	fine-grained chalcopyrite
BO	bornite
HE	hematite
G:	galena:sphalerite
MG	magnetite
CU	native copper
M:	malachite:azurite
GR	graphite
LI	limonite
KF	potassic feldspar
QZ	quartz
CB	pervasive carbonate
AB	albite
GN	garnet
FU	fuchsite:green sericite
CY	clay

HOW Scale Descriptor (columns 57-80):

-describes how the mineral occurs.

>	macrovein
V	vein
<	microvein
\$	sheeted
K	stockwork
S	selvage
E	envelope
P	pervasive
F	flooded
D	disseminated
O	spots, clots
Q	patches
#	breccia matrix
C	clasts
M	massive
L	laminated
B	bedded
A	amygdaloidal

Composite HOW Scale (for multiple occurrences):

X	M and/or L
9	P or D, < and V, S and E
8	P or D greater than V, <, S and E, K3
7	P or D equal to V, <, S and E, K
6	P or D less than V, <, S and E, K
5	V, K often with E
4	V, K occasionally with E
3	V equal to O or Q
2	> and V
1	A, minor > and/or D (as scattered crystals)
0	fresh primary rock

G-Scale (columns 57-80):

-follows HOW character. Gives amount of mineral.

<u>Code</u>	<u>Assigned Value</u>	<u>Range</u>
?	0%	possibly present
/	.07	present, no estimate
0	0	absent
.	.01	<.02 trace
-	.03	.02-.06
(	.1	.07-.2
*	.3	.2-.7
)	1	.7-2
+	3	2-4
=	5	4-6
1	10	6-14
2	20	15-25
3	30	26-35
4	40	36-45
5	50	46-55
6	60	56-65
7	70	66-75
8	80	76-85
9	90	86-99
X	100	100

F-Scale (upper and lower tiers, columns 43-46)

-a measure of fracture and vein density. Fractures and veins are subdivided into three categories: S 0-30° T.C.A.

M 30-60° T.C.A.

L 60-90° T.C.A.

Total fracture density is also recorded.

Note: All structural measurements are taken relative to the core axis (eg. core axis = 0°).

Density per metre F-scale Value

55+	X
45	9
36	8
28	7
21	6
15	5
10	4
6	3
3	2
1	1
0	0

APPENDIX VII
Drill Logs

PLACER DOME INC.

GEOLOG DRILLHOLE HEADER FORM

KEY	FLAG	FORMAT VERSION	SPEC	UNIQUE ID OF PROJECT OR SUB-PROJECT	DRILL HOLE / TRAVERSE PRE-FIX TYPE	SIZE OF CORE OR HOLE	GEOLOGGED BY	ASST'D BY	DRILLED BY	DRILLER(S)	MONTH	YR	RIG TYPE	DRILLING TIME-HRS	SURVEYED BY	CO-ORD SYSTEM	GRID	AZIMUTH	PAGE	OF														
I	D	E	N	6	8	0	2	0	1		279	91-051	NQ	19	FEB	91	RM	COAT	FEB	91	0	1	7											
COMPANY NAME										PROPERTY or PROJECT or SUB-PROJECT NAME																								
PLACER DOME INC										MT MILLIGAN																								
TURN'G PL. 000-Collar		FROM	TO	MT or	TOTAL DEPTH/LENGTH	A ZM	CLOCKW'S FR. TRUE N	V-ANG.	NEG. IF DOWN	NORTHING	NEG. IF SOUTH	EASTING	NEG. IF WEST	ELEVATION	NEG. IF SUB-SEA																			
S 0 0 0		000	6700	NT	84.12	--	--	--	90.00																									
RECOVERY										T-MOD	% MIX	ROCK	TM 1	TM 2	QM 1	TX 1	TX 2	F	GRAIN Fc	% MXP	R	BI	STRUC ID	STRIKE AZM	DIP TO RT OR PLUNGE	ALTERATION AND MINERAL SUITES				OPEN FIELD				
LNAM																						OPEN FIELD												
RQD										AGE FORM-N	ENVR	LC	TM 3	COLOUR	QM 2	TX 3	TX 4	S	R	N	S	N	O	FRACTURES	R	BI	STRUC ID	A ZM	DIP TORT					OPEN FIELD
LNAM																						OPEN FIELD												
										FILL IN COLUMN HEADINGS USED										if desired														
										1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80																								
ISCL										UNIT OF																								
										T . 2																								
LSCL										LENGTH RECOVERY																								
										UNIT OF																								
										LCTM or																								
										RQD										LB Hu														
EXTRA DOWNHOLE SURVEY CARDS										FILL OUT IF REQUIRED										CROSS OUT IF NOT REQUIRED														
TURN'G PL. 000-Collar		FROM	TO	TOTAL DEPTH/LENGTH	A ZM	CLOCKW'S FR. TRUE N	V-ANG.	NEG. IF DOWN																										
S 0 0 1		6700	8412	84.12	--	--	--	90.00																										
S 0 0 2																																		
S 0 0 3																																		
S 0 0 4																																		
S 0 0 5																																		
S 0 0 6																																		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80																																		
A 0 0										Assay File No. (Typically 1.)										ASSAY FIELD NAMES SEE NOTE 2														
A U M M																																		
A L A B																																		
A T Y P																																		
A M T H																																		
										ASSAY FILE DESCRIPTION CARDS ARE OPTIONAL										CROSS OUT IF NOT REQUIRED OR REPLACED BY REMARKS														
SAMPLE ASSAY RECORDS										FROM										TO														
A 0 0										17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80										RECOVERY														
A 0 0																																		
A 0 0																																		
A 0 0																																		
										Assay File Definition Number, Typically A001.																								

Notes:

1. - Do not change /NAM, LNAM, /SCL, LSCL, or AUMM card definitions durin a project. Blanks may be changed howevr.
2. - On AUMM card, right adjust names so that R.H. 4 letters make sense. They will be "stars" header names.
3. - Units of distance on S000 card are for survey coordinates, those on /SCL card are for downhole distances.
4. - To define XX type field put XX in upper tier, lower tier then becomes corresponding How and amount field.

5. - If additional "S" or "A" cards are required use another header form and cross out unwanted portions or enter "S" or "A" cards on keypunched portion on Form 2.

GRAPHIC LOG

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION					
			Py	Ch	Kf	Bl	Sp/Cl	Zn/PO

HORIZON TAG	FROM	TO
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16		

PLACER DOME INC.
DRILL LOG FORM 4

MBG - JULY 90

RECOV	T-MOD	%MIX	ROCK	VEINS			DEFINED MINERAL FIELDS																				OPEN FIELDS											
18	19	20	21	22	23	24	25	26	27	43	44	45	46	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
RQD	C.S.																																					

DESCRIPTIVE REMARKS																18	19	20	21	22	23	24	25	26																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	RECOV	SAMPLE No.																							
A	0	0																																						
P							0.00								1707																									
R							0.00								152																									
R							1.52								9.14																									
R							9.14								12.19																									
R							12.14								1707																									
															1707																									
G															1707																									
P							1707								5581																									
D							1707								4054				X																					
L															4054																									
R															1707																									

Xenolith

Gabbro - Green cream mottled, medium grained, 40% px fhd. Euhedral to subhedral 2-6mm in size, 50% anhedral plagioclase. 40-60% chloritic alteration of matrix, wk. Saussurization of feldspar. WK-mod ~~as~~ planar fabric. No sulphides - contains rare schist xenoliths.

This unit is probably part of the slide Mtn Group.

GRAPHIC LOG

UNIQUE ID OF PROJECT	DRILL HOLE/TRAVERSE	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID	AZIMUTH	PAGE	OF
680201	279	91-051												3	7

DRILL COORD SYSTEM UNITS	M/F	TOTAL DEPTH/LENGTH	AZM	V ANG	NORTHING	EASTING	ELEVATION
S	T						

HORIZON FLAG	FROM	TO
1 2 3 4	5 6 7 8 9 10	11 12 13 14 15 16
/		
ZONE FLAG		
L		

**PLACER DOME INC.
DRILL LOG FORM 4**

MBG - JULY 90

RECOV	T-MOD	MIX	ROCK	VEINS	DEFINED MINERAL FIELDS	OPEN FIELDS
18 19 20	21 22 23	24 25 26 27	28 29 30 31	32 33 34 35	36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
RQD	CS			FRACTURES	MSBJE:C:PICIBOHEG:LIXXY	
					KEQZCBABP2C2MG	CUM:XXYY

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION					
			SP	CP	FL	KL	EP/CL	EMPO
G		/						
G		/						
G		/						
G		/						
G		/						
G		/						
G		/						
G		/						
G		/						
G		/						
G		/						
G		/						
G		/						
G		/						
G		/						

1 2 3 4	5 6 7 8 9 10	11 12 13 14 15 16
A 0 0		

DESCRIPTIVE REMARKS

18 19 20	21 22 23 24 25 26
RECOV	SAMPLE No.

30															
32															
34															
36															
38															
40	D		40.54	5586						X			121		P4LT
	L												121		
	A 0 0 4		40.54	5586											
	R													0.03	
42															
44															
46															

Gabbro - Fine grained border phase; contains numerous siliceous inclusions
of undulating mylonite schists

KEY	FLAG	FORMAT VERSION	SPEC	UNIQUE ID OF PROJECT OR SUB-PROJECT	DRILL HOLE / TRAVERSE PRE-FIX TYPE	SIZE OF CORE OR HOLE	GEOLOGGED MONTH	BY	ASST'D BY	DRILLER (S)	MONTH	YR.	RTG TYPE	DRILLING TIME-HRS	SURVEYED BY	CO-ORD SYSTEM	GRID AZIMUTH	PAGE	OF										
I	D	E	N	680201	279	91-BSZ	NQ	23	FRB	91	R	K	M	COAT	F	91		0	1										
COMPANY NAME										PROPERTY or PROJECT or SUB-PROJECT NAME																			
I P R J										PLACED DOME INC										MT MILLIGAN									
TURN'G PT. 000-Collar		FROM	TO	MT or	TOTAL DEPTH/LENGTH	AZM	CLOCKWISE FR. TRUE N.	V-ANG.	NEG. IF DOWN	NORTHING	NEG. IF SOUTH	EASTING	NEG. IF WEST	ELEVATION	NEG. IF SUB-SEA														
5000		000	7010	M+	75.90	-	-	-	90.00																				
RECOVERY										T-MOD	% MIX	ROCK	TM1	TM2	QM1	TX1	TX2	F	GRAIN CC	% MXP	R1	B1	STRUC ID	STRIKE AZM	DIPTO RT OR PLUNGE	ALTERATION AND MINERAL SUITES	OPEN FIELD		
I N A M																													
R O D										AGE FORM N	ENVR	LC COLOUR	TM3	QM2	TX3	TX4	S	R	N	S	O	FRACTURES SIMIL	R1	B2	STRUC ID	AZM	DIPTORT	OPEN FIELD	
L N A M																													
										FILL IN COLUMN HEADINGS USED if desired																			
										UNIT OF LENGTH										UNIT OF RECOVERY									
										T.2																			
										L S C L										L S C L									
										R O D										L B H _u									

FILL OUT IF REQUIRED										CROSS OUT IF NOT REQUIRED																																																																					
TURN'G PT. 000-Collar	FROM	TO	TOTAL DEPTH/LENGTH	AZM	CLOCKWISE FR. TRUE N.	V-ANG.	NEG. IF DOWN																																																																								
5001	7010	7590	75.90	312	00	-84	00																																																																								
5002																																																																															
5003																																																																															
5004																																																																															
5005																																																																															
5006																																																																															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

Assay File No. (Typically 1.)										ASSAY FIELD NAMES SEE NOTE 2.									
A O O																			
A U M M																			
A L A B																			
A T Y P																			
A M T H																			
ASSAY FILE DESCRIPTION CARDS ARE OPTIONAL										CROSS OUT IF NOT REQUIRED OR REPLACED BY REMARKS									
SAMPLE ASSAY RECORDS																			
FROM	TO	RECOVERY	SS: Sample Serial No.																
A00																			
A00																			
A00																			
A00																			
Assay File Definition Number, Typically A001.																			

