ASSESSMENT REPORT

DIAMOND DRILLING SURVEYS

conducted on the

WHITE RIVER PROPERTY "MAIN BLOCK"

THUNDER BAY MINING DIVISION, ONTARIO

NTS: 42C/12 Latitude: 48° 40′ N Longitude: 85° 48′ W

Owners: Barrick Gold Corporation
Royal Bank Plaza, South Tower,
200 Bay Street, Suite 2700,
Toronto, Ontario
M5J 2J3

Operator: Placer Dome Canada Limited
Timmins Exploration Office
P.O. Box 960
Timmins, Ontario
P4N 7H1

Author: G. Shevchenko, P. Geo.
(Project Geologist)

Date: December 21, 1995

VOLUME 1 OF 2

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1.0 INTRODUCTION

The White River Property is an extensive block of claims that is optioned from Barrick Gold Corporation.

The claims are located just east of the Hemlo gold deposit, in north-central Ontario, and cover the eastward strike extension of the Hemlo stratigraphy for a total length of some 37 kilometres. The property consists of 888 contiguous claim units, and is arbitrarily divided into two blocks described as follows:

I) Main Block: A rectangular block measuring some 6 kilometres wide by 24 kilometres long. It consists of 724 claims and makes up the western two-thirds of the property.

II) Tail: A long narrow strip measuring some 2 kilometres wide by 13 kilometres long. It consists of 164 claims and comprises the eastern one-third of the property.

This report covers the diamond drill program that was conducted over a portion of the "Main Block", between July 14th and September 26th (inclusive), 1995.

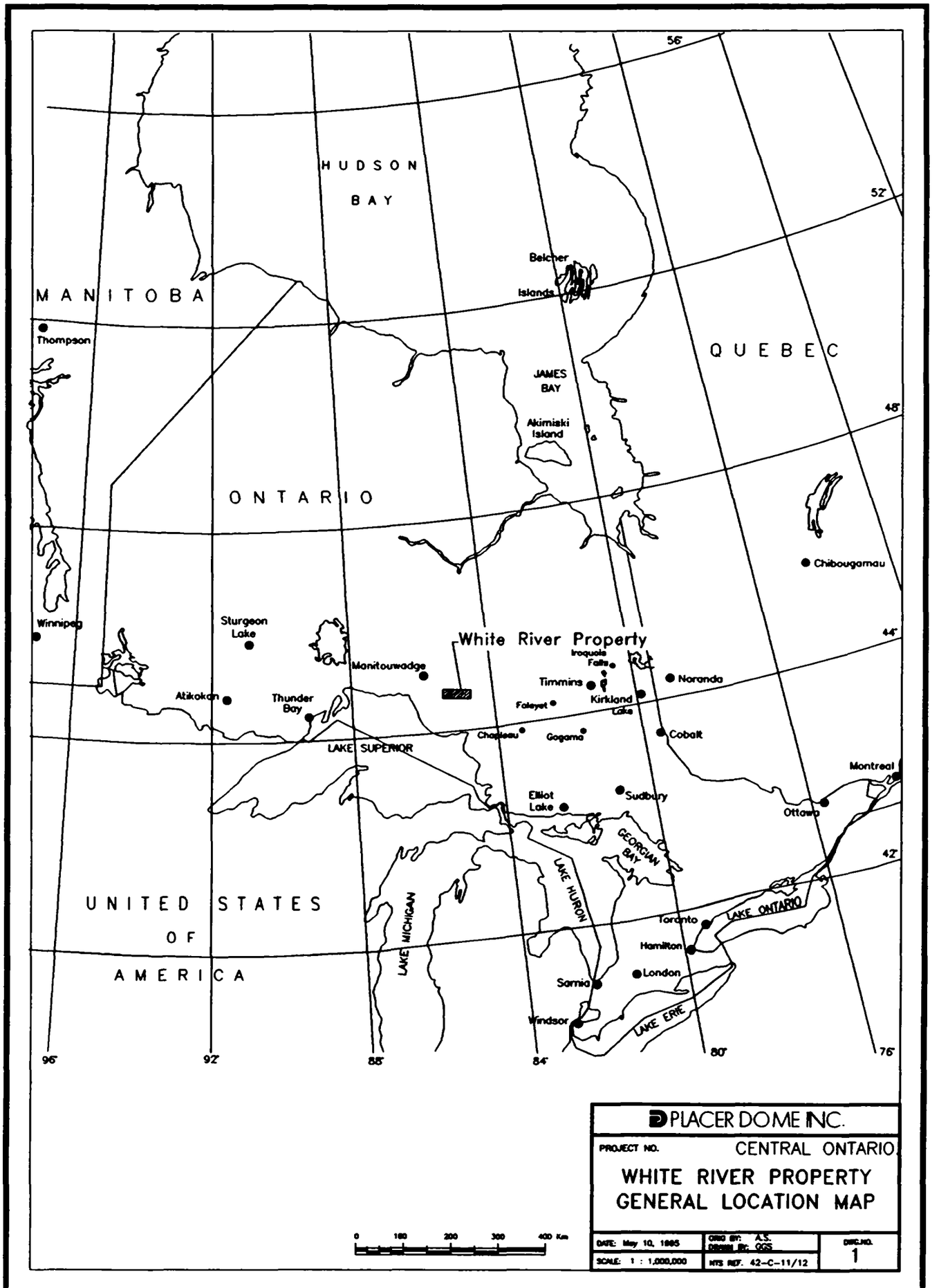
1.1 LOCATION AND ACCESS

The White River Property, which may be found on NTS 42C/11 & 12, covers the Bomby, Brothers and Laberge Townships as well as the Oskabukuta Lake area of Northern Ontario (Drawings #1 and #2). It extends eastward from the Hemlo Mine Site, and is situated within the Thunder Bay Mining Division. The Town of White River is located five kilometres from the eastern-most boundary of the property.

Highway 17 skirts the northern edge of the property and provides access to various portions of the claims by;

I) mine/exploration roads that branch off the main highway across from the David Bell Mine.

II) boat from White Lake Provincial Park.

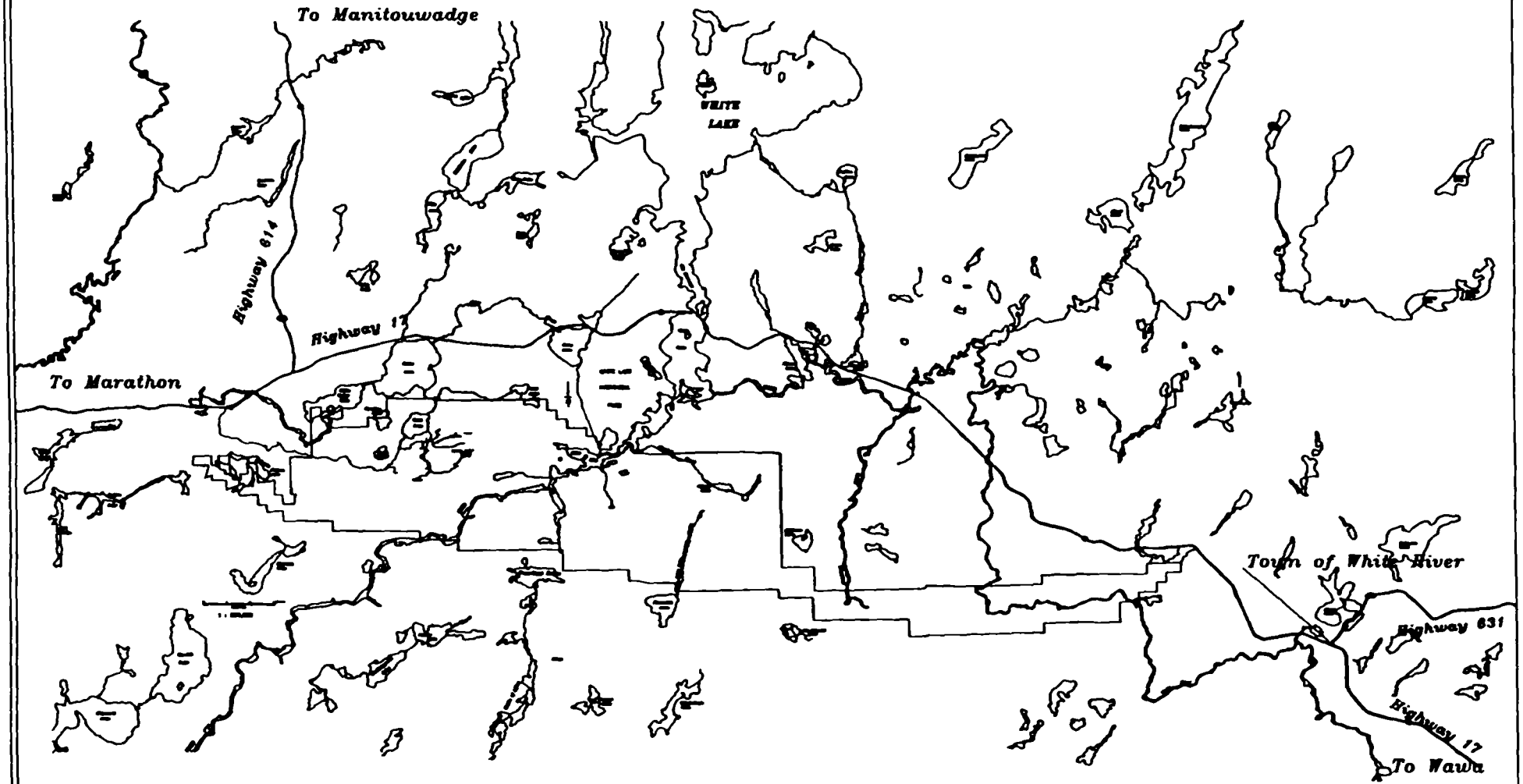


PLACER DOME INC.

PROJECT NO. CENTRAL ONTARIO

WHITE RIVER PROPERTY GENERAL LOCATION MAP

DATE: May 10, 1995	DRG BY: A.S. DRAWN BY: GGS	DRG.NO. 1
SCALE: 1 : 1,000,000	NTS REF. 42-C-11/12	



PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER PROJECT
PROPERTY LOCATION MAP

DATE: Dec. 27, 1984	DRG BY: GEP Chkd By: CDS	DWG NO 2
SCALE: 1 : 250,000	NTS REF	

1.2 PHYSICAL ENVIRONMENT

The area that was covered by the drill program consists of generally low to moderate relief with elevations ranging from 320 to 420 metres above sea level. Drainage is moderate to poor as there are broad areas of low-lying, moist to swampy terrain. Outcrop exposure is generally less than 5%.

The tree types consist of poplar, birch, spruce, jackpine and balsam in the well drained areas, while black spruce and cedar inhabit the low-lying moist regions. The underbrush is generally moderate with local dense patches consisting of alder, moose maple and/or cedar. As a consequence of disease and/or bug kill, 20 to 30% (locally 40 to 50%) of the balsam, jackpine and spruce are dead, resulting in local areas of abundant deadfall.

1.3 CLAIMS AND OWNERSHIP

The White River Property consists of 888 mining claims which are 100% owned by Barrick Gold Corporation (Toronto, Ontario) and are under option to Placer Dome Canada Limited (Vancouver, B.C.).

1.4 HISTORY

As a result of the Hemlo discovery, the "Main Block" of the White River Property was staked in 1980, '81 & '82. The "Tail" portion was staked much later (1989), and was in response to the results obtained in the Gouda Lake area.

Lac Minerals spent 8.1 million dollars on the property between 1981 and 1991 (inclusive). Over the eleven year period, Lac worked the property in a systematic fashion by establishing some 400 line-kilometres of grid and conducting a whole spectrum of surveys on various portions of it. The surveys included geological mapping, magnetometer, IP, CSAMT, mise a la masse, maxi probe, humus geochemistry, trenching, overburden drilling and diamond drilling. Of the total expenditure, some 3.96 million dollars were spent on 30,493 metres of diamond drilling in 145 holes. Most of the diamond drilling was concentrated along the Upper Anomalous and Gouda Lake Horizons.

As a result of the 1991 Supreme Court ruling whereby Lac lost ownership of the Williams Mine, interest in the White River Property waned. Consequently, in 1992 Lac began the process of tendering the property for option.

Placer Dome optioned the property in the fall of 1993, which then totalled 1,264 claims. With what remained of the field season, an airborne radiometric survey was flown and reconnaissance mapping and humus sampling surveys were conducted on a portion of the "Tail". As a result of this exploration program, 364 claims were abandoned in the Tail portion of the property.

In August 1994, American Barrick Resources Corporation was successful in their take-over bid of Lac Minerals, and consequently, ownership of the White River Property was transferred to Barrick. Shortly thereafter, the company changed its name to Barrick Gold Corporation.

During the 1994 summer field season Placer established a grid (200m line spacing) and conducted 134km of geological mapping (1:2,500) along with humus geochemical sampling in three selected areas.

1.5 SUMMARY OF WORK PERFORMED

Bradley Bros. Limited (P.O. Box 485, Timmins, Ontario, P4N 7E7) was contracted to conduct a helicopter supported diamond drill program on the property. There were 13 holes drilled for a total of 4241 metres. The location of the drill collars were surveyed with GPS (Global Positioning System) and sperry sun was utilized for the downhole surveys. The core was logged using GEOLOG and was entered directly onto a notebook computer.

The Cedar Lake Camp was utilized as the base of operations for the program.

The actual drilling portion of the program took place from July 14th to September 26th (inclusive), 1995, while the project preparation and report drafting/writing extended from June 12th to December 13th, 1995.

The core logging was performed by S. Roach and G. Shevchenko, while the geotechnical logging was conducted by Kathy Farrel. Core handling and splitting was conducted by A. Brown, M. Seller and F. Stewart. The digitizing and Autocad drafting for this report was carried out by P. Adams, C. David and C. Green. The program was supervised by G. Shevchenko (Placer Dome Canada Limited, Box 960, Timmins, Ontario, P4N 7H1).

Drawings 3 & 4 portray the hole locations relative to the claims and the grid respectively.

The following table lists the claims that were worked and the metres drilled per claim.

Table #1: List of Claims Worked

Claim Number	Drilling (metres)	Claim Number	Drilling (metres)
SSM 607748	255.00	SSM 607943	168.00
SSM 607761	188.00	SSM 607948	275.00
SSM 607764	353.00	SSM 607965	169.00
SSM 607766	165.00	SSM 607967	240.96
SSM 607767	300.23	SSM 625591	290.00
SSM 607768	284.03	SSM 625592	58.00
SSM 607770	200.06	SSM 625789	497.00
SSM 607771	71.00	SSM 625792	395.11
SSM 607773	27.03	SSM 625794	305.07

614

17

Creek

Dunc Lake

Cedar Lake

Surveyed Line

Little Cedar Lake

Carl Lake

WHITE LAKE PROVINCIAL PARK

Bradley Lake

Rust Lake

Egg Lake

Molson Lake

Cliff Bay

White River Dam

RIVER

LEGEND

- LAKES, RIVERS
- RAILWAY TRACKS
- MAJOR HIGHWAY
- SECONDARY HIGHWAY
- UTM GRID
- TOWNSHIP BOUNDARY
- HYDRO LINE
- CLAIM GROUP

Drawing #3

PLACER DOME CANADA LIMITED.

PROJECT NO

WHITE RIVER PROJECT

1995 DIAMOND DRILL HOLE LOCATIONS CLAIM MAP REFERENCE

DATE December 1995		DWG NO
SCALE 1:50000		

N

614

Creek

Dune Lake

Cedar Lake

WHITE LAKE PROVINCIAL PARK

Little Cedar Lake

Carl Lake

Rust Lake

Bradley Lake

Egg Lake

Molson Lake

Cliff Bay

White River Dam

RIVER

PLACER DOME CANADA LIMITED.

PROJECT NO

WHITE RIVER PROJECT

1995 DIAMOND DRILL HOLE LOCATIONS
GRID MAP REFERENCE

Date December, 1995

SCALE 1:50000

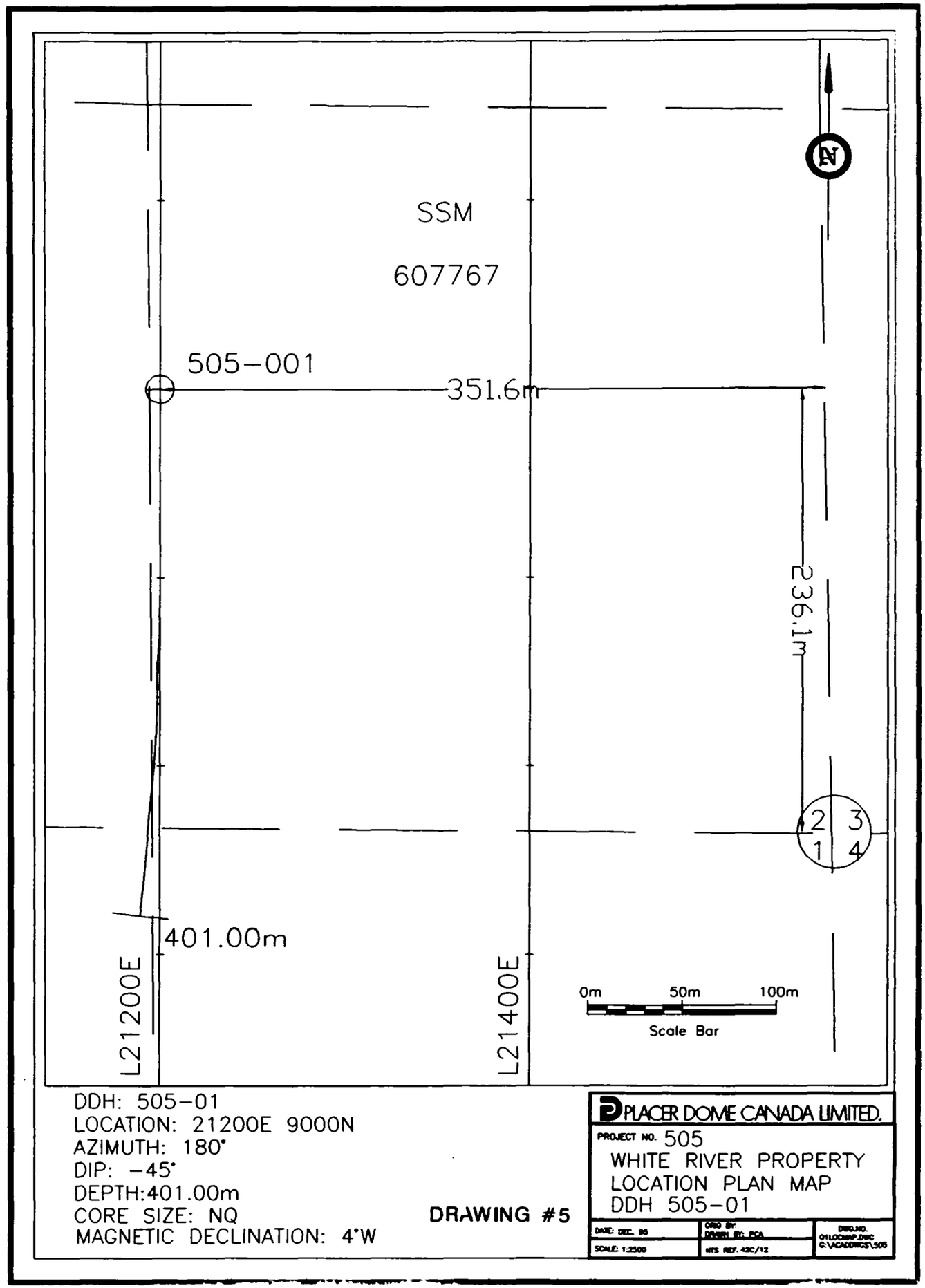
DRAWING #4

2.0 REFERENCES

Shevchenko, G. (1994):
Geological Mapping Surveys conducted on the White River Property "Main Block"; Assessment Report submitted by Placer Dome Canada Limited.

APPENDIX I

DRILL LOGS AND PLANS



DDH: 505-01
LOCATION: 21200E 9000N
AZIMUTH: 180°
DIP: -45°
DEPTH:401.00m
CORE SIZE: NQ
MAGNETIC DECLINATION: 4°W

DRAWING #5

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER PROPERTY
LOCATION PLAN MAP
DDH 505-01

DATE: DEC. 95	DRG BY: DRAWN BY: PCA	DRG.NO. 01LOCMAP.DRG G:\ACADDWGS\505
SCALE: 1:2500	NTS REF. 43C/12	

*** WHITE RIVER ***
PLACER DOME CANADA INC.

Drill Hole: 0505-001

Date: 21st Dec, 1995
Northing : 9000.00
Easting : 21200.00
Elevation : 0.00
Hole Depth : 401.00mt

Grid Azimuth: 180.00
Coord System:

Project ID : 505
Core Size : NQ
Date Logged : 14JUL95
Logged By : SNR
Assisted by :
Drillers : BRAD
Drill date : JUL95
Rig Type :
Drill Time :
Print Template : GTRAN001.FMT

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	180.00	-45.00
68.00mt	180.00	-44.00
107.00mt	180.00	-44.50
149.00mt	180.00	-46.00
196.00mt	183.00	-46.00
236.00mt	180.00	-46.20
293.00mt	186.00	-46.00
341.00mt	184.00	-47.00
401.00mt	187.00	-46.00

From	To	Geology
0.00	2.00	Overburden
2.00	19.82	Arkose, Greywacke, Gray, Feldspars (general), Quartz (general), Biotite, Garnet, Foliated, Foliated
19.82	21.65	Argillite, Greywacke, Black, Chlorite, Calcite, Slickenslides
21.65	30.00	Argillite, Greenish-black, Chlorite, Biotite, Garnet, Porphyroblastic
30.00	73.69	Arkose, Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Garnet, Banded, Bedded
73.69	99.67	DYKES, Green, Feldspars (general), Pyroxenes (general), Biotite, Epidote, Equigranular
99.67	102.46	Arkose, Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Epidote, Aphanitic, Banded
102.46	103.43	Feldspar Porphyry (FP), Pinkish-gray, Feldspars (general), Quartz (general), Biotite, Hematite, Porphyritic
103.43	117.27	Arkose, Greywacke, Pinkish-gray, Feldspars (general), Quartz (general), Epidote, Hematite, Banded, Microveined, Interbedded
117.27	119.50	DYKES, Gray, Feldspars (general), Feldspars (general), Amphiboles (general), Biotite, Porphyritic
119.50	124.35	DYKES, Pinkish-gray, K-feldspar, Hematite, Epidote, Brecciated, Banded
124.35	222.70	DYKES, Greenish-black, Amphiboles (general), Feldspars (general), Biotite, Chlorite, Equigranular
222.70	230.00	Sandstone, Pinkish-gray, Quartz (general), K-feldspar, Hematite, Banded
230.00	243.00	Sandstone, Red, K-feldspar, Hematite, Quartz (general), Epidote, Banded
243.00	244.97	Feldspar Porphyry (FP), Red-green, Feldspars (general), Quartz (general), Biotite, Hematite, Porphyritic
244.97	248.45	Sandstone, Red, K-feldspar, Hematite, Epidote, Quartz (general), Banded
248.45	270.81	Greywacke, Gray, Chlorite, Feldspars (general), Quartz (general), Biotite, Epidote, Banded
270.81	274.09	Feldspar Porphyry (FP), Pink, Quartz (general), Feldspars (general), Epidote, Porphyritic
274.09	282.31	Greywacke, Gray, Feldspars (general), Chlorite, Biotite, Epidote, Massive
282.31	288.21	Feldspar Porphyry (FP), Gray, Quartz (general), Feldspars (general), Epidote, Porphyritic
288.21	301.65	Sandstone, Pinkish-gray, Quartz (general), Feldspars (general), Epidote, Biotite, Hematite, Banded
301.65	304.83	Sandstone, Pinkish-gray, Quartz (general), Feldspars (general), Biotite, Epidote, Hematite, Banded
304.83	363.53	Sandstone, Argillite, Gray, Quartz (general), Feldspars (general), Biotite, Garnet, Banded, Porphyroblastic
363.53	365.17	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Sericite, UNKNOWN

From	To	Geology
365.17	373.36	Sandstone, Gray, Sericite, Quartz (general), Biotite, Feldspars (general), Sheared, Banded
373.36	378.57	Argillite, Sandstone, Greenish-Gray, Quartz (general), Feldspars (general), Chlorite, Biotite, Garnet, Porphyroblastic, Interbedded
378.57	379.06	Feldspar Porphyry (FP), Grayish-white, Quartz (general), Feldspars (general), Biotite, Porphyritic
379.06	401.00	Flow (unsubdivided), Green, Chlorite, Feldspars (general), Biotite, Massive, Foliated
401.00		** END OF HOLE **

White River DDH 0505-001 Detailed Remarks

R Drill Starting Date: July 13, 1995
R Drill Completion Date: July 19,1995
R Drill Contractor: Bradley Bros. Limited
R
R Logged By: Stephen Roach
R Log completed: July 25, 1995
R
R Casing: 5.0 meters (left in hole)
R
R Coordinates (Lac Grid) Line 2500 E
R Station 0000
R
R Coordinates (Placer Dome Grid) Line 21200 E
R Station 9000 N
R
R Survey Coordinates UTME: 588360.50
R UTMN: 5391234.06
R Elev: 344.33 metres (asl)
R
R Claims Drilled: SSM 607766
R SSM 607767
R SSM 607771
R
R Core Storage: Cedar Lake Camp
R

P 0.00 2.00 OVBDX
L
R Overburden - sand
R

P 2.00 19.82 6C 56D 5FDQZBI2FOFO FO B.
L A GA*
R
R Arkose-Greywacke
R -gray color, arenaceous to sub-arenaceous with the princi-
R pal minerlogy being fd > qz > bi with biotite occurring as
R disseminated detrital grains varying 15% to 25%, scattered
R very fine to fine ga varying < 1% to locally 5% - overall
R average < 1%, intermediate to mafic band/bed between 13.93
R and 14.28, 15% to 20% granular kspar grains
R
R -weakly foliated 80 to 85 dca with foliated bi grains, oc-

R cassional qs/qcs (< 1.0 to 5.0 cm wide), massive appear-
R ance.
R
R 6.16 to 6.73 - Lamprohyre dyke - blackish brown color, ul-
R tramafic in composition being strongly bio-
R titic (10% to 20% biotite phenocrysts) in
R a v.f.g. ultramafic matrix, weakly to mod-
R erately magnetic (up to 1%)
R
R -occassional grain of pyrite (< 1%)
R
R contact -sharp contact 25 dca with gradational increase in
R ga (2% to 4%) from 19.00 to 19.82.
R
R
R

PCH 19.82 21.65 656B 56D 5CHCA SK F/20 B. J*
L N CHP8 P8F*
R
R Argillite/Greywacke (Chloritic Fault Zone)
R -dark green to green color, strong chloritic alteration
R with moderate to strong carbonate (i.e. calcite) along
R fractures, occassional talc occurrences along fractures.
R
R -extremely broken core with slickenslided surfaces, occas-
R sional calcite tension gash (< 1%)
R
R -rare bleb of pyrite (< 1%), weakly magnetic (up to 0.5%)
R
R contact - sharp contact 15 dca.
R
R
R

P 21.65 30.00 6B X CHBIGA2PB D*D* J*
L GN J2 J2F2
R
R Pelitic Argillite
R -greenish black to black color, moderate to strong v.f.g.
R chloritic-biotitic matrix about 5% to 25% fine to medium
R (up to 0.25 cm) pinkish red garnets, porphyroblastic tex-
R ture.
R
R -occassional qs/qcs (< 1%) and is < 3.0 cm wide.
R -widely scattered v.f.g. py-po (up to 1%) with possibly
R scattered grains of aspy (< 1%)

R
R contact - gradational decrease in bi-ch-ga.
R
R
P 30.00 73.69 6C 56A 5QZFDBI2BNBD BN B*B/ B/ D*
L A GA(FO
R
R Arkose-(Arenite)
R -gray color, arenaceous with a composition of qz-fd-bi with
R local garnetiferous sections from 34.00 to 34.15 (15% ga),
R 34.70 to 35.15 (25% to 30% ga), and 57.25 to 57.85 (2% to
R 4% ga) giving those sections a porphyroblastic texture,
R increase in fd lithic xtls from 32.30 to 32.70 (20% - <
R 0.3 cm in size), intermittently scattered xtls from 36.16
R to 66.33 varying from < 1% to 5% (< 0.10 to 0.20 cm in size
R -10% disseminated kspar grains
R
R -well developed banding\bedding varying from 66 to 101 dca
R with core angles gradually decreasing from about 44.00,
R variable qs/qcs with or without ep from < 1% to 15% over
R 1.0 meter sections, increased fracturing from 67.30 to
R 73.69 with numerous qz-ep-ca hairline fractures bleaching
R adjacent wallrock.
R
R 65.81 to 66.33 - Fracture Zone - strongly fractured with
R 65% qzvn with ch 'clots' in qzvn fractures
R with coarse ca-ep-ph-se and ga in the ad-
R jacent wallrock, < 1% coarse py, sharp
R upper and lower contacts 135 dca.
R
R -occassional to widely scattered v.f.g. py > po > as (< 1%)
R -local increase in mg up to 1% throughout the section.
R
R contact - sharp contact 108 dca with increased v.f.g.,
R aphanitic, and well compacted qz grains from 67.3
R to 73.69.
R
R
P 73.69 99.67 16 X FDPXBI+EQ D(D)
L G EP)
R
R Diabase Dyke
R -green to whitish green color, mafic composition being
R composed of calcic-plagioclase-pyroxenes-amphiboles-biotite
R and epidote, increase in epidote as hairline fracture-fil-

R ling from 87.5 to 90.4 (< 1% to 3%).
R
R -v.f.g. towards upper and lower contacts being relatively
R coarser towards the center of the diabase (0.1 0.2 cm size)
R -equigranular texture being ophitic?.
R
R -occassional to widely scattered blebs/grains of py (< 1%),
R moderately to strongly magnetic with interstitial to dis-
R seminated grains of magnetite (1% to 2%)
R
R contact - sharp contact 50 dca.
R
R

P 99.67 102.46 6C 56A 5QZFDBI+AHBN BN66 B* J)
L 2A EP* FS55
R
R Arkose-Arenite?
R -dark gray to gray color, arenaceous with v.f.g., aphanitic
R grains of qz-fd-bi-ep, 1% to 2% bi and ep commonly occurs
R as fractures parallel to banding, local pinkish-red hema-
R tite staining (no K-spar stain) near more fractured areas.
R
R 100.40 to 100.57 - Feldspar Poprhyry - gray color, felsic
R composition with 30% to 35% fd pheno-
R crysts (0.2 cm in size) in an aphanitic
R qz-fd matrix, porphyritic texture, xcut
R by 1.5 cm diabase dyke, < 1% py, sharp
R upper and lower contacts 70 dca
R
R -compositional banded/bedded 61 to 70 dca, scattered qs/ep
R fracture-filling 50 to 60 dca (< 1% to locally 5%), pink-
R ish he stain near lower with increased shand fracturing may
R indicate fault area.
R -occassional to widely scattered py cubes (< 1%), weakly
R to locally moderately magnetic (up to 1%)
R
R contact - sharp contact 70 dca
R
R
R

P 102.46 103.43 14B X FDQZBI)PP FS B* J(
L PG HE=
R
R Feldspar Porphyry
R -pinkish-gray to gray color, felsic composition with 30% to

R 35% fd phenocrysts (< 0.2 cm in size) in a v.f.g. qz-fd
R matrix giving a well developed porphyritic texture, < 1%
R kspar in late fractures
R
R -strongly fractured with numerous bleached pinkish gray
R hairline fractures throughout this section (10% to 20%),
R possible fault area
R -occassional bleb/grain of pyrite (< 1%)
R
R contact - sharp contact 115 dca.
R
R

P 103.43 117.27 6C 86D 2FDQZEP)BN<< BN D* J)
L PG HE=IB FS
R
R Interbedded Arkose/Arenite and Greywacke
R -pinkish gray to dark gray color, 80% of this section is
R arkosic to arenaceous with 20% being greywacke (113 to 115)
R -overall composition consists of fd-qz-ch-ep-he-ca with 5%
R patchy, disseminated ti fracture-fill kspar.
R
R -relict banded texture varying from 72 to 140 dca, overaall
R this section displays numerous fractures varying < 1% to
R 10% and locally up to 20%, fracture-filling consists of
R he-ep-qz-ca and occurs as hairline fractures and as bands,
R scattered granitic dykes? (i.e. 112.40 to 112.60) and dia-
R base dykes xcutting the wallrock, fractures occur 110 to
R 120 dca.
R -occassional to locally scattered py cubes up to 1%, inter-
R stitial to disseminated v.f.g. magnetite varying < 1% to
R 3% (weakly to strongly magnetic)
R
R contact - sharp contact 60 dca.
R
R
R

P 117.27 119.50 16 X FDFDBI+PP B. J+
L 2A AM
R
R Diabase
R -dark gray color, mafic composition with a v.f.g. aphanitic
R matrix about f.g. to m.g. (up to 0.2 cm) diffuse fd? - ma-
R trix is composed of calcic plagioclase - amphiboles - py-
R roxenes - biotite.
R

R -sub-porphyritic texture.
R -barren to trace pyrite (< 0.5%)
R
R contact - sharp bx contact 130 dca - bx from 119.2 to 119.5
R with xtl 'fragments' up to 1.0 cm
R
R

PKHE 119.50 124.35 16 X KFHE BXBN FZ BN D* F. J)
L PGHEJ3KFD=EP FS D=
R
R Fault Zone - Diabase
R -pink, pinkish gray to gray color, moderate to strong hema-
R titic stain of the diabase along with epidote, sharp con-
R tacts between kf-he altered diabase and unaltered diabase,
R however, the equigranular/diabasic texture has been pre-
R served, unaltered diabase is up 33 cm wide with the strong
R ep altered diabase from 122.80 to 123.59 - ep has flooded
R the diabase, patchy, disseminated with minor fracture-fil-
R ling Kspar alteration varying from 1% to local 10%
R -fractured-brecciated appearance with variable textures &
R
R banding/fracture orientations, 'banding' varies 80 to 85
R dca, occassional to local concentrations of qs/qv with the
R overall of up to 1%
R -occassional to locally widely scattered py up to 1% with
R the very occassional bleb of cpy and aspy, varying weakly
R to locally strongly magnetic < 1% to 3% as disseminations.
R
R contact - sharp contact 65 dca - locally bx with qs/qv.
R
R

P 124.35 222.70 16 X AMFDBI=EQ B(D)
L GNEPQ) CH=
R
R Diabase
R -green, greenish black, to greenish white and gray colors,
R mafic composition with a varying v.f.g. to c.g. mineralogy
R consisting of am-fd-px-bi-ep, moderate to strong ep sec-
R tions from...
R 148.15 to 167.50 - < 5% to 10% ep alteration of fd as well
R as am with intense ep alteration of fd
R from 153.50 to 154.40, 158.40 to 160.80,
R and from 166.77 to 167.50 (25% to 40%),
R he-ca alteration in the matrix and along
R fractures from 158.40 to 160.80.