- Notes:
- Do not change INAM, LNAM, /SCL, LSCL, or AUMM card definitions during a project. Blanks may be changed however.
 - On AUMM card, right adjust names so that R.H. 4 letters make sense. They will be "stats" header names.
 - Units of distance on 5000 card are for survey coordinates, those on /SCL card are for downhole distances.
 - To define XX type field put XX in upper tier, lower tier then becomes corresponding How and amount field.
 - If additional "S" or "A" cards are required use another header form and cross out unwanted portions or enter "S" or "A" cards on keypunched portion on Form 2.

GRAPHIC LOG

UNIQUE ID OF PROJECT	DRILL HOLE/TRVERSE	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID	AZIMUTH	PAGE OF
IDEN 6 B 0 2 0 1	2 9 9	9 1 1 - B 5 2												2
DRILL COORD SYSTEM UNITS →	M/F	TOTAL DEPTH/LENGTH AZM	V ANG			NORTHING		EASTING		ELEVATION				
S	T	.	.	.	.	.	.	.	.	.	.	.	.	.

HORIZON FLAG	FROM										TO					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
/																
ZONE FLAG																
L																

**PLACER DOME INC.
DRILL LOG FORM 4**

MBG - JULY 80

RECOV	TWO	TH	ROCK	VEINS	DEFINED MINERAL FIELDS												OPEN FIELDS																						
18	19	20	21	22	23	24	25	26	27	43	44	45	46	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80		
ROD	C S													M S B I E	C	P I C I	B O H E G	L	X X Y Y																				
														K F Q Z C B A B P R C M G						C U M I	X X Y Y																		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A 0 0															

DESCRIPTIVE REMARKS

18	19	20	21	22	23	24	25	26
RECOV	SAMPLE No.							
	CASE							

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION #
			Y B H P K P / C P / D
S _c	/		
S _c	/		
S _c	/		
S _c	/		
S _c	/		
S _c	/		
P			
L			
P			
L			
P			
L			
P			
L			
P			
L			

A 0 0	5 7 0 0	5 7 0 0
P	0 0 0	5 7 0 0
R	0 0 0	6 1 0
	6 1 0	9 1 4
	9 1 4	2 4 3 8
	2 4 3 8	2 7 4 3
	2 7 4 3	3 6 5 8
	3 6 5 8	4 7 7 7
	4 7 7 7	5 1 8 2
	5 1 8 2	5 7 0 0
K O X D	5 7 0 0	5 7 0 0
P	5 7 0 0	6 3 9 9
L		
A 0 0 4	5 7 0 0	6 3 9 9
R		
P	6 3 9 9	6 8 1 7
L		
A 0 0 4	6 3 9 9	6 8 1 7
R		

Mud

Mostly clay + mud - some hard pan

hard clay

hard pan + clay

hard pan + gravel

Boulders + clay

Rock + clay

Boulders

K O X D

S C H S O O O L 3 L 4 <<

1 2 1 L =

0.01

Schist - biotite - feldspar, muscovite ± garnet - black laminae of biotite w/ alternating white feld + muscovite. 40% Biotite; 35% Feld; 25% Muscovite

Schistosity at 60°-70° TGA -

Contains local 2-5 cm qtz-bio-feld-Musc schist bands

Local garnet porphyroblasts ranging in size from H to 6 mm

Core wkly to moderately broken - Fresh, minor CB inluts - no sulphides noted

QZ. S C H S O O O L 2 L 3 <<

1 2 1 L 5

0.00

QTZ - Musc - Biotite Schist - lt gray qtz rich fr w/ thin narrow darker gray bands. Contains 50% qtz; 30% Biotite; 20% Muscovite; Rare garnet porphyroblasts

Bio occurs as frags and may be Phlogopite; Musc occurs as 4-6 mm flakes + masses. - Minor CB inluts - No sulph noted

KEY	FLAG	FORMAT VERSION	SPEC	UNIQUE ID OF PROJECT OR SUB-PROJECT	DRILL HOLE / TRAVERSE PRE-FIX TYPE P.E.I. NUMBER	SIZE OF CORE OR HOLE	GEOLOGGED MONTH	BY	ASS'D BY	DRILLER(S)	DRILL MONTH YR.	RIG TYPE	DRILLING TIME-HRS.	SURVEYED BY	CO-ORD SYSTEM	GRID AZIMUTH	PAGE	OF						
I	D	E	N	6	B	0	2	0	1	279A1-853	NQ	19	FEB	91	SM	COAT	FEB	91	S38	GA	000	000	01	6
I P R J PLACER DOME INC.										PROPERTY OF PROJECT or SUB-PROJECT NAME														
MT HILLIGAN										TAILINGS SITE C														
TURN'G PT 000-Collar	FROM	TO	MT or	TOTAL DEPTH/LENGTH	AZM	CLOCKW'S FR. TRUE N	V-ANG.	NEG. IF DOWN	NORTHING	NEG. IF SOUTH	EASTING	NEG. IF WEST	ELEVATION	NEG. IF SUB-SEA										
S	0	0	0	000	7285	MT	75.29	000.00	-90.00															
RECOVERY T-MOD % MIX ROCK TM 1 TM 2 QM 1 TX 1 TX 2 F GRAIN CC % MXP Ri B1 STRUC ID STRIKE AZM DIP TO RT OR PLUNGE															TO DEFINE HOW AND AMOUNT FIELDS OF ALTERATION AND MINERAL SUITES									
7 N A M															HSRIG:C:PICIBOHEG:LT									
L N A M															K HQZC3ABP2 C2 MG- CUM:									
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80															FILL IN COLUMN HEADINGS USED if desired									
UNIT OF LENGTH															UNIT OF RECOVERY									
H T . 2															P C . 0									
L S C L															L C T M or									
P C . 0															L B H u									

TURN'G PT 000-Collar	FROM	TO	TOTAL DEPTH/LENGTH	AZM	CLOCKW'S FR. TRUE N	V-ANG.	NEG. IF DOWN	FILL OUT IF REQUIRED																																																																							
S	0	0	1	7285	7529	75.29	262.00	-89.50	CROSS OUT IF NOT REQUIRED																																																																						
S	0	0	2																																																																												
S	0	0	3																																																																												
S	0	0	4																																																																												
S	0	0	5																																																																												
S	0	0	6																																																																												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

A	0	0	1	Assay File No. (Typically 1.)																
A	U	M	M	ASSAY FIELD NAMES SEE NOTE 2																
A	L	A	B																	
A	T	Y	P																	
A	M	T	H																	
ASSAY FILE DESCRIPTION CARDS ARE OPTIONAL CROSS OUT IF NOT REQUIRED OR REPLACED BY REMARKS																				
SAMPLE ASSAY RECORDS																				
FROM	TO	RECOVERY	55-Sample Serial No.																	
A	0	0	4	HA&S US																
A	0	0	0																	
A	0	0	0																	
Assay File Definition Number, Typically A001.																				

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GRAPHIC LOG

IDEN	680201	UNIQUE ID OF PROJECT	279	DRILL HOLE/TRVERSE	91-853	SIZE OF CORE	LOGGED	BY	DRILLER(S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID	AZIMUTH	PAGE	OF
DRILL COORD SYSTEM UNITS			M/F	TOTAL DEPTH/LENGTH		AZM	V ANG		NORTHING				EASTING			ELEVATION			
S																			

HORIZON FLAG	FROM	TO
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16		

PLACER DOME INC.
DRILL LOG FORM 4

MBG - JULY 90

RECOV	T-MO	M/MX	ROCK	VEINS	DEFINED MINERAL FIELDS	OPEN FIELDS																																																								
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
MS BI E: C: P I C I B O H E G: L I X Y Y																																																														
RQD		C S		FRACTURES		S I W L I 1 1 1 1 1		K F Q 2		C B A B P 2		C 2 M G		C U M:		X X Y Y																																														

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	19	20	21	22	23	24	25	26				
A00																RECOV SAMPLE No.												
D						6600						6140						6 SCHS										
INCREASE IN SIZE AND NUMBER OF THE QZ AUGEN - FUCHSITE SCHIST INTERVALS. THESE INTERVALS ARE NOT VEINS BUT COMPOSITIONALLY DIFFERENT BANDS WITHIN THE BI-SCHIST UNIT. QZ SCHIST INTERVALS ARE CHARACTERIZED BY 80% GREEN-WHITE QZ SPOTS OR AUGENS WITH 2-5% PALE GREEN FUCHSITE WITHIN THE QZ WITH OCCASIONAL MU-BI LAMINAE. THE QZ SPOTS ARE SURROUNDED BY MED. GREY CHERY QZ.																												
N						4600						6140						40 SCH								FV		
QZ SCHIST LAYERS AT: 46.2-46.5m, 47.7-47.6m, 48.05-48.20m, 48.7-49.8m, 50.05-50.20m, 51.2-51.4m, 51.85-52.90m, 53.05-55.00m, 55.4-56.00m, 56.55-57.35m, 58.90-59.10m, 60.4-60.9m, 61.35-61.93m, 62.05-62.60m																												
A004						6300						5300						0.0										
A004						5300						6140						0.0										
R						5680						5700						PY OCCURS AS THIN SQUARE FRACTURE COATINGS ON A FRACTURE SUBPARALLEL T.C.A. WITHIN A QZ-FUCHSITE BAND.										
P						6140						7529						90 SCH								OL 3		
QUARTZ MUSCOVITE FUCHSITE GARNET SCHIST. INCREASE IN QZ SCHIST COMPOSITION: 50-70% AUGEN AND LAMINAE QZ, 20-40% MUSCOVITE AS LAMINAE, 5-10% SERICITE/FUCHSITE ASSOCIATED WITH THE QZ, 1-2% 1-5mm DE PINK-RED GARNET (AGANDINE?) PORPHYROBLAST.																												
4114 L6																											FUGN	
LID																												



PLACER DOME INC.

GEOLOG DRILLHOLE HEADER FORM

KEY	FLAG	FORMAT	SPEC	UNIQUE ID OF PROJECT OR SUB-PROJECT	DRILL HOLE / TRAVERSE PRE-FIX TYPE NUMBER	SIZE OF CORE OF HOLE	GEOLOGGED MONTH	BY	ASST'D BY	D R I L L E D DRILLER(S)	MONTH	YR.	RIG TYPE	DRILLING TIME-HRS	SURVEYED BY	CO-ORD SYSTEM	GRID AZIMUTH	PAGE	OF					
I	D	E	N	6	B	0	2	0	1	27991-854	NO	20	FEB	91	SMP	COAT	FEB	91	S38	GRD	000	00	0	1
I P R J PLACER DOME INC.										HT MILLIGAN - TAILING SITE C														
TURN'G PT. 000-Cellar	FROM	TO	MT or	TOTAL DEPTH/LENGTH	AZM	CLOCKW'S FR. TRUE N.	V-ANG.	NEG. IF DOWN	NORTHING	NEG. IF SOUTH	EASTING	NEG. IF WEST	ELEVATION	NEG. IF SUB-SEA										
S 0 0 0	000	7284	MT	76.26	000	00	00	-90	00															
RECOVERY										TO DEFINE HOW AND AMOUNT FIELDS OF														
I N A M										ALTERATION AND MINERAL SUITES														
L N A M										OPEN FIELD														
R O D										F I L L I N C O L U M N H E A D I N G S U S E D														
L S C L										if desired														
L S C L										UNIT OF UNIT OF														
L S C L										LENGTH RECOVERY														
L S C L										UNIT OF UNIT OF														
L S C L										ROD LB Hw														

TURN'G PT. 000-Cellar	FROM	TO	TOTAL DEPTH/LENGTH	AZM	CLOCKW'S FR. TRUE N.	V-ANG.	NEG. IF DOWN	
S 0 0 1	7284	7626	76.26	000	00	00	-88	00
S 0 0 2								
S 0 0 3								
S 0 0 4								
S 0 0 5								
S 0 0 6								

A 0 0 1	Assay File No. (Typically 1.)										ASSAY FIELD NAMES SEE NOTE 2:									
A U M M																				
A L A B																				
A T Y P																				
A M T H																				

FROM	TO	RECOVERY	SS=Sample Serial No.
A 0 0 4			MAGSUS
A 0 0			
A 0 0			
A 0 0			

- Notes:
- Do not change /NAM, /LNAME, /SCL, /LSCL, or AUMM card definitions during a project. Blanks may be changed however.
 - On AUMM card, right adjust names so that R.H. 4 letters make sense. They will be "stats" header names.
 - Units of distance on 5000 card are for survey coordinates, those on /SCL card are for downhole distances.
 - To define XX type field put XX in upper tier, lower tier then becomes corresponding How and amount field.
 - If additional "S" or "A" cards are required use another header form and cross out unwanted portions or enter "S" or "A" cards on keypunched portion on form 2.

GRAPHIC LOG

IDEN	680201	UNIQUE ID OF PROJECT	279	DRILL HOLE/TRaverse	91-254	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID	AZIMUTH	PAGE	OF
		DRILL COORD SYSTEM UNITS	M/F	TOTAL DEPTH/LENGTH	AZM	V	ANG			NORTHING		EASTING		ELEVATION				4	

PLACER DOME INC.
DRILL LOG FORM 4

MBG - JULY 80

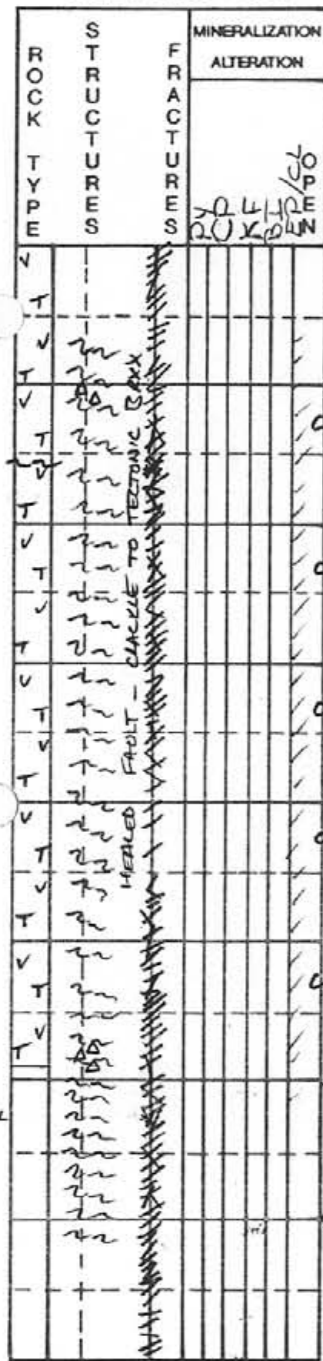
RECOV	T-MOD	MA	ROCK	VEINS	DEFINED MINERAL FIELDS	OPEN FIELDS																															
18	19	20	21	22	23	24	25	26	27	43	44	45	46	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

HORIZON FLAG	FROM	TO													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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DESCRIPTIVE REMARKS

18	19	20	21	22	23	24	25	26
----	----	----	----	----	----	----	----	----



ADD																																							
N							39100							4980																									

HEALED FAULT. FAULT CONSISTS OF WEAK CRACKLE BRXX'N TO INTERVAL OF STRONG TECTONIC BRXX'N, ESPECIALLY 49.50-49.80. ABOVE THE CONTACT. CHLORITIC ALTERATION OF PYROXENES IS INCREASED, ESPECIALLY IN TECTONIC BRXX ZONES. WITHIN THIS INTERVAL LPTX COMPOSITION CHANGES GRADUALLY FROM 50% PX 20% PLAG TO 60% PLAG 15% PX BY 46.00. THIS INTERVAL IS NOT MAGNETIC - DESTROYED BY FLUIDS FLOWING THROUGH THE FAULT? CHLORITE FORMS THE MATRIX FOR CRACKLE BRXX'N INTERVALS, AND CONSOLIDATED CHLORITIC TUFF "FLOUR" FORMS MATRIX OF TECTONIC BRXX. FRAGMENTS OF THE UNIT BELOW OCCUR WITHIN THE CONTACT BRXX BETWEEN 49.70-49.80.

WACK

LITHE WACKE. MED. TO DK GREY FINE-GRAINED TO MED. GRAINED WITH OCCASIONAL COARSE GRAINED INTERVALS. COMPOSITION: 65% LITHIC FRAGMENTS, 20% FELDSPAR GRAINS WITH A CALCITIC MATRIX (10-15%). CHANGES IN GRAIN SIZE ARE QUITE ABRUPT AND SHARP. SMALL INTERBEDS (1-5cm) OF ARGILLAGEOUS MUDSTONE ARE BLACK, APHANTIC AND WEAKLY CALCAREOUS (~5% CALCITE). BEDDING FEATURES (CHANGE IN GRAIN SIZE, MUDSTONE INTERBEDS) ARE CONSISTENT AT 20° T.C.A. SLUMPING OF COARSER SANDY MATERIAL INTO MUDDY INTERBEDS SUGGEST THAT "TOPS" ARE UP IN THIS UNIT. FINE WHITE CALCITE STRINGERS OCCUR - 5-15 PER METRE AND GENERALLY AT 50-70° T.C.A. TRACE PY OCCURS AS CL-IN BLESS ASSOCIATED WITH CALCITE STRINGERS.

GRAPHIC LOG

UNIQUE ID OF PROJECT	DRILL HOLE/TRVERSE	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID	AZIMUTH	PAGE	OF
IDEN 680201	27991-854													5	
DRILL COORD SYSTEM UNITS	M/F	TOTAL DEPTH/LENGTH	AZM	V ANG	NORTHING	EASTING	ELEVATION								
S	T														

HORIZON FLAG	FROM	TO
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		
1		
ZONE FLAG		
L		

PLACER DOME INC. DRILL LOG FORM 4

MBG - JULY 90

RECOV	T-MOD	% MUCK	ROCK	VEINS	DEFINED MINERAL FIELDS													OPEN FIELDS		
18 19 20	21 22 23	24 25 26 27	28 29 30 31	32 33 34	MSBIE: C: P I C I B O H E G : L I X Y Y															
RQD	C S			FRACTURES	K F Q Z C B A B P C M G													CUM: X X Y Y		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	0	0													

DESCRIPTIVE REMARKS

18	19	20	21	22	23	24	25	26
RECOV	SAMPLE No.							