R
R 171.00 to 172.80 - 5% to 7% epidote alteration of feldspars
R
R -coarse ch-bi flakes (up tp 0.4 cm) varying 1% to 5% from
R 183.40 to 185.40 and from 186.10 to 193.50, gradational
R increase in ferromagnesians from about 175.00 to 185.40
R with am > fd.
R
R -gradational increase in grain size from 134.65 with a
R gradual decrease in grain size from 184.00 (f.g. to m.g.),
R and from 216.60 (v.f.g. to f.g.) to 222.70, overall, an
R increasing grain size towards the center of the diabase
R varying from 0.2 cm to 0.5 cm.
R
R -equigranular texture being sub-ophitic in texture.
R
R 187.87 to 188.00 - Fault Zone, gouge and broken core
R 198.30 to 199.80 - Fault Zone, strongly fractured and bro-
R ken core with sr-ch along fracture
R planes.
R
R -occassional to locally widely scattered py (< 1%), moder-
R ately to strongly magnetic with 1% to 4% mg, decrease in
R mg from about 167 to 187 with < 1% mg - overall, this sec-
R tion is weakly magnetic.
R
R contact - sharp contact with a well developed chill zone
R 45 dca.
R
R
R
PKHE 222.70 230.00 6A X QZKFHE1BN BN D(D(
L PGQZJ2KFQ2 Q2 J2
R
R Moderate Kspar-Altered/Hematitic Arenite
R -gray, pinkish gray, to pinkish-red color, v.f.g. aphanitic
R matrix consisting of qz-KF(silicified?) with scattered
R v.f.g. black chloritoid or chlorite? (2% to 4%) from 226.3
R to 227.30, pinkish-red bands & as minor fracture-filling
R of 10% to 15% kspar in patchy/banded-form, < 1% to 20% ep
R
R -well developed banding from 73 to 85 dca, minor qs (< 1%)
R -occassional to widely scattered py (< 1%), weakly magnetic
R with local sections up to 3% mg
R

R contact - sharp contact 80 dca
R
R
R
R ---
PKHE 230.00 243.00 6A X KFHEEP)BN BN D) F* F)
L 7R KFP3 QZ P3 P2
R
R Kspar-Altered/Hematitic Arenite
R -blood red, pinkish red, reddish gray colors, strong Kspar
R 10% to 30%, v.f.g. altered and aphanitic matrix, associated
R moderate si with he stain, Kspar occurs as disseminated
R flooding & bands, < 2% ep in fractures but locally up to
R 5%.
R
R -well developed compositional banding 80 to 110 dca, weak
R overall fracturing with < 1% to local 5% qs, numerous thin
R bx zones (up to 9.0 cm wide) with ep-KF-he-qz about 1.0 to
R 2.0 cm, angular, strong he 'fragments' from 242 to 243.
R
R -occassional to locally disseminated py varying <1% to 3%
R with the overall average of about 1%, occassional aspy < 1%
R -sulphides occur as scattered grains in cubic form, moder-
R ately to strongly magnetic (< 1% to 3%)
R
R contact - sharp contact 85 dca.
R
R
R ---
PSI 243.00 244.97 14B X FDQZBI+PP B. B(
L RGQZP2 HE3 P2
R
R Silicified/Hematitic Feldspar Porphyry
R -reddish-grayish green color, felsic composition and/or
R strongly silicified matrix? with f.g.to c.g. (< 0.5 cm)
R fd (albite) varying 20% to 30%, moderate hematite stain
R throughout the section, 5% interstial Kspar in the matrix
R
R -porphyritic texture, no qs
R -occassional pyrite grain (< 0.5%)
R
R contact - sharp contact 95 dca
R
R ---
PKHE 244.97 248.45 6A X KFHEEP+BN BN B- D)
L R KFP3 QZ P3 P2

R
R Kspar-Altered/Hematitic Arenite
R -blood red to red color, strong and pervasive v.f.g.
R aphanitic Kspar-silicification & hematite similar to above
R section, si may possibly be amorphous, up to 5% in local
R sections in banded-form and as fracture-filling, scattered
R qz xtls and/or qe? (1% to 2%) throughout this section, KF
R is pervasively flooded and occurs in banded form varying
R 10% to 40% averaging between 25% to 35%.
R
R -well developed compositional banding 87 to 100 dca, scat-
R tered qs up to 1%
R
R -occassional bleb or cube of py (< 0.5%), moderate to lo-
R cally strongly magnetic (< 1% to 2%)
R
R contact - sharp contact 106 dca
R
R
P 248.45 270.81 6D X CHFDBI+BN BN B. B-
L 2A KFQ) QZEP(Q)
R
R Greywacke
R -dark gray to greenish gray with pinkish-gray bands, min-
R eralogy consists of ch-fd-bi-KF-qz in a v.f.g. aphanitic
R matrix, gradational v.f.g. more KF-he-qz bands (light
R pink color) throughout the section between < 10 and 50 cm
R wide - occurs as bands and as fracture-filling.
R
R -numerous feldspar porphyry dykes/sills from 253.22 to
R 257.97 - FP are felsic in composition with 20% to 25%
R v.f.g. fd in an aphanitic qz-fd matrix, sharp contacts
R with FP...
R 253.22 to 253.30 - upper 105 and lower 90 contacts
R 254.70 to 254.87 - upper 90 and lower 91 contacts
R 255.76 to 255.86 - upper and lower 85 contacts
R 256.08 to 256.74 - sharp upper 80 contact, only
R 257.92 to 257.97 - sharp upper and lower contacts at 90 dca
R
R -banded texture varying from 75 to 105 dca, weakly frac-
R tured with thin si bleaching along fractures with qs and ep
R fracture-filling
R 261.20 to 262.15 - Quartz Vein, milky white to white color,
R qz composition with up to 12 cm xeno-
R liths of FP, < 1% py with sharp upper

R contact 70 dca
R
R 262.15 to 262.27 - Feldspar Porphyry, gray color, felsic
R composition with fd > qz, sub-equigranu-
R lar texture, sharp lower 80 dca contact.
R
R -occassional pyrite grain/cube (< 0.5%)
R
R contact - sharp contact 80 dca.
R
R

PSIF 270.81 274.09 14B X QZFDEP+PP BN B.
L 8I QZP4KFJ= J= P4
R
R Silicified Feldspar Porphyry (weak Kspar)
R -light pink color, felsic composition and/or strongly
R silicified matrix, v.f.g. K-spar (2% to 10% matrix) alter.
R about scattered white m.g. to c.g. (up to 0.5 cm in size)
R white fd (5%) giving a sub-porphyritic texture, frequent
R altered si-ep bands (xenoliths? - up to 5 cm wide and 80
R to 100 dca)
R -barren to occassional pyrite grain/cube (< 1%)
R
R contact - sharp contact 75 dca
R
R

P 274.09 282.31 6D X FDCHBI+MX BN B.
L 2A KFQ1 EP* Q1
R
R Greywacke
R -dark gray with light pink bands, composition of fd-ch-qz-
R bi-ep in a v.f.g. aphanitic matrix, numerous hairline and
R thin KF-ep alteration fractures and 'bands, strong KF-he-qz
R alteration with weak to moderate KF from 274.09 to 275.55
R
R 277.00 to 277.25 - Granite, gray color, felsic composition,
R equigranular texture of fd-qz-bi, < 1%
R py, sharp 112 upper and 138 lower con-
R tact
R
R 278.10 to 278.88 - Feldspar Porphyry, light pink color,
R v.f.g. si matrix about 5% to 10% fd
R phenocrysts, subporphyritic texture,
R < 1% py, sharp 99 upper and 95 lower
R contacts

R
R 280.54 to 280.66 - Feldspar Porphyry, similar to section
R from 278.10 to 278.88, sharp 80 dca con-
R tacts
R
R -massive appearance with diffuse compositional banding (i.e
R alteration and/or contact metamorphic banding) 60 to 95 dca
R -occassional qs/ep fracture-filling
R -occassional py grain/cube (< 1%)
R
R contact - sharp contact 120 dca
R
R
R

PSIF 282.31 288.21 14B X QZFDEP1PP B.
L A QZP3KFJ= J= P3
R
R Feldspar Porphyry (Silicified/K-spar)
R -similar in description to section from 270.81 to 274.09
R with
R 1) v.f.g. silicified/K-spar alteration in the matrix about
R 10% to 15 fd (up to 0.5 cm in size), 5% to 10% scattered
R ep, 2% to 5% disseminations in the matrix.
R 2) 0.20 to 0.40 meter v.f.g., aphanitic rafts
R 3) barren to occassional py (< 1%)
R
R contact - sharp contact 74 dca.
R
R
R

P 288.21 301.65 6A X QZFDBI=BN BN D(B)
L AIQZQ3KFD+EPHE+ V/ D+ Q3
R
R Arenite
R -gray, dark to light gray, and pinkish-gray color, composi-
R tion of qz-fd-bi-ch-ep, overall, 20% to 30% of strong si
R with ep-KF-he-ca in banded form and in fractures - bands up
R 10 cm wide, bands are common from 292.30 to 298.40, scat-
R tered ep varying < 5% to 10%, 2% to 5% disseminated and
R fracture-fill Kspar.
R
R -well developed banding in the sections of increased alter-
R tion with banding from 70 to 110 dca, scattered thin qs/qcs
R /ep-ca (< 1% to locally 5%)
R

R -occassional to locally scattered pyrite grain/cube (< 1%)
R and this section is weakly magnetic with mg < 1% - local
R 1 meter sections of up to 1% mg
R
R contact - gradational contact
R
R
R

PSI 301.65 304.83 6A X QZFDEP1BN BN D) B.
L PGQZP4EPE1BIHE+ V/ D+ P4
R
R Silicified Arenite (weak Kspar)
R -variable pinkish gray, gray, and pistachio green color,
R overall, a strong moderate to strong si alteration with -
R scattered ep grains (5% to 10%) - ep also occurs as frac-
R ture filling and breccia, 2% to 5% Kspar as diss/fractures
R
R 303.24 to 303.49 Epidote-Silicified Breccia (tectonic?) -
R pistachio green color, strong ep alteration insipient in
R the matrix about angular si 'clasts' up to 3.0 cm in size
R sharp upper 130 and 120 lower contacts.
R
R -banded texture in the alteration varying from 85 to 111
R dca, occassional to widely scattered qs/qcs/ep stringers
R (1% to 2%)
R -occassional to scattered py varying from < 1% to 2% with
R < 1% mg
R
R contact - sharp contact with thin qs 110 dca - gradational
R decrease in si alteration from 304.00 to 304.83.
R
R
R

P 304.83 363.53 6A 86B 2QZFDBI1BNPB BN D* D*
L 2A GA(FO F(F)
R
R Arenite
R -gray to dark gray to green color, intercalated/interbedded
R arenaceous to argillaceous in composition, argillaceous
R from 313.20 to 315.80 and from 336.30 to 346.50, mineralogy
R of qz-fd-bi-mu-ga-ky-an-st-ch, sections with scattered ga
R from 306.8 to 309.9 (1% to 3%), 314.2 to 315.8 (10% to 15%
R in an bi-ch-rich argillaceous matrix, 320.0 to 325.0 (< 1%
R to 5%), and from 336.30 to 340.25 (20% to 30% in a bi-ch
R argillaceous matrix), garnets vary from < 0.1 to 0.20 cm.

R -local sections of aluminum-silicate alteration from 322.8
R to 325 with white an (< 1% to locally 5%), brown st (1%),
R & 3% to 5% ga, < 1% to 5% bladed light blue ky and white
R an in sections from 335.0 to 336.30 and from 350.70 to
R 352.81, occassional st-ky-an from 325.0 to 363.53.
R
R -thin bands (4.0 to 5.0 cm wide) of calc-silicate from
R 313.25 to 315.25 (2% to 10%) and from 316.95 to 318.50
R (8%) - calc-silicate consists of dark green/black am xtls
R in a fd-ep-cb, v.f.g. matrix
R
R 322.07 to 322.40 - Feldspar Porphyry, gray color, felsic
R composition with 10% to 15% fd in a v.f.g
R qz-fd matrix, 5% bi, < 1% py, sharp, ir-
R regular contacts 90 dca with qs
R
R 327.85 to 327.49 - Feldspar Porphyry, similar to section
R from 322.07 to 322.40 with sharp 85 dca
R contacts.
R
R 347.30 to 347.66 - Feldspar Porphyry, similar to section
R from 322.07 to 322.40 with sharp 97 dca
R contacts.
R
R 348.73 to 349.15 - Feldspar Porphyry, grayish-white color,
R felsic composition with 25% to 35%
R crowded fd in a v.f.g. bi matrix, < 1%
R py, sharp upper contact with qv 150 dca
R and sharp lower contact 95 dca.
R
R -intermittent compositional banding/bedding 70 to 115 dca
R with weak foliation of argillasceous sections 90 to 122 dca
R -widely scattered to scattered qs/qcs (< 0.20 meters wide),
R overall average 1% to 2% with local 5% to 10% sections.
R
R -occassional to widely scattered py grains/cubes (< 1% to
R locally 2%), weakly magnetic with very localized increased
R magnetics (2% to 4% mg at 305 and 340) - overall < 1% mg.
R
R contact - gradational increase in qs to 5% and sericite al-
R teration
R
R
R
PQS 363.53 365.17 6A X QZFDBI)KV V/ D+ F. F.

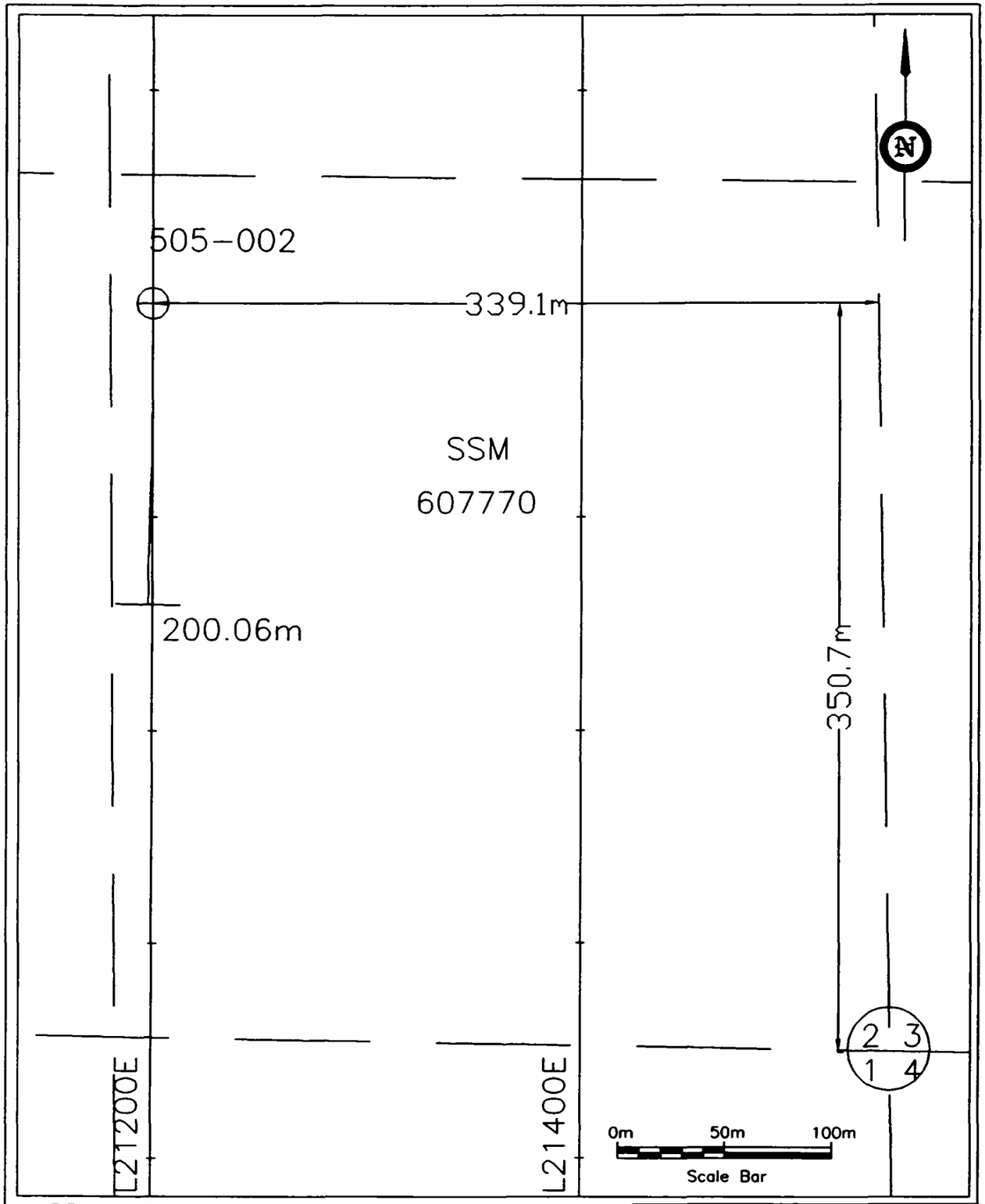
L 8A QZJ2SEJ= SE= F)J= J2
R
R Quartz-Stockwork
R -light gray color, strongly si alteration with se altera-
R tion in close proximity to the vn matte, v.f.g. altered
R wallrock, scattered 5% to 10% brownish-black biotite
R (hydrothermal?).
R
R -strongly fractured with numerous qs/qv (up to 0.20 meters
R wide) varying 30% to 65%, possibly conjugate set varying
R 42 to 110 dca.
R
R -scattered to weakly disseminated py grains varying 1% to
R 4% py with occassional flecs of mo and as (< 0.5%)
R
R contact - sharp contact 85 dca.
R
R

PSSI 365.17 373.36 6A X SEQZBI+SHBN SH D+ F.V(F.
L 9A SEX3QZP2 FD) D+X3 P2
R
R Sericitic-Silicified Arenite
R -alternating gray and buff greenish white color, strong
R se and si alteration with intense si alteration from 369.90
R to 372.84, scatteredbrownish-black biotite (< 1% to 5%) &
R local tourmaline xtls in more sericitic bands, scattered,
R diffuse white, sub-rounded fd (albite?) 'xtls' in the
R strong si section giving a sub-porphyritic texture, occas-
R sional qe (< 1%)
R
R -strongly banded/foliated from 96 to 115 dca, occassional
R qs with increased hairline, bleached fractures in the
R strong silicified section from 369.90 to 372.84.
R
R -occassional to scattered v.f.g. py (< 1% to 4% with an
R average of 2%) grains, minor as-mo? with sp-gn fracture-
R filling from 372.00 to 372.84 (< 1%).
R
R contact - sharp contact 105 dca
R
R
R

P 373.36 378.57 6B 56A 5QZFDBI3PBIB BN D)D* D*
L GA CHGA4
R

R Interbedded Pelitic Argillite and Arenite
R -grayish-green and greenish-black color, biotitic arena-
R ceous rock between 373.36 & 374.70 and from 377.40 to
R 378.57, argillaceous from 374.70 to 377.40 (50%) being
R strongly bi-ch matrix about 30% to 40% ga (up to 0.30 cm
R in size) giving a porphyroblastic texture.
R
R -banded 90 to 110 dca, occassional qs/qcs (< 1%)
R -occassional to scattered py and po with cpy varying < 1%
R to 2% - increased po and py as fracture-filling/dissemina-
R tions from 376.00 to 377.40 hosted in the pelitic argillite
R near the arenite contact.
R
R contact - sharp contact 106 dca.
R
R
P 378.57 379.06 14B X QZFDBI=PP B.
L AW
R
R Feldspar Porphyry
R -grayish white color, felsic in composition with a v.f.g.
R aphanitic matrix of qz-fd-bi about 20% fd phenocrysts (<
R 0.10 0.20 cm in size) giving a porphyritic texture, 5%
R scattered biotite and possibly si?
R
R -occassional py grain (< 0.5%)
R
R contact - sharp contact 95 dca.
R
R
P 379.06 401.00 2A X CHFDBI=MXFO FO B.B.
L G SRE1 V/
R
R Mafic to Ultramafic Flows/Sills
R -green to dark green color, mafic to ultramafic composition
R and strong chlorite with serpentinized-talc alteration
R from 379.06 to 394.82 (ultramafic), mafic composition fro,
R 394.82 to 401.00 with the composition being am-fd-ch-bi.
R
R -massive appearance with occassional shears in the ultra-
R mafic sequence and weakly foliated, sub-equigranular tex-
R ture in the mafic sequence, foliated 95 to 111 dca between
R 394.82 and 401.00 - scattered thin qs (< 1% to 5%) in the
R mafics
R

R 389.69 to 390.10 - Felsic Dyke?, bleached white color,
R felsic or si composition with scattered
R am laths (1% to 3%), sharp 60 contacts
R
R -barren to occassional py and po grain (< 1%), low magnetic
R susceptibility with < 0.5% mg.
R
R
/END



DDH: 505-02
LOCATION: 21200E 8700N
AZIMUTH: 180°
DIP: -45°
DEPTH:200.06m
CORE SIZE: NQ
MAGNETIC DECLINATION: 4°W

DRAWING #6

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER PROPERTY
LOCATION PLAN MAP
DDH 505-02

DATE: DEC. 96	DRAWN BY: PCA	DWG.NO. 02LOCMAP.DWG G:\ACADDWGS\505
SCALE: 1:2500	NTS REF. 43C/12	

*** WHITE RIVER ***
PLACER DOME CANADA INC.

Drill Hole: 0505-002

Date: 21st Dec, 1995
Northing : 8700.00
Easting : 21200.00
Elevation : 0.0
Hole Depth : 200.06mt

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	180.00	-45.00
53.00mt	180.00	-45.50
152.00mt	182.00	-44.50
200.00mt	181.00	-45.00

Grid Azimuth: 0.00
Coord System:

Project ID : 505
Core Size : NQ
Date Logged : 21JUL95
Logged By : SNR
Assisted by :
Drillers : BRAD
Drill date : JUL95
Rig Type :
Drill Time :
Print Template : GTRAN001.FMT

From	To	Geology
0.00	1.50	Overburden
1.50	2.22	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Granoblastic
2.22	8.70	Granite, Grayish-pink, Feldspars (general), Quartz (general), Biotite, Epidote, Equigranular, Porphyritic
8.70	21.80	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Banded
21.80	26.32	Sandstone, IRON FORMATION, Gray, Quartz (general), Feldspars (general), Biotite, Laminated, Banded
26.32	120.40	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Epidote, Banded, Foliated
120.40	123.22	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Epidote, Interbedded, Banded
123.22	124.11	Mafic Dyke (incl Diabase), Greenish-black, Amphiboles (general), Pyroxenes (general), Feldspars (general), Porphyritic
124.11	131.36	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Epidote, Banded
131.36	135.50	PORPHYRITIC FELSIC INTRUSIVE (Old - Late), Sandstone, Gray, Feldspars (general), Quartz (general), Biotite, Porphyritic, Massive
135.50	168.87	Sandstone, PORPHYRITIC FELSIC INTRUSIVE (Old - Late), Gray, Quartz (general), Feldspars (general), Chlorite, Biotite, Banded
168.87	177.50	Sandstone, Gray, Feldspars (general), Quartz (general), Biotite, Banded, Sheared, Porphyroblastic
177.50	186.50	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Banded, Foliated
186.50	196.59	Argillite, Greenish-black, Chlorite, Biotite, Garnet, Feldspars (general), Porphyroblastic, Banded
196.59	197.12	Crowded Quartz-Feldspar Porphyry (QFP), Gray, Feldspars (general), Quartz (general), Biotite, Porphyritic
197.12	200.06	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Banded
200.06		** END OF HOLE **

White River DDH 0505-002 Detailed Remarks

R Starting Date: July 19,1995
R Completion Date: July 21,1995
R Contractor: Bradley Bros. Limited
R
R Logged By: Stephen Roach
R Log completed: July 30, 1995
R
R Casing: 3.0 meters (left in hole)
R
R Co-ordinates (Lac Grid) Line 2500 E
R Station 300 S
R
R Co-ordinates (Placer Dome Grid) Line 21200 E
R Station 8700 N
R
R Survey Co-ordinates UTME: 588381.77
R UTMN: 5390940.60
R Elev: 382.46 metres (asl)
R
R Claims Drilled: SSM 607770
R
R Core Storage: Cedar Lake Camp
R

P 0.00 1.50 OVBDX
R
R Overburden - sand & a few boulders
R

P 1.50 2.22 6A X QZFDBI1GB FO92 B.
L A
R
R Arenite/Arkose
R
R -gray to dark gray color, composition of qz-fd-bi with bi
R being 5% to 10% - biotitic arenite
R
R -massive, granular/granoblastic texture with the biotite
R showing a weak foliation 90 to 95 dca.
R
R -occassional pyrite grain (< 1%)
R
R contact - sharp contact 101 dca

R
R
P 2.22 8.70 12A2X FDQZBI=EQPP B.
L GP EP)
R
R Granodiorite
R
R -light gray to pinkish-gray color, felsic composition with
R fd-qz-bi-ep, 20% to 25% v.f.g. to f.g. (up to 0.15 cm)
R fd phenocrysts in a v.f.g. qz-fd matrix, 5% biotite
R
R 3.07 to 3.92 - Arenite, gray color, arenaceous, v.f.g.
R and massive appearance, raft in in the
R granite, < 1% py, sharp contacts 90 dca.
R
R -equigranular to sub-porphyritic texture, minor qs (< 1%).
R -barren to occassional py (< 1%)
R
R contact - sharp, broken contact
R
R
P 8.70 21.80 6A X QZFDBI+BN BN90 B.
L 2A
R
R Arenite (sandstone)
R
R -dark gray color, qz-fd-bi composition - arenaceous, scat-
R tered v.f.g. (< 0.05cm) qz > fd detrital grains 25% to 30%
R in an aphanitic matrix, < 1% to 5% biotite, scattered
R thin bands/laminations (2.0 cm wide) of calc-silicate
R (< 1% to 2%) being composed of m.g. to c.g. am-bi in a
R v.f.g. fd matrix.
R
R 9.55 to 9.63 - Feldspar Porphyry, gray color, felsic com-
R position with 20% sheared fd phenocrysts
R in a qz-fd matrix, < 1% to 2% bi, sharp 93
R upper and 100 dca lower contact.
R
R -5.0 to 12.0 cm wide sedimentary breccias from 20.80 to
R 21.80, bx consist of angular arenaceous clasts (up to 1.0
R cm in size) in a v.f.g. ch-ep matrix - clasts supported
R matrix with clasts varying 30% to 40%.
R
R -well developed compositional banding/bedding/laminations
R 70 to 101 dca, minor qs/qcs (< 1%)

R
R -occassional to widely scattered py grains (< 1%)
R
R contact - gradational contact with increased magnetite
R
P 21.80 26.32 6A 87 2QZFDBI+LMBN BN88 D*B. L+
L 1A C/88
R
R Interbedded/Laminated Arenite/Lean Oxide BIF
R
R -dark gray to black color, this section contains approxi-
R mately 75% arenite and 25% lean oxide BIF, arenite is
R primarily composed of qz-fd-bi with bi varying 2% to 5%,
R BIF is composed of massive, v.f.g. black magnetite lamina-
R tions (< 0.5 to 1.0 cm wide) in thin overall sections be-
R tween 9.0 and 14 cm wide, BIF varies from 10% to 35%
R throughout this unit.
R
R -well developed bedding/laminations varying 85 to 92 dca,
R occassional thin qs/qcs (up to 1% and < 1.0 cm wide)
R
R -occassional grain/cube of pyrite with trace pyrrhotite
R (< 0.5%), variable weak to very strongly magnetic with
R dissemnated and massive, v.f.g, laminated magnetite from
R 1% to 5% with the overall average being 2% to 4%
R
R contact - sharp contact 88 dca.
R
R
P 26.32 120.40 6A X QZFDBI2BNFO BN90C/83 D*B. D*
L 2A QZQ= EP+ FO88 Q=
R
R Arenite
R
R -gray, dark gray, to light gray color, this section is
R primarily arenaceous being composed of qz-fd-bi-ep, scatter
R ed clear, blue quartz-eyes (1% to 5% and up to 0.05 cm in
R size) from 35.31 to 39.00, gradational increase in bi from
R from 53.00 to 62.30 (15% to 25%) with the overall average
R being 15% to 20%, increase in garnets (< 1% to 5%) and
R st-ky (5% from 76.68 to 77.50) from 75.90 to 80.50, alumin-
R um-silicate alteration is hosted in an argillaceous matrix,
R strongly ch from 89.00 to 89.25 with 1% to 2% mg.
R
R -increased silicified sections with moderate to locally

R strong v.f.g., aphanitic qz from 69.10 to 70.90, 86.75 to
R 88.80, and from 104.30 to 105.60.
R
R -an overall increase in grain size from 107.35 to 120.40
R with < 5 cm wide arkosic bands (up to 0.10 cm qz-fd grains
R in size), 5% to 15% f.g. (< 0.10 cm) rounded qz-fd grains,
R 5% to 10% white and foliated qz-fd 'clasts' (up to 0.5 cm
R in size and sub-rounded to elliptical shaped) from 95.05
R to 95.64 and from 95.80 to 96.05.
R
R 74.76 to 75.15 - Feldspar Porphyry, gray color, felsic com-
R position with 20% to 25% f.g. (0.10 cm)
R in a v.f.g. qz-fd-bi matrix, porphyritic
R texture, < 1% py, sharp 88 upper and 93
R lower contact
R
R 116.57 to 117.07 - Feldspar Porphyry, grayish-white color,
R felsic composition with 15% fd in a
R v.f.g. qz-fd-bi matrix, porphyritic
R texture, sharp 65 dca upper and 130 low-
R er contact
R
R -thin feldspar porphyry dykes\sills from 93.30 to 94.00 and
R from 110.00 to 110.40 - vary from 2.0 to 6.0 cm in width,
R contain 10% to 15% diffuse 'ghost' fd phenocrysts, vary
R from 90 to 95 dca at 93.30 and 94.00 and 100 and 115 in
R the latter section of dykes /sills.
R
R -well developed compositional banding/bedding varying from
R 80 to 106 dca, occassional to widely scattered qs/qcs (1%
R to locally 5%) - fracture zones from 48.95 to 49.50, 51.30
R to 52.05 with increase qz-ep-he in the adjacent wallrock.
R
R -occassional to locally scattered v.f.g. py cubes (< 1% to
R locally over 1.0 up to 2%) - minor po < 0.5%, increased
R mg (1% to 3%) from about 56 to 58 and from 108 to 112.
R
R contact - sharp contact 83 dca with increase in silicifica-
R tion
R
R
PSI 120.40 123.22 6A X QZFDBI=IBBN BN77 B.
L 2A QZL2 EP+ C/80 L2
R
R Silicified Arenite

R
R -dark gray to gray color, moderate to locally strong,
R v.f.g., aphanitic silicification - qz occurs as thin bands/
R 'laminations' and varies 10% to 25% with an average of 20%,
R unaltered composition of qz-fd-bi with 20% to 30% scattered
R v.f.g. light green ep altered fd and qz grains
R
R -finely laminated/banded/bedded 75 to 80 dca, occassional
R qs/qcs (1%)
R -occassional py grain/cube (< 1%)
R
R contact - sharp contact 80 dca
R
R

P 123.22 124.11 16A4X AMPXFD2PP C/73 B. D+
L GN
R
R Diabase
R
R -dark greenish black color, mafic composition with 15% to
R 20% pyroxene/amphibole xtls (up to 0.10 cm in size) in an
R aphanitic matrix.
R
R -sub-porphyritic/ophitic texture
R -barren to occassional py (< 1%), strongly magnetic (2% to
R 3% mg
R
R contact - sharp contact 73 dca with well developed chill
R zones on both upper and lower contacts
R
R

P 124.11 131.36 6A X QZFDBI=BN BN89 B.
L 2A EP+ C/91
R
R Arenite
R
R -dark gray to gray color, arenaceous with a composition of
R qz-fd-bi-ep, scattered light green grains of ep altered fd
R and fd/qz grains (20% to 25% and < 0.05 cm in size), occur
R as granular grains
R
R -bedded/banded texture 90 to 96 dca, granoblastic/granular
R compositional texture, occassional qs/qcs (1%)
R
R 124.54 to 124.67 - Diabase, similar to section from 123.22

R to 124.11, sharp upper 60 and lower 80
R dca contacts
R 125.52 to 125.60 - Diabase, similar to above section with
R sharp 100 dca upper and lower contacts.
R
R -numerous thin feldspar porphyry sills/dykes varying from
R 0.2 to 9.0 cm wide - felsic composition with 30% fd giving
R a porphyritic texture, contacts about 95 dca.
R
R -occassional pyrite grain/cube (< 1%)
R
R contact - sharp contact 91 dca
R
R Arenite - dark gray color, arenaceous composition with
R 20% to 25% ep altered fd and qz grains, xcut by diabase
R from 124.54 to 124.67, < 1% py
R
R Arenite - gray color, arenaceous, v.f.g., < 1% py
R
P 131.36 135.50 13 96A 1FDQZBI+PPMX C/49 B(
L A
R
R Feldspar Porphyry
R
R -gray to pinkish gray color, felsic in composition with 30%
R to 35% v.f.g. to c.g. fd (< 0.10 to 0.50 cm in size, possi-
R bly two types of fd with 1) finer grained crowded fd (25% t
R to 30%), and 2) coarse white fd (5%) - those fd show zoning
R around the fd (primary vs hydrothermal?), pinkish he stain
R from 132.00 to 133.00 (weak to moderate he).
R
R -well developed porphyritic texture, occassional qs (<1%),
R numerous v.f.g. and massive arenaceous rafts (up to 20 cm
R in size) from 134.00 to 135.00 (constitutes about 50% of
R this section)
R
R -occassional to widely scattered pyrite (< 1%) grain/cube
R
R contact - sharp contact 49 dca.
R
R Feldspar Porphyry -similar to section from 131.36 to 134.00
R
P 135.50 168.87 6A 913 1QZFDBI1BN BN91 D* D+
L 2A CH U)U/
R

R Biotitic Arenite xcut by Feldspar Porphyry
R
R -dark gray, gray, to light gray colors, arenaceous being
R composed of qz-fd-bi with biotite varying from 20% to lo-
R cally 30%, weak chlorite and the occassional to locally
R scattered garnet-andalusite, intermittent thin sections
R from about 157.00 to 168.87 with up to 5% ga & up to 1% an.
R
R 136.30 to 136.70 - Feldspar Porphyry ('Popcorn'), gray
R color, felsic in composition with 5% to
R 10% m.g. to c.g. white fd (< 0.5 cm) &
R qz phenocrysts, porphyritic texture,
R weakly foliated/sheared biotite, < 1% py
R and sharp 90 upper and 85 lower contacts
R
R 139.36 to 139.50 - Feldspar Porphyry, greenish-gray color,
R felsic composition with weak to moderate
R se alteration of fd, 15% to 25% fd in a
R v.f.g. matrix, porphyritic texture, < 1%
R widely scattered py > po, sharp upper 95
R and 100 lower contacts
R 139.85 to 140.15 - Feldspar Porphyry, similar to section
R from 139.36 to 139.50, sharp contacts
R with 90 dca upper and 80 dca lower con-
R tacts
R 141.35 to 141.55 - Feldspar Porphyry, similar to section
R from 139.36 to 139.50, sharp 80 dca up-
R per and 85 dca lower contact.
R 145.74 to 145.88 - Feldspar Porphyry, similar to section
R from 139.36 to 139.50, sharp contacts
R 105 dca.
R 164.59 to 165.11 - Feldspar Porphyry ('Popcorn') - similar
R to section from 136.30 to 136.70, sharp
R upper 92 and 115 lower contacts
R 165.11 to 165.32 - Diabase, sharp contact 130 dca
R 165.54 to 165.71 - Feldspar Porphyry, similar to section
R from 139.36 to 139.50, sharp upper 88
R dca and 115 dca lower contacts.
R
R 166.65 to 167.19 - Feldspar Porphyry ('Popcorn') - similar
R to section from 136.30 to 136.70, sharp
R 85 upper and94 dca lower contacts
R 168.18 to 168.75 - Feldspar Porphyry ('Popcorn') - similar
R to sectionfrom 136.30 to 136.70, sharp
R 87 upper and 90 lower contacts

R
R -compositional banding/bedding varies from 80 to 100 dca,
R occassional to scattered qs/qv/qcs (up to 14 cm wide) vary-
R ing < 1% to locally 15% - average of 3% to 5%, numerous
R thin and bleached hairline fractures from 157.00 to 168.87
R 5% to 7%.
R
R -occassional to widely scattered py > po with local 1.0
R meter section up to 1%, pyrite occurs as cubes as well as
R foliated/sheared grains, moderately magnetic with 1% to 3%
R v.f.g. disseminated magnetite
R
R contact - gradation al contact with a gradational increase
R in aluminum silicate alteration.
R
R

PAS 168.87 177.50 6A X FDQZBI1BNSH BN93C/55 D*B.
L 2A SEQ1GAU1 PB SH86 Q1 U1U=
R
R Aluminum-Silicate/Sericitic Altered Arenite - dark gray to
R
R gray color, altered arenaceous unit (pelitic) with scatter-
R ed garnets (5% to 15% being v.f.g. to f.g. up to 0.10 cm),
R scattered sh xtls of ky-an > st > ba? (5%) throughout the
R section in a biotitic-quartz-feldspathic matrix, intermit-
R tent strong sericitic bands (up to 0.30 meters wide) vary-
R ing 5% to locally 40% over 1.0 meter sections - averages
R 10% to 15% of the section.
R
R -well banded and foliated/sheared 84 to 100 dca, occassion-
R al qs/qcs (< 0.5%), altered feldspar porphyry (strongly se)
R from 174.27 to 174.40
R
R -occassional v.f.g. grains of py > po (< 1%)
R
R contact - sharp contact 55 dca at 175.50 with a diabase
R dyke from 175.37 to 175.50 - sharp upper contact
R 80 dca
R
R

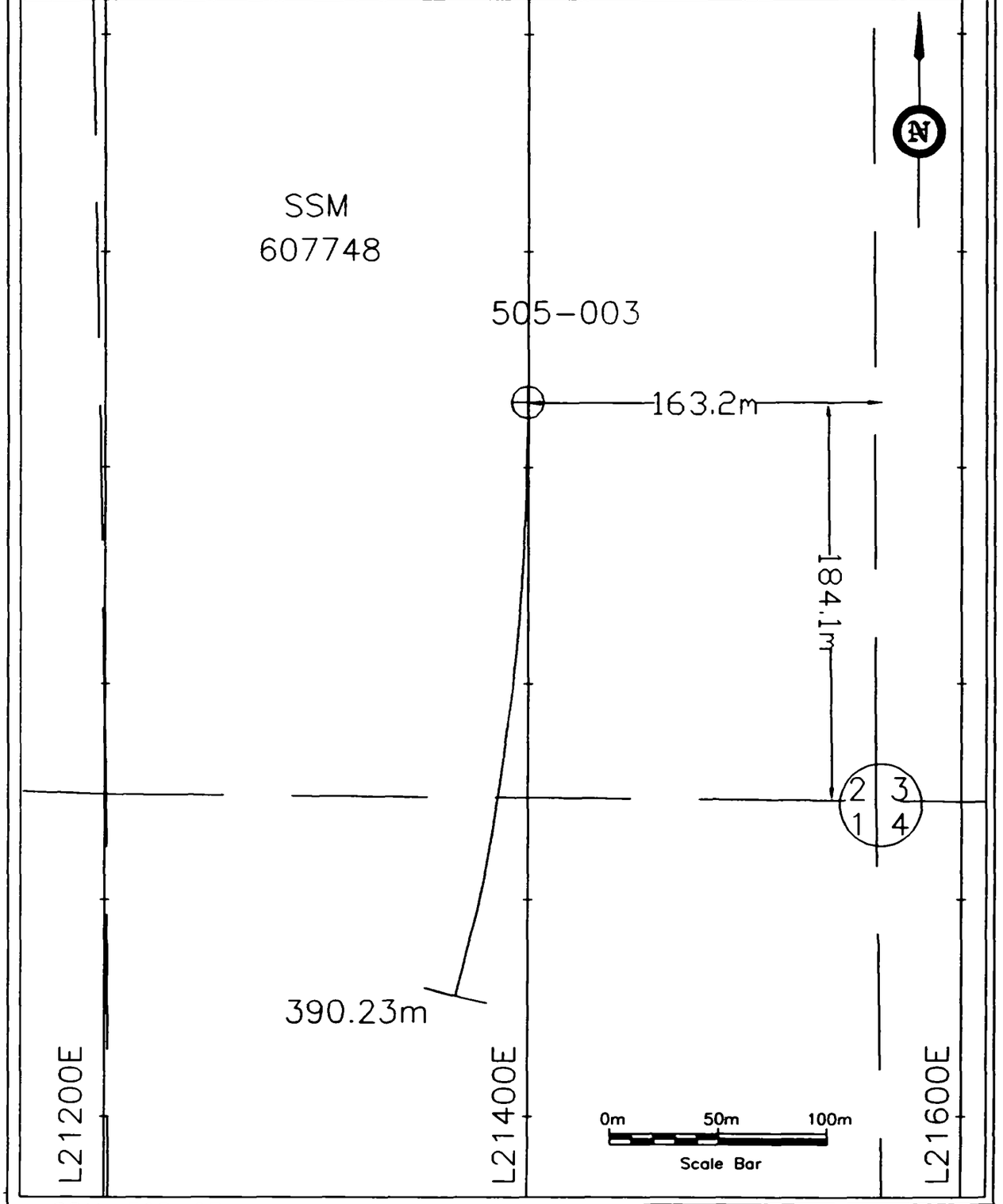
P 177.50 186.50 6A X QZFDBI3BNFO BN92 D*D*
L 1 A FO92 F(F-
R
R Biotitic Arenite
R

R -very dark to dark gray color, arenaceous being very bio-
R tiferous (20% to 30% biotite detrital grains) - biotite
R has been weakly foliated/sheared, bi is set in a qz-fd
R granular/granoblastic matrix, gradational decrease in gar-
R nets (< 1% to 5%) with associated white andalusite xtls
R (up to 1%) from 177.50 to 179.25
R
R -banded/foliated/sheared 90 to 96 dca, occassional to scat-
R tered qs/qcs (up to 1% to 2%)
R
R -occassional to widely scattered py-po (< 1%)
R
R contact - gradational contact with increased aluminum-sili-
R cate alteration
R
R

PAS 186.50 196.59 6B X CHBIFD1PBBN BN91 D)D+ L)
L GNCHP2BIP2GA C/95 P2 P2F1F*
R
R Pelitic Argillite
R
R -dark gray, greenish-gray, to greenish-black color, moder-
R ately to strongly ch-bi matrix with a mixture of qz-fd with
R the ch-bi from 189.75 to 194, scattered ga varying from <
R 1% to 45% with the average being 10% to 15% giving a por-
R phyroblastic texture, scattered xtls (< 1% to 2%) an-ky
R
R -well developed compositional banding/foliation 88 to 95
R dca, occassional to widely scattered qs with increased
R fracturing from 188.64 to 189.75 (10% to 15% qs).
R
R -scattered v.f.g. po-py grains varying < 1% to 5% with the
R average content varying from 2% to 3% po-py, overall, weak-
R ly magnetic with strong magnetite between 186.50 and 187.47
R (5% mg) and from 196.00 to 196.59 (1% to 3% mg)
R
R contact - sharp contact 95 dca.
R
R

P 196.59 197.12 13C X FDQZBI=PP C/70 B.B.
L A
R
R Crowded Feldspar Porphyry
R
R -gray color, felsic to intermediate in composition with 30%

R to 40% v.f.g. to f.g. fd (up to 0.10 cm in size) in a
R v.f.g. qz-fd-bi matrix
R
R -porphyritic texture
R -occassional py and po grain (< 1%)
R
R contact - sharp contact 70 dca
R
R _____
P 197.12 200.06 6A X QZFDBI2BN BN D*D(
L 2A
R
R Biotitic Arenite
R
R -dark gray color, arenaceous being very biotiferous with
R 20% to 25% weakly foliated biotite in a v.f.g. qz-fd ma-
R trix, occassional to widely scattered occurrences of ky-an
R (up to 1%?),
R
-poorly banded 90 to 105 dca with foliation of biotite
varying 85 to 90 dca, scattered qs/qcs (2% to 5%)
R -feldspar porphyry from 197.30 to 197.42 with sharp upper
R and lower contacts 97 dca - 20% to 25% crowded fd pheno-
R crysts giving a porphyritic texture
R
R -scattered v.f.g. py and po (up to 1% locally)
R
/END



DDH: 505-03
LOCATION: 21400E 9330N
AZIMUTH: 180°
DIP: -45°
DEPTH: 390.23m
CORE SIZE: NQ
MAGNETIC DECLINATION: 4°W

DRAWING #7

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER PROPERTY
LOCATION PLAN MAP
DDH 505-03

DATE: DEC. 96	ORIG BY: DRAWN BY: PCA	DRG.NO. G:\LOCMAP.DWG G:\ACADDWGS\505
SCALE: 1:2500	NTS REF. 43C/12	

*** WHITE RIVER ***
PLACER DOME CANADA INC.

Drill Hole: 0505-003

Date: 21st Dec, 1995
Northing : 9330.00
Easting : 21400.00
Elevation : 0.00
Hole Depth : 390.23mt

Grid Azimuth: 0.00
Coord System:

Project ID : 505
Core Size : NQ
Date Logged : 24JUL95
Logged By : SNR
Assisted by :
Drillers : BRAD
Drill date : JUL95
Rig Type :
Drill Time :
Print Template : GTRAN001.FMT

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	180.00	-45.00
134.00mt	184.00	-45.00
194.00mt	187.00	-45.00
239.00mt	188.00	-44.50
284.00mt	189.00	-45.00
347.00mt	194.00	-43.80
390.20mt	194.00	-42.50

From	To	Geology
0.00	4.00	Casing
4.00	5.54	Sandstone, Volcaniclastic, Greenish-Gray, Quartz (general), Feldspars (general), Biotite, Chlorite, Foliated
5.54	9.16	Crystal Tuff, Gray, Feldspars (general), Quartz (general), Biotite, Amphiboles (general), Foliated, Porphyritic
9.16	11.70	Sandstone, Volcaniclastic, Gray, Quartz (general), Feldspars (general), Biotite, Muscovite, Foliated
11.70	13.30	Crystal Tuff, Gray, Feldspars (general), Quartz (general), Biotite, Amphiboles (general), Porphyritic, Foliated
13.30	21.76	Sandstone, Volcaniclastic, Gray, Quartz (general), Feldspars (general), Muscovite, Biotite, Chlorite, Foliated, Banded
21.76	23.10	Crystal Tuff, Gray, Feldspars (general), Quartz (general), Biotite, Chlorite, Muscovite, Porphyritic, Foliated
23.10	43.40	Pyroclastic Breccia - > 64 mm, Green, Chlorite, Biotite, Quartz (general), Garnet, Anthophyllite, Porphyroblastic, Heterogeneous
43.40	45.56	Crystal Tuff, Gray, Feldspars (general), Quartz (general), Biotite, Amphiboles (general), Porphyritic, Foliated
45.56	60.82	Pyroclastic Breccia - > 64 mm, Green, Chlorite, Biotite, Quartz (general), Feldspars (general), Foliated
60.82	61.71	Crystal Tuff, Gray, Quartz (general), Feldspars (general), Biotite, Chlorite, Porphyritic, Foliated
61.71	90.75	Ash Tuff - < 2 mm, Green, Chlorite, Biotite, Quartz (general), Feldspars (general), Garnet, Foliated
90.75	92.75	IRON FORMATION, Gray, Quartz (general), Chlorite, Biotite, Garnet, Laminated, Interbedded
92.75	96.53	DYKES, Black, Amphiboles (general), Feldspars (general), Biotite, Equigranular
96.53	96.95	IRON FORMATION, Black, Quartz (general), Chlorite, Garnet, Laminated, Interbedded
96.95	106.80	Argillite, Green, Chlorite, Biotite, Garnet, Quartz (general), Feldspars (general), Porphyroblastic, Foliated
106.80	212.20	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Chlorite, Foliated
212.20	219.70	Sandstone, Argillite, Green, Quartz (general), Feldspars (general), Chlorite, Biotite, Interbedded, Foliated
219.70	267.00	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Epidote, Foliated, Banded
267.00	279.59	Sandstone, DYKES, Gray, Quartz (general), Feldspars (general), Biotite, Epidote, Banded
279.59	339.31	DYKES, Green, Amphiboles (general), Feldspars (general), Pyroxenes (general), Epidote, Equigranular
339.31	346.64	Sandstone, Pinkish-gray, Quartz (general), Feldspars (general), Biotite, Epidote, Banded
346.64	349.03	DYKES, Black, Amphiboles (general), Pyroxenes (general), Feldspars (general), Porphyritic
349.03	364.08	Sandstone, Pinkish-gray, Quartz (general), Feldspars (general), Biotite, Epidote, Banded
364.08	385.61	Sandstone, Red, Quartz (general), Feldspars (general), Biotite, Epidote, Banded

From	To	Geology
385.61	390.23	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Banded
390.23		** END OF HOLE **

White River DDH 0505-003 Detailed Remarks

R Starting Date: July 21,1995
R Completion Date: July 26,1995
R Drill Contractor: Bradley Bros. Limited
R
R Logged by: Stephen Roach
R Log completed: July 31, 1995
R
R Casing: 3.0 meters (left in hole)
R
R Coordinates (Lac Grid) Line 2500 E
R Station 300 S
R
R Coordinates (Placer Dome Grid) Line 21200 E
R Station 8700 N
R
R Survey Coordinates UTME: 588548.16
R UTMN: 5391566.02
R Elev: 344.59 metres (asl)
R
R Claims Drilled: SSM 607748
R SSM 607767
R
R Core Storage: Cedar Lake Camp
R

P 0.00 4.00 CSNGX
L
R Casing
R
P 4.00 5.54 6A 54B5 5QZFDBI3FO FO B.B.
L GA CH)
R
R Micaceous Arenite/Intermediate Volcaniclastic/Tuff
R -greenish-gray color, arenaceous being moderately to
R strongly biotitic (25% to 35%) in a v.f.g. quartz-felds-
R pathic matrix, occasional chlorite (1%)
R
R -moderately foliated 65 to 70 dca, occassional qs/qcs (<
R 1%)
R -occassional py grain (< 1%)
R
R contact - sharp contact 70 dca.

R
R
P 5.54 9.16 5B4 X FDQZBI1FOPP FO D)D) D*
L 8A AM*
R
R Felsic to Intermediate Crystal Tuff
R -light gray color, felsic to intermediate in composition
R with scattered bi > am > ch with 5% to 10% biotite, scat-
R tered white f.g. to c.g. fd xenocrysts/xtls varying from
R 3% to 5% (up to 0.30 cm in size), minor ga (< 1%).
R
R -weakly foliated varying 45 to 65 dca, scattered qs (up to
R 5.0 cm wide) varying < 1% to 5%
R
R -scattered v.f.g. po and py grains in the interstitial ma-
R trix (1% to local 2%), weakly magnetic with the po and mg
R
R contact - sharp contact 90 dca.
R
R
P 9.16 11.70 6A 54B5 5QZFDBI1FO FO B.
L A MU+ F=
R
R Micaceous Arenite/Intermediate Volcaniclastic/Tuff
R -similar to section from 4.00 to 5.54 with...
R
R 1)scattered ky > an xtls (5%) in a qz-fd-bi-mu matrix
R 2)foliated/sheared 71 to 79 dca.
R 3)occassional py grain/cube (< 1%)
R
R contact - sharp contact 80 dca.
R
R
P 11.70 13.30 5B4 X FDQZBI=PPFO FO D)D(
L 8A AM+
R
R Felsic to Intermediate Crystal Tuff
R -light gray to gray color, felsic in composition with scat-
R tered bi-am xtls that have been weakly foliated 70 to 75
R dca, scattered and foliated 5% to 7% white fd (albite?)
R xtls up yo 0.5 cm in size
R
R -weakly foliated, sub-porphyritic texture, occassional
R qs/qcs (< 1%)
R

R -scattered v.f.g. to f.g. py and po up to 1% - some of the
R sulphides display a foliation.
R
R contact - sharp contact 80 dca.
R
R
P 13.30 21.76 6A 54B5 5QZFDBI2FOBN FO D(D(
L A MUCH+
R
R Micaceous Arenite/Intermediate Volcaniclastic/Tuff
R -gray color, arenaceous being intermediate in composition
R with a v.f.g. matrix of qz-fd with 15% to 25%, occassional
R ky-an (1%) xtl, < 1% v.f.g. and aphanitic felsic bands (
R 4 to 25 cm wide) - possibly start of fragmental unit
R
R -foliated 70 to 90 dca, minor qs/qcs (< 1%)
R -occassional to widely scattered py > po (< 1%)
R
R contact - sharp contact 79 dca.
R
R
P 21.76 23.10 5B4 X FDQZCH1PPFO FO D)D)
L 8A BIMU)
R
R Felsic to Intermediate Crystal Tuff
R -light gray color, felsic to intermediate in composition
R with scattered ch-bi-am in a v.f.g. qz-fd matrix, scattered
R white albite xtls? (5% to 10% and up to 0.30 cm in size) in
R a v.f.g. matrix giving a sub-porphyritic texture.
R
R -weakly to moderately foliated about 70 dca, scattered thin
R qs (2% to 5%)
R
R -scattered v.f.g. py and po in the matrix (1% to 3%) -
R sulphides occur as disseminated grains
R
R contact - sharp contact 81 dca.
R
R
PCBI 23.10 43.40 4B3 X CHBIGA=PBHT FO D*D*
L G CHJ3BIJ1QZAY) BN J1 J3U=F=
R
R Chloritic-Biotite Altered Intermediate Pyroclastic Breccia
R -green, greenish-gray, to greenish-black color, strongly
R altered matrix to chlorite and biotite with the alteration

R of feldspar, scattered m.g. to c.g. xtls of anthophyllite-
R kyanite-andalusite scattered throughout the section varying
R 5% to locally 10%, gradational increase in ch-bi from
R 32.00 to 42.50, 10% to locally 20% v.f.g. and aphanitic
R felsic fragments throughout the section, scattered garnets
R up to 5% as v.f.g. to f.g. euhedral xtls.
R
R -well foliated with bands (i.e. fragment bands) 65 to 117
R dca, fragment size varies from 5.0 to 10.0 cm, occassional
R qs/qcs (< 1%)
R -occassional to scattered po > py > cpy with an overall av-
R age of < 1% - locally up to 1%
R
R contact - sharp contact 87 dca.
R
R

P 43.40 45.56 5B4 X FDQZBI1PPFO FO D*D*
L A AM=
R
R Felsic to Intermediate Crystal Tuff
R -gray color, felsic to (intermediate) in composition with
R a v.f.g. matrix mineralogy composed of qz-fd-bi-am-ch,
R 10% to 15% foliated and black biotite, up to 2.0 cm wide
R amphibolitic-feldspathic 'bands', scattered white fd (al-
R bite?) xtls (5% and up to 0.40 cm in size).
R
R -sub-porphyritic texture with scattered white feldspars,
R both the bi and fd xtls have been foliated 90 to 115 dca,
R occassional qs/qcs (< 1%)
R
R -occassional to widely scattered v.f.g. po and py grains
R (less than and equal to 1%)
R
R contact - sharp contact 111 dca
R
R

PCH 45.56 60.82 4B3 X CHBIFD2FO FO D*D*
L G CHJ2BIJ1QZ BN J1J+J2U)
R
R
R Chloritic Intermediate Lapilli Tuff/Pyroclastic Breccia
R -grayish green to green color, moderate to strong chlorite
R alteration with a gradational increase in ch with associa-
R ted biotite alteration from 56.50 to 60.82, alteration is
R insipient in the tuffaceous matrix, weakly sericitic from

R 53.50 to about 56.00, scattered v.f.g. to f.g. euhedral
R garnets (1% to 2%) and numerous v.f.g. ch-am bands (up to
R 1.10 meters wide) from 46.58 to 50.70 (10% to 15%) - may
R represent ch altered tuffaceous matrix
R
R -moderately foliated fragmental texture, felsic to inter-
R mediate fragments up to 68 cm in size with polymodal clast
R distribution of feldspar porphyry fragments (5%) and ser
R altered and unaltered fragments generally 2.0 cm to 10 cm.
R foliated between 82 and 115 with banding effect from the
R fragments, occassional qs/qcs (up to 1%)
R
R -occassional to widely scattered po and py with trace
R cpy (< 1%)
R
R contact - sharp contact 76 dca.
R
R
P 60.82 61.71 5B4 X QZFDBI=PPFO FO D*D)
L 8A CH+
R
R Felsic to Intermediate Crystal Tuff
R -light gray to gray color, felsic to intermediate in com-
R position with scattered bi-ch (5% to 7%), scattered white
R feldspars (albite?) varying 5% to 10% up to 0.30 to 0.50
R cm in size giving a sub-porphyritic texture
R
R -foliated biotite and pyrrhotite varying 75 to 90 dca,
R scattered qs/qcs (5%)
R
R -scattered v.f.g. to f.g. foliated po > py up to 1% grains.
R
R contact - sharp, irregular contact 75 dca.
R
R
PCH 61.71 90.75 4B1 X CHBIFD2FO FO D*D(
L G CHJ2BIJ1QZGA) BN J1 J2U)U1
R
R Chloritic-Aluminum Silicate-Altered Intermediate Tuff to
R Pyroclastic Breccia
R -grayish-green, green, to grayish brown color, intermediate
R composition with sections displaying variable weak to
R strong alteration, gradual increase in ch-bi alteration
R from about 65.20 to 87.50 with moderate to strong ch-(bi),
R increase in aluminum-silicate alteration with coarse bladed