54	N		49.80																	HL8	FALT		
	L																				1334		
	R		HEALED FAULT. AT CONTACT, WACKE IS STRONGLY CRACKLED. INTENSITY DECREASES TO 53.00m. NUMEROUS WHITE CALCITE STRINGERS FORM THE MATRIX IN THE CRACKLED ZONE AND DECREASE DOWN HOLE.																				
56	R		THIS IS PART OF THE ABOVE FAULT. FAULTED CONTACT BETWEEN LPXT AND WACKE.																				
	R																						
	R																						
60	D		53.00																		FGX	WACK	
	L																					2123	
	R		FINE-GRAINED (0.125 - 0.25mm) LITHIC WACKE.																				
62	A004		53.00																			0.0	
	D		57.60																			CGX	WACK
	L																					2112	
64	R		MED. TO COARSE-GRAINED (0.25 - 1mm) LITHIC WACKE																				
	A004		57.60																			0.0	
	D		59.20																			FGX	WACK
66	L																					2123	
	A004		59.20																			0.0	
	D		63.90																			MGX	WACK
68	L																					2123	
	R		63.90																				
	R		MED-GRAINED (0.25 - 0.5mm) LITHIC WACKE. ARGILLACEOUS MUDSTONE INTERBEDS FORM 10% OF THIS INTERVAL. SLUMPING OF WACKE INTO MUDSTONE OCCURS AT MOST WACKE-MUDSTONE UPPER CONTACTS.																				
70	R																						
	A004		63.90																			0.0	

WACK

28°

KEY FLAG	FORMAT VERSION	SPEC	UNIQUE ID OF PROJECT OR SUB-PROJECT	DRILL HOLE / TRAVERSE PREFIX | TYPE | NUMBER	SIZE OF CORE OR HOLE	GEOLOGGED BY	ASST'D BY	DRILLED BY	DRILL DATE	RIG TYPE	DRILLING TIME - HRS.	SURVEYED BY	CO-ORD SYSTEM	GRID AZIMUTH	PAGE	OF
I D E N	6 B 0 2 0 1		279911-856	NQ	22 FEB 91 CAP			C O A T F E B R I C 3 8					GAD000-00		0 1	

DRILLHOLE: I P R J PLACER DOME INC. COMPANY NAME: PLACER DOME INC. PROPERTY or PROJECT or SUB-PROJECT NAME: MT HILLIGAN - TAILINGS SITE C

HEADER: TURN'G PT. 000 Cellar FROM 000 TO 7285 MT. TOTAL DEPTH/LENGTH 75.29 AZM 000.00 V-ANG. 00-90.00

CARDS: / N A M RECOVERY T-MOD % MIX ROCK TM1 TM2 QM1 TX1 TX2 F GRAIN % CC % MXP R1 B1 STRUC ID STRIKE AZM DIPTO RT OR PLUNGE ALTERATION AND MINERAL SUITES OPEN FIELD

MSRIE: C: P I C I B O HEG: LI

FILL OUT: L N A M R Q D AGE FORM'N ENVIR LC TM 3 COLOUR QM 2 TX 3 TX 4 S R N S N O % FRACTURES SIM L Inf R1 B2 STRUC ID AZM DIP TORT

K F O Z C B A B P 2 C 2 H G C U M I

ONCE: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

PER HOLE: / S C L UNIT OF LENGTH MT. 2 RECOVERY UNIT OF PC. 0

L S C L UNIT OF LENGTH PC. 0

EXTRA DOWNHOLE SURVEY CARDS: TURN'G PT. 000 Cellar FROM TO TOTAL DEPTH/LENGTH AZM CLOCKWISE FR TRUE N V-ANG NEG. IF DOWN

S 0 0 1 7285 75.29 000.00 -88.00

S 0 0 2

S 0 0 3

S 0 0 4

S 0 0 5

S 0 0 6

SAMPLE OF ASSAY FILE DEFINITION: A 0 0 1 Assay File No. (Typically 1.) ASSAY FIELD NAMES SEE NOTE 2

A U M M

A L A B

A T Y P

A M T H

CROSS OUT IF NOT REQ'D. ASSAY FILE DESCRIPTION CARDS ARE OPTIONAL CROSS OUT IF NOT REQUIRED OR REPLACED BY REMARKS

OUT IF NOT REQ'D. SAMPLE ASSAY RECORDS: FROM TO RECOVERY % Sample Serial No.

A 0 0 4 MAGSUS

- Notes:
- Do not change /NAM, LNAM, /SCL, LSCL, or AUMM card definitions durin a project. Blanks may be changed however.
 - On AUMM card, right adjust names so that R.H. 4 letters make sense. They will be "stats" header names.
 - Units of distance on S000 card are for survey coordinates, those on /SCL card are for downhole distances.
 - To define XX type field put XX in upper tier, lower tier then becomes corresponding How and amount field.
 - If additional "S" or "A" cards are required use another header form and cross out unwanted portions or enter "S" or "A" cards on keypunched portion on Form 2.

GRAPHIC LOG

IDEN	6	B	0	2	0	1	UNIQUE ID OF PROJECT	279	9	1	8	5	6	DRILL HOLE/TRaverse	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS SURVEYED	SYSTEM	GRID	AZIMUTH	PAGE	OF
DRILL COORD SYSTEM UNITS							M/F	TOTAL DEPTH/LENGTH AZM						V ANG			NORTHING			EASTING			ELEVATION				
S																											

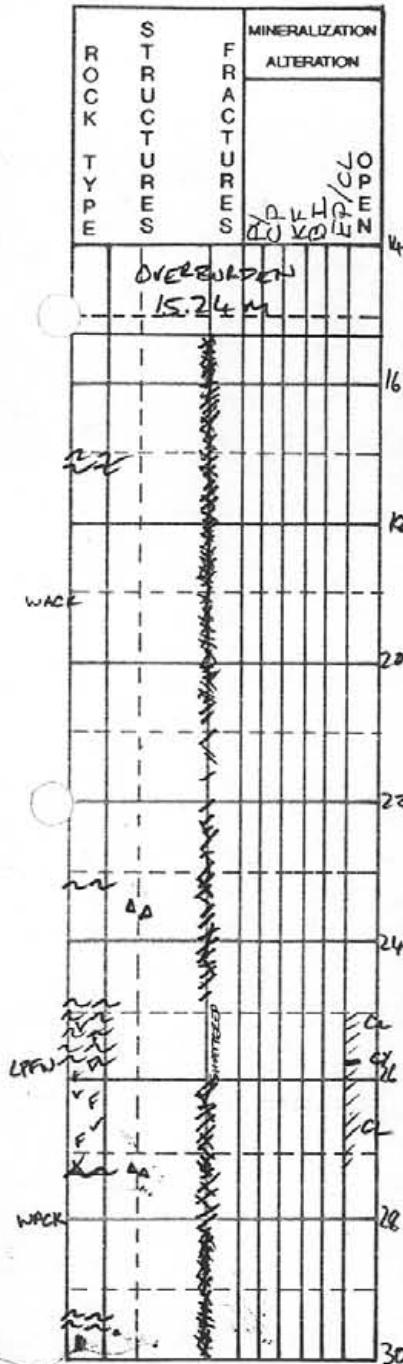
PLACER DOME INC.
DRILL LOG FORM 4

MBG - JULY 90

HORIZON FLAG	FROM	TO													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
/															
ZONE FLAG															
L															

RECOV	T-MOD	% MAX	ROCK	VEINS	DEFINED MINERAL FIELDS															OPEN FIELDS																	
18	19	20	21	22	23	24	25	26	27	43	44	45	46	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
RQD	C	S												FRACTURES	MSBIE: C: P I C I B O H E G: L I X X Y Y																						
L																																					

DESCRIPTIVE REMARKS																RECOV SAMPLE No.												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	19	20	21	22	23	24	25	26				
A	0	0														RECOV	SAMPLE No.											
R	SITE FC-3																											
R	CASE																											
R					0.00										1524													
R					0.00										122	SOIL.												
R					1.22										427	GRAVEL.												
R					4.27										731	GRAVEL AND SMALL BOULDERS.												
R					7.31										1524	CLAY AND SMALL BOULDERS.												
R	WACK																											
P					1524										7529	WACK <K>												
R	LITHIC WACK. MED. GREY FINE- TO COARSE-GRAINED SANDSTONE. COMPOSITION: 60% LITHIC GRAINS, 25% FELDSPAR GRAINS IN A CALCITE-RICH MATRIX. SIMILAR TO LITHIC WACK IN HOLE 91-856 - SAME UNIT. OCCASIONAL BLACK, ARPHANTIC 1-10 CM WEAKLY CALCAREOUS (<5% CALCITE) ARGILLACEOUS MUDSTONE INTERBEDS CUT AT 20-30° T.C.A. WHITE CALCITE STRINGERS ARE COMMON ESPECIALLY IN FAULTED ZONES; 5-20 PER METRE (UP TO 50 PER METRE NEAR FAULTS) TRACE PY OCCURS IN CALCITE STRINGERS AS SMALL BLSRS.																											
D					1524										2490	MGX WACK <+ CY G)												
R	CORE IS VERY BLOCKY. SMALL RUBBLY FAULT 17.0-17.4m.																											
R					2347										2490	TECTONICALLY REYD WACK IS HEALED WITH CALCITE STRINGERS AND WITH GROUND UP WACK MATERIAL. INTERVAL IS BOUNDED BY RUBBLY-GOUKY FAULTS.												
R	A004 1524 2490 0.0																											
N					2490										2740	XLPFW < CYCL G)P)												
R	PYROXENE LATHE PORPHYRY Flow. MED. GREEN-GREY. 20-30% 1-3m CHLORITIZED SUR- TO EUMERAL AUGITE FRIENDS IN A FINE-GRAINED KSPAR-PLAG GROUNDMASS UNIT & FAULT																											



GRAPHIC LOG

UNIQUE ID OF PROJECT		DRILL HOLE/TRaverse	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID	AZIMUTH	PAGE	OF
IDEN 6 B 0 2 0 1		27991 - 8156													3	
DRILL COORD SYSTEM UNITS			M/F	TOTAL DEPTH/LENGTH	AZM	V ANG		NORTHING			EASTING			ELEVATION		
S			T	.	.	.		.			.			.

PLACER DOME INC. DRILL LOG FORM 4

MBG - JULY 80

HORIZON FLAG	FROM					TO										
1 2 3 4	5 6 7 8 9	10 11 12 13 14 15 16														
/																
L																

RECOV	T-MOD	M% Wt	ROCK	VEINS S M L Tot	DEFINED MINERAL FIELDS										OPEN FIELDS
18 19 20	21 22 23	24 25 26 27	43 44 45 46	57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80	M S B I E : C : P I C I B O H E G : L I X X Y Y										
RQD	C S			FRAC TURES S M L Tot	K F Q Z C B A B P R C A M G										C U M : X X Y Y

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----

DESCRIPTIVE REMARKS

18	19	20	21	22	23	24	25	26
RECOV	SAMPLE No.							