R anthophyllite-kyanite-andalusite-garnet varying from 5% to
R 15% from about 83.00 to 91.75, scattered garnets throughout
R the section between 1% to 2%
R
R -foliated fragmental texture between 85 and 100 with frag-
R ment as bands, this section has variable coarse fragmental
R section with fragments up to 17 cm in size (up to 5%), for
R the most part this unit is an altered tuff, occassional qs/
R qcs (1%)
R
R -occassional to locally widely scattered po and py (< 1%)
R grains
R
R contact - gradational contact
R
R

P 90.75 92.75 7 X QZCHGA+LMIB BN D*D* D1
L A BI
R
R Oxide-Silicate Facies Iron Formation
R -alternating green and gray to dark gray, alternating
R magnetiferous silicate bands composed of ch-am-ga and mag-
R netiferous chert/arenite, scattered garnets in the chlori-
R tic bands varying from 1% to 5% with ga gradual decreasing
R from 91.70 to < 1%
R
R -well developed laminations/compositional banding 75 to
R 95 dca, Z-drag fold at 92.15 with the AP 65 dca, minor
R qs (< 1%).
R
R -occassional to widely scattered po-py (< 1%) grains
R throughout the section, strongly magnetic with 5% to 10%
R disseminated mg in the more cherty/arenaceous bands - also
R mg occurs as very thin massive magnetite.
R
R contact - sharp contact 96 dca.
R
R

P 92.75 96.53 16 X AMFDBI1EQ B. D)
L N
R
R Diabase Dyke
R -dark greenish-black color, mafic composition with a v.f.g.
R aphanitic matrix about v.f.g. to f.g. 5% to 10% am-px
R

R -sub-equigranular texture being ophitic?
R -barren to occassional py grain (< 0.2%), weakly to locally
R magnetic with 1% to 2% mg.
R
R contact - sharp contact 103 dca
R
R

P 96.53 96.95 7 X QZCHGA(LMIB BN D*D* L1
L N
R Oxide-Silicate Facies Iron Formation
R -similar to section from 90.75 to 92.75
R
R contact - sharp contact 105 dca
R
R

PCBI 96.95 106.80 6B X CHBIQZ1PBFO FO D(D(
L G CHJ3BIJ2GAFD= J2 J3U2D=
R
R Chloritic-Biotitic-Altered Pelitic Argillite/Arenite
R -green, greenish-black color, overall a strong ch-bi alter-
R ed matrix about 15% to 25% f.g. to c.g. (up to 0.40 cm in
R size) garnets giving this section a well developed por-
R phyroblastic texture, gradual decrease in ch and bi from
R 104.00 to 106.80 with biotite occurring as foliated detri-
R tal grains, scattered brown staurolite (5%) from 106.40 to
R 106.80 - occassional to scattered ky-an???
R
R -porphyroblastic texture being weakly banded between 95
R and 108 dca, occassional qs/qcs (< 1%)
R -occassional to scattered v.f.g. po > py > cpy (< 1%)
R grains
R
R contact - gradational decrease in ch-ga alteration
R
R

P 106.80 212.20 6A X QZFDBI2FO FO D*D.
L 2A GAU* CH) D*D*
R
R Biotitic Arenite
R -gray to dark gray color, arenaceous with 5% to 25% folia-
R ted biotite grains in a v.f.g. qz-fd matrix, increased,
R intermittent sections of aluminum-silicate alteration from
R 106.8 to 109.80, about 124.00 to 132.00, 141.00 to 147.00,
R and from 157.50 to 162.30 with scattered xtls of ga-st-an-
R (ba?) varying from 1% to 10% - xtls are up 0.20 cm in size

R
R -weak to moderate sericite alteration from 165.50 to 166.20
R hosted in the matrix and hairline fractures, increase in
R chloritic bands (mafic mud - 6B/D?) from 207.87 to 212.20
R varying from 3% to 15% over 1.0 meter sections - up to 15
R cm wide bands.
R
R -increase in arkosic sections from 117.60 to 121.52 and in-
R termittently from 162.30 to 212.20 with v.f.g. to m.g.
R lithic fd xtls (up to 0.30 cm in size and varies from
R 5% to 25%) - gradational contacts, coarser fd (0.20 to 0.45
R cm size xtls) in a qz-fd matrix from 204.72 to 205.27,
R this section displays graded bedding with fining, tops up
R the hole - 15% to 25% fd giving a porphyritic texture, but
R gradational upper and lower contacts
R
R -weakly to locally moderately foliated of the biotite wisps
R varying from 75 to 95 dca with the most common variation
R from 85 and 90 dca, increase in fracturing with qs/qcs/qv
R from 113.00 to 116.40 (5%), 191.90 to 192.6 (5%), and from
R 201.55 to 202.83 (15%), overall average is 1% to 3%, qs/qcs
R /qv up to 15 cm wide.
R
R 182.81 to 183.04 - Feldspar Porphyry, gray color, felsic
R composition with 25% fd phenocrysts in
R a v.f.g. qz-fd matrix, porphyritic tex-
R ture, 2% to 5% disseminated and fracture
R -filled pyrite, sharp 93 dca upper and
R 90 dca lower contacts
R
R -occassional to widely scattered py and po with trace cpy
R grains, overall average of < 1% with local and intermittent
R section up 1% to 2% over < 0.20 to 1.0 meter, sulphides
R are generally foliated
R
R contact - sharp contact 71 dca.
R
R
P 212.20 219.70 6A 76B 3QZFDCH2IBFO BD D*
L G BI1 FO
R
R Interbedded Arenite and Argillite/Greywacke
R -alternating gray and green color, this section has approx-
R imately 70% arenite and 30% green argillite/greywacke.
R

R -arenite is composed of v.f.g. qz-fd-bi and the argillite
R is mainly composed of ch-fd-bi-ep-(ca) with the composi-
R tional banding being very sharp, variable 10% to 60% green
R argillite/greywacke over 1.0 meter sections, argillite is
R moderately chloritic with associated biotite and represents
R a mafic mud, v.f.g. and weakly to moderately foliated
R
R -well developed banding varying 75 to 90 dca and foliated
R 75 to 80 dca, increased stringers/veining in the form of
R gash veins from 216.40 to 217.5 (5% to 10%) with associated
R strong chlorite alteration and shearing, overall 2% to 3%
R qs/qcs.
R
R -occassional to widely scattered py grains/cubes (up to 1%)
R pyrite grains show some form of shearing.
R
R contact - sharp contact at 80 dca.
R
R
P 219.70 267.00 6A X QZFDBI2FOBN FO D(B. D.
L A EP(BN
R
R Biotitic Arenite
R -gray to dark gray color, arenaceous with a granular/grano-
R blastic composition of qz-fd-bi-ep with a gradual increase
R in epidote from about 257.00 to 267.00 in the matrix and as
R fracture-filling (up to 5%).
R
R -weak to moderate compositional banding and foliation 75 to
R 110 dca, banding/bedding gradually more apparent from 250.0
R to 267.00, occassional to scattered qs/qcs with epidote
R (< 1% to 5% - up to 5 cm wide)
R
R 220.51 to 221.44 - Lamprophyre, black color, ultramafic
R v.f.g. massive biotite-chloritic matrix
R with scattered white feldspathoids? (5%
R and up to 0.2 cm in size), sub-porphyri-
R tic texture, barren to < 1% py-po and
R strongly magnetic (1% to 3% mg), sharp
R 55 dca upper and 116 dca lower contacts.
R
R 251.95 to 252.40 - Diabase Dyke, black color, mafic compos-
R ition with 10% to 15% fd (up to 0.20 cm
R in size), sub-porphyritic texture, bar-
R ren to < 1% py, 1% to 2% mg, sharp

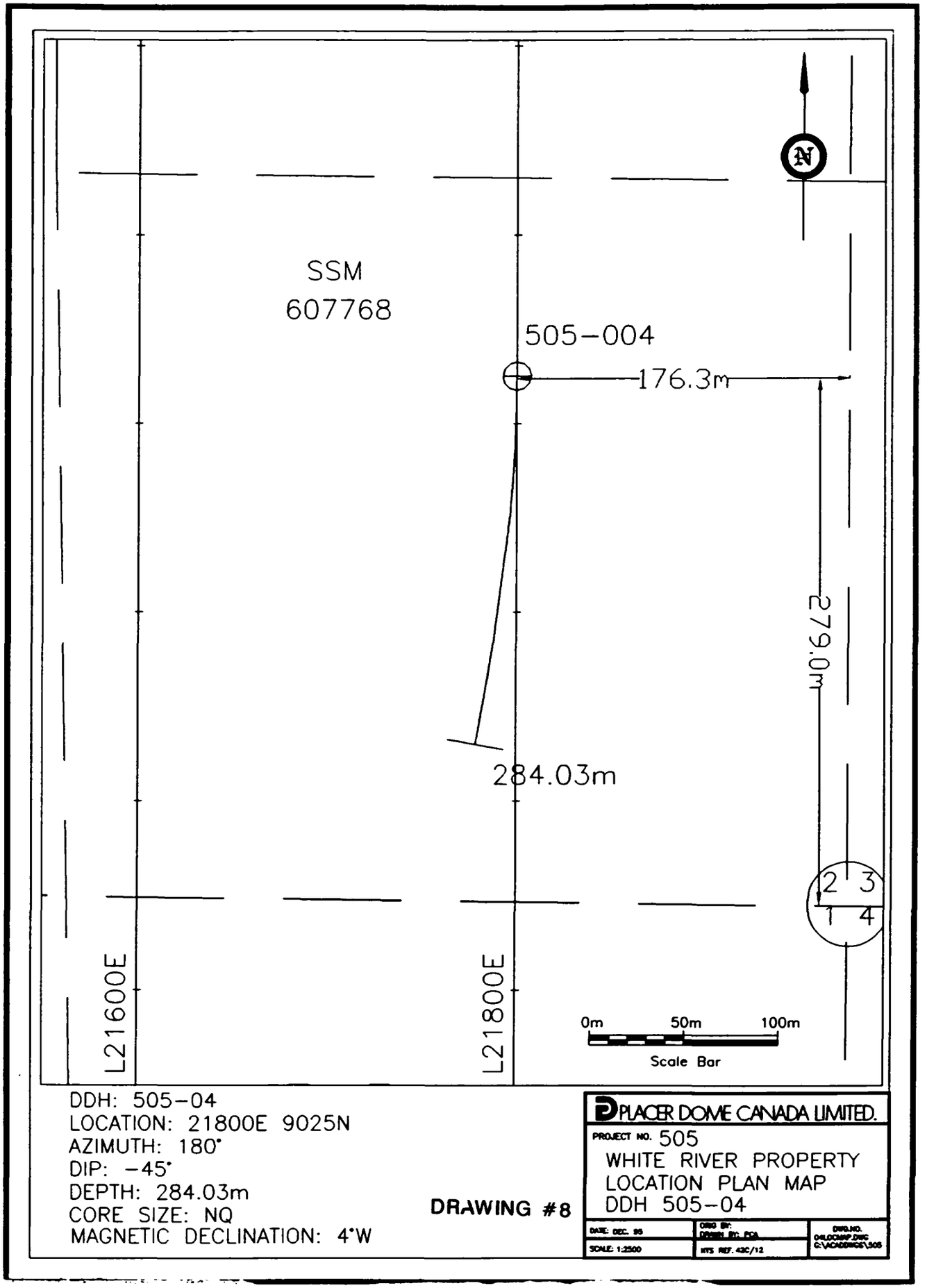
R 114 dca upper and 95 dca lower contacts
R - adjacent 0.10 to 0.50 meter wide he-ep-
R si alteration in the wallrock
R
R 261.09 to 261.41 - Feldspar Porphyry, gray color, felsic
R composition with 25% to 35% fd pheno-
R crysts in a v.f.g. qz-fd matrix, por-
R phyritic texture, weakly foliated fd,
R barren to occassional py < 1%, sharp
R 111 dca upper and 105 lower contacts
R with qv at upper contact
R
R 262.39 to 262.67 - Feldspar Porphyry, similar to section
R from 261.09 to 262.67 with...
R 1) increased sericite alteration in the
R matrix with scattered 5% to 10% ep
R 2) barren to occassional py < 1%
R 3) sharp 101 dca upper and 87 dca lower
R contacts
R
R -broken core from 261.70 to 262.00 (fault zone?) with he
R stain and weak to moderate si-ep, porphyritic texture
R with 5% to 10% v.f.g. fd phenocrysts in the intense he
R stain, up to 7.0 cm wide diabase dykes from 263.00 to
R 263.15.
R
R -occassional to widely scattered pyrite (< 1%) grains/cubes
R occassional mg (< 0.2%)
R
R contact - gradational contact with a gradual increase in
R epidote and si alteration
R
R
P 267.00 279.59 6A 916 1QZFDBI1BN BN D) D)
L A SIP2 EP= P2
R
R Silicified Arenite
R -alternating gray, dark gray, pinkish-gray, and grayish-
R green color, altered arenaceous composition with a v.f.g.
R and aphanitic composition of qz-fd-bi-ep-he-(am)-(ca) with
R intense silicification from 275.67 to 279.59 with local
R moderate he stain and epidote in the matrix and as fracture
R -filling.
R
R -numerous unaltered diabase dykes that comprise of 8% of

R this section, diabase varies from 2.0 to 35.0 cm wide with
R core angles between 80 and 112 dca.
R
R 268.66 to 268.87 - Feldspar Porphyry, felsic in composition
R with 25% to 35% fd phenocrysts in a
R v.f.g. qz-fd matrix, porphyritic texture
R and < 1% py, sharp 97 upper and 103 low-
R er contact
R
R -well developed compositional banding varying from 80 to
R 106 dca, intense si-he-ep-(ca) sections display increased
R fracturing with qs/qcs with epidote - qs/qcs up to 5%
R
R -occassional to widely scattered py cubes varying < 1% to
R 1% to 2% in local areas, moderately magnetic throughout the
R section with 1% to 2% mg, strongly magnetic diabase (2% mg)
R
R contact - sharp contact 86 dca.
R
R
P 279.59 339.31 16 X AMFDPX2EQ B. D+
L G EP+
R
R Diabase
R -dark green, greenish-white, to greenish-black color, mafic
R composition where am-px(40% - 50%) > fd (20% -25%) with
R scattered black flakes (0.30 to 0.60 cm) of chlorite (5%)
R from 306.15 to 323.00, increase in epidote from about 318.5
R to 333.00 with intense ep alteration of am from 320.70 to
R 321.00.
R
R -equigranular texture with a gradational increase in grain
R size from 285.20 to about 323.00 with am and fd up 0.5 cm
R in size, gradational decrease in grain size (< 0.10 to 0.20
R cm) towards the upper and lower contacts.
R
R 305.34 to 306.15 - Fault Zone, pistachio green & red color,
R strong alteration to ep-he-qz-(ca)-(am)
R with 2% qcs, bx at lower contact with
R 5% to 10% am-ch altered wallrock up to
R 2.0 cm, 20% to 25% ep in the matrix, 1%
R scattered py cubes, sharp upper contact
R 111 dca.
R
R -occassional pyrite grain/cube (< 1%) with moderate to

R strong magnetics - 2% to 3% black mg grains
R
R contact - sharp contact 65 dca with a well developed chill
R zone.
R
R
PSI 339.31 346.64 6A X QZFDBI+BN BN D) D)
L PGSIP2HEP2 EP1 P2
R
R Silicified-Hematitic-Epidotitic Arenite
R -alteration gray, red, pistachio green and a combination
R of the mentioned colors, overall, moderately to strongly
R si with he-ep in banded-form, massive ep bands (up to 30 cm
R wide) varying < 1% to 50% averaging 8% of this section, in-
R crease in si-he alteration from 344.00 to 346.64, scattered
R rounded, black porphyroblasts of am and/or cd (< 1% to loc-
R ally 10% - averages 2% to 5%).
R
R -well developed banding/laminations 75 to 105 dca, occas-
R sional to scattered qcs/qs varying 1% to 3% - ep associated
R with fracture-filling.
R
R -widely scattered to scattered euhedral pyrite cubes vary-
R ing < 1% to locally 2%, variable magnetics with an overall
R moderate magnetic signature - 1% to 2% mg.
R
R contact - sharp contact 165 dca.
R
R
P 346.64 349.03 16 X AMPXFD1PP B. D)
L N
R
R Diabase
R -black to greenish-black color, mafic composition with
R scattered am-px phenocrysts (10% to 15%) varying in size
R from 0.10 to 0.20 cm in size, am-px are set in a v.f.g.
R aphanitic, mafic matrix.
R
R -sub-porphyritic texture (ophitic??)
R -barren to occassional pyrite grain (< 1%), moderately to
R strongly magnetic with 2% to 3% scattered magnetite
R
R contact - sharp contact 60 dca.
R
PSI 349.03 364.08 6A X QZFDBI=BN BN D) D)

L 3PGSIP3HEP2 EP1 U* P3
R
R Silicified-Hematitic Arenite
R -alteranting red, reddish-gray, gray, with pistachio green
R bands, v.f.g and aphanitic altered arenite with moderate to
R mainly strong si-he with associated ep in the matrix as
R massive bands and fracture-filling, scattered v.f.g. to
R f.g. amphibole and/or chloritoid porphyroblasts varying
R from < 1% to locally 20% in thin bands < 10 cm wide, red
R to reddish-gray hematite occurs in banded-form, scattered
R v.f.g. to m.g. ga (1% to 10% porphyroblasts) from 358.40 to
R 361.00.
R
R -well developed compositional banding varying from 68 to 90
R dca, scattered qs/qcs varying < 1% to locally 5% with mod-
R erate epidote associated with the vn matte.
R
R -occassional to widely scattered pyrite cubes (< 1% to 2%)
R with a slight increase in pyrite in the strongly hematitic
R sections, variable weakly to strongly magnetic with < 1% mg
R to 3% mg.
R
R contact - sharp contact 76 dca with a gradational increase
R in intense hematite staining
R
R
PSI 364.08 385.61 6A X QZFDBI=BN BN D(D)
L R SIP4HEP4 EP+ P4
R
R Strongly Hematitic-Silicified Arenite-(Arkose?)
R -brick red to dark gray in color, strongly hematitic and
R silicified with a v.f.g., aphanitic matrix, intermittent
R coarser bands (5% to 30%) from 374.74 to to 378.20 with
R coarser bands from 378.20 to 384.00 (extremely altered ar-
R kose or granite???) - sub-equigranular texture with the
R most intense hematization and silicification with scattered
R relict ch-bi-am (5%), 5% to 10% v.f.g. arenite bands
R
R -well developed banding varying from 73 to 114 dca, in-
R crease in thin qs from 378.20 to 384 (3% to 5%) hosted in
R the intensely hematitic-silicified section, overall, occas-
R sional to widely scattered qs/qcs with associated epidote
R varying < 1% to locally to 5%.
R
R -occassional to widely scattered pyrite grains/cubes (up to

R 1%, locally), weakly to moderately magnetic (< 1% to 2%)
R with increase in magnetic susceptibility from about 366 to
R 374 and locally strong magnetics at 378 (2% to 3% mg)
R
R contact - gradational decrease in hematite and silicifica-
R tion
R
R
P 385.61 390.23 6A X QZFDBI1BN BN B. D)
L 2A HEQ=
R
R Arenite
R -dark gray color, arenaceous being v.f.g. and aphanitic
R with a composition of qz-fd-bi, biotite varies from 5%
R to 15% as v.f.g. foliated grains, local increased sericite
R along shear planes in strongly sheared arenite from 389.25
R to 389.42 - shears are approximately 70 dca, intermittent
R he staining along fractures and bands up to 10 cm wide -
R overall 5%
R
R -moderately banded/foliated varying from 82 to 110 dca,
R occassional qs/qcs (1%)
R
R -occassional to very widely scattered pyrite (< 1%) grains/
R cubes
R
/END
R



DDH: 505-04
LOCATION: 21800E 9025N
AZIMUTH: 180°
DIP: -45°
DEPTH: 284.03m
CORE SIZE: NQ
MAGNETIC DECLINATION: 4°W

DRAWING #8

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER PROPERTY
LOCATION PLAN MAP
DDH 505-04

DATE: DEC. 95	ORIG BY: DRAWN BY: FDA	DWG NO. DHLOCMAP.DWG G:\ACADDWGS\505
SCALE: 1:2500	NTS REF. 43C/12	

*** WHITE RIVER ***
PLACER DOME CANADA INC.

Drill Hole: 0505-004

Date: 21st Dec, 1995
Northing : 9025.00
Easting : 21800.00
Elevation : 0.00
Hole Depth : 284.03mt

Grid Azimuth: 0.00
Coord System:

Project ID : 505
Core Size : NQ
Date Logged : 29JUL95
Logged By : SNR
Assisted by :
Drillers : BRAD
Drill date : JUL95
Rig Type :
Drill Time :
Print Template : GTRAN001.FMT

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	180.00	-45.00
41.00mt	182.00	-46.00
140.00mt	188.00	-47.00
188.00mt	187.00	-46.20
239.00mt	190.00	-46.20
284.03mt	190.00	-44.80

From	To	Geology
0.00	3.00	Overburden
3.00	136.50	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Massive, Foliated, Banded
136.50	143.48	Sandstone, Gray, Quartz (general), Feldspars (general), Epidote, Biotite, Banded
143.48	149.93	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Banded
149.93	150.38	Feldspar Porphyry (FP), Gray, Quartz (general), Feldspars (general), Porphyritic
150.38	151.70	Flows (unsubdivided), Green, Chlorite, Feldspars (general), Amphiboles (general), Massive
151.70	152.30	Feldspar Porphyry (FP), Gray, Quartz (general), Feldspars (general), Epidote, Porphyritic
152.30	158.11	Pillowed Flows, Green, Feldspars (general), Quartz (general), Epidote, Banded
158.11	158.75	Feldspar Porphyry (FP), Gray, Quartz (general), Feldspars (general), Sericite, Porphyritic
158.75	189.58	Greywacke, Gray, Feldspars (general), Chlorite, Amphiboles (general), Biotite, Banded
189.58	194.57	Volcaniclastic, Greywacke, Gray, Chlorite, Feldspars (general), Epidote, Banded
194.57	220.15	Mafic Dyke (incl Diabase), Black, Feldspars (general), Amphiboles (general), Pyroxenes (general), Biotite, Equigranular
220.15	228.50	Sandstone, Arkose, Green, Quartz (general), Feldspars (general), Calcite, Banded
228.50	239.26	Arkose, Gray, Quartz (general), Feldspars (general), Epidote, Biotite, Banded
239.26	243.90	Volcaniclastic, Green, Chlorite, Amphiboles (general), Epidote, Calcite, Biotite, Banded
243.90	254.94	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Garnet, Banded
254.94	256.08	Granite, Pink, Feldspars (general), Quartz (general), Epidote, Chlorite, Porphyritic
256.08	284.03	Sandstone, Gray, Quartz (general), Feldspars (general), Epidote, Biotite, Banded, Massive
284.03		** END OF HOLE **

White River DDH 0505-004 Detailed Remarks

R Starting Date: July 26, 1995
R Completion Date: July 29,1995
R Drill Contractor: Bradley Bros. Limited
R
R Logged by: Stephen Roach
R Log completed: August 5, 1995
R
R Casing: 3.0 meters (left in the hole)
R
R Coordinates (Lac Grid) - Line 3100 E
R Station 25 N
R
R Coordinates (Placer Dome Grid) - Line 21800 E
R Station 9025 N
R
R Survey Co-ordinates - UTME: 588953.09
R UTMN: 5391274.09
R Elev: 359.49 metres (asl)
R
R Claims Drilled: SSM 607768
R
R Core Storage: Cedar Lake Camp
R

P 0.00 3.00 OVBDX
L
R Overburden - sand
R

P 3.00 136.50 6A X QZFDBI2MXFO FO86 D) Q*
L 2A QZQ=EP?= BN BN83 Q=
R
R Biotitic Arenite
R
R -gray to dark gray color, areanaceous with a composition
R of qz-fd-bi with 15% to 25% disseminated and weakly folia-
R ted biotite, scattered v.f.g. garnets (up to 3%) with a
R general decrease with depth towards 136.50, intermittent
R scattering of sh, white barite? xtls (< 0.10 to 0.40 cm
R in size) from 10.60 to 14.40 (1% to 2%), 36.20 to 37.50
R (1% to 2%), 39.20 to 41.50 (1% to 5%), 71.00 to 72.00
R (1% to 2%), and from 80.30 to 86.25 (10% to 20%).
R

R -scattered silicified zones consisting of disseminated and
R fracture-filled epidote varying from 5% to 10%, si zones
R have a bleached appearance with peripheral, diffuse frac-
R ture-filling, v.f.g. and aphanitic, these silicified zones
R show gradational contacts with the arenite and are found
R from 42.10 to 43.20, 90.60 to 91.78, 101.75 to 102.90,
R 110.95 to 111.40, 121.25 to 121.60, and 128.25 to 130.60.
R
R -arkosic with 10% to 15% rounded fd > qz lithic xtls from
R 57.83 to 58.49 - gradational upper and lower contacts
R
R -weakly foliated and banded 60 to 125 dca with banding more
R prominent from 111.00 to 136.50, occassional to locally
R scattered qs/qcs (1% to locally 5%) - up to 10 cm wide.
R
R -occassional to scattered pyrite (< 1% to locally 5%)
R grains/cubes, increase in pyrite (averages 1% to 2%) from
R 93.70 to about 135.00 with pyrite occurring as scattered
R cubic grains, weakly magnetic with increase in mg to 1%
R at 93.00, 103.50 to 105.50, at 126.00, and at 130.00
R
R contact - gradational contact
R
R

PSIF 136.50 143.48 6A X QZFDEP=BN BN70 D*
L 2A QZP4EP?= BI= P4
R
R Silicified-Kspar Altered Arenite
R
R -bleached gray to grayish-green color, strong, pervasive
R silicified alteration in the matrix, occurrences of epidote
R in the matrix and as fracture-filling varying < 1% to 10%),
R possible feldspar alteration??? from about 141.80 to 143.20
R as light pinkish-gray bands containing ghost fd xtls??,
R thin (up to 3.0 cm wide) calc-silicate bands from 139.70
R to 143.48 that have been possibly feldspathized? - 5% to 7%
R
R -relict banding/laminations varying from 65 to 75 dca,
R occassional to widely scattered qs/qcs (1%)
R
R -occassional to scattered pyrite grains/cubes varying from
R < 1% to locally 2%, gradational decrease in pyrite from
R 138.62 with py up to 1%
R
R contact - gradational contact

R
R
P 143.48 149.93 6A X QZFDBI=BN BN88 B. B.
L 1A
R
R Arenite
R
R -very dark gray color, v.f.g and aphanitic matrix consist-
R ing of qz-fd-bi-am-ch with coarser bands of fd-am-ch -
R bands are up to 3.0 cm wide, these coarser bands may re-
R present arkosic/greywacke bands.
R
R -well developed banding/bedding varying from 58 to 108 dca
R with increasing core angles with depth, scattered qs/qcs
R (1% to 2%) up to 3.0 cm wide.
R
R occassional to locally widely scattered pyrite grains/cubes
R < 1%, non-magnetic
R
R contact - sharp contact 100 dca
R
P 149.93 150.38 14B X QZFD PP C/90 B.
L 8A
R
R Feldspar Porphyry
R
R -light gray color, felsic composition with 20% to 30% f.g.
R to m.g. (< 0.10 to 0.20 cm in size) feldspar phenocrysts
R in a v.f.g and aphanitic qz-fd matrix.
R
R -porphyritic texture, 5% qs with associated epidote
R -occassional grain of pyrite (< 1%)
R
R contact - sharp contact 90 dca.
R
R
P 150.38 151.70 3A X CHFDAM1MX BN D)
L G
R
R Intermediate to Mafic Flow
R
R -light green to green color, intermediate to mafic in com-
R position being moderately chloritic - composition of ch-fd-
R am-(ep), moderate to strong epidote alteration of the ma-
R trix between 151.50 and 151.70

R
R -occassional band 101 dca, scattered qs/qcs varying aver-
R aging 5% of the section
R -widely scattered to scattered v.f.g pyrite cubes varying
R 1% to locally 2%, non-magnetic
R
R contact - sharp contact 112 dca.
R
R
R _____
P 151.70 152.30 14B X QZFDEP1PP D.
L 8A
R
R Feldspar Porphyry
R
R -similar in description to section from 149.93 to 150.38
R with...
R
R 1) scattered, v.f.g. epidote grains (5% to 10%) in matrix
R
R contact - sharp contact 115 dca.
R
R
R _____
P 152.30 158.11 3A2 X FDQZEP=BN BN D)
L 5G EPD= C/92
R
R Intermediate to Mafic Pillowed Flows
R
R -green color, intermediate to mafic in composition being
R epidotitic with disseminated grains and fracture-filling,
R varies between 5% and 10%.
R
R -well banded v.f.g and aphanitic hyaloclastite interflow
R metasediment 105 to 107 dca, well developed chilled pillow
R selvages, overall, v.f.g. and aphanitic, 8% thin (1.0 to
R 3.0 cm wide) feldspar porphyry dykes/sills from 154.00 to
R 155.00.
R
R -occassional to scattered v.f.g. pyrite cubes varying < 1%
R to local 2%
R
R contact - sharp contact 92 dca.
R
R
R _____
P 158.11 158.75 14B X QZFDSE=PP D(
L 8A SEE= E=

R

R Feldspar Porphyry

R

R -light gray color, felsic in composition with a v.f.g. and
R aphanitic matrix about 30% to 35% f.g. to m.g. (0.10 to
R 0.20 cm in size) white feldspars, weak sericite altered
R matrix as sinuous, irregular seams

R

R -porphyritic texture, occassional qs < 1%.
R -occassional pyrite grain (1%)

R

R contact - sharp contact 123 dca

R

R

158.75 189.58 6D X FDCHBI+BN BN D*B. Q)
L 1A AM

R

R Greywacke

R

R -gray to dark gray color, composition comprises of fd-ch-bi
R -qz in a v.f.g. and aphanitic matrix, coarser fd-am-ca
R bands varying from < 1.0 to 12.0 cm wide from 158.75 to
R 166.00 and from 174.00 to about 184.00 - comprise 15% to
R 20% of both these sections, may represent calc-silicate

R

R -well developed banding varying from 90 to 135 dca, Z-drag
R fold with axial plane 70 dca at 186.00, occassional to lo-
R cal increasesin qcs/qs with the overall average being 1%
R to 4%

R

R 167.06 to 167.64 - Fracture Zone, dark gray/green color,
R moderately fractured with 15% to 20%
R qcs/qs, vn matte consists of qz-ca-ep
R with v.f.g. 5% py > po grains in ep-ca
R altered wallrock.