ROCK TYPE

STRUCTURES

FRACTURES

MINERALIZATION ALTERATION

CY

KH

EP/LC

NEPO

WACK

5" ALL INTERIOR

26°

3" ALL INTERIOR

28°

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	19	20	21	22	23	24	25	26	
A	0	0														REMARKS									
R																BOUNDED.									
R																FAULT CONSIST OF PEBBLE SIZE LFW RUBBLE WITH 20% CLAY GOUGE. NO SLICKENSIDES.									
R																A 15 cm ZONE OF BAXX'D LFW (TECTONIC) HEALED WITH CONSOLIDATED GOUGE MATERIAL IS FOLLOWED BY A 5 cm RUBBY FAULT ZONE.									
A	0	0	4													0.1									
D																NGXWACK <K> CY (G)									
L																3436									
R																MED - GRAINED LITHIC WACK.									
R																NUMEROUS < 30cm FAULT ZONES CONSIST OF PEBBLE SIZE WACKE RUBBLE WITH 10-30% CLAY GOUGE. NO SLICKENSIDES APPEAR TO BE ASSOCIATED WITH FAULTS.									
R																TECTONIC BXX HEALED BY CONSOLIDATED GOUGE MATERIAL.									
R																A 10 cm FAULT ZONE IS ENVELOPED BY CALCITE HEALED CRACKLE BAXX'D WACK.									
A	0	0	6													0.0									

GRAPHIC LOG

IDEN	680201	UNIQUE ID OF PROJECT	27991-856	DRILL HOLE/TRVERSE	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID	AZIMUTH	PAGE	OF
S		DRILL COORD SYSTEM UNITS	M/F	TOTAL DEPTH/LENGTH	AZM	V ANG			NORTHING	EASTING	ELEVATION						4	

PLACER DOME INC.
DRILL LOG FORM 4

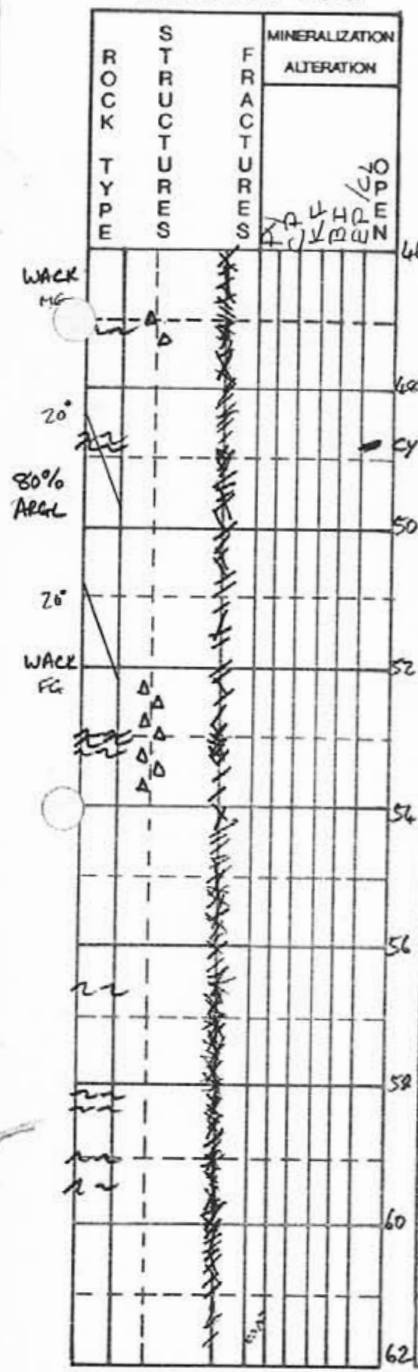
MBG - JULY 80

RECOV	T-MOD	W/M	ROCK	VEINS	DEFINED MINERAL FIELDS	OPEN FIELDS
18-19-20	21-22-23	24-25-26-27	43-44-45-46	57-58-59-60	61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76	77-78-79-80
RQD	CS			FRACTURES	MSBIE: C: P: C: B: O: H: E: G: L: X: Y: Y	
					K: F: R: 2: C: B: A: B: P: 2: C: 2: M: G: CUM: X: X: Y: Y	

HORIZON	FROM	TO
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	0	0													

DESCRIPTIVE REMARKS		RECOV	SAMPLE No.
N	4900 5160	8 MUDS	<
L		2436	
R	ARGILLACEOUS MUDSTONE. 80% OF THIS INTERVAL CONSISTS OF BLACK ARGILLACEOUS NON-CALCAREOUS MUDSTONE WITH 20% LITHIC WACKE INTERBEDS. BEDDING ANGLE IS 20° T.C.A. NUCLEAR MICROFAULTS OFFSET THE BEDDING BY 0.2-1cm. MICROFAULTS ARE APPROXIMATELY PERPENDICULAR TO BEDDING AND OFFSET IS SINISTRAL IN SENSE.		
R			
R			
A004	4900 5160	0.0	
D	5160 5420	BXXWACK	<
L		2335	
R	WACKE IS BRXX'D SURROUNDING A RUBBY FAULT ZONE (53.20 - 53.60m). TRYX INCREASES FROM CRACKLING AWAY FROM THE FAULT TO MATRIX SUPPORTED TECTONIC BRXX ADJACENT TO THE FAULT. MATRIX CONSIST OF CONSOLIDATED GOUGE MATERIAL. WATER RETURN WAS LOST IN THIS FAULT.		
R			
R			
A004	5160 5420	0.0	
D	5420 6685	FGXWACK	<*
L		4649	L
R	FINE-GRAINED LITHIC WACKE. VERY BLOCKY CORE. LOCALLY CRACKLED AROUND SMALL FAULTS.		
R			
R	6160 6165		
R	A SMALL INTERBED OF ARGILLACEOUS MUDSTONE HAS A 1cm BAND OF 5% DISSEMINATED VERY FINE GRAINED PY. PY IS PROBABLY DIAGENETIC - REDUCING ENVIRONMENT OF DEPOSITION.		



KEY	FLAG	FORMAT VERSION	SPEC	UNIQUE ID OF PROJECT OR SUB-PROJECT	DRILL HOLE / TRAVERSE PRE-FIX TYPE NUMBER	SIZE OF CORE OR HOLE	GEOLOGGED MONTH	BY	ASST'D BY	DRILLED DRILLER(S)	MONTH	YR.	RIG TYPE	DRILLING TIME-HRS	SURVEYED BY	CO-ORD SYSTEM	GRID AZIMUTH	PAGE	OF
I	D	E	N	6	B	0	2	0	1	23991-857	NO	23	FEB	1985	SNP	COATHEB91S38	GPD000.00	0	1
I P R J				PLACER DOME INC.										MT HILLIGAN - TAILINGS SITE K					
TURN'G PT 000-Collar		FROM	TO	MT. OF	TOTAL DEPTH/LENGTH	AZM	CLOCKW'S FR. TRUE N	V-ANG.	NEG. IF DOWN	NORTHING	NEG. IF SOUTH	EASTING	NEG. IF WEST	ELEVATION	NEG. IF SUB-SEA				
S		0	0	0	7285	MT	75.29	000.00	-90.00										
/ N A M												See Note 4 TO DEFINE HOW AND AMOUNT FIELDS OF							
L N A M												ALTERATION AND MINERAL SUITES							
I S C L												HSRIE2:PICIBDHEG:LT							
L S C L												KFA2CBABP2C2HG CUMI							
I S C L												FILL IN COLUMN HEADINGS USED if desired							
L S C L																			
A O O 1												Assay File No. (Typically 1.)							
A U M M												ASSAY FIELD NAMES SEE NOTE 2							
A L A B																			
A T Y P																			
A M T H																			
A O O 4												Sample Assay Records							
A O O												RECOVERY 55-Sample Serial No. MAGSUS							
A O O																			
A O O																			

Notes:

- Do not change /NAM, LNAM, /SCL, LSCL, or AUMM card definitions during a project. Blanks may be changed however.
- On AUMM card, right adjust names so that R.H. 4 letters make sense. They will be "stat" header names.
- Units of distance on S000 card are for survey coordinates, those on /SCL card are for downhole distances.
- To define XX type field put XX in upper tier, lower tier then becomes corresponding How and amount field.

- If additional "S" or "A" cards are required use another header form and cross out unwanted portions or enter "S" or "A" cards on keypunched portion on Form 2.

GRAPHIC LOG

IDEN	6	B	0	2	0	1	UNIQUE ID OF PROJECT	279911-857	DRILL HOLE/TRVERSE	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID	AZIMUTH	PAGE	OF
DRILL COORD SYSTEM UNITS →							M/F	TOTAL DEPTH/LENGTH	AZM	V ANG	NORTHING				EASTING				ELEVATION				

PLACER DOME INC.
DRILL LOG FORM 4

MBG - JULY 80

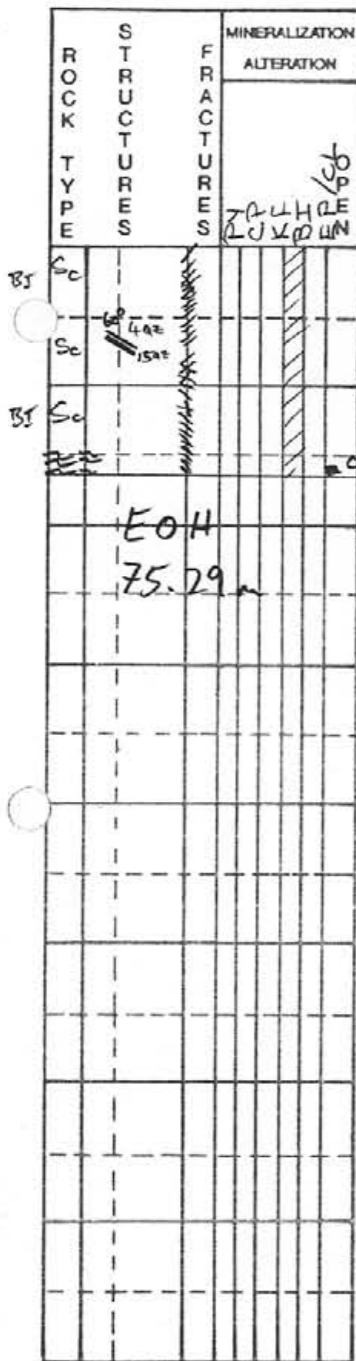
HORIZON FLAG	FROM	TO
1 2 3 4	5 6 7 8 9 10 11 12 13 14 15 16	
ZONE FLAG		

RECOV	1-40%	41-60%	61-80%	ROCK	VEINS	DEFINED MINERAL FIELDS														OPEN FIELDS					
18 19 20	21 22 23	24 25 26 27	28 29 30	31 32 33 34	35 36 37 38	39 40 41 42 43 44 45 46	47 48 49 50	51 52 53 54 55 56 57 58 59 60	61 62 63 64 65 66 67 68 69 70	71 72 73 74 75 76 77 78 79 80	MSBI E: C: P: I: C: B: O: H: E: G: L: X: Y: Y														
ROD CS					FRACTURES		KF Q2 CBABP2 C2 MG														CUM: X X Y Y				

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	0	0													

DESCRIPTIVE REMARKS

18	19	20	21	22	23	24	25	26
RECOV	SAMPLE No.							