R

R -occassional to locally scattered v.f.g. pyrite grains/
R cubes with the overall average up to 1%, local increase
R in py > po in the fracture zone from 167.06 to 167.64,
R weakly magnetic with moderate to locally strong magnetics
R from 162 to 164 and from 167 to 176 (1% to 3% mg)

R

R contact - gradational contact

R

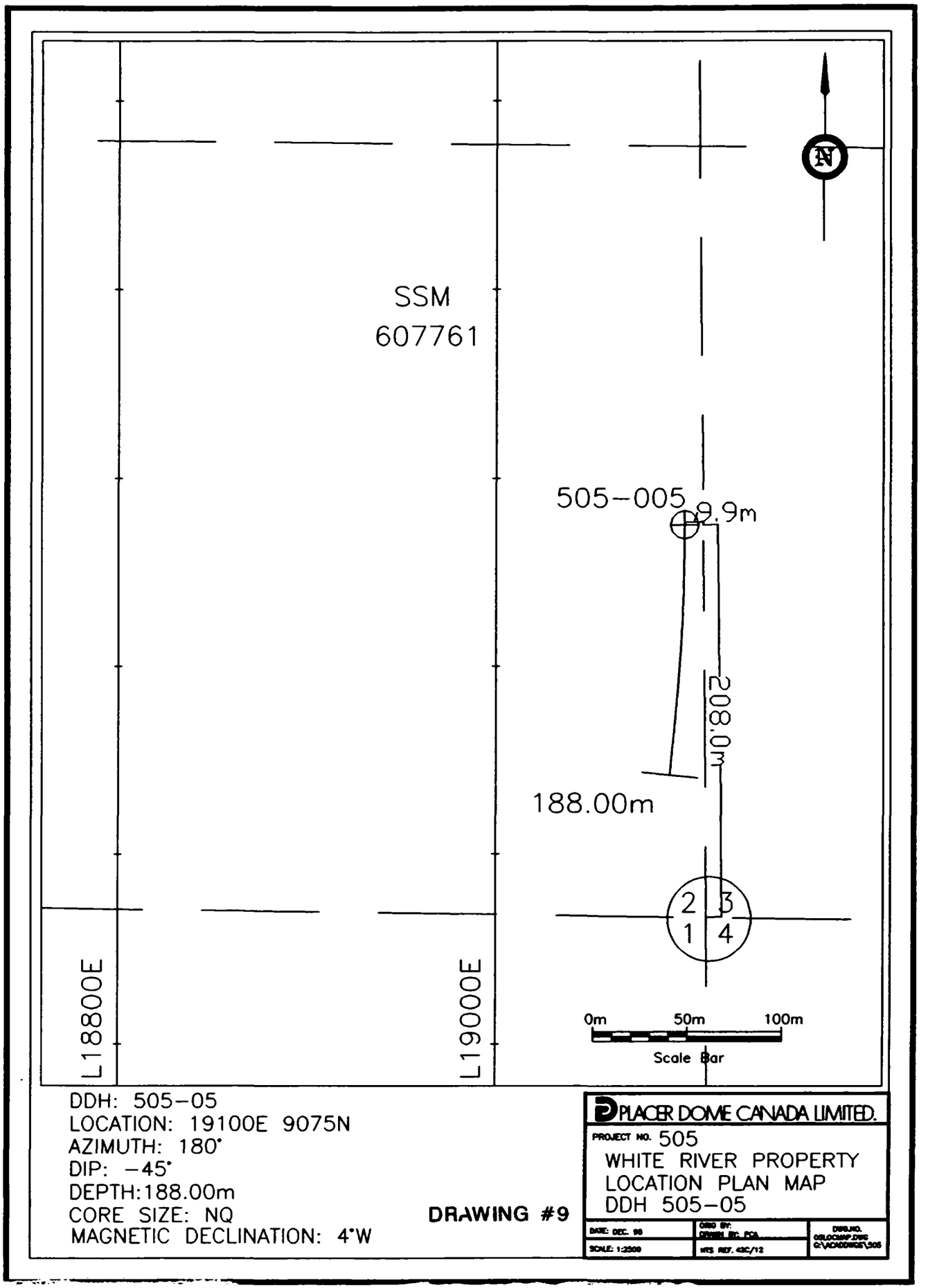
R

```
P   189.58 194.57   3B5 56D  5CHFDEP=BN     BN87    D(          D*
L              A QZQ2                        Q2
R
R              Intermediate to Mafic Volcaniclastic/Greywacke (partially
R              silicified)
R
R              -green gray, and reddish to pinkish-gray colors, intermed-
R              iate to mafic composition with weak to moderate ch, compos-
R              ition comprises of ch-fd-ep-bi-ca-qz in a v.f.g. matrix,
R              increased silicified sections from 189.58 to 190.11 and
R              from 192.46 to 194.57 - silicification occurs in banded-
R              form varying 10% to 30% with associated disseminated and
R              minor fracture-filled epidote
R
R              -diffuse to well banded 80 to 90 dca between altered silii-
R              cified sections with unaltered intermediate to mafic sec-
R              tions, occassional to widely scattered qs/qcs (< 1% to 3%)
R
R              -occassional to widely scattered pyrite grains < 1%, in-
R              crease in magnetics from 193 to 194.57 - up to 1% mg
R
R              contact - sharp and broken
R
R              ____________________________________________________________
P   194.57 220.15   16A4X    FDAMBI=EQ     C/45    B.          D+
L              N        PX
R
R              Diabase
R
R              -very dark gray to black color, mafic composition being
R              v.f.g. and aphanitic, mineralogy comprises of fd-am-px-ch-
R              bi-ep
R
R              -v.f.g. equigranular texture, occassional qs < 0.5%, frac-
R              tured from 202.30 to 205.00 with ch fractures & broken core
R
R              -barren to occassional py (< 1%), strongly magnetic with
R              2% to 3% scattered magnetite grains
R
R              contact - sharp contact 45 dca with well developed chill
R                    margins at upper and lower contacts
R              ____________________________________________________________
PSIF 220.15 228.50   6A  56C  5QZFD   BN      BN97    D*
L              G QZP3EP?=  CA+                    P3
R
```

R Silicified-Kspar Altered Arenite/Arkose
R
R -muddy to reddish-gray color, strongly silicified section
R with v.f.g. and aphanitic arenites, interbanded/interbedded
R with coarser feldspathic arkose - arkose is composed of
R 15% to 20% white and rounded fd xtls (< 0.10 cm in size),
R interbands/interbeds most prolific from 222.00 to 227.30,
R arkosic bands are up to 0.30 meters wide, weak he stain
R
R -well developed banding/bedding between 60 and 120 dca, oc-
R cassional qcs/qs varying < 1% to 10% with weak to moderate
R ep-ca along fractures and along banding/bedding planes, up
R to 5% epidote as scattered grains
R
R -occassional to widely scattered pyrite grains/cubes < 1% -
R local 1% pyrite, non-magnetic with local 1% to 1.5 mg at
R 224
R
R contact gradational decrease in silicification
R
R
P 228.50 239.26 6C X QZFDBI=BN BN63 D*
L A QZQ1 EP C/75 Q1
R
R Arkose/Arenite
R
R -gray, dark gray, and reddish to greenish-gray colors,
R composition of qz-fd-bi-ep-ca with < 5% biotite, gradation-
R al increase in silicfication and epidote alteration from
R 236.00 to 239.26 with intense si-ep from 239.00 to 239.26,
R widely scattered epidote grains < 1% to 5%, scattered
R v.f.g. fd lithic xtls (< 0.05 to 0.10 cm in size)
R
R -well developed banding/bedding 50 to 70 dca, occassional
R to locally scattered qs/qcs (< 1%)
R
R -occassional to increasingly scattered pyrite from 236.00
R to 239.26 (1%) - occur as scattered grains/cubes
R
R contact - sharp contact 75 dca.
R
R
P 239.26 243.90 3B5 X CHAMCA+BN BN83C/90 D)
L G QZQ1 EPBI+ FO62 Q1
R

R Intermediate to Mafic Volcaniclastic
R
R -green and reddish-gray color, intermediate to mafic in
R composition with moderate chlorite with associated am-ca,
R carbonate is in the form of calcite hairline fractures,
R scattered epidote grains (5%), gradationally more silici-
R fied from 242.06 to 243.90 with the more intense si-ep
R alteration from 243.23 to 243.90.
R
R -banded 65 to 90 dca, scattered qcs/qs (1% to 3%), 1% to 5%
R epidote fracture-filling and epidote is ubquituous to the
R qcs
R
R -occassional to scattered v.f.g. pyrite grains/cubes vary-
R ing from < 1% to locally 2%
R
R contact - sharp contact 90 dca
R
R
P 243.90 254.94 6A X QZFDBI1BN BN72C/88 D) D)
L 2A GA) FO83 U)
R
R Arenite
R
R -dark gray to gray in color, arenaceous with a composition
R of qz-fd-bi-ch as a v.f.g. matrix - foliated biotite,
R gradational ga sections from 246.60 to 247.65 and from
R 249.20 to 249.80 with 5% to 10% garnets (up to 0.40 cm in
R size), minor intermediate to mafic band from 245.10 to
R 245.32, widely scattered ep (< 5%),
R
R -occassional arkosic bands with 5% v.f.g. to f.g. fd lithic
R xtls, well developed banding 65 to 75 dca with S-drag fold
R at 247.60 - axial plane 75 dca, scattered qs/qcs varying
R < 1% to 3%
R
R -occassional to scattered v.f.g. pyrite varying from < 1%
R to 2%, py occurs as grains/cubes
R
R contact - sharp contact 88 dca.
R
R
P 254.94 256.08 12A2X FDQZCH1PP B. D)
L I EP
R

```
R           Granite/Granodiorite
R
R           -pink to pinkish-gray color, felsic composition with 15% to
R           20% fd in a v.f.g. qz-fd matrix, scattered v.f.g. 10%
R           chlorite-epidote grains
R
R           -sub-porphyritic to equigranular texture, occassional qs
R           (< 1%)
R
R           -barren to occassional py (< 0.5%), moderately magnetic
R           with 1% to 2% mg.
R
R           contact - sharp contact 105 dca.
R
R           ____________________________________________________________
P  256.08 284.03  6A X   QZFDBI=BNMX   BN93   D*        D(
L           2A QZX1  EP                  X1
R
R           Arenite
R
R           -dark gray color, v.f.g. and aphanitic matrix of qz-fd-bi
R           with epidote, scattered v.f.g. light green fd and /or ep
R           grains from 265.40 to 284.03 (10% to 20%), increased silic-
R           ification from 270.00 to 273.13 in banded-form varying from
R           5% to 20% - bands are up to 5.0 cm wide.
R
R           -intermediate to mafic volcaniclastic? band from 273.40 to
R           274.05 being moderately ch-ep-am and foliated
R
R           -banding/bedding varies from 81 to 105 dca with a massive
R           texture from 274.05 to 284.03, occassional to scattered
R           qs/qcs (1% to 2%)
R
R           -occassional to scattered v.f.g. pyrite grains/cubes vary-
R           ing from , 1% to locally 2%, non-magnetic to locally weakly
R           magnetic at 261 & 267
R
/END
```



DDH: 505-05
LOCATION: 19100E 9075N
AZIMUTH: 180°
DIP: -45°
DEPTH:188.00m
CORE SIZE: NQ
MAGNETIC DECLINATION: 4°W

DRAWING #9

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER PROPERTY
LOCATION PLAN MAP
DDH 505-05

DATE: DEC. 98	DRG BY: DENNIS ST. PDA	DWG NO. GSLOCMAP.DWG G:\ACADDWGS\505
SCALE: 1:2500	NTS REF. 43C/12	

*** WHITE RIVER ***
PLACER DOME CANADA INC.

Drill Hole: 0505-005

Date: 21st Dec, 1995
Northing : 75.00
Easting : 500.00
Elevation : 0.00
Hole Depth : 188.00mt

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	180.00	-45.00
56.00mt	182.00	-44.20
120.00mt	185.00	-45.00
188.00mt	185.50	-46.00

Grid Azimuth: 0.00
Coord System:

Project ID : 505
Core Size : NQ
Date Logged : 02AUG95
Logged By : SNR
Assisted by :
Drillers : BRAD
Drill date : JUL95
Rig Type :
Drill Time :
Print Template : GTRAN001.FMT

From	To	Geology
0.00	3.00	Casing
3.00	23.20	Argillite, Green, Chlorite, Biotite, Garnet, Banded, Foliated
23.20	28.84	IRON FORMATION, Sandstone, Blue, Quartz (general), Chlorite, Biotite, Garnet, Banded
28.84	40.13	Argillite, Green, Chlorite, Biotite, Garnet, Porphyroblastic
40.13	87.38	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Garnet, Banded, Foliated
87.38	98.38	Greywacke, Green, Feldspars (general), Chlorite, Biotite, Banded
98.38	107.00	Sandstone, Pinkish-gray, Quartz (general), Hematite, Epidote, Laminated
107.00	113.58	Greywacke, PORPHYRITIC FELSIC INTRUSIVE (Old - Late), Green, Chlorite, Feldspars (general), Epidote, Quartz (general), Biotite, Banded
113.58	145.53	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Banded, Foliated, Porphyroblastic
145.53	156.20	Sandstone, Gray, Quartz (general), Sericite, Feldspars (general), Biotite, Banded, Foliated
156.20	171.88	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Epidote, Foliated, Banded
171.88	176.00	Sandstone, Gray, Quartz (general), Feldspars (general), Epidote, Biotite, Banded
176.00	179.04	Feldspar Porphyry (FP), Sandstone, Pinkish-gray, Feldspars (general), Quartz (general), Biotite, Epidote, Porphyritic
179.04	180.61	Sandstone, Argillite, Gray, Quartz (general), Feldspars (general), Amphiboles (general), Biotite, Chlorite, Banded, Foliated
180.61	186.03	Flow (unsubdivided), Green, Chlorite, Biotite, Feldspars (general), Massive, Foliated
186.03	188.00	Greywacke, Volcaniclastic, Green, Chlorite, Feldspars (general), Biotite, Garnet, Banded, Foliated
188.00		** END OF HOLE **

White River DDH 0505-005 Detailed Remarks

R Starting Date: July 29, 1995
R Completion Date: July 31, 1995
R Drill Contractor: Bradley Bros. Limited
R
R Logged by: Stephen Roach
R Log Completed: August 11, 1995
R
R Casing: 3.0 meters (left in hole)
R
R Coordinates (Lac Grid) - Line 4400 E
R Station 1050 N
R
R Coordinates (Placer Dome Grid) - no Placer Dome Grid
R approximate coordinates Line 19100E
R Station 9075N
R
R Survey Coordinates - UTME: 586348.83
R UTMN: 5391234.27
R Elev: 343.40 metres (asl)
R
R Claims Drilled: SSM 607761
R
R Core Storage: Cedar Lake Camp
R

P 0.00 3.00 CSNGX
L
R Overburden - sand
R

PCH 3.00 23.20 6B X CHBIGA)BNFO BN95 D*D* ?- D- D*
L G CHJ2 FO91 J2U)
R
R Pelitic Argillite/Argillite
R
R -green to grayish-green color, varaible moderate to locally
R strong ch alteration with a general decrease in ch altera-
R tion with depth, intermittent bands of scattered garnets
R varying 2% to 3% from 3.00 to 14.85 with an increase in ga
R (5% to 10%) from 22.50 to 23.20, 10% to 20% v.f.g. foliated
R biotite throughout this section.
R
R -v.f.g. and aphanitic felsic bands (up to 28 cm wide) from

R 15.60 to 17.20 - consists of 85% of this section, hosts
R 5% foliated biotite.
R
R -weak to moderately banded/foliated varying from 85 to 105
R dca, occassional to scattered qs/qcs up to 5% (up to 5.0 cm
R wide)
R
R 8.85 to 9.15 - Fracture Zone (Quartz-(Carbonate) Stockwork)
R - 50% qcs vn matte with adjacent strongly ch-
R bi altered wallrock, 5% to 10% retrograde
R black am with associated ca, 5% to 7% dis-
R seminated po > aspy in vn matte and vn/wall-
R rock contact.
R
R -occassional v.f.g. po-py-(aspy)-(mo)-(cpy) mineralization
R throughout this section with local increases in sulphides,
R as from 8.85 to 9.15 with 5% to 7% po and aspy, observed
R mo in discrete, undeformed qs/qcs < 1%, po-py are commonly
R foliated
R
R contact - gradational increase in mg from 22.00 to 23.20 &
R sharp contact107 dca
R
R
P 23.20 28.84 7 76A 3QZCHBI=BN BN87 D* B(L=
L B GA) C/65
R
R Silicate Facies Iron Formation/Magnetiferous Arenite
R
R -alternating black, dark green, and dark gray colors, sili-
R cate facies IF from 23.20 to 24.45 and from 26.40 to 28.84,
R magnetiferous, biotitic arenite from 24.45 to 26.40, IF
R consists of alternating black, massive magnetite bands and
R magnetiferous chloritic-(amphibolitic) bands, arenite con-
R sists of granular/granoblastic qz-fd-bi (15% to 20% foliat-
R ed biotite), local 5% garnets from 26.60 to 26.80
R
R -well developed banding/laminations varying from 82 to 95
R dca, occassional to scattered qs/qcs up to 5% (< 4.0 cm
R wide)
R
R -occassional to widely scattered v.f.g. py-(aspy) grains,
R sulphides commonly occur as foliated grains and wispy
R grains, strongly magnetic with the exception to the arenite
R unit (moderately magnetic).

R
R contact - sharp contact 65 dca.
R
R

PCH 28.84 40.13 6B X CHBIGA1PB BN87 D*B-U*?. D/ D-
L 2G CHJ3BIJ1 FO76 J1 J3U1
R
R Pelitic Argillite
R
R -green to dark green color, moderately to strongly ch with
R associated biotite, scattered 5% to locally 10% garnets
R giving a sub-porphyroblastic texture, local barite? (i.e.
R at 30.60) and possibly kyanite (< 1%?), scattered bladed
R to prismatic light green to brown am xtls (10% to 15% in
R local bands).
R
R -weakly banded/foliated 61 to 100 dca, occassional to scat-
R tered qs/qcs (1% to 2%)
R
R -occassional to widely scattered py-(aspy) grains with sul-
R phides commonly occurring as foliated grains.
R
R contact - gradational decrease in chlorite and increase in
R qz-fd in the matrix
R
R

P 40.13 87.38 6A X QZFDBI2BNFO BN85 D* U*B. B.
L 3A QZJ=EP?+ GA(FO86 U(Q)J=
R
R Arenite
R
R -medium gray to pinkish and pistachio-gray color, arena-
R ceous with a composition of qz-fd-bi-ch-ep grains giving
R a graular/granoblastic texture, scattered 5% to 10% ga from
R 40.13 to 42.20 with a gradual decrease from 42.20 - garnets
R are up to 0.30 cm in size, disseminated Kspar grains in the
R matrix from about 64.00 to 87.38 varying from 15% to 40% -
R detrital or hydrothermal???? and may occur as intermittent
R bands.
R
R -intermittent sections from 41.80 to 59.40 with up to 2% to
R to 10% bladed sillimanite-kyanite and brown dolomite/barite
R ??, these sections range from 6 cm to 60 cm in width and
R are between 0.30 to 0.40 cm in size, intermittent sections
R of weak to locally strong silicification with he-ep-(ca)

R from 71.90 to 87.38 varying in thickness from 6.0 to 60.0
R cm, overall, comprise between 10% and 15% over 1.0 meter
R sections, alteration occurs as bands.
R
R -banded/laminated intermediate to mafic volcaniclastic from
R 64.00 to 65.12 with minor, thin (up to 15 cm wide) bands
R from 69.95 to 71.40, both sharp and gradational contacts.
R
R -foliated from 40.13 to about 63.00 varying 81 to 94 dca,
R banded from about 63.00 to 87.38 varying from 75 to 95 dca,
R occassional to scattered qcs/qs (1% to 5%) and are to 25 cm
R wide.
R
R 72.42 to 72.50 Feldspar Porphyry - light gray color, fel-
R 77.45 to 77.58 sic composition with
R 77.89 to 78.00 20% fd giving a porp.
R 78.14 to 78.24 texture, fd display a
R 80.43 to 80.50 prominent fabric, porp
R texture, occassional
R to scattered py < 1%
R to 3% (i.e 72.42 to
R 72.50 has 2% to 3% py)
R -sharp contacts varying 55 to 105 dca
R
R 83.67 to 83.75 Pegmatite - pinkish-white color, felsic
R 87.12 to 87.38 composition with m.g. to c.g.
R 88.10 to 88.18 K-spar-qz, up to 5% hairline
R qs, scattered mo > py up to 1%
R -sharp contacts varying 50 to 110 dca
R
R 57.90 to 58.45 - Fracture Zone, gray color, host is arenite
R with m.g. to c.g. sillimanite-kyanite-dol-
R omite/barite? varying 5% to 7%, 20% to 25%
R qv/qcv lenses/stringers with vn/stringers
R containing disseminated py-aspy with minor
R cpy - 5% in vn/stringers and 1% to 2% in
R overall section.
R
R -occassional to widely scattered pyrite with the overall
R average of this section < 1%, local increase in concentra-
R tions coincide with increased alteration as in qz-he-ep-ca
R with scattered cubes of pyrite (1% to 2%), overall, non-
R magnetic to weakly magnetic, increase in magnetics from a-
R bout 82.00 to 87.38 with strong magnetism at 87.00 (2% to
R 3% mg)

R
R contact - sharp contact with a pegmatite dyke from 87.12 to
R 87.38 50 dca, gradual increase in ch towards
R 87.38
R
R
P 87.38 98.38 6D X FDCHBI1BN BN82 D* D*
L G QZQ+ Q+
R
R Greywacke
R
R -green to grayish-green color, v.f.g. and aphanitic compos-
R ition of fd-ch-bi-qz-(ep)-(he) as a granular/granoblastic
R matrix, occassional silicified bands with weak to moderate
R he stain - these bands are up to 1% to 2% of this section,
R
R -well developed banding varying from 77 to 97 with an in-
R flection in banding/bedding at 95.90, 35 dca, scattered qs
R and qcs varying < 1% to 2% with associated ep
R
R -occassional to scattered v.f.g. pyrite grains/cubes avera-
R ging < 1%, local sections up to 1%, py is generally folia-
R ted, weakly magnetic with locally up to 1% magnetite grains
R
R contact - gradational increase in pinkish to reddish-gray
R silicification-hematite alteration
R
R
PSHE 98.38 107.00 6A X QZHEEP1LM BN85 D) D)
L PGQZP2HET2 C/80 P2
R
R Silicified-Hematitic Arenite
R
R -reddish-gray, blood red, green, and black color, overall,
R moderate to strongly silicified/hematitic, scattered v.f.g.
R epidote grains varying < 1% to 10%, occassional to widely
R scattered relict bi-ch in the matrix, weakly to (moderate-
R ly) silicified and hematititc from 101.20 to 103.00 and
R from 104.81 to 106.34
R
R -silicate facies IF from 102.70 to 103.00 with interlamina-
R ted massive magnetite and magnetiferous chloritic bands.
R
R -well developed banding/bedding/laminations varying from
R 70 to 113 dca with a general decrease in core angles with

R depth, possible M-shaped fold at 100.90 with the axial
R plane 90 dca, occassional to scattered qcs/cs/qs varying <
R 1% to 3%, locally numerous ca gash fractures and bx
R
R -scattered v.f.g. pyrite varying < 1% to 5% with < 0.5% cpy
R observed, overall average of py is approximately 1% to 2%,
R py occurs as grains/cubes and are commonly foliated, weakly
R to locally strongly magnetic with the overall average of mg
R is between 1% and 2%
R
R contact - sharp contact 80 dca.
R
R

P 107.00 113.58 6D 913 1CHFDQZ1BN BN92 D) B.
L G EPBI+
R
R Greywacke xcut by Feldspar Porphyry
R
R -greenish gray to green color, intermediate in composition
R with fd-ch-ep-bi-qz as a v.f.g. matrix, epidote occurs as
R disseminated grains (up to 5%) and as fracture filling as-
R sociated with qcs/qs, gradationally more arenaceous from
R 112.00 to 113.58.
R
R -compositionally banded/bedded 85 to 97 dca, occassional to
R locally scattered qs/qcs varying < 1% to 10% with a local
R increase in veining from 109.98 to 102.20 (5% to 10%),
R overall average 2% to 4%.
R
R 109.30 to 109.98 - Feldspar Porphyry, gray color, felsic
R composition with f.g. to c.g. (up to 0.30 cm) fd in a qz-fd
R -bi-ep matrix, 2.0 to 5.0 cm wide inclusions of greywacke,
R < 1% py, sharp 100 dca upper and 92 dca lower contact.
R
R -other thin, similar in description, feldspar porphyry
R dykes/sills from 110.82 to 110.87, 111.36 to 111.43, and
R from 112.53 to 112.63 with sharp contacts varying from 90
R to 95 dca.
R
R -occassional to scattered v.f.g. pyrite varying from < 1%
R to 5%, overall average 1%, increase in pyrite from 109.98
R to 111.20 with 2% to 5% disseminated py associated with an
R increase in ch-ep alteration and 5% to 10% qcs/qs, py is
R commonly foliated, non-magnetic section
R

R contact - gradational more arenaceous from 112.00 to 113.58
R with an increase in granular/granoblastic qz
R
R

PAS 113.58 145.53 6A X QZFDBI2BNFO BN85 B. F) B.
L 2A GAU=SIU) PB FO90 U=Q)
R
R Arenite with minor Arkose/Pelitic Argillite interbeds
R
R -gray, dark gray, grayish green colors, arenaceous composi-
R tion with a mineralogy of qz-fd-bi with a gradual increase
R in brown biotite from 120.45 to 145.53 associated with the
R aluminum-silicate alteration, minor interbeds of arkose
R and gradual contacts into more argillaceous bed throughout
R the section.
R
R -aluminum-silicate alteration comprises approximately 40%
R of this section with the occurrences of sillimanite-kyanite
R -garnet-(andalusite) in sections up to 3.7 meters wide with
R ....
R 120.45 to 121.27 - 5% to 10% ga
R 122.10 to 123.85 - < 1% to 10% do/ba? > si-ky
R 127.80 to 131.50 - 5% to 7% si-ky-ga
R 135.60 to 136.90 - 10% to 15% ga
R 137.25 to 138.06 - 5% to 10% ga
R 138.35 to 138.85 - 15% to 20% ga
R 140.90 to 142.05 - 5% to 10% ga
R 142.75 to 145.53 - < 1% to 5% si-ky-an-ga
R
R -localized sections of barite as from 125.00 to 125.70 (5%
R greenish white xtls) and within the matrix of a strong
R carbonate-altered shear from 142.05 to 142.75.
R
R -secondary epidote fracture-filling from 113.58 to 114.30
R (5% to 10%) with local bx and from 115.60 to 115.85 (up to
R 5%) with associated weak carbonate alteration
R
R -well-banded from 113.58 to about 122.00 varyng 73 to 90
R dca and from 131.90 to 141.00 71 to 90 dca, other sections
R display more a foliation varying from 80 to 100 dca, arkos-
R ic from 131.90 to 134.35 with 15% to 20% lithic fd xtls
R (< 0.05 to 0.10 cm) in 3.0 to 16.0 cm wide bands, occas-
R sional to scattered qs/qv/qcs up to 0.10 meters wide vary-
R ing < 1% to locally 5%
R

R -occassional to locally widely scattered py (< 1%) grains/
R cubes, non-magnetic with slight increase in mg (1%) from
R about 141 to 142
R
R contact - sharp contact 105 dca
R
R

PSSE 145.53 156.20 6A X QZSEBI1BNFO BN84C/75 D(D(D+ Q/
L 8A SEX3QZX2FD FO84 D1X3 U(U*X2
R
R Silicified-Sericitic Altered Arenite
R
R -light gray, gray, with minor dull to dark gray bands,
R strongly altered matrix throughout this section with strong
R silicification and/or feldspathization (weak albitization >
R sericitic alteration from 145.53 to 148.61 with a gradual
R increase to strong sericite >= silicification from 148.61
R 149.26 and from 153.27 to 156.20
R
R -biotitic arenite with scattered and foliated brown to
R black biotite varying 25% to 35% from 148.61 to 149.26, the
R other section of biotitic arenite is from 152.50 to 153.27
R -hosts 15% to 25% brown/black, foliated biotite with scat-
R tered m.g. to c.g. brown do/ba? or sp (2% to 4%) - 1% to 5%
R ba xtls and 1% to 3% ky-si aluminum-silicate xtls, v.f.g.
R barite in the interstices of the matrix and in xtl-form
R from 152.50 to 156.20 (1% to 5%?)
R
R -well banded/laminated/sheared texture varying from 79 to
R 100 dca, general decrease in core angles with depth, occas-
R sional to scattered qs/qcs varying < 1% to 10%, increase in
R veining/stringers from 149.26 to 151.00 with the average
R between 10% and 12%
R
R -occassional to scattered py-po grains with the overall
R section being < 1%, localized sections of 1% sulphide as
R from 148.61 to 149.26, non-magnetic section with slight
R increase in mg (1% to 2%) from 148.61 to 149.26
R
R contact - sharp contact 75 dca.
R
R

P 156.20 171.88 6A X QZFDBI2FOBN FO77 D-D-U* D*
L 2A BID1 EP* BN81 X) D1 U(U(
R

R Biotitic Arenite
R
R -dark gray to gray color, arenaceous being moderately bio-
R tiferous in a v.f.g. qz-fd granular/granoblastic matrix,
R 20% to 30% brown to blackish-brown biotite from 156.20 to
R about 161 - gradually the biotite becomes increasingly
R black in color after 161.00, gradual increase in v.f.g.
R and aphanitic silicification (weak to moderate) with < 5%
R biotite from 167.45 to 171.88.
R
R -baritic with weak aluminum-silicate alteration from 156.20
R to about 160.00, barite occurs within the interstices of
R the matrix and as scattered xtls (5%) with aluminum-sili-
R cate alteration consisting of 1% to 5% ky-si-(ga)-(an) xtls
R
R -5% calc-silicate bands (2.0 to 6.0 cm in width) from 163.9
R to 167.15, calc-silicate consists of f.g. to m.g. foliated
R chloritic amphibole and amphibole in a v.f.g. and aphanitic
R feldspathic matrix.
R
R -foliated from 156.20 to about 166.00 varying 70 to 82 dca,
R banded/bedded from about 166.00 to 171.88 varying from 75
R to 90 dca, occassional to scattered qs/qv/qcs averaging 3%
R to 5% - qs/qv/qcs up to 0.17 meters wide
R
R -occassional to locally scattered, foliated pyrite grains
R < 1%, non-magnetic to weakly magnetic with increase in mg
R to about 1% from 164.00 to 168.00.
R
R contact - gradational increase in silicification from
R 167.45 to 171.88
R
R
PSI 171.88 176.00 6A X QZFDBI=BN BN85 D(D*
L 3A QZP3HEQ=EP C/70 P3
R
R Silicified Arenite
R
R -dull gray to pinkish and reddish-gray colors, moderately
R to strongly silicified in a v.f.g. and aphanitic matrix,
R < 1% to 5% relict black biotite, scattered thin seams (up
R to 1.0 cm wide) of intense he stain (< 1% to local 5%),
R scattered v.f.g. light green, scattered ep and/or fd 5% to
R 10%.
R

R -banded 80 to 90 dca, scattered qs/qcs with associated ep
R fracture-filling varying from 1% to 5%
R
R -occassional to very widely scattered py < 1%, weakly
R magnetic with mg up to 1%
R
R contact - sharp contact 70 dca
R
R

P 176.00 179.04 14B 86A 2FDQZEP1PP BN82 D- D(
L PG BI C/72
R
R Feldspar Porphyry with Silicified Arenite Xenoliths
R
R -pinkish gray to gray color, felsic in composition with
R 25% to 35% f.g. to c.g. (up to 0.30 cm in size) fd in a
R v.f.g. quartz-feldspathic matrix, fd phenocrysts are zoned
R with pink calcite (does not test positive for Kspar with
R thw stain, scattered v.f.g. light green ep (5% to 10%) and
R contains 2% to 4% biotite
R
R -porphyritic texture, contains 10% silicified inclusions
R from 176.00 to 178.25 with 30% feldspar porphyry dykes
R from 178.25 to 179.04 xcutting silicified arenite
R -occassional qs/qcs in FP with 10% qcs with epidote from
R 178.25 to 179.04
R
R -occassional py grain (< 0.5%), weakly magnetic with < 1%
R mg.
R
R contact - sharp contact 72 dca.
R
R

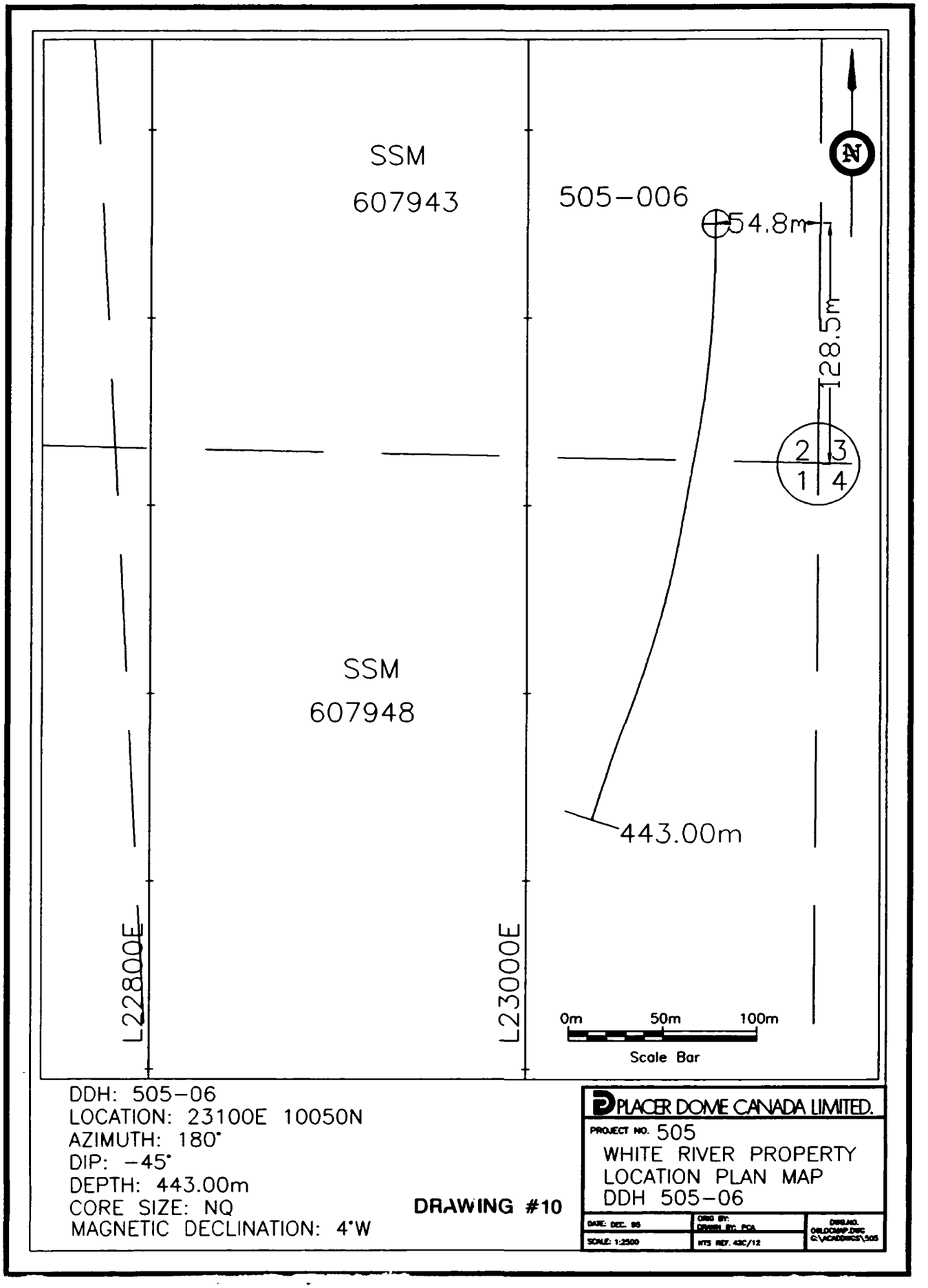
P 179.04 180.61 6A 96B 1QZFDBI1BNFO BN71C/60 D(D(
L A AMCH= FO70
R
R Arenite with minor Argillite
R
R -gray, pinkish white, and green color, arenaceous for the
R most part with weak to locally moderate silicification,
R pinkish-white bands from 179.04 to 179.48 (up to 17 cm
R wide) may represent a granitic/pegmatitic intrusive? - com-
R posedof fd-qz with 5% c.g. xtls of am and ep-ch-altered am,
R 15% strongly chloritic bands from 179.48 to 180.61
R

R -well developed banding/foliation 70 to 72 dca, < 1% to
R 3% qs/qcs throughout the section
R
R -occassional to very widely scattered v.f.g. pyrite (< 1%),
R weakly magnetic with up to 1% magnetite
R
R contact - sharp 60 dca
R
R

P 180.61 186.03 2A X CHBIFD1MXFO FO76 U* D*
L G
R
R Mafic to Ultramafic Flow
R
R -green to dark green color, moderately to strongly chlori-
R tic with up to 5% black biotite, 5% to 10% v.f.g. feldspar,
R weak to locally moderate ca alteration.
R
R -strongly foliated/sheared at the upper contact 60 dca -
R occassional foliation 80 to 90 dca, minor qs/qcs (< 0.5%)
R
R -widely scattered f.g. to c.g. (up to 0.50 cm in size) py
R cubes, weakly magnetic with the exception at 184 with 1%
R to 2% mg.
R
R contact - sharp contact 104 dca.
R
R

P 186.03 188.00 6D 53B5 5CHFDBI=BNFO BN84 D(D(
L G GA* FO85 U*
R
R Interbanded/Interbedded Greywacke/Mafic Volcaniclastic
R
R -alternating bands of green and grayish-green color, inter-
R banded/interbedded of intermediate bands comprised of ch-fd
R -am and more mafic bands, which are composed of ch-bi-(ga),
R mafic bands comprise about 10% of the section and is moder-
R ately to strongly ch with 1% to 2% ga, weak to locally mod-
R erate carbonate alteration
R
R -well developed banding/bedding 80 to 90 dca, 5% to 8% buff
R colored qcs throughout this section, numerous thin calcite
R gash stringers
R
R -occassional to widely scattered v.f.g. to f.g. pyrite (<

```
R           1%), slight increase in py in the more ch bands but still <
R           1%.
R
/END
```



DDH: 505-06
LOCATION: 23100E 10050N
AZIMUTH: 180°
DIP: -45°
DEPTH: 443.00m
CORE SIZE: NQ
MAGNETIC DECLINATION: 4°W

DRAWING #10

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER PROPERTY
LOCATION PLAN MAP
DDH 505-06

DATE: DEC. 96	ORIG BY: DRAWN BY: PCA	DWG.NO. DHLOCMAP.DWG G:\ACADDWGS\505
SCALE: 1:2500	NTS REF. 43C/12	

*** WHITE RIVER ***
PLACER DOME CANADA INC.

Drill Hole: 0505-006

Date: 21st Dec, 1995
Northing : 1050.00
Easting : 4400.00
Elevation : 0.00
Hole Depth : 443.00mt

Grid Azimuth: 0.00
Coord System:

Project ID : 505
Core Size : NQ
Date Logged : 06AUG95
Logged By : SNR
Assisted by :
Drillers : BRAD
Drill date :
Rig Type :
Drill Time :
Print Template : GTRAN001.FMT

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	180.00	-45.00
92.00mt	185.00	-44.20
173.00mt	191.00	-44.00
206.00mt	190.00	-43.80
242.00mt	191.00	-43.80
311.00mt	197.00	-41.00
374.00mt	201.00	-39.00
404.00mt	198.00	-39.50
443.00mt	198.00	-38.00

m	To	Geology
0.00	7.00	Casing
7.00	13.29	Granite, Pink, K-feldspar, Quartz (general), Chlorite, Massive
13.29	21.57	Flow (unsubdivided), Green, Chlorite, Biotite, Feldspars (general), Massive
21.57	24.70	Chert, Red, Quartz (general), K-feldspar, Chlorite, Laminated
24.70	38.80	Flow Breccia, Flow (unsubdivided), Green, Chlorite, Feldspars (general), Biotite, Massive
38.80	60.77	Pillowed Flow, Black, Amphiboles (general), Chlorite, Calcite
60.77	120.34	Massive Flows, Green, Chlorite, Feldspars (general), Amphiboles (general), Calcite, Massive
120.34	122.00	Pyroclastics (unsubdivided), Gray, Quartz (general), Feldspars (general), Chlorite, Biotite, Amphiboles (general), Stockworked, Banded
122.00	131.94	Pyroclastics (unsubdivided), Green, Chlorite, Biotite, Garnet, Feldspars (general)
131.94	133.83	Crowded Quartz-Feldspar Porphyry (QFP), White, Quartz (general), Feldspars (general), Tourmaline, Biotite, Porphyritic
133.83	173.22	Ash Tuff - < 2 mm, Volcaniclastic, Gray, Feldspars (general), Chlorite, Biotite, Garnet, Foliated, Banded
173.22	176.00	Sandstone, Volcaniclastic, Gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Banded
176.00	201.04	Sandstone, Quartz (general), Feldspars (general), Biotite, Chlorite, Banded, Foliated, Brecciated, Sheared
201.04	205.54	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Banded, Foliated
205.54	227.50	Sandstone, Quartz (general), Feldspars (general), Biotite, Banded, Foliated, Patchy
227.50	227.75	Sandstone, Quartz (general), Feldspars (general), Biotite, Blocky
227.75	229.02	Sandstone, Gray, Quartz (general), Feldspars (general), Amphiboles (general), Foliated
229.02	230.22	Quartz Vein, White, Quartz (general), Quartz (general), Massive, Fragmental, Xenolithic
230.22	284.29	Sandstone, Quartz (general), Feldspars (general), Amphiboles (general), Garnet, Anthophyllite, Banded, Foliated
284.29	285.70	Sandstone, Quartz (general), Garnet, Biotite, Garnet, Spotted, Foliated, Banded
285.70	287.75	Sandstone, Greywacke, Gray, Quartz (general), Biotite, Amphiboles (general), Silicified, Porphyroblastic, Foliated, Banded
287.75	291.70	DYKES, Greywacke, Gray, Pyroxenes (general), Feldspars (general)
291.70	298.69	Greywacke, Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Amphiboles (general), Foliated, Banded

From	To	Geology
298.69	310.71	IRON FORMATION, Greywacke, Gray, Amphiboles (general), Feldspars (general), Quartz (general), Garnet, Banded, Laminated, Porphyroblastic
310.71	324.55	Greywacke, Sandstone, Brownish-gray, Quartz (general), Feldspars (general), Biotite, Garnet, Silicified, Foliated, Banded, Porphyroblastic
324.55	330.47	Sandstone, Greywacke, Brownish-gray, Quartz (general), Feldspars (general), Biotite, Garnet, Banded, Foliated
330.47	338.13	Greywacke, Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Garnet, Banded, Foliated
338.13	339.01	Greywacke, Brownish-gray, Quartz (general), Feldspars (general), Biotite, Garnet, Foliated
339.01	345.26	Flows (unsubdivided), Greywacke, Greenish-Gray, Chlorite, Feldspars (general), Quartz (general), Chlorite, Biotite, Foliated, Banded
345.26	353.06	Greywacke, Sandstone, Brownish-gray, Quartz (general), Feldspars (general), Biotite, Garnet, Foliated, Banded
353.06	358.46	Greywacke, Brownish-gray, Quartz (general), Feldspars (general), Biotite, Foliated, Banded
[illegible]	361.32	Greywacke, Brownish-gray, Quartz (general), Feldspars (general), Biotite, Garnet, Foliated, Banded
361.32	364.82	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Banded, Foliated
364.82	368.64	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Banded
368.64	372.51	Quartz-Feldspar Vein, Grayish-white, Quartz (general), K-feldspar, Chlorite, Sericite, Massive, Crackled
372.51	379.65	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Banded, Foliated
379.65	382.30	Quartz-Feldspar Vein, Grayish-white, Quartz (general), K-feldspar, Chlorite, Sericite, Massive, Crackled
382.30	385.38	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Foliated, Banded, Very Fine Grained
385.38	391.38	DYKES, Gray, Feldspars (general), Chlorite, Massive, Fragmental, Very Fine Grained
391.38	400.21	Sandstone, DYKES, Brownish-gray, Quartz (general), Feldspars (general), Biotite, Garnet, Foliated, Porphyroblastic
400.21	403.87	DYKES, Gray, Feldspars (general), Chlorite, Massive, Fragmental, Very Fine Grained
403.87	410.40	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Garnet, Foliated, Porphyroblastic, Very Fine Grained, Banded
410.40	413.16	DYKES, Sandstone, Gray, Feldspars (general), Chlorite, Massive, Fragmental, Very Fine Grained
413.16	416.43	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Foliated, Very Fine Grained, Fragmental
416.43	441.00	Sandstone, Greywacke, Gray, Quartz (general), Feldspars (general), Biotite, Garnet, Banded, Foliated, Fine Grained, Porphyroblastic
441.00	443.00	DYKES
443.00		** END OF HOLE **

White River DDH 0505-006 Detailed Remarks

R Starting Date: July 31, 1995
R Completion Date: August 11, 1995
R Drill Contractor: Bradley Bros. Limited
R
R Logged By: Stephen Roach & Glenn Shevchenko
R Log Completed: August 18, 1995
R
R Casing: 7.0 meters (left in hole)
R
R Coordinates (Lac Grid) - Line 4400 E
R Station 1050 N
R
R Coordinates (Placer Dome Grid) Line 23100 E (approx)
R (No Placer Dome Grid) Station 10050 N (approx)
R
R Survey Coordinates - UTME: 590247.08
R UTMN: 5392313.18
R Elev: 376.67 metres (asl)
R
R Claims Drilled: SSM 607943
R SSM 607948
R
R Core Storage: Cedar Lake Camp

P 0.00 7.00 CSNGX
L
R Overburden - sand and boulders
R
P 7.00 13.29 5612A2X KFQZCH)MX FO86 D(
L I
R
R Granite/Felsite
R
R -pink to deep pink with minor green bands, felsic in com-
R position with a v.f.g. and aphanitic matrix of Kspar-qz
R with minor ch, weak sericite alteration in the upper part
R of the section, Kspar stain indicates 15% to 20% Kspar
R
R -massive texture with inclusions of chloritic wallrock up
R to 10.0 cm wide from 12.30 to 13.29 - comprises 15% to 20%
R of this section, local in-situ bx zones from 11.00 to 13.29

R with wallrock 'fragments' up to 0.50 cm in size, weakly
R and variably foliated 60 to 115 dca with a significant
R change in core angles near 10, occassional to widely scat-
R tered qs up to 1%
R
R -scattered v.f.g. pyrite grains/cubes < 1%, non-magnetic
R
R contact - sharp contact 113 dca with numerous inclusions/
R xenoliths of ch-altered wallrock between 12.30 &
R 13.29.
R
R Note - extremely broken-up core with very poor recovery
R throughout this section - recovery of 56%
R
P 13.29 21.57 2A X CHBIFD=MX FO80 E(D(
L G C/50
R
R Mafic to Ultramafic Flow
R
R -green color, mafic to ultramafic in composition being
R moderately to strongly chloritic, weak carbonate alteration
R and biotite
R
R -massive appearance with a weak and variable foliation be-
R tween 45 and 115 dca, occassional to local increase in
R in veining with 50% qz-fd veining between 19.33 and 20.35 -
R veins have a variable core angle from 0 to 115 dca and are
R up to 0.20 meters wide
R
R -occassional v.f.g. pyrite (mud?) < 1% in the matrix
R
R contact - sharp contact 50 dca, irregular chert bands
R from 20.35 to 21.57
R
R
PFD 21.57 24.70 6F X QZKFCH=LM BN68 D* B.
L 5R KFJ3 C/52 J3
R
R Albitic-Kspar Altered Chert/Arenite
R
R -brick-red to reddish-gray color, composition is comprised
R of v.f.g. & aphanitic chert (qz) - Kspar in the matrix,
R Kspar occurs as disseminated grains in the matrix & as
R minor fracture-filling varying 10% to 15% (stained), WRA
R indicates strong albitization.

R
R -laminated 60 to 82 dca, minor mafic bands up to 3.0 cm
R wide, occassional qs/qcs < 1%.
R
R -occassional to widely scattered v.f.g. pyrite < 1%
R
R contact - sharp contact 52 dca.
R
R
P 24.70 38.80 1E 52A 5CHFDBI)MX FO96 D*D. D)
L G KF?*
R
R Fe-rich Komatiitic Mafic/Ultramafic Flow Bx & Massive Flow
R
R -green color, mafic to ultramafic in composition with mod-
R erate to locally strong chlorite, weak carbonate.
R
R -weak to moderate Kspar alteration from 25.00 to 25.90 with
R Kspar occuring mainly as fractures with 5% disseminated in
R in the matrix
R
R 26.15 to 26.52 - Quartz Feldspar Vein - pinkish-white color
R consists of Kspar-qz with up to 5% Kspar
R as fractures, v.f.g., occassional py < 1%
R generally found along the upper and lower
R contacts, sharp 42 dca upper & 44 dca low-
R er contacts.
R
R -weakly and variable foliation between 60 and 130 dca, oc-
R cassional qs/qcs < 1%
R
R -well developed flow breccia from 24.70 to about 32.00 with
R mafic sub-angular to rounded mafic 'clasts' up to 5.0 cm
R in size, gradational contact with the more massive flows
R
R -occassional to scattered py > po (< 1%), py commonly oc-
R curs in the interstices of the flow bx as lineated dissem-
R inations, gradual increase in mg from about 31.00 with mod-
R erate to strong magnetism (2% to 4% mg)
R
R contact - gradational increase in carbonate (i.e. calcite)
R and increase in Mg-chlorite (black color)
R
R
P 38.80 60.77 1C X AMCHCA+ C/85 B. D+

L N
R
R Mg-Fe-rich Komatiitic Pillowed Flow
R
R -black to blackish green color, mafic to ultramafic compos-
R ition with weak to moderate pervasive carbonate (i.e. cal-
R cite), carbonate is mainly in the pillow selvages, but
R also in the pillows, pillow selvages consist of am-sr-ca
R -(ch)
R
R -well developed pillowed texture from about 47.70 to 60.77
R with the selvages up to 2.0 cm wide, v.f.g. pillows range
R from 1.50 to 2.00 meters in width, sense of pillow direc-
R tion varies from 40 to 120 dca
R
R -interstices bx in the selvages from 52.67 to 54.20 with
R ca-rich, diffuse, mafic 'clasts' (5% to 10%) - commonly
R up to 1.0 to 2.0 cm in size
R
R -occassional v.f.g. pyrite < 1%, strongly magnetic with 3%
R to 5% disseminated magnetite
R
R contact - sharp, sheared contact 85 dca
R
R

P 60.77 120.34 3A1 X CHFDCA(MX FO85 B. D+
L G CAJ) AM C/86
R
R Intermediate to Mafic Flow
R
R -green color, intermediate to mafic in composition with
R weak to locally strong carbonate alteration (i.e. calcite),
R strong carbonate sections from 76.25 to 76.50, 101.25 to
R 103.40, and from 115.30 to 115.60 - ca occurs in the alter-
R ed matrix and as 10% to 25% fracture-filling.
R
R -3% to 5% bi and ch clots (up to 0.50 cm in size) from 65.5
R to 73.00, gradual increase in ch from 96.10 to 97.80 and
R from 116.70 to 117.50 (moderately chloritic)
R
R -massive texture with possible rounded calcite amygdules
R from 75.00 to 82.20 and from 89.00 to 90.00 - amygdules
R vary from 1% to 5% and are up to 0.50 cm in size, locally,
R weakly foliated varying from 50 to 120 dca, occassional
R qs/qcs < 1%

R
R -broken core from 76.60 to 76.65 with this section being a
R possible fault, adjacent to a section with strong ca frac-
R turing, similar to a section with broken core from 101.00
R to 101.25
R
R -barren to occassional py (< 1%), strongly magnetic from
R 60.77 to about 111.00 with 2% to 4% disseminated mg, grad-
R ual decrease in magnetics from 108.00 to 111.00, non-mag-
R netic to weakly magnetic from 111.00 to 120.34.
R
R contact - sharp contact 86 dca
R
R

PSI 120.34 122.00 4B X QZFDBI+SWBN BN58 D)D) D(
L A QZP3KFD+CHAM) D+ D+ D*U+ P3
R
R Silicified Weak Quartz Stockwork
R
R -light gray to gray color, moderately to strongly silici-
R fied with weak Kspar alteration as 2% to 3% disseminated
R grains, scattered v.f.g. garnets 1% to 3%, scattered 2% to
R 5% bi-ch-am
R
R -weakly banded 45 to 70 dca, scattered 10% to 15% sharp
R and diffuse quartz stringers
R
R -widely scattered v.f.g. py and po grains up to 1% - possi-
R bility of aspy? < 1%
R
R contact - sharp contact 110 dca
R
R

PCBI 122.00 131.94 4B X CHBIFD2 FO80 D/D/ D/
L G CHJ2BID1GA D1 J2U*
R
R Chloritic Intermediate Tuff
R
R -green color, intermediate in composition with variable
R weak to strong ch hydrothermal alteration, gradual increase
R in ch alteration from about 126.50 to 131.94 to moderate to
R strong ch, v.f.g. foliated, brown and disseminated biotite
R averaging 10% to 15% in the matrix, local 5% ga from 127.60
R to 128.00
R

R -weakly to moderately foliated 65 to 110 dca, increase in
R foliation/shearing with the stronger ch section from 126.50
R to 131.94, occassional to scattered qs/qcs (1% to 3%) up to
R 3.0 cm wide.
R
R -occassional py and po grain (< 1%)
R
R contact - sharp, broken contact
R
R

PSFD 131.94 133.83 13C X QZFDBI)PP FO D*D) B. B.
L 5W QZP3FDD2TO D+ D) P3
R
R Silicified/Feldspathized Feldspar Porphyry
R
R -light grayish-white to white color, strongly silicified
R with feldspathization - feldspar alteration may be bimodal
R with albite? and only 2% to 4% disseminated Kspar altera-
R tion, scattered 1% to 2% brown biotite, scattered to xtls
R varying < 1% to locally 5% in the matrix.
R
R -strongly altered and diffuse relict fd phenocrysts varying
R from 20% to 25% and appear to be crowded, gives this sec-
R tion a sub-porphyritic to porphyritic texture, scattered
R 5% to 10% qz-fd stringers and veins up to 5.0 cm wide.
R
R -scattered v.f.g. to f.g. po > py > cpy grains varying < 1%
R to 2%, cpy is associated with po, possibility of v.f.g.
R aspy < 1%??
R
R contact - sharp contact 120 dca.
R
R

PBAS 133.83 173.22 4B1 94B5 1FDCHBI1FOBN FO78 D*D*J* B.B/ B.
L 5A CHQ1BIQ1 GA* BN82 Q1 Q1U*F*
R
R Spotty Chloritic-Biotitic Altered Intermediate Tuff/Volcan-
R iclastic
R
R -gray, grayish-green, to grayish-black color, intermediate
R composition with local moderate to strong ch-bi alteration,
R overall, weakly altered with patchy/spotty ch-bi alteration
R with gradational sections of garnet-sillimanite-barite,
R gradational section from 152.00 to 155.00 with moderate to
R strong ch-bi alteration from 152.00 to 155.00 with 20% to

R 35% ch-bi alteration, ch-bi occur as diffuse, irregular
R bands and in the interstitial matrix.
R
R -gradational sections with increased garnets from 158.00 to
R 167.00 with up to 5% in concentration, scattered, thin
R sections of increased ba-sl up to 5% xtls and in the ma-
R trix, up to 1.50 meters wide or in local bands varying <
R 1.0 to 50.0 cm wide, ga is associated with ch-bi alteration
R
R -foliated/banded varying from 62 to 102 dca, gradational
R well developed banding from about 165.00 to 173.22 indica-
R ting the volcaniclastic nature of this part of the section,
R banding/bedding varies from 65 to 102 dca with a general
R increase in core angles from 168.00 to 173.22, scattered
R qs/qfs/qcs varying < 1% to locally 5%
R
R -occassional to widely scattered po-py-(cpy)-(aspy)-(sp)
R grains < 1%, cpy associated with po, only
R
R contact - gradational contact
R
R ---
P 173.22 176.00 6A 54B5 5FDQZBI1BN BN D(D(
L 8A SIF) CH
R
R Arenite and/or Intermediate Volcaniclastic
R
R -gray to light gray color, arenaceous/intermediate in com-
R position with a mineralogy of fd-qz-bi-ch, scattered, blad-
R ed sillimanite xtls varying < 1% to 3%
R
R -well banded between 90 and 115 dca, scattered qs/qcs up to
R 1% in concentration, massive appearance in this section
R
R -occassional v.f.g. py-po-(cpy) grains < 1%, possible
R orange orpiment/realgar at 174.70
R
R contact - gradational contact
R ---
PKSE 176.00 201.04 6A X QZFDBI=BNFO BN92 D(D(<.D. CP
L CH=BXSH FO71 <= D1 D.
R
R Kspar-Sericite Altered Arenite: med grey, weak to intensly
R sheared and locally brecciated; weak to strong disseminated
R and fracture controlled Kspar & 5-10% disseminated sericite

R alteration; primary mineralogy consists of 20-30% feldspar,
R 30-40% quartz and 10% chlorite/biotite; weak to moderate
R intermittant compositional banding and foliation; <1%
R disseminated PY & PO, trace SP in quartz veinlets, trace
R disseminaated CP; the breccia zones are subtle and are only
R up to 10cm in width; the sheared component constitutes >80%
R of the interval with the remainder consisting of banded
R material; local minor zones of increased silica flooding
R with up to 5% dissem PY; local distinct patchy texture
R caused by the chloritic material.
R
R
PSE 201.04 205.54 6A X QZFD BNFO BN71 D(
L 6A SID=SED+BI FO64 D+ D=
R
R Intercalated Argillic/Sericitically Altered Arenite:
R Med grey with dark grey bands, pods and patches; equigranul
R ar and locally porphyroblastic, fine grained, compositional
R ly banded with a moderately developed foliation; comprised
R of 40-50% quartz, 20-30% feldspar & 3-5% brown biotite;
R alteration consists of disseminations of garnet (2-3%,
R locally 5%), sillimanite (up to 10%) in discrete bands,
R sericite (up to 5%) in discrete bands independant of
R sillimanite, and occassional kyanite;
R garnet porphyroblasts range up to 2mm diameter;
R up to 1% vfg disseminated PO; occassional QZ veins (1-2cm).
R
R
PABI 205.54 227.50 6A X QZFD BNFO BN75 D.
L SID= BI PA FO75 D+D*D=
R
R Argillic Altered Sillimanite-bearing Arenite:
R
R - Med greenish grey & brownish grey with dark grey with
R dark greenish grey bands, pods & patches;
R - Weakly porphyroblastic, comp banded, moderately foliated,
R weak relict detrital texture weak to mod argillic altn;
R - fine grained subhedral QZ (40-50%), FD (15-20%),
R brown BI(5-15%), AY(up to 10%) & CH (up to 3%) with 1-3%
R GA porphyroblasts (0.5-1.5mm dia);
R - minor SI at the top of the interval; BI and SI
R increase down the hole; vfg PO (up to 1%) & PY (<1%)
R - intermittant Kspar altn sub-parallel & parallel to
R foliation
R

R
PBLK 227.50 227.75 6A X QZFD BK D.
L SID= BI D+D*D=
R
R Sillimanite-Bearing Biotitic Arenite: (as above)
R - may be a fault zone?
R
PABI 227.75 229.02 6A X QZFD FO D.D(
L 6A SID1CHD=AM D+ D=D+D1
R
R SILLIMANITE-AMPHIBOLE ARENITE
R
R - Med grey with dark greenish-grey to dark grey bands,
R wisps and lenses;
R - Locally inequigranular, weakly banded, moderately
R foliated
R - Local bands (4-5cm wide) containing 2-3% garnet
R porphyroblasts (1-3mm dia) set in a fg matrix consisting of
R 55-75% QZ, 10-20% PL, 3-10% KF, 5-15% SI, 2-3% brown BI and
R 3-5% CH altered from AM; 1% vfg dissem PO & occassional PY.
R - occassional old fractured QZ vein with EP selvages
R
R
P 229.02 230.22 17A1X QZ QZ9MXFR C/30
L W XE
R
R QUARTZ VEIN:
R
R - Mottled white and light grey
R - Massive and fractured with minor xenoliths
R - QZ with chloritic selvages
R - <1% Sphalerite occurring as elongated subhedral crystal
R (up to 2cm long X 2mm wide) along the vein selvages; <1%
R vfg PY along fractures
R - upper contact = 30deg to CA
R
R
PABI 230.22 284.29 6A X QZFDGA+BNFO BN70C/80 D.D.
L SID1BID+AMAY- FO73 D+ D)D+D1
R
R INTERCALATED SILLIMANITE-GARNET BEARING ARENITE:
R
R - Weakly banded light, med & dark grey with occasional pale
R green & beige lenses;
R - Intercalated porphyroblastic and equigranular bands