18	19	20	21	22	23	24	25	26
D	69	25	75	29				
L								
R	OCCASIONAL DULL GREY-WHITE QZ VEINS 1-2cm ARE CONCORDANT WITH SCHISTOSITY. OCCASIONAL							
R	WHITE 2-4cm CALCITE VEINS CUT SCHISTOSITY AND QZ VEINS. TRACE BLENDS OF							
R	PY ARE ASSOCIATED WITH THE CALCITE VEINING.							
R	73	22	72	40	A 15cm TRANSLUCENT GREY-WHITE "BULL" QUARTZ VEIN CONCORDANT WITH SCHISTOSITY (60°TGA)			
L	CONTAINS NO VISIBLE MINERALIZATION.							
R	74	80	75	29	FAULT CONSIST OF 70% GROUND UP SCHIST CLASTS (SAND TO SMALL PEBBLE SIZE) AND 30%			
R	CLAY GROUT.							
A004	69	25	71	60				
A004	71	60	72	24				
A004	72	24	75	29				
R	75	29	75	29	END OF HOLE			

KEY	FLAG	FORMAT VERSION	SPEC	UNIQUE ID OF PROJECT OR SUB-PROJECT	DRILL HOLE / TRAVERSE PRE-FIX TYPE NUMBER	SIZE OF CORE OR HOLE	GEOLOGGED (MONTH)	BY	ASST'D BY	D R I L L E D DRILLER(S)	MONTH	YR	RIG TYPE	DRILLING TIME-HRS	SURVEYED BY	CO-ORD SYSTEM	GRID AZIMUTH	PAGE	OF												
	I D E N	6 B 0 2 0 1		2 7 9	9 1 - 8 5 8	N 9	2 5 F E B	R I R K M			C O A T								0 1	6											
DRILLHOLE	COMPANY NAME					PROPERTY or PROJECT or SUB-PROJECT NAME																									
	I P R J	P L A C E R D O M E I N C					M T M I L L I G A N																								
HEADER	TURN'G PT. 000' Collar	FROM	TO	MT or	TOTAL DEPTH/LENGTH	A Z M	CLOCKWISE FR. TRUE N.	V-ANG.	NEG. IF DOWN	NORTHING		NEG. IF SOUTH	EASTING		NEG. IF WEST	ELEVATION		NEG. IF SUB-SEA													
	S 0 0 0	0 0 0	6 8 5 8	M	7 6 . 2 0	- -	- - -	- 9 0 . 0 0																							
CARDS	RECOVERY					T-MOD	% MIN	ROCK	TM 1	TM 2	QM 1	TX 1	TX 2	F	GRAIN C. % MXP	R 1	BI	STRUC ID	STRIKE AZM	DIP TO RT OR PLUNGE	TO DEFINE HOW AND AMOUNT FIELDS OF ALTERATION AND MINERAL SUITES										OPEN FIELD
	/ N A M																														
FILL OUT ONCE PER HOLE	R O D					AGE FORM-N	ENVR	LC COLOUR	TM 3	QM 2	TX 3	TX 4	S R	N S	O C	FRACTURES SIMIL	R 1	STRUC ID	A Z M	DIP TORT	OPEN FIELD										
	L N A M																														
PER HOLE	FILL IN COLUMN HEADINGS USED if desired																														
	I S C L	UNIT OF LENGTH	UNIT OF RECOVERY																												
L S C L	UNIT OF R Q D	UNIT OF LB H ₀																													
EXTRA DOWNHOLE SURVEY CARDS CROSS OUT IF NOT REQ'D.	FILL OUT IF REQUIRED					CROSS OUT IF NOT REQUIRED																									
	TURN'G PT. 000' Collar	FROM	TO	TOTAL DEPTH/LENGTH	A Z M	CLOCKWISE FR. TRUE N.	V-ANG.	NEG. IF DOWN																							
S 0 0 1	6 8 5 8	7 6 2 0	7 6 . 2 0	- -	- - -	- 8 6 . 0 0																									
S 0 0 2																															
S 0 0 3																															
S 0 0 4																															
S 0 0 5																															
S 0 0 6																															
EXAMPLE OF ASSAY FILE DEFINITION CROSS OUT IF NOT REQ'D.	FILL OUT IF REQUIRED																														
	A 0 0	ASSAY FILE NO. (Typically 1.)																		ASSAY FIELD NAMES SEE NOTE 2:											
A U M M																															
A L A B																															
A T Y P																															
A M T H																															
SAMPLE ASSAY RECORDS	ASSAY FILE DESCRIPTION CARDS ARE OPTIONAL CROSS OUT IF NOT REQUIRED OR REPLACED BY REMARKS																														
	FROM	TO	RECOVERY	SS=Sample Serial No.																											
A 0 0					A 1															A 2											
A 0 0					A 3															A 4											
A 0 0					A 5															A 6											
A 0 0					A 7															A 8											
Assay File Definition Number, Typically A001.																															

Notes:

1. Do not change /NAM, LNAM, /SCL, /LSCL, or AUMM card definitions durin a project. Blanks may be changed however.
2. On AUMM card, right adjust names so that RH 4 letters make sense. They will be "stat" header names.
3. Units of distance on S00Q card are for survey coordinates, those on /SCL card are for downhole distances.
4. To define XX type field put XX in upper tier, lower tier then becomes corresponding How and amount field.
5. If additional "S" or "A" cards are required use another header form and cross out unwanted portions or enter "S" or "A" cards on keypunched portion on form 2.

GRAPHIC LOG

IDEN	6B0201	UNIQUE ID OF PROJECT	279	DRILL HOLE/TRaverse	91-858	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID	AZIMUTH	PAGE	OF
S		DRILL COORD SYSTEM UNITS	M/F	TOTAL DEPTH/LENGTH	AZM	V ANG	NORTHING	EASTING	ELEVATION									3	6

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION									
			Py	Ch	Sp	St	Pt	Ep	Al	Gr	Il	Hz
			Ep/Ch	Ch/Py	Gr/Al	Al/Ep	Py/Sp	Sp/St	St/Pt	Pt/Ep	Ep/Al	Al/Gr	Gr/Il	Il/Hz

HORIZON FLAG	FROM	TO													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
ZONE FLAG															
L															

PLACER DOME INC.
DRILL LOG FORM 4

MBG - JULY 90

RECOV	T-MOD	W-MOD	ROCK	VEINS		DEFINED MINERAL FIELDS										OPEN FIELDS																					
18	19	20	21	22	23	24	25	26	27	43	44	45	46	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
														MS	BI	E	C	P	CI	BO	HE	G	L	X	Y												
RQD	CS			FRACTURES		KFQZCBABPaC2MG										CUM: X X Y Y																					

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	0	0													

DESCRIPTIVE REMARKS

18	19	20	21	22	23	24	25	26
RECOV	SAMPLE No.							

36	N	39.04	41.53	DESCRIPTIVE REMARKS	000	L	L	L
38	R	Qtz Schist - white w/ white intergrowths			121	L	L	L
40	SC							
42	SC							
44	SC							
46	N	47.74	48.74			L	L	L
48	R	Qtz Schist						
50	SC							
52	SC							

GRAPHIC LOG

IDEN	6	B0	201	UNIQUE ID OF PROJECT	DRILL HOLE/TRaverse	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID	AZIMUTH	PAGE	OF			
				279	91-858																4	6
				DRILL COORD SYSTEM UNITS →			M/F	TOTAL DEPTH/LENGTH AZM	V ANG	NORTHING	EASTING	ELEVATION										
S				T																		

PLACER DOME INC.
DRILL LOG FORM 4

MBG - JULY 90

HORIZON FLAG	FROM								TO																						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
/																															
ZONE FLAG																															
L																															

RECOV	T-AND-M	ROCK	VEINS	DEFINED MINERAL FIELDS														OPEN FIELDS																			
18	19	20	21	22	23	24	25	26	27	43	44	45	46	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
RQD	C	S																																			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	0	0													

DESCRIPTIVE REMARKS

18	19	20	21	22	23	24	25	26

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION					52
			APL	KAL	BL	EP/CL	NMPO	
SC	|	|						
SC	|	|						
SC	|	|					54	
SC	|	|						
SC	|	|					56	
SC	|	|						
SC	|	|					58	
SC	|	|						
SC	|	|					60	
SC	|	|						
SC	|	|					62	
SC	|	|						
SC	|	|					64	
SC	|	|						
SC	|	|					66	
SC	|	|						
SC	|	|					68	

D					50	14																																					
L																																											
A004					50	14																																					
R																																											

Biotite-muscovite-feldspar-qtz schist
 similar to before - From 60 on a gradual decrease in qtz and
 increase in biotite probably reflecting changes in protolith
 50% bio, 15% musc, 20% feld, 15% qtz

GRAPHIC LOG

IDEN	680201	UNIQUE ID OF PROJECT	279	DRILL HOLE/TRaverse	91-850	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID	AZIMUTH	PAGE	OF
DRILL COORD SYSTEM UNITS →		M/F	TOTAL DEPTH/LENGTH AZM					V ANG	NORTHING			EASTING			ELEVATION				

HORIZON FLAG	FROM								TO							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
/																
L																

PLACER DOME INC. DRILL LOG FORM 4

MBG - JULY 90

RECOV	T-NO	MUR	ROCK	VEINS				DEFINED MINERAL FIELDS																OPEN FIELDS													
18	19	20	21	22	23	24	25	26	27	43	44	45	46	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
RQD	CS													MSBI E: CS PICIBOHEG: LIXXY																							
														KFOE CBABP2CLMG																CUM: XXY							

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION																																						
			CL	SL	CH	EP/CL	OPEN																																		
SC																																									
SC																																									
SC																																									
SC																																									
SC																																									

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	0	0													

DESCRIPTIVE REMARKS

18	19	20	21	22	23	24	25	26
RECOV	SAMPLE No.							