R (10 to 40cm wide), moderately foliated
R - Porphyroblastic bands (30-40%) consist of 3-5% garnet
R (0.5 to 2mm dia) & 3-5% brown sillimanite (up to 1.5cm)
R porphyroblasts set in a fg matrix of 50-75% QZ, 2-20% KF,
R 3-5% PL, 5% SI, 3-5% CH and 5-10% brown BI (after AM?),
R minor AM; occasional vfg PO/PY
R - Occassional zones of 1-3% Anthophyllite
R - The equigranular bands (60-70%) consist of fg QZ(55-70%)
R PL(10-20%), KF(10-20%), SI(5-10%), GA(up to 1%), CH(1-3%) &
R brown BI (1-3%) [after AM?]; occasional dissem vfg PO/PY
R - Occasional deformed quartz veinlets (1 to 4mm wide)
R - Occasional AM-SI-FD-QZ stockwork zones ranging from 0.5
R to 6cm wide; may carry up to 1% PO/PY and trace SP
R
R

P 284.29 285.70 6A X QZGA SPFO C/85BN65 D)D*
L BIGA+BN FO65
R
R SPOTTED GARNETIFEROUS QUARTZ ARENITE
R
R - Light grey with white rimmed pink spots
R - Essentially esquigranular, poorly foliated with a
R distinct spotted texture, weak comp banding
R - 1-3% fg GA crystal aggregates (1-4mm dia) rimmed with vfg
R white QZ (2-4%) create the spotted texture; rims range from
R 1-4mm wide;
R - Spots are set in a fine to very fine grained matrix of
R QZ (85-90%), BI (1-4%), local zones of CH (1%) and a honey
R coloured anhedral mineral (1-2%) that occurs in crystal
R aggregates;
R - vfg dissem PY (1-2%) & PO (<1%)
R - 5% bands of SI-GA-BI ARENITE
R
R

P 285.70 287.75 6A 56D 5QZBISI1PBFO C/30BN70 D*
L 6A AM BN FO70 <- <-
R
R INTERCALATED PORPHYROBLASTIC SL BEARING ARENITE / WACKE
R
R - Thickly banded med and med-dark grey
R - Inequigranular, moderately foliated, thickly banded
R and porphyroblastic
R - Porphyroblasts consist of sillimanite (5-15%) ranging
R up to 2cm long;
R - Fine grained matrix consists of QZ (80-85%), CH (3-5%),

R brown BI (1-3%, locally 5-10%), AM (3-5%) & K-feldspar
R (1-3%); <1% vfg dissem PY
R - Darker bands are a result of increased BI content
R - Sharp upper contact
R - <1% old foliaform QZ-FD veinlets
R ---
P 287.75 291.70 16 96D =PXFD C/30 D)
L 2A
R MAFIC DYKE
R - massive, weakly magnetic, up to 2% vfg dissem PY
R 290.20 290.75 - GA-SI bearng wacke
R ---
P 291.70 298.69 6D 66A 3QZFDAM1FOBN C/60 D)
L 6A CHD1SID+BI FO60 D1D1D+
R
R INTERCALATED ARENITE/WACKE
R - Weakly banded med & dark-med grey with pink spots
R - Equigranular, fg, mod foliation, weakly banded
R - Mainly consists of wacke (60-70%), arenite (25-35%) and
R mafic dyke (5%)
R - GA increases downhole, ranges from 1-10% with zones of
R 30%;
R - WACKE: thickly bedded; approx equal proportions of
R chlorite (10-20%) or amphibole (10-20%) dominant beds;
R GA (5-10%, locally up to 30%); the AM-rich beds may contain
R up to 5% sillimanite; remainder is QZ; <1-2% vfg dissem PY
R - ARENITE: occurs mainly in the upper portion of the
R interval; vfg QZ with 3-5% brown BI, minor CH, up to 3% GA
R and <1% dissem PY
R 294.35 294.67 MAFIC DYKE: massive, non magnetic, 1% vfg dissem PO
R - sharp contacts, upper = 70deg, lower = 45deg
R 296.40 296.95 MAFIC DYKE: massive, weakly magnetic, 1-2% dissem PO
R - sharp contacts, upper = 50deg, lower = 50deg
R
R ---
P 298.69 310.71 7 96D =AMFDGA+BNLM BN51 D*D1
L 6A CHP1 QZ PB FO67 D*
R
R SULPHIDE FACIES IRON FORMATION WITH MINOR GARNETIFEROUS
R WACKE BANDS
R
R - Gradational contacts with garnetiferrous wacke
R - Well banded light grey, med brownish grey and dark
R greenish-grey
R - Equigranular, vfg, well laminated/banded

R - Light bands consist of QZ, FD and greenish AM with trace
R to 1% PY
R - Dark bands consist of 10 to 20% PO, 1% PY, greenish AM,
R GA, FD and QZ;
R - Highly magnetic
R
R

P 310.71 324.55 6D 96A 1QZFDGA=FOBN BN70 D*
L 6BACHD+ BISI(PB FO64 D1D)
R
R GARNET PORPHYROBLASTIC BIOTITE WACKE
R - Med brownish-grey with pink spots
R - Up to 10% intercalations of BI-Arenite
R - Distinctly porphyroblastic, weakly banded, mod foliation
R - GA rich bands (75-85%) range in width from 2 to 80cm and
R consist of GA (5-15%, locally 20-40%), brown BI (10-15%),
R CH (3-5%), local SI (2-5%) and QZ with minor FD; <1-2% vfg
R disseminated PY
R - Minor bands with 2-3% sillimanite
R
R 314.50 315.14 - Med green with only a few pink spots
R - consists of fg CH(5-10%), and approx equal proportions of
R FD & QZ with 2-3% GA porphyroblasts; 1% vfg dissem PY
R
R 316.57 316.70 - Young QZ-KF vein with 1 long laths of SP and trace fg
R dissem PY
R
R

P 324.55 330.47 6A 66D 4QZFDGA*BNFO BN72 D*
L 6BACHD) BI FO72
R
R INTERCALATED BIOTITE ARENITE / WACKE
R - Med brownish-grey
R - Well banded and foliated, essentially equigranular, fine
R grained, weakly porphyroblastic in local areas
R - brown BI, local minor SI, <1% GA (overall), up to 1% vfg
R pyrite, weak CH(1-3%), occassional honey-coloured mineral
R
R 327.90 328.29 - Mafic Dyke: Massive, weakly magnetic, 1-2% fg dissem PO;
R upper contact = 25deg, lower contact = 45 deg
R
R

P 330.47 338.13 6D 56A 5QZFDGA+BNFO BN75 D*
L 6A BI FO75 D)
R

R BIOTITIC WACKE / ARENITE WITH HONEY COLOURED GARNET
R PORPHYROBLASTS
R - Med grey, weakly banded, well foliated and weakly
R porphyroblastic
R - 2-3% honey garnet porphyroblasts (<1-3mm) occur in bands
R ranging from 1-20cm wide
R - matrix consists of vfg to fg pink garnet (1-3%), brown BI
R (10-20%), CH(1-3%) and the remainder QZ & FD; <1% dissem PY
R - minor bands of BI-Arenite
R
R ---

P 338.13 339.01 6D X QZFDGA+FO FO75
L 6BA BI
R BIOTITE WACKE
R - 2-3% fg pink GA, 15% BI
R
R ---

P 339.01 345.26 4A 86D 2CHFDCH4FOBN FO60 D)
L 6GA QZBI2 BN65
R INTERCALATED BIOTITE WACKE / INTERMEDIATE VOLCANIC
R
R ---

P 345.26 353.06 6D 66A 4QZFDGA)FOBN FO70 D*
L 6BA BI BN70
R INTERCALATED BI-WACKE / BI-ARENITE
R - minor bands of intermediate volcanic
R - 1-3% pink garnet in local bands
R
R ---

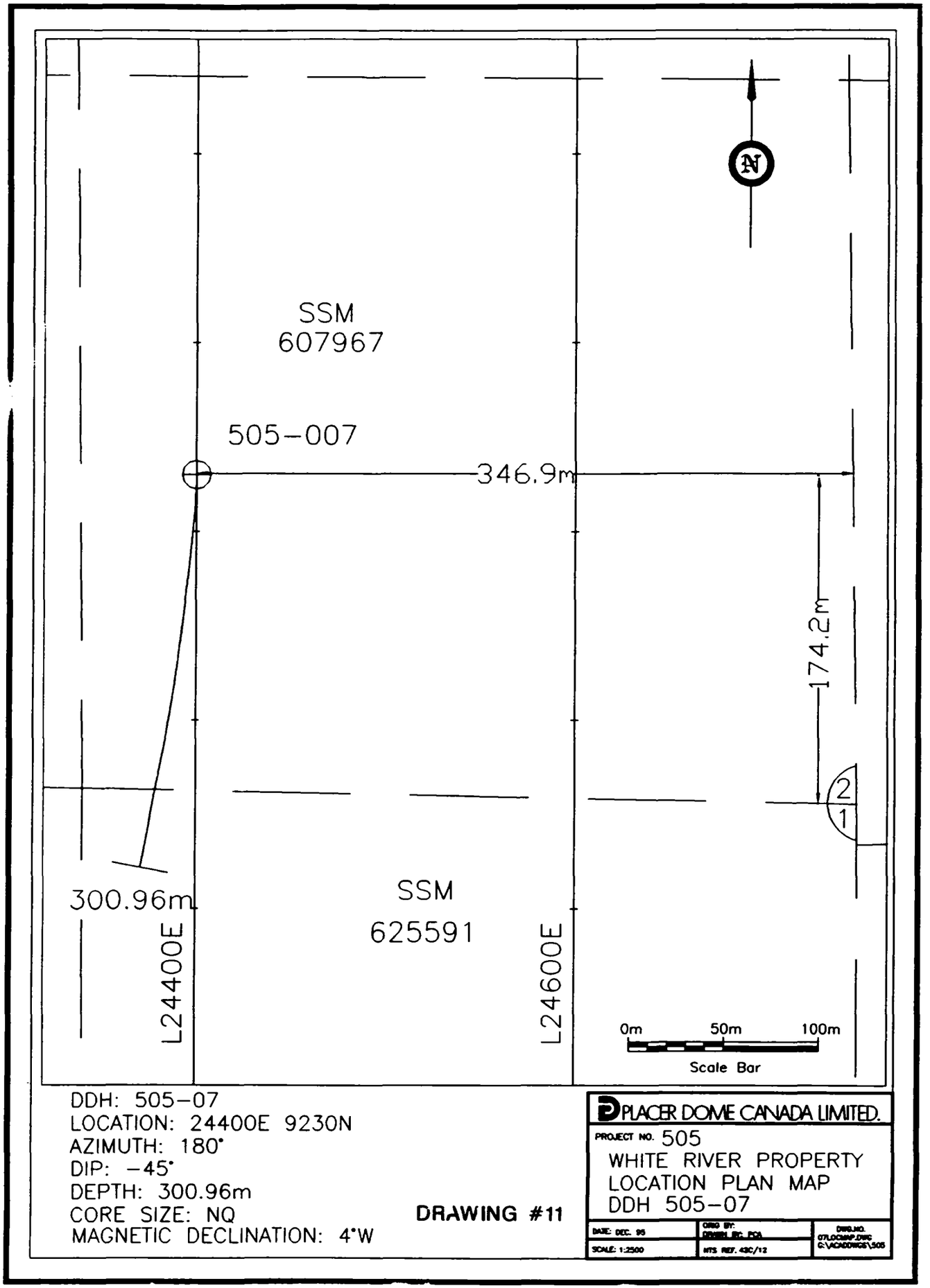
PSE 353.06 358.46 6D X QZFD FOBN FO70 D)
L 6BAKYB)SEB)BI BN70 B)D)D)B)
R
R BIOTITIC WACKE
R - the KY, SE, CH are localized in bands (2-10cm) that
R comprise 2-3% of the interval; SE & CH occur as crystal
R aggregates replacing an unknown mineral; KY occurs as
R porphyroblasts (up tp 2mm long)
R
R ---

P 358.46 361.32 6D X QZFDGA+FOBN FO70 D*
L 6BACHD) BI BN70
R
R BI-WACKE WITH GARNET PORPHYROBLASTS
R - CH (1% overall, locally 5-10%) occurs as dissem in the GA
R rich bands.

R
R
P 361.32 364.82 6A X QZFD BNFO FO60 D*
L 8A BI BN60
R
R WEAKLY BIOTITIC ARENITE
R - Gradational upper contact
R - BI (1-5%), 1% vfg dissem PY
R - 2-3% young calc-silcate bands (up to 3cm wide) with a
R salt & pepper texture; 1% PY, 1% GA, AM altering to CH
R
R
PKF 364.82 368.64 6A X QZFD BN BN70C/10 D) D) CB
L 8A KF82CHP+BI FO65 82 P+ <)<)
R
R WEAKLY BIOTITIC ARENITE WITH HYDROTHERMAL ALTERATION
R
R - BI partially altered to CH (1-5%)
R - vfg dissem PY(1-2%) & SP(up to 1%); up to 1% SP in veins
R - 1% young QZ-Carb veinlets with occassional to 1% SP
R - SP, PY & CH content increases downhole
R - K-spar altn (pervasive & vein) intensity increases
R downhole
R - The altn & vein mineralization is young
R
R
P 368.64 372.51 17A3X QZKFCH+MXKR C/10 D. D.
L 8AW SE+ D)
R
R HYDROTHERMAL CRACKLE QUARTZ-FELDSPAR VEIN
R - Mottled light grey and white
R - Massive with a well developed crackle texture
R - Consists of QZ(60-70%), KF(20-30%), CH(2-5%), SE(2-3%),
R <1% vfg pink GA, <1% vfg PY, <1% vfg SP
R
R
PCH 372.51 379.65 6A X QZFD BNFO C/45BN38 D*
L 8A KF7=CHD=BI FO42 7= D=
R
R CHLORITIC ARENITE
R
R - Altn intensity & sulphides are weaker in the footwall of
R the hydrothermal breccia vein
R
R

```
P   379.65 382.30   17A3X   QZKFCH+MXKR   C/05    D.
L              8AW       SE+                    D)
R
R              HYDROTHERMAL CRACKLE QUARTZ-FELDSPAR VEIN
R              - as above
R
R              ____________________________________________________________
PCH 382.30 385.38   6A  X   QZFDBI=FOBN   C/28FO66 D*
L              8A KF?*CHD)   VF     BN63
R
R              BIOTITIC ARENITE
R              - very weak fracture controlled KF altn, weak dissem CH alt
R              - 1-2% QZ veinlets
R
R              ____________________________________________________________
P   385.38 391.38   16  X   FDCH   MXFR   C/10     D)
L              6A          VF
R
R              MAFIC DYKE: weakly magnetic (locally)
R
R              ____________________________________________________________
P   391.38 400.21   6A  616  4QZFDGA+FOPB   C/30    D)          PY
L              6BACHD+KF6)BI         FO70         <)      <*
R
R              BIOTITIC ARENITE CUT BY MAFIC DYKES
R              - 60% arenite cut by 40% mafic dykes (0.16-1.4m)
R              - dyke is locally weakly magnetic
R              - Arenite component actually contains 10-20% wacke
R              intercalations
R              - BI partially altered to CH; pervasive & fracture K-feld
R              altn (up to 15%) occurs from 399.0 to 400.2m; 1-2% late SE
R              along fractures
R
R              ____________________________________________________________
P   400.21 403.87   16  X   FDCH   MXFR   C/20     D)
L              6A          VF
R
R              MAFIC DYKE:  weakly magnetic (locally)
R              ____________________________________________________________
PKF 403.87 410.40   6A  X   QZFDGA+FOPB1414C/10    D)     D.
L              8A CHD+KF<=BI   VFBN    BN70FO75  <=     D+
R
R              BIOTITIC ARENITE
R              - BI partially altered to CH; up to 5% young fracture &
R              envelope K-feldspar alteration
```

```
R              - occassional bands of BI-Wacke
R
R              ____________________________________________________________
P   410.40 413.16   16  96A  1FDCH  MXFR   C/50      D)
L              6A            VF
R              MAFIC DYKE
R
R              ____________________________________________________________
PSIF 413.16 416.43   6A  X    QZFD  FOVF      BN65 D)
L              8A KF<)CHD+BI  FR     FO65     <)    D+   ++
R
R              BIOTITIC ARENITE
R              - Local moderate brecciation (young) with accompanying
R              silica flooding in the matrix; KF veinlets cut silca altn
R              ____________________________________________________________
P   416.43 441.00   6A  96D  1QZFDGA)BNFO   BN55C/10 D*
               8A CHD(   BI   FGPB    FO78
R
R              BIOTITIC ARENITE (minor WACKE & FELDSPATHIC ARENITE)
R              - minor wacke bands (<10%) & feldspathic arenite (<5%)
R              - 1-2% QZ-CB veinlets (young)
R              - GA porphyroblasts range from <1-2mm and occur in discrete
R              bands (2-40cm)
R
R              ____________________________________________________________
P   441.00 443.00   16  X              C/10
L
R              MAFIC DYKE
R
/END
```



DDH: 505-07
LOCATION: 24400E 9230N
AZIMUTH: 180°
DIP: -45°
DEPTH: 300.96m
CORE SIZE: NQ
MAGNETIC DECLINATION: 4°W

DRAWING #11

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER PROPERTY
LOCATION PLAN MAP
DDH 505-07

DATE: DEC. 95	DRAWN BY: DENNIS BC. PDA	DWG.NO. 07\LOCMAP.DWG G:\ACADDWGS\505
SCALE: 1:2500	NTS REF. 43C/12	

*** WHITE RIVER ***
PLACER DOME CANADA INC.

Drill Hole: 0505-007

Date: 21st Dec, 1995
Northing : 9230.00
Easting : 24400.00
Elevation : 0.00
Hole Depth : 300.96mt

Grid Azimuth: 0.00
Coord System:

Project ID : 05
Core Size : NQ
Date Logged : 17AUG95
Logged By : GGS
Assisted by :
Drillers :
Drill date : AUG95
Rig Type : BBS
Drill Time :
Print Template : GTRAN001.FMT

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	181.00	-45.50
22.00mt	184.00	-45.50
61.00mt	186.00	-45.00
118.00mt	187.00	-44.00
160.00mt	188.00	-46.00
199.00mt	191.00	-46.00
244.00mt	191.00	-46.00
268.00mt	189.00	-46.00
300.90mt	192.00	-47.00

From	To	Geology
0.00	0.60	Overburden
0.60	25.71	Lapilli Tuff - 2 to 64 mm, Pinkish-gray, Quartz (general), Feldspars (general), Amphiboles (general), Very Fine Grained, Foliated, Laminated, Lensoid-banded (Streaky)
25.71	36.96	Lapilli Tuff - 2 to 64 mm, Pinkish-gray, Feldspars (general), Quartz (general), Amphiboles (general), Chlorite, Lensoid-banded (Streaky), Foliated, Very Fine Grained, Fragmental
36.96	44.91	Lapilli Tuff - 2 to 64 mm, Pinkish-gray, Quartz (general), Feldspars (general), Amphiboles (general), Chlorite, Lensoid-banded (Streaky), Very Fine Grained, Fragmental
44.91	56.06	Lapilli Tuff - 2 to 64 mm, Pinkish-gray, Feldspars (general), Quartz (general), Amphiboles (general), Chlorite, Lensoid-banded (Streaky), Very Fine Grained, Fragmental
56.06	77.25	Pyroclastics (unsubdivided), CLASTIC METASEDIMENTS, Pinkish-gray, Quartz (general), Feldspars (general), Amphiboles (general), Chlorite, Lensoid-banded (Streaky), Banded, Foliated, Very Fine Grained
77.25	79.78	Flows (unsubdivided), Greywacke, Green, Chlorite, Feldspars (general), Calcite, Foliated, Very Fine Grained
79.78	81.76	Greywacke, Pinkish-green, Quartz (general), Feldspars (general), Chlorite, Foliated, Banded
81.76	91.32	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Banded, Foliated, Very Fine Grained, Laminated
91.32	94.14	Sandstone, Greywacke, Gray, Quartz (general), Feldspars (general), Biotite, Garnet, Very Fine Grained, Banded, Foliated, Porphyroblastic
94.14	96.80	Sandstone, Argillite, Gray, Quartz (general), Feldspars (general), Biotite, Garnet, Laminated, Foliated, Very Fine Grained, Porphyroblastic
96.80	101.34	Greywacke, Gray, Quartz (general), Feldspars (general), Biotite, Garnet, Staurolite, Foliated, Banded, Porphyroblastic
101.34	153.27	Arkose, Mafic Dyke, Greenish-Gray, Feldspars (general), Amphiboles (general), Quartz (general), Garnet, Laminated, Banded, Very Fine Grained, Foliated
153.27	160.78	Arkose, Greenish-Gray, Amphiboles (general), Feldspars (general), Chlorite, Foliated, Banded, Sheared
160.78	169.79	Arkose, Mafic Dyke, Greenish-Gray, Amphiboles (general), Feldspars (general), Chlorite, Garnet, Foliated, Banded, Very Fine Grained
169.79	178.95	Arkose, Greywacke, Gray, Quartz (general), Feldspars (general), Amphiboles (general), Foliated, Banded, Very Fine Grained
178.95	187.26	Crystal Tuff, Gray, Quartz (general), Feldspars (general), Biotite, Foliated, Porphyritic, Fragmental
187.26	205.29	Arkose, Mafic Dyke, Greenish-Gray, Feldspars (general), Amphiboles (general), Quartz (general), Garnet, Biotite, Foliated, Banded, Porphyroblastic
205.29	210.80	Flows (unsubdivided), Green, Chlorite, Amphiboles (general), Feldspars (general), Foliated, Very Fine Grained

From	To	Geology
210.80	217.83	Flow Breccia, Greenish-Gray, Feldspars (general), Amphiboles (general), Chlorite, Foliated, Very Fine Grained, Brecciated
217.83	218.44	Greywacke, Gray, Quartz (general), Plagioclase, Amphiboles (general), Foliated, Very Fine Grained
218.44	219.90	Flow (unsubdivided), Greenish-Gray, Feldspars (general), Biotite, Chlorite, Serpentine, Foliated, Very Fine Grained
219.90	222.74	Flow Breccia, Greenish-Gray, Feldspars (general), Amphiboles (general), Chlorite, Foliated, Very Fine Grained, Brecciated
222.74	223.67	INTERMEDIATE METAVOLCANICS (5% to 15% Mafic), Gray, Quartz (general), Feldspars (general), Amphiboles (general), Biotite, Very Fine Grained, Foliated
223.67	238.18	INTERMEDIATE METAVOLCANICS (5% to 15% Mafic), Greenish-Gray, Quartz (general), Feldspars (general), Amphiboles (general), Porphyroblastic, Foliated, Banded, Brecciated
238.18	253.20	Flow (unsubdivided), Greenish-Gray, Feldspars (general), Biotite, Chlorite, Serpentine, Foliated, Very Fine Grained, Brecciated
253.20	262.79	Flow (unsubdivided), Gray, Talc, Feldspars (general), Foliated, Very Fine Grained
262.79	265.17	Flow (unsubdivided), Greenish-Gray, Feldspars (general), Amphiboles (general), Chlorite, Foliated, Very Fine Grained, Brecciated
265.17	274.00	Feldspar Porphyry (FP), Gray, Plagioclase, Amphiboles (general), Quartz (general), Biotite, Massive, Porphyritic
274.00	275.57	INTERMEDIATE METAVOLCANICS (5% to 15% Mafic), Gray, Feldspars (general), Quartz (general), Amphiboles (general), Biotite, Very Fine Grained, Foliated
275.57	278.60	Flow (unsubdivided), Green, Feldspars (general), Amphiboles (general), Chlorite, Serpentine, Foliated, Very Fine Grained
278.60	300.96	Flow (unsubdivided), Flow (unsubdivided), Gray, Feldspars (general), Amphiboles (general), Serpentine, Talc, Foliated, Very Fine Grained
300.96		** END OF HOLE **

White River DDH 0505-007 Detailed Remarks

R Starting Date: August 11, 1995
R Completion Date: August 15, 1995
R Drill Contractor: Bradley Bros. Limited
R
R Logged By: Glenn Shevchenko
R Log Completed: August 24, 1995
R
R Casing: 3.0 meters (left in hole)
R
R Coordinates (Lac Grid) Line 5700 E
R Station 250 N
R
R Coordinates (Placer Dome Grid) Line 24400 E
R Station 9230 N
R
R Survey Coordinates UTME: 591556.98
R UTMN: 5391524.09
R Elev: 413.95 metres (asl)
R
R Claims Drilled: SSM 607967
R SSM 625591
R
R Core Storage: Cedar Lake Camp
R

P 0.00 0.60 OVBDX
L
R

PCH 0.60 25.71 4B2 X QZFD VFFO1101FO66 D. CB
L 6AICHD1 AM LMLB BN66 D1 J-
R
R INTERMEDIATE LAPILLI TUFF
R - Med greenish-grey with light pink & light pinkish-orange
R lenses & pods
R - Inequigranular, well banded/laminated/lensed, weak to mod
R foliation; bands/lam/lenses range in width from 0.1cm
R to 2cm; indistinct lapilli fragmental texture
R - Dark bands (60-70%) consist of vfg amphibole(15-30%)
R which has almost completely altered to chlorite, K-feldspar
R (5-10%), plagioclase(5-10%), quartz(50-75%)
R - Light bands (30-40%) consist of vfg amphibole(5-10%),
R K-feldspar(15-20%), plagioclase(5-10%), quartz(60-75%)

R - The lapilli (5-10%) are flattened and range up to 3cm in
R length; most have similar composition to light bands above
R therefore the light bands may be larger lapilli
R fragments; 1-2% lapilli are mafic
R - Local zones of pervasive silicification; 1-2% salt &
R pepper bands; intermittant weak CB along fractures and
R foliations
R 4.70 5.15 BLOCKY CORE
R 17.89 27.27 - CB increase to 3-5% along foliations, fractures and
R veinlets
R
R

PSIF 25.71 36.96 4B2 X FDQZCH=LBFO 1FO66 D* EPHE
L 6AISLP5KF8=AM VFFR BN68 D= ?+83
R
R INTERMEDIATE LAPILLI TUFF WITH INTENSE SILICA AND
R HEMMATITE ALTERATION
R - Med pinkish-grey to pinkish-orange
R - Similiar to above interval however with zones of intense
R pervasive hematitic silicification; weak to moderate
R fracture and interstitial K-spar; 2-3% epidote along late
R fractures & interstices; chlorite decreases to <5-10%
R - <1% vfg dissem & foliaform PY
R - occassional CB & QZ-CB veinlets
RSI 26.72 26.33 - intense pervasive silica; CB decreases to <1%; pervasive
R 27.12 31.80 - most intense zone of hematitic stain
R 26.33 26.72 - weak silica / increase CB alteration
R
R

P 36.96 44.91 4B2 X QZFDCH+LBVF 1FO71 D. CB
L 6AISIP1 AM FR BN71 J+ D+ P1?*
R
R INTERMEDIATE LAPILLI TUFF (WEAKLY SILICIFIED)
R - Intercalated weakly silicified and non-silicified bands
R in approx equal proportions; silicified zones range from
R 10-30cm wide
R - 5-10% AM partiallyh altered to CH
R - weak KF alt occurs along intersticies
R
R

PSI 44.91 56.06 4B2 X FDQZCH=LBVF FO67 D* CBHE
L 6AISIP5HE71AM FR BN67 D= P5?-71
R
R INTERMEDIATE LAPILLI TUFF (VERY SILICEOUS)
R - 5-10% amphibole partially altered to chlorite

R 51.85 54.35 - moderate pervasive hematitic stain; PY increases up tp 1%
R disseminated and occassional vfg foliaform wisps/lenses
R
R

P 56.06 77.25 4B 56 5QZFDCH=LBBN BN71 D. HE
L 6AISIP+ AM FOVF FO71 D+ P+7+
R
R INTERCALATED INTERMEDIATE VOLCANIC / WACKE & ARENITE
R - Volcanic consists of lapilli, ash & crystal tuff
R - Sedimentary component increases downhole
R - Colour varies: grades from med to light grey with pinkish
R streaks & bands (30-40%) in the upper part to med grey with
R less pinkish streaks (5-15%) in the lower portion of the
R interval
R - Locally siliceous; local hematitic stain along young
R fractures and foliations
R - 5-15% amphibole partially altered to chlorite
R - gradational contacts
R - occassional young quartz veins (up to 1cm wide) with
R pinkish envelopes
R - local epidote (1%) along young fractures
R - local weak carbonate (interstitial & fracture controlled)
R 70.00 73.13 - Increased pervasive silicification (60%); up to 1 % vfg
R - Occassional very weak interstitial KF proximal to the
R lower contact
R PY as disseminations and foliaform wisps
R
R

P 77.25 79.78 3A 96D 1CHFDCA+FOVF C/78BN75 D* CB
L 3G CHD2 FO75 D+
R
R MAFIC TO INTERMEDIATE FLOW
R - Mottled med and dark green; well foliated, vfg
R - Weak carbonate along foliations
R - 2-3% old QZ veins & CB veinlets
RQVN 77.25 77.46 - Quartz vein (old) coincident with upper contact; hosts
R 10% chloritic clasts; intense pervasive KF at the lower
R contact; the KF alt is interstitial within the adjacent
R mafic volc, and rapidly weakens away from the vein; within
R the vein KF occurs along fractures parallel to foliation
RKF 79.13 79.78 - Gradational increase in wacke component;
R Weak to mod interstitial KF occurs within the int. volc;
R Foliaform & dissem PY (up to 2%)
R
R

P 79.78 81.76 6D X QZFD FOBN C/74 D.
L 6IGCHD1 CH BN70 D1
R
R CHLORITIC WACKE
R - Weakly banded to streaked med greenish-grey and pinkish-
R orange
R - Equigranular, vfg, poorly banded with mod foliation;
R bands range from <1cm to 3cm
R - Approx equal proportions of light and dark bands, however
R the darker component increase downhole
R - Dark bands: CH(15-20%), QZ(50-60%) & FD(20-35%)
R - Light bands: CH(up to 5%), remainder QZ & FD
R - Appears that the chlorite is from amphibole
R - occassional weak interstitial KF alteration
R - 1-2% foliaform QZ-CB veinlets
R - occassional dissem PY
R - Local epidote along young fractures
R
R

P 81.76 91.32 6A X QZFD BNFO C/70BN58 D.<. CP
L 6A CHD+KFJ)BI VFLM FO70 J) D+D. <.
R
R BIOTITIC ARENITE
R - Finely banded (<1-2cm) light and med grey
R - BI alterd to CH; occassional GA; local interstitial KF
R (1-2%) along laminations; occassional weak SE
R - Trace PY, PO & CP along young QZ veinlets & fractures;
R <1% vfg PY as dissem & foliaform wisps
R 84.53 87.85 - 2-3% salt & pepper bands (calc-silicate) ranging to 3cm
R 87.70 90.85 - Early (old) gabbroic dykes (20%) ranging from 1-34cm;
R mainly foliaform, however at 89.98m is a good example of
R the dyke cutting the banding; vfg, approx 50% CH & FD
R
R

PAS 91.32 94.14 6A 56D 5QZFDGA+VFBN
L 6A SED+KFJ)BI FOPB J) D+ B+
R
R BIOTITIC ARENITE / WACKE WITH GARNET PORPHYROBLASTS
R - 1% early (old) QZ veins & boudins up to 2cm wide with
R <1% dissem PY
R - GA occurs in vfg crystal aggregates (up to 1mm dia) that
R locally increase in concentration up to 3%
R - Locally up to 3% interstitial KF along the more porous
R arenite bands
R - 5-15% brown BI partially altered to sericite (3-5%)