68	A00																																									
72	N				72.02				72.30																																	
	L																																									
	R																																									
74																																										
76	R																																									

QTZ schist - contacts conformable to schist

- E.O.H. 7620

L=L=L
L9

KEY FLAG	FORMAT VERSION	SPEC	UNIQUE ID OF PROJECT OR SUB-PROJECT	DRILL HOLE / TRAVERSE PRE-FIX TYPE NUMBER	SIZE OF CORE OR HOLE	GEOLOGGED MONTH	ASST'D BY	DRILLED DRILLER (S)	MONTH	YR	RIG TYPE	DRILLING TIME-HRS	SURVEYED BY	CO-ORD SYSTEM	GRID AZIMUTH	PAGE	OF			
I D E N	6 B 0 2 0 1		279911-859		NQ	24 FEB 91	ISM F	COATE	FEB 91	838				GRD	000.00	0	1			
COMPANY NAME: PLACER DOME INC. PROPERTY or PROJECT or SUB-PROJECT NAME: HT HILLIGAN - TAILINGS SITE C																				
TURN'G PT 000-Collar	FROM	TO	MT or	TOTAL DEPTH/LENGTH	AZM	CLOCKW'S FR TRUE N	V-ANG.	NEG. IF DOWN	NORTHING	NEG. IF SOUTH	EASTING	NEG. IF WEST	ELEVATION	NEG. IF SUB-SEA						
0 0 0	000	7285	HT	75.29	302.00	00	-90.00													
Drillhole coordinate system units: <i>See Note 4</i> TO DEFINE HOW AND AMOUNT FIELDS OF <i>Fill out</i>																				
RECOVERY	T-MOD	% MIX	ROCK	TM 1	TM 2	QM 1	TX 1	TX 2	F	GRAIN F	% MXP	R, B1	STRIK ID	STRIKE AZM	DIP TO RT OR PLUNG	ALTERATION AND MINERAL SUITES	OPEN FIELD			
																NSRTE: C.PIC, BOHEG, LI				
R Q D	AGE FORM	N	ENVIR	LC COLOUR	TM 3	QM 2	TX 3	TX 4	S	R	N	S	O	% FRACTURES SIMIL	R1	STRI 2 ID	AZM	DIP TORT	OPEN FIELD	
																			4H02CRAB PZC2 HG CUM!	
FILL IN COLUMN HEADINGS USED if desired																				
ISCL	UNIT OF LENGTH	UNIT OF RECOVERY																		
	MT. 2	PC. 0																		
LSCL	UNIT OF LENGTH	UNIT OF RECOVERY																		
	PC. 0		LCTM or LB Nu																	

TURN'G PT 000-Collar	FROM	TO	TOTAL DEPTH/LENGTH	AZM	CLOCKWISE FR TRUE N	V-ANG.	NEG. IF DOWN																																																																								
5 0 0 1	7285	7529	75.29	302.00	-87.00																																																																										
5 0 0 2																																																																															
5 0 0 3																																																																															
5 0 0 4																																																																															
5 0 0 5																																																																															
5 0 0 6																																																																															
FILL OUT IF REQUIRED CROSS OUT IF NOT REQUIRED																																																																															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

A D O	Assay File No. (Typically 1.)															
A U M M	ASSAY FIELD NAMES SEE NOTE 2															
A L A B																
A T Y P																
A M T H																
ASSAY FILE DESCRIPTION CARDS ARE OPTIONAL CROSS OUT IF NOT REQUIRED OR REPLACED BY REMARKS																

FROM	TO	RECOVERY	SS	SAMPLE ASSAY RECORDS														
A 0 0 4				HTGSUS														
A 0 0																		
A 0 0																		
A 0 0																		
Assay File Definition Number, Typically A001.																		

Notes:

- Do not change /NAM, /NAM, /SCL, /SCL, or AUMM card definitions durin a project. Blanks may be changed howev.
- On AUMM card, right adjust names so that R.H. 4 letters make sense. They will be "stats" header names.
- Units of distance on S000 card are for survey coordinates, those on /SCL card are for downhole distances.
- To define XX type field put XX in upper tier, lower tier then becomes corresponding How and amount field.
- If additional "S" or "A" cards are required use another header form and cross out unwanted portions or enter "S" or "A" cards on keypunched portion on Form 2.

GRAPHIC LOG

UNIQUE ID OF PROJECT	DRILL HOLE/TRaverse	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID	AZIMUTH	PAGE	OF			
IDEN 680201	27991-859													2				
DRILL COORD SYSTEM UNITS →				M/F	TOTAL DEPTH/LENGTH AZM				V ANG	NORTHING			EASTING			ELEVATION		
S				T														

HORIZON FLAG	FROM	TO													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
/															
ZONE FLAG															
L															

PLACER DOME INC.
DRILL LOG FORM 4

MBG - JULY 90

RECOV	T-MOD	VEINS	ROCK	VEINS	DEFINED MINERAL FIELDS												OPEN FIELDS																				
18	19	20	21	22	23	24	25	26	27	43	44	45	46	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
RQD	C	S												MSBI E: C: P/ C/ BOHEG: LIXXY																							
														KFQZCRABP2C2MG CLM: XXY																							

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
A	0	0														

DESCRIPTIVE REMARKS

18	19	20	21	22	23	24	25	26
RECOV	SAMPLE No.							

SITE PC-4.

CASE

000	4288	
000	122	
122	426	
426	1036	
1036	1646	
1646	1951	
1951	2865	
2865	4288	

SOIL.
SOIL AND SMALL BOULDERS.
SAND AND SMALL BOULDERS.
SMALL BOULDERS AND CLAY.
CLAY.
CLAY AND BOULDERS.
HARD CLAY WITH SMALL BOULDERS.

4288	5167	
------	------	--

QSC H

L3

<) LY

2002 L3

()

FELDSPAR QUARTZ MUSCOVITE SCHIST. PALE GREY, STRONGLY MOTTLED. 40% VERY IRREGULAR 0.5 - 8 cm WHITE FELDSPAR CLOTS, 30% GREY QZ INTERSTITIAL TO FELDSPAR (ALSO AS INTERGROWTHS WITHIN THE FELDSPAR CLOTS RESULTING IN A PSEUDO-GRAPHIC TEXTURE), 25% MUSCOVITE SEPARATES BANDS OF FS-QZ AS THIN LAMINAE, 5% PALE BROWN PHLOGOPITE ALSO FORMS THIN LAMINATIONS. A SMALL FAULT CONSISTS OF LIMONITIC CLAY GOUGE.

4815	4820	
5020	5020	

SCHISTOSITY IN MUSCOVITIC INTERVAL IS 80° T.C.A.

4288	5167	
4890	4985	

0.10

BI9SCHS

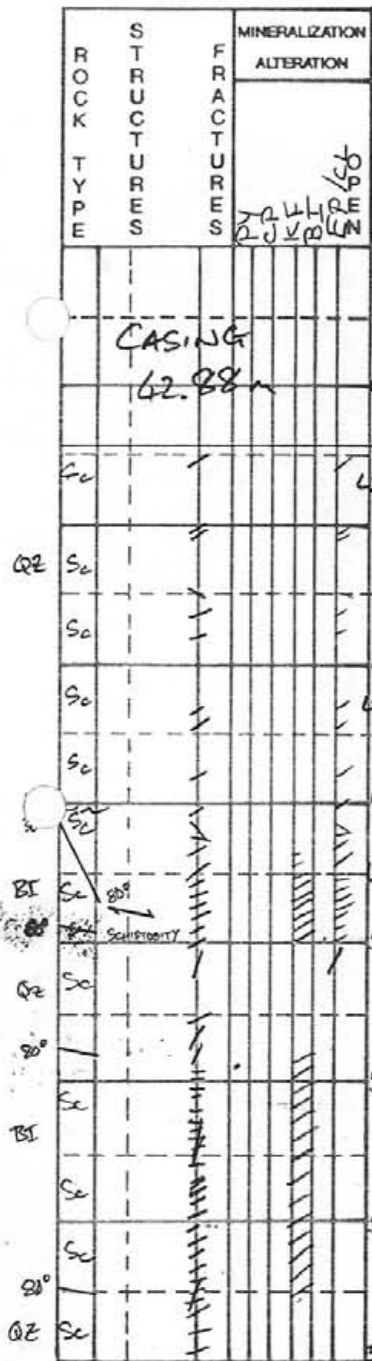
L6

GN

L4

()

BIOTITE QUARTZ GARNET SCHIST. MED-DK BROWN, 60% THIN BIOTITE LAMINAE ARE SEPARATED BY 40% THIN QZ LAMINAE. 1% 1-8 cm RED-BROWN GARNET PORPHYROBLAST DEFLECT SCHISTOSITY AROUND THEMSELVES. SCHISTOSITY IS AT 80° T.C.A. LOWER CONTACT IS CONCORDANT WITH SCHISTOSITY, BUT UPPER CONTACT IS 30° T.C.A.



GRAPHIC LOG

IDEN	680201	UNIQUE ID OF PROJECT	77091-859	DRILL HOLE/TRAVERSE	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID	AZIMUTH	PAGE	OF
S		DRILL COORD SYSTEM UNITS	M/F	TOTAL DEPTH/LENGTH AZM	V ANG	NORTHING	EASTING	ELEVATION									4	

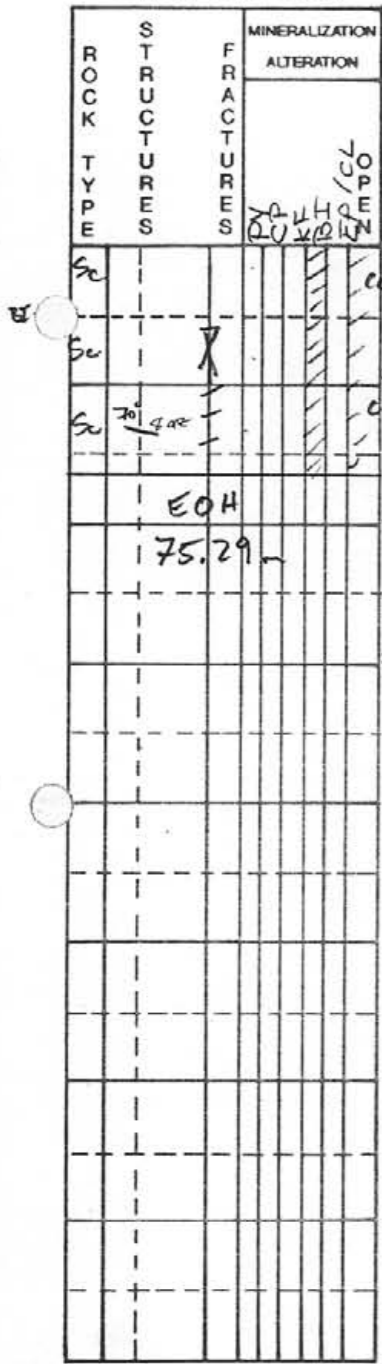
HORIZON FLAG	FROM								TO							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
/																
ZONE FLAG																

PLACER DOME INC.
DRILL LOG FORM 4

MBG - JULY 90

RECOV	T-NOD	1/2 MK	ROCK	VEINS S. IM. L. TOT	DEFINED MINERAL FIELDS													OPEN FIELDS					
					57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
RQD	C	S			MS	BI	E	C	PI	CL	B	O	HE	G	L	X	Y	Y					
					K	F	O	R	C	B	A	B	P	A	C	R	M	G					

DESCRIPTIVE REMARKS																	18	19	20	21	22	23	24	25	26		
																	RECOV	SAMPLE No.									
A00																											
R																											
A004																											
R																											



PLACER DOME INC.

GEOLOG DRILLHOLE HEADER FORM

KEY	FLAG	FORMAT VERSION	SPEC	UNIQUE ID OF PROJECT OR SUB-PROJECT	DRILL HOLE / TRAVERSE PRE-FIX TYPE	NUMBER	SIZE OF CORE OR HOLE	GEOLOGGED BY	ASST'D BY	DRILLED MONTH	YR	RIG TYPE	DRILLING TIME-HRS	SURVEYED BY	CO-ORD SYSTEM	GRID AZIMUTH	PAGE	OF		
I	D	E	N	6	B	0	2	0	1	279	91-860	NQ	27	FEB	91	RKM	CONT	0	1	6
DRILLHOLE COMPANY NAME: <u>PLACER DOME INC</u> PROPERTY or PROJECT or SUB-PROJECT NAME: <u>MT MILLIGAN</u>																				
TURN'G PL. 000 = Collar FROM TO MT or TOTAL DEPTH / LENGTH AZM CLOCKWISE FR. TRUE N. V-ANG. NEG. IF DOWN. NORTHING NEG. IF SOUTH EASTING NEG. IF WEST ELEVATION NEG. IF SUB-SEA																				
S 0 0 0 0 0 0 0 0 7620 76.81 - - - - - 90.00																				
F.T. ← Drillhole coordinate system units. See Note 4 → TO DEFINE HOW AND AMOUNT FIELDS OF YIELD OUT																				
RECOVERY T-MOD % MIX ROCK TM1 TM2 QM1 TX1 TX2 F GRAIN CC % MXP R1 B1 STRUC ID STRIKE AZM DIPTO RT OR PLUNGE ALTERATION AND MINERAL SUITES OPEN FIELD																				
Z N A M																				
R Q D AGE FORM N ENVIR LC TM 3 COLOUR QM 2 TX 3 TX 4 S R N S N C FRACTURES SIM IL Jof R1 B2 STRUC 2 ID AZM DIPTORT OPEN FIELD																				
L N A M																				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80																				
UNIT OF UNIT OF T. 2 LENGTH RECOVERY UNIT OF CTM or LB Hu																				
I S C L																				
L S C L																				
EXTRA DOWNHOLE SURVEY CARDS CROSS OUT IF NOT REQ'D.																				
TURN'G PL. 000 = Collar FROM TO TOTAL DEPTH / LENGTH AZM CLOCKWISE FR. TRUE N. V-ANG. NEG. IF DOWN.																				
S 0 0 1 7620 7681 76.81 - - - - - 88.00																				
S 0 0 2																				
S 0 0 3																				
S 0 0 4																				
S 0 0 5																				
S 0 0 6																				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80																				
E P L E OF ASSAY FILE DEFINITION CROSS OUT IF NOT REQ'D.																				
A 0 0 Assay File No. (Typically 1.) ASSAY FIELD NAMES SEE NOTE 2.																				
A U M M																				
A L A B A T Y P A M T H ASSAY FILE DESCRIPTION CARDS ARE OPTIONAL CROSS OUT IF NOT REQUIRED OR REPLACED BY REMARKS.																				
SAMPLE ASSAY RECORDS FROM TO 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80																				
A 0 0 RECOVERY Ss Sample Serial No. A 1 A 2 A 3 A 4 A 5 A 6 A 7 A 8 A 9																				
A 0 0																				
A 0 0																				
Assay File Definition Number, Typically A001.																				

Notes:

- Do not change /NAM, LNAM, /SCL, LSCL, or AUMM card definitions durin a project. Blanks may be changed lower.
- On AUMM card, right adjust names so that R.H. 4 letters make sense. They will be "stars" header names.
- Units of distance on 5000 card are for survey coordinates, those on /SCL card are for downhole distances.
- To define XX type field put XX in upper tier, lower tier then becomes corresponding How and amount field.
- If additional "S" or "A" cards are required use another header form and cross out unwanted portions or enter "S" or "A" cards on keypunched portion on Form 2.

KEY	FLAG	FORMAT VERSION	SPEC	UNIQUE ID OF PROJECT OR SUB-PROJECT	DRILL HOLE / TRAVERSE PRE-FIX TYPE NUMBER	SIZE OF CORE OR HOLE	GEOLOGGED MONTH	BY	ASST'D BY	DRILLED DRILLER(S)	MONTH	YR.	RIG TYPE	DRILLING TIME-HRS.	SURVEYED BY	CO-ORD SYSTEM	GRID AZIMUTH	PAGE	OF	
I	D	E	N	6	B	0	2	0	1	279	91-862	NQ	02	MAR	91	RKM	COAT		0	1
COMPANY NAME: PLACER DOME INC PROPERTY OF PROJECT OR SUB-PROJECT NAME: MT MILLIGAN																				
DRILLHOLE																				
HEADER	TURN'G PT. 000-Cellar	FROM	TO	MT OF	TOTAL DEPTH/LENGTH	AZM	CLOCKWISE FR. TRUE N.	V-ANG.	NEG. IF DOWN	NORTHING	NEG. IF SOUTH	EASTING	NEG. IF WEST	ELEVATION	NEG. IF SUB-SEA					
	S	0	0	0	7620	MT														
Drillhole coordinate system units. See Note 4. TO DEFINE HOW AND AMOUNT FIELDS OF YIELD OUT																				
CARDS	RECOVERY T-MOD. MIX. ROCK TM1 TM2 QM1 TX1 TX2 F GRAIN F. CC. MXP R1 B1 STRUC ID STRIKE AZM DIPTO RT OR PLUNGE ALTERATION AND MINERAL SUITES OPEN FIELD																			
FILL OUT	LNAM RQD AGE FORM-N ENVR LC COLOUR TM3 QM2 TX3 TX4 S R N S N C FRACTURES SIMIL. STR. R1 B2 STRUC ID AZM DIPTORT OPEN FIELD																			
ONCE	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80																			
PER HOLE	ISCL UNIT OF LENGTH RECOVERY UNIT OF RECOVERY LCTM or LB Hu RQD																			
EXTRA	FILL OUT IF REQUIRED CROSS OUT IF NOT REQUIRED																			
DOWNHOLE	TURN'G PT. 000-Cellar FROM TO TOTAL DEPTH/LENGTH AZM CLOCKWISE FR. TRUE N. V-ANG. NEG. IF DOWN																			
SURVEY CARDS	S 0 0 1 S 0 0 2 S 0 0 3 S 0 0 4 S 0 0 5 S 0 0 6																			
CROSS OUT IF NOT REQ'D.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80																			
FILE OF ASSAY FILE DEFINITION	A 0 0 Assay File No. (Typically 1.) ASSAY FIELD NAMES SEE NOTE 2. A U M M																			
CROSS OUT IF NOT REQ'D.	A L A B A T Y P A M T H ASSAY FILE DESCRIPTION CARDS ARE OPTIONAL CROSS OUT IF NOT REQUIRED OR REPLACED BY REMARKS.																			
FILE OF ASSAY FILE DEFINITION	SAMPLE ASSAY RECORDS FROM TO RECOVERY 55: Sample Serial No. A1 A2 A3 A4 A5 A6 A7 A8 A9																			
CROSS OUT IF NOT REQ'D.	A 0 0 A 0 0 A 0 0 A 0 0 Assay File Definition Number, Typically A001.																			

Notes:

- Do not change /NAM, LNAM, /SCL, /LSCL, or AUMM card definitions during a project. Blanks may be changed however.
- On AUMM card, right adjust names so that R.H. 4 letters make sense. They will be "stat" header names.
- Units of distance on 5000 card are for survey coordinates, those on /SCL card are for downhole distances.
- To define XX type field put XX in upper tier, lower tier then becomes corresponding How and amount field.

- If additional "S" or "A" cards are required use another header form and cross out unwanted portions or enter "S" or "A" cards on keypunched portion on Form 2.

GRAPHIC LOG

IDEN	680201	UNIQUE ID OF PROJECT	279	DRILL HOLE/TRVERSE	91-862	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID	AZIMUTH	PAGE	OF
DRILL COORD SYSTEM UNITS →										M/F	TOTAL DEPTH/LENGTH	AZM	V ANG	NORTHING	EASTING	ELEVATION	4	6	

HORIZON FLAG	FROM	TO
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		
ZONE FLAG		

PLACER DOME INC.
DRILL LOG FORM 4

MBG - JULY 90

RECOV	T-MOD	% MD	ROCK	VEINS	DEFINED MINERAL FIELDS	OPEN FIELDS
18 19 20 21 22 23 24 25 26 27	43 44 45 46	57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80			MSBIE: C: P1 C1 BOHEG: L1 XXYY	
RQD	CS		FRACTURES		KF&2CRABP2C2MG	CUM: XXYY

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A 0 0

DESCRIPTIVE REMARKS

18 19 20 21 22 23 24 25 26
RECOV SAMPLE No.

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION																
			Py	Ch	KE	DL	CP/CP6												

56
58
60
62
64
66
68
70
72

D 60.00 72.15 X 0.00 <1
A 4.66 P2
A (60.00 72.15 0.01
R 60.00 72.15 Sheared (not broken) pitted surfaces - strongly alt - soft, strong GB
contains minor tubble zones

GRAPHIC LOG

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION
			X ₂ LH 20XP EP/CL NEPO

PLACER DOME INC. DRILL LOG FORM 4

MBG - JULY 90

HORIZON FLAG	FROM	TO
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		
/		
ZONE FLAG		
L		

RECOV	1-WOOD	% M/D	ROCK	VEINS S/M	L	TOT	DEFINED MINERAL FIELDS												OPEN FIELDS
18 19 20 21 22 23	24 25 26 27	28 29 30	31 32 33 34 35 36	37 38 39 40 41 42 43 44 45 46	47 48 49 50 51 52 53 54 55 56 57 58 59 60	61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80	MSBIE: C ₂ P ₁ C ₁ R ₀ NEG: L ₁ X ₁ Y ₁												
RQD	C S			FRACTURES S/M	L	TOT	KFQZCBA B P 2 C 2 M G												CUM: X ₁ Y ₁

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
72 A 0 0
P 72.15 76.50
L
74 R A 0 0 4 72.15 76.50
R
76 R 76.50 E.O.H.

DESCRIPTIVE REMARKS

18 19 20 21 22 23 24 25 26	RECOV SAMPLE No.
	MYL N 0 0 0
	X X X X P =
	0.01

Blk - ~~myl~~ ultramylonite - strongly carbonized

E.O.H.