R - Occassioanal chloritic band (mafic dyke?)
R - Gradational contact
R
R

PAS 94.14 96.80 6A 86B 2QZFDGA)LMFO D*
L 6A SED+KFJ)BI VFPB J) D+ B)
R
R ARENITE WITH ARGILLACEOUS LAMINATIONS & GA PORPHYROBLASTS
R - Laminated med grey & dark grey
R - Occassional old (early) QZ veins / lenses
R - Argillaceous laminations are dominated with dark brown BI
R - In several cases the BI laminations cause the arenite
R to take on a fragmental appearance, thus the laminations
R may represent a deformed breccia stockwork along which
R potassic alteration has taken place (only a possibility).
R
R

PAS 96.80 101.34 6D X QZFDGA+FOBN C/75FO70 D.
L 6A BIST-PB BN70
R
R BIOTITIC WACKE WITH GARNET & STAUROLITE PORPHYROBLASTS
R
R

P 101.34 153.27 6C 516B45FDAMGA*LMBN C/77BN70 D) SA
L 6GACHD2 QZ VFFO FO74 D2B* P1
R
R ARKOSE WITH MAFIC DYKES
R - Banded laminated med grey and dark green
R - Gradational upper contact
R - The dark bands (50%) consist of AM(40-60%) & FD(40-60%)
R with bands/lenses of up to 3% GA as well as minor lenses of
R brown BI; GA decreases downhole
R - The lighter bands (50%) consist of 5-10% AM with FD & QZ
R - AM has partially altered to CH
R - Locally siliceous
R - 1-3% foliaform & sub-foliaform QZ veinlets
R - weak CB dissem & along fractures
R 143.22 144.60 - two BI-arenite beds (10 & 60cm wide); <1% dissem PY & SE
R
R

PCH 153.27 160.78 6C X AMFD FOBN BN72 D*
L 6GAKFJ)SED)CH SH FO70 J) D)D2
R
R ARKOSE WITH LOCAL K-SPAR/SERICITE SHEARS

R - up to 10% early (old) shears (2-40cm wide) hosted in
R mafic volcanic
R - shears expressed by domains increased foliation with the
R presence of quartz aggregate blebs (1-4mm long);
R - shear zones consist of 50% mafic volcanic with
R QZ(20-30%), brown BI(5-10%), SE(1-3%), interstitial
R KF(1-3%) and vfg dissem foliatform PY(up to 1%)
R
R

P 160.78 169.79 6C 916B41AMFDGA(FOBN BN80 D-
L 6GA CH VF FO65 D2B*
R
R ARKOSE WITH MAFIC DYKES
R - same as the above interval 101.34-153.27m
R
R

P 169.79 178.95 6C 96D 1QZFD FOBN C/85FO81 D*
L 6A AM VF BN74
R
R MIXED ARKOSE AND MINOR WACKE
R - Int Volc (90%) is banded & weakly foliated; consists of
R vfg amphibole(5-15%), K-feldspar(5-10%), plagioclase
R (30-40%), quartz(35-60%) and <1% dissem PY; the PL is
R partially sausseritized.
R - Wacke is weakly foliated; consists of K-spar (5-10%),
R biotite (5-10%), plagioclase (5-10%), quartz (70-85%) and
R <1% dissem PY
R - 2-3% chloritic calc silcicate bands (up to 3cm wide)
R which contain up to 1% PY & 2% PO
R
R

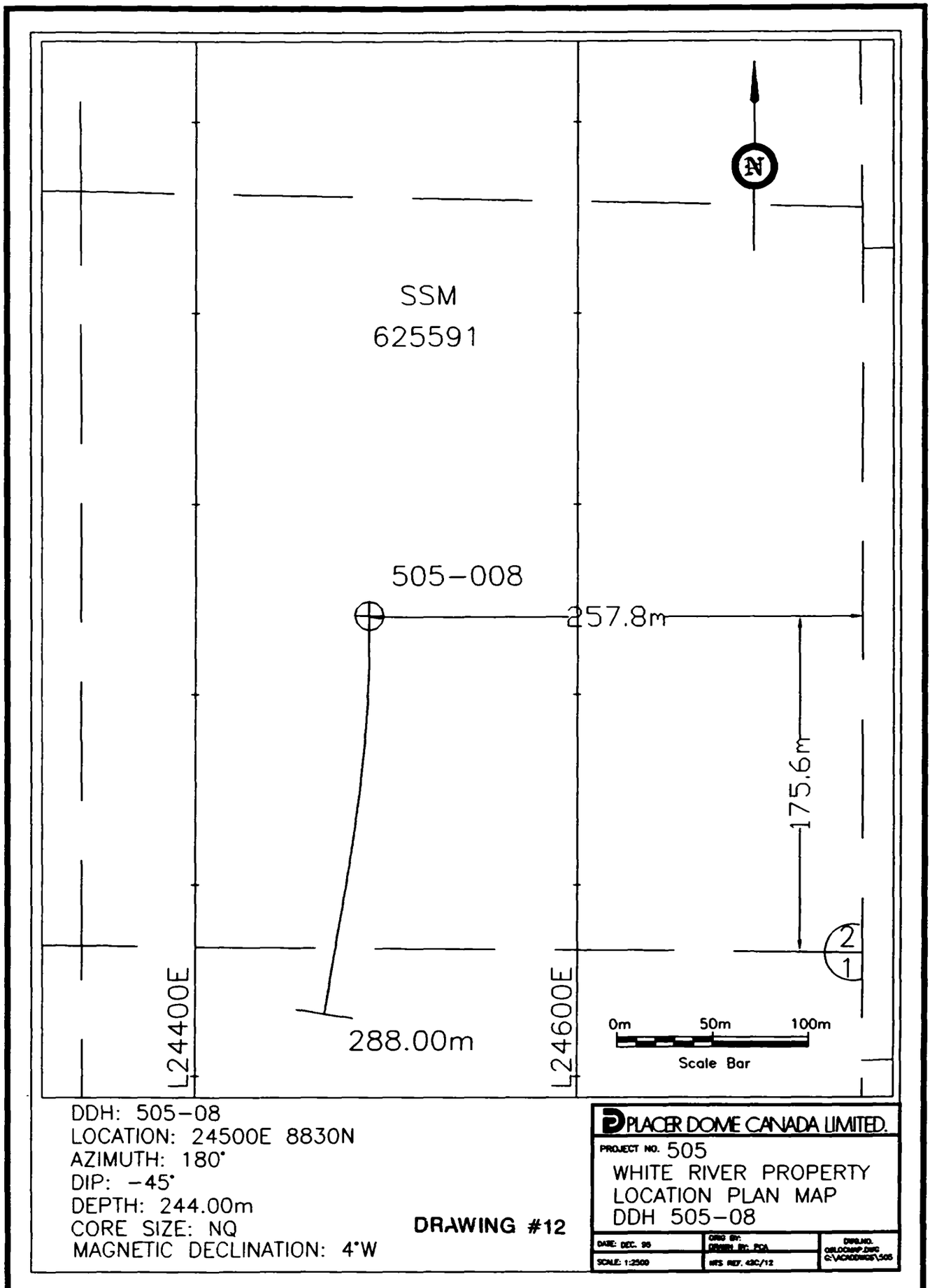
P 178.95 187.26 4B4 X QZFD FOPP C/50 D*
L 7A BI FR FO58
R
R INTERMEDIATE CRYSTAL LITHIC TUFF
R
R - Irregualar upper contact
R - light grey with med grey spots and occassional med green
R and pink lenses
R - Inequigranular with a distinct porphrytic and weak
R fragmental texture
R - Phenos (3-5%), pseudomorphic after amphibole(?) consist
R of brown biotite rimmed with sausseritized plagioclase
R - Fragments (<1%) range up to 4cm long and consist of
R chloritic mafic volcanic

R - Matrix consists of vfg K-spar (5-10%), plag (5-15%),
R quartz (75-85%), amphibole (1-3%) & <1% dissem PY
R
R
P 187.26 205.29 6C 916B41FDAMGA)FOBN C/85BN73 D. CB
L 6GASSP2CHL+QZBI+PB FO73 L+ <+
R
R ARKOSE WITH PRE-DEFORMATION MAFIC DYKES
R - Med greenish-grey with med green bands & white foliaform
R veinlets
R - Inequigranular, weakly banded, moderately foliated and
R weakly porphyroblastic
R - Porphyroblasts (2-3%, locally 5-10%) are generally
R concentrated along the darker bands and consist of
R almandine (1-10mm dia)
R - The dark bands (5%) range up to 5cm wide and consist of
R vfg amphibole (15-20%), sausseritized plagioclase (60-70%),
R chlorite (2-5%), K-feldspar (<1%) and dissem PO (1-3%) with
R garnet porphyroblasts (as above); in many cases the bands
R are deformed and oblique to sub-parallel to foliation, thus
R most probably are mafic dykes
R - The light bands (95%) range from 2-50cm wide and consist
R *f vfg quartz (40-50%), plagioclase (40-50%), biotite
R (up to 10%), amphibole (up to 2%); the plagioclase has been
R sausseritized(?) & causes a greenish hue; occassional zone
R hosting garnet porphyroblasts (up to 3%)
R -1-3% deformed calcite veinlets
R
R
PCH 205.29 210.80 3A X CHAM FOVF C/80 D)CB
L 6G CHD2 FD FO84 D3 <+
R
R MAFIC FLOW
R - 5-10% AM, 15-20% CH, 60-70% FD, 2-5% MG
R
R
P 210.80 217.83 3A4 X FDAM FOVF FO70 #*D) D+CB
L 6GASE#+CH#+CH BX #)
R
R MAFIC FLOW BRECCIA
R - Gradational contact; upper part is massive to weakly
R brecciated with the breccia intensity increasing downhole
R - clasts (up to 3cm wide) are highly flattened and consist
R of FD(40-50%), chlorite/talc (30-40%), AM(2-5%), MG(2-5%),
R PO(<1%) & PY(<1%)

R - matrix is carbonaceous and consists of varying amounts of
R CH & SE with <1% PY & 1-2% MG
R
R
PSA 217.83 218.44 6D X QZPL FOVF C/60 D)
L 6A SAD2 AM
R
R AMPHIBOLE BEARING WACKE
R
R
P 218.44 219.90 2A X FDBISR=FOVF C/65
L 5GAKFD. CH FO53 D. D2 D1
R
R MAFIC TO ULTRA MAFIC FLOW
R - vfg PL(20-30%), brown BI(20-25%), SR(15-20%), PX(15-20%),
R CH(10-15%); weak pervasive KF alt along selected biotitic
R foliations
R - serpentine increases proximal to both contacts
R
R
P 219.90 222.74 3A4 X FDAM FOVF D)D* D+CB
L 6GASE#+CH#+CH BX #)
R
R MAFIC FLOW BRECCIA (as above)
R
R
P 222.74 223.67 4 X QZFDBI1VFFO C/50 D+
L 6A CHD1 AM
R
R INTERMEDIATE VOLCANIC
R
R
PCS 223.67 238.18 4 X QZFD PBFO FO70 D+ CD
L 6GACHL1GAL+AM BNBX BN70 <+
R
R BRECCIATED INTERMEDIATE VOLCANIC WITH GARNETIFEROUS
BANDS
R - Banded grey and med green with pink spots
R - Inequigranular, weakly foliated and moderately banded
R with local weak deformed(?) breccia textures
R - The green bands (20%) range up to 20cm wide and may be
R highly deformed; consist of almandine porphyroblasts (2-3%,
R locally 10%) up to 5mm dia set in a vfg chloritic matrix
R with amphibole, pyrrhotite (2-5%) and carbonate veinlets
R - The grey bands (60-70%) consist of vfg FD, QZ, CH(3-5%),

R SI (1-5%) and up to 1% dissem PO
R - The carbonate veinlets form a weak stockwork and local
R weak breccia texture; veinlets and brxx are deformed
R - Chloritic bands may represent a mafic dyke swarm
R - % garnet increases and becomes more evenly distributed
R towards the bottom of the interval
R - stockwork / breccia texture decreases downhole
R
R ---
P 238.18 253.20 2A X FDBISR1FOVF C/60BN54 B* D)CB
L 5GAKF#.BI#1CH BX FO53 D/
R
R MAFIC TO ULTRA MAFIC FLOW & BRECCIA
R 238.18 239.65 - massive flow
R 239.65 242.95 - highly brecciated with serpentine and brown BI in the
R breccia matrix; breccia is pre-deformation; occassional
R KF with the brown BI; 10-20% serpentine
R
R ---
PTA 253.20 262.79 1A X TAFD FOVF C/76 D)
L 5A FO45
R
R ULTRAMAFIC FLOW
R - Approx equal proportions of talc and feldspar with 1-2%
R dissem magnetite
R 261.07 262.79 - gradational lower contact
R
R ---
PTA 262.79 265.17 2A X FDAM FOVF C/50 D) D)
L 5GASR#2 CH BX FO50
R
R MAFIC TO ULTRAMAFIC FLOW BRECCIA
R - clasts (up to 1cm wide) are highly flattened with the
R breccia matrix mainly consisting of serpentine and minor
R PO & MG
R - clast supported
R 265.00 265.17 - broken core, may be a fault
R
R ---
P 265.17 274.00 14B X PLAMBI=MXPP C/55 D*
L 6A KFJ1CHD1QZ J1 D1
R
R LATE FELDSPAR PORPHYRY (young)
R - Porphyritic, massive, locally very weakly foliated
R - 5-10% plagioclase phenocrysts (.5-2mm) set in a fg matrix

```
R           consisting of QZ(30-40%), AM(5-10%), BI(5-10%), FD(30-40%),
R           <1% vfg dissem PY;  AM partially altered to chlorite
R           - 5-10%, locally 15% interstitial KF alteration
R           - although phenocrysts may be pink, they do not react to
R           KF stain
R           - much finer grained and equigranular proximal to both
R           contacts
R
R           ____________________________________________________________
PAB 274.00 275.57  4  X   FDQZBI1VFFO   C/45     D)
L            6A KFJ-CHD=AM
R
R           INTERMEDIATE VOLCANIC
R           - Weak interstitial KF with BI rich laminations
            - AM partially altered to chlorite
R           - 1-2%, locally 3-4% foliaform wisps of vfg PO
R
R           ____________________________________________________________
P  275.57 278.60  2A  X   FDAMSR2FOVF   FO51     D*       D)
L            7G      CH
R
R           MAFIC TO ULTRAMAFIC FLOW
R
R           ____________________________________________________________
P  278.60 300.96  1A  52A  5FDAMSR2FOVF   C/35     D)       D)
L            3A       TA2
R
R           INTERCALATED ULTRAMAFIC & ULTRAMAFIC TO MAFIC FLOW
R           - Gradational contacts
R           - Varies from talc dominant to serpentine dominant rocks
R           - Local weak breccia textures, may be flow top breccia;
R           matrix consists of talc +\- serpentine +\- chlorite
R
/END
```



DDH: 505-08
LOCATION: 24500E 8830N
AZIMUTH: 180°
DIP: -45°
DEPTH: 244.00m
CORE SIZE: NQ
MAGNETIC DECLINATION: 4°W

DRAWING #12

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER PROPERTY
LOCATION PLAN MAP
DDH 505-08

DATE: DEC. 95	DRG BY: DRAWN BY: PDA	DWG.NO. G:\LOCMAP.DWG G:\ACAD\RIGS\505
SCALE: 1:2500	WFS REF. 43C/12	

*** WHITE RIVER ***
PLACER DOME CANADA INC.

Drill Hole: 0505-008

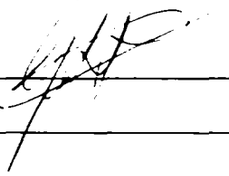
Date: 21st Dec, 1995
Northing : 0.00
Easting : 0.00
Elevation : 0.00
Hole Depth : 288.00mt

Project ID : 505
Core Size : NQ
Date Logged : 26AUG95
Logged By : GGS
Assisted by :
Drillers :
Drill date : AUG95
Rig Type : BBS
Drill Time :
Print Template : GTRAN001.FMT

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	180.00	-45.00
20.00mt	180.00	-45.00
110.00mt	186.00	-43.00
215.00mt	190.00	-42.00
233.00mt	190.00	-42.20
263.00mt	189.00	-42.10

Grid Azimuth: 0.00
Coord System:



From	To	Geology
0.00	8.00	Overburden
8.00	8.85	Flow (unsubdivided), Greenish-Gray, Feldspars (general), Chlorite, Amphiboles (general), Serpentine, Talc, Foliated, Very Fine Grained
8.85	9.00	Fault
9.00	16.22	Flow Breccia, Greenish-Gray, Feldspars (general), Chlorite, Amphiboles (general), Serpentine, Talc, Foliated, Very Fine Grained, Brecciated
16.22	16.50	Fault
16.50	20.78	Flow Breccia, Flow (unsubdivided), Greenish-Gray, Feldspars (general), Chlorite, Amphiboles (general), Serpentine, , Talc, Foliated, Very Fine Grained, Brecciated
20.78	22.20	Flow (unsubdivided), Greenish-Gray, Feldspars (general), Chlorite, Amphiboles (general), Serpentine, Foliated, Very Fine Grained
22.20	22.70	Fault
22.70	23.00	Flow (unsubdivided), Greenish-Gray, Feldspars (general), Chloritoid, Amphiboles (general), Serpentine, Foliated, Very Fine Grained
23.00	23.28	Sandstone, Grayish-white, Quartz (general), Amphiboles (general), Chlorite, Very Fine Grained, Banded, Laminated
23.28	24.54	Greywacke, Gray, Quartz (general), Amphiboles (general), Feldspars (general), Biotite, Very Fine Grained, Foliated
24.54	28.70	Sandstone, Grayish-white, Quartz (general), Biotite, K-feldspar, Very Fine Grained, Banded, Laminated
28.70	29.78	Greywacke, Gray, Quartz (general), Feldspars (general), Biotite, Very Fine Grained, Foliated
29.78	35.49	Sandstone, Gray, Quartz (general), Feldspars (general), Amphiboles (general), Chlorite, Very Fine Grained, Foliated
35.49	66.79	Greywacke, Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Foliated, Very Fine Grained
66.79	67.77	Arkose, Gray, Feldspars (general), Quartz (general), Chlorite, Foliated, Porphyroblastic
67.77	73.14	Greywacke, Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Garnet, Very Fine Grained, Banded, Foliated, Porphyroblastic
73.14	108.26	Greywacke, Sandstone, Brownish-gray, Quartz (general), Feldspars (general), Biotite, Very Fine Grained, Foliated, Fine Grained
108.26	129.31	Greywacke, Gray, Quartz (general), Feldspars (general), Biotite, Garnet, Foliated, Very Fine Grained, Porphyroblastic, Fine Grained
129.31	133.16	Greywacke, Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Foliated, Very Fine Grained, Laminated
133.16	134.46	Sandstone, Greenish-Gray, Quartz (general), Feldspars (general), Chlorite, Foliated, Very Fine Grained
134.46	137.86	Sandstone, Greenish-Gray, Quartz (general), Feldspars (general), Chlorite, Biotite, Foliated

From	To	Geology
137.86	142.36	Sandstone, Greenish-Gray, Quartz (general), Feldspars (general), Biotite, Garnet, Very Fine Grained, Foliated
142.36	161.71	Sandstone, Brownish-gray, Quartz (general), Feldspars (general), Biotite, Very Fine Grained, Foliated
161.71	185.70	Greywacke, Sandstone, Brownish-gray, Quartz (general), Feldspars (general), Biotite, Foliated, Very Fine Grained
185.70	195.16	Volcaniclastic, Conglomerate, Gray, Feldspars (general), Quartz (general), Calcite, Biotite, Chlorite, Fragmental, Sheared
195.16	200.75	Volcaniclastic, Sandstone, Pinkish-gray, Feldspars (general), Quartz (general), Biotite, Chlorite, Foliated, Banded
200.75	215.64	Arkose, Greywacke, Pinkish-gray, Quartz (general), Feldspars (general), Calcite, Biotite, Fractured, Banded
215.64	224.72	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Banded, Sheared
224.72	232.25	Sandstone, Volcaniclastic, Grayish-white, Quartz (general), Feldspars (general), Calcite, Biotite, Banded, Sheared
232.25	256.47	Volcaniclastic, Greenish-Gray, Feldspars (general), Chlorite, Muscovite, Amphiboles (general), Biotite, Banded, Foliated
256.47	257.51	LAMPROPHYRE, Black, Biotite, Feldspars (general), Pyroxenes (general), Chlorite, Massive
257.51	288.00	Volcaniclastic, Green, Feldspars (general), Chlorite, Biotite, Amphiboles (general), Banded, Foliated
288.00		** END OF HOLE **

White River DDH 0505-008 Detailed Remarks

R Starting Date: August 16,1995
R Completion Date: August 31,1995
R Drill Contractors: Bradley Bros. Limited
R
R Logged By: Glenn Shevchenko & Stephen Roach
R Log Completed: Sept. 4, 1995
R
R Casing: 8.0 meters (left in hole)
R
R Coordinates (Lac Grid) Line 5800 E
R Station 150 S
R
R Coordinates (Placer Dome Grid) Line 24500 E
R Station 8830 N
R
R Survey Coordinates UTME: 591648.26
R UTMN: 5391135.32
R Elev: 407.70 metres (asl)
R
R Claims Drilled: SSM 625591
R SSM 625592
R
R Core Storage: Cedar Lake Camp
R

P 0.00 8.00 OVBDX
L
R
R _____
P 8.00 8.85 2A X FDCHSR1FOVF D* D*
L 6GA AMTA-
R
R MAFIC TO ULTRAMAFIC FLOW
R _____
P 8.85 9.00 FALTX
L
R _____
P 9.00 16.22 2E X FDCHSR1FOVF D* D)
L 6GA AMTA-BX
R
R MAFIC TO ULTRAMAFIC FLOW BRECCIA
R - Weak deformed breccia fabric; breccia matrix contains
R varying amounts of SR +/- CH +/- TA +/- MG +/- PO; appears

```
R            to be flow top breccia
R            ____________________________________________________________
P   16.22 16.50   FALTX
L
R            ____________________________________________________________
P   16.50 20.78   2E 82A 2FDCHSR1FOVF   C/45     D*        D)
L            6GA      AMTA-BX     FO55
R
R            MAFIC TO ULTRAMAFIC FLOW & FLOW BRECCIA (as above)
R            ____________________________________________________________
PBI 20.78 22.20   2A X   FDCHSR1FOVF          D.D)
L            6GABIL1   AM
R
R            MAFIC TO ULTRAMAFIC FLOW WITH BIOTITE LAMINATIONS
R            - 10-20% brown BI in bands / laminations (1-20mm)
R            - PO increases to 1-2% with trace PY proximal to the lower
R            contact
R
R            ____________________________________________________________
P   22.20 22.70   FALTX              C/30
L
R            - fault gouge and blocky core; same 2A unit as previous
R            interval
R            ____________________________________________________________
PBI 22.70 23.00   2A X   FDCDSR=FOVF
L            6GABIL=   AM
R
R            MAFIC TO ULTRAMAFIC FLOW WITH BIOTITE LAMINATIONS
R            - as above but no sulphides or magnetite
R            ____________________________________________________________
P   23.00 23.28   6A X   QZAMCH)VFBN   BN40
L            7AW          LM     FO40
R
R            BANDED GREY & WHITE QUARTZ ARENITE
R            - bands of vfg grey and white quartz with 2-3% amphibole
R            which is partially atlered to chlorite
R            - 1% almandine and 3% chlorite along late fractures
R            - no visible sulphides
R            ____________________________________________________________
P   23.28 24.54   6D X   QZAMBI=VFFO   C/50   D.
L            6A       FD         FO55
R
R            BIOTITIC WACKE
R            - Sharp contact
R            - 5-10% brown BI, 5-10% amphibole (partially alt to CH),
```

R feldspar (15-20%), quartz (60-80%), carbonate (5%) and
R trace dissem PY
R

P 24.54 28.70 6A X QZ BI+VFBN C/30 D)
L 7AW KF)LM
R
R BANDED GREY & WHITE QUARTZ ARENITE
R - vfg grey and white quartz with 1-3% BI, 1% dissem PO and
R occassional bands with up to 10% K-feldspar grains
R
R

P 28.70 29.78 6D X QZFDBI1VFFO C/35 D(D*
L 6A FO45
R
R BIOTITIC WACKE
R - vfg 10-20% BI with QZ & FD, <1% dissem PY & MG
R
R

P 29.78 35.49 6A X QZFDCH+VFFO C/45 D) D*
L 6A CHD+ AM FO30 D+
R
R IMMATURE CHLORITIC ARENITE
R - Blocky core
R 31.08 31.14 - Extremely blocky zone, may be a fault
R 31.90 32.00 - Extremely blocky zone, may be a fault
R - Med grey, equigranular, vfg, weakly foliated
R - 1-3% AM, 3-5% CH, 10-20% FD, 80-90% QZ
R
R

P 35.49 66.79 6D 86A 2QZFD FOVF FO61 D* D(
L 6A CHD* BI
R
R BIOTITIC WACKE, MINOR IMMATURE ARENITE
R - Med grey to brownish grey
R - Equigranular, vfg, weak to moderately foliated
R - Consists of BI(10-15%, locally up to 20%), FD(20-25%),
R QZ(60-70%); local zones of chlorite (up to 5%); <1% dissem
R PY and magnetite; local zones of fine-med grained sericite
R (2-3%), vf to fg sillimanite(2-3%), anhedral kyanite(1-2%),
R staurolite (1-3%) & occassional almandine
R - Al-silicates appear to represent a minor clay component
R as opposed to argillic alteration
R
R

P 66.79 67.77 6C X FDQZ FOPB C/70 D)

L 7A CH+ CH D+
R
R ARKOSE
R - 1-2% chlorite porphyroblasts (1-2mm) set in vfg matrix
R consisting of FD(60-70%), QZ(35-40%), CH(3-5%), PO(1-2%)
R
R
P 67.77 73.14 6D 66A 4QZFDGA+VFBN C/65BN68 D)
L 6A CH+ BI FOPB FO68 D+
R
R BANDED GARNETIFEROUS BIOTITIC WACKE & ARENITE
R 69.00 69.12 - Hydrothermal Brxx (old); QZ healed with local intense
R pervasive & fracture controlled KF alteration; <1% dissem
R PY
R 69.23 69.52 - % Almandine porphyroblasts increases to 15-20%; 5-10% CH,
R up to 1% PO
R
R
P 73.14 108.26 6D 76A 3QZFD VFFO FO59 D*
L 7BA BI FG
R
R INTERCALATED BIOTITIC WACKE / ARENITE
R - Gradational with previous unit
R - Light brownish-grey, equigranular, vfg to fg, weak to mod
R foliation, weakly banded
R - 20% beds of slightly coarser grained wacke
R - Brown BI(10-15%, locally 20%), FD(20-30%, local bands
R up to 60%), QZ(40-60%), vfg dissem PY(<1-
R - Local silicification along young fractures causes
R alteration of biotite to chlorite
R 77.13 77.52 - Deformed dyke; 15-20%BI, 10-15%CH, 5%CB, 60-70%FD
R - Occassional deformed QZ veins (up to 1cm wide) and mafic
R dykes (up to 1cm wide)
R 100.76 100.88 - Broken core
R 100.88 101.02 - Weak to moderate pervasive silicification
R
R
P 108.26 129.31 6D X QZFDGA)FOVF FO60 D. D.
L 6A BI PBFG BN74
R
R GARNETIFEROUS BIOTITIC WACKE
R - Med grey, inequigranular, weakly porphyroblastic
R - 10-20% beds of slightly coarser grained wacke
R - <1%, locally 1-2% almandine porphyroblasts (<1-2mm dia)
R set in vfg matrix of QZ, FD, brown BI(10-15%, locally 20%),

R & <1% dissem PO;
R - Local bands of weakly plagioclase porphyroblastic wacke
R - Local zones of late (young) fracturing with silica
R which alters BI to CH; usually accompanied by increased
R sulphides, PY(up to 1%) % PO(up to 2%)
R - 1% deformed quartz veins
R - General increase in garnet downhole
R
R
P 129.31 133.16 6D 76A 3QZFD FOVF FO58 D)D(D)
L 6A BI LM V+
R
R INTERCALATED BIOTITIC WACKE / IMMATURE ARENITE
R - Med grey, equigranular, vfg, weakly laminated/banded,
R weak to moderately foliated
R - BI(10-15%, locally 20%), 1-2% dissem CB with FD & QZ;
R - 2-4% calc-silicate bands/veins ranging from 0.3 to 3.0cm
R in width; occur foliaform and oblique to foliation; both
R foliated and non foliated minerals occur in the same bands;
R bands host up to 3% fg PY; % calc-silicate bands increases
R downhole
R - % Sulphides increases downhole; 1 to locally 3% vfg PY
R & <1% vfg PO occur as dissem & foliaform wisps; Sulphides
R increase proximal to the calc-silicate bands
R
R 131.58 133.16 - up to 5% calc-silicate bands, locally PY (3-4%)
R
R
P 133.16 134.46 6A X QZFD FOVF D+ D+
L 7GACHD+ CH V+ D=
R
R IMMATURE ARENITE
R - Gradational contact
R - Light greenish-grey, equigranular, vfg, weakly foliated
R - FD & QZ with up to 5%CH probably altered from BI; 1-2%,
R locally 3%, vfg dissem PY, 1 to 2% vfg dissem MG
R - 2-4% calc-silicate bands <1 - 2cm wide
R
R
PCH 134.46 137.86 6A X QZFD FO FO80 D+ D+
L 7GASLP2 CHBI V=6= D= P2
R
R IMMATURE ARENITE WITH LOCAL SILICIFICATION
R - Banded light greenish-grey, med grey and brownish-grey
R - FD & QZ with up to 5% CH probably altered from BI; 1-3%

R vfg dissem PY, 1-2% vfg dissem MG
R - 3-5% calc-silicate bands
R - local moderate to intense pervasive silica in 20% of the
R interval
R - local intense pervasive KF alt; up to 5% KF along late
R fractures
R
R
P 137.86 142.36 6A X QZFDGA.VFFO D)
L 7GA BI V+
R
R IMMATURE BIOTITIC ARENITE
R - Similiar to above but no silification
R - % calc-silicate bands and % sulphide decreases downhole
R
R
P 142.36 161.71 6A X QZFD VFFO FO76 D*D*
L 7BA BI BN85
R
R IMMATURE BIOTITIC ARENITE
R - Light brownish-grey, equigranular, vfg, poorly foliated
R - Occassional calc-silicate bands and local young quartz
R veins
R - 5-10% dark brown BI with FD & QZ; <1% PY & PO
R 152.33 153.26 - Local chloritic zone hosting 1-2% vfg dissem PY
R 156.66 157.24 - Local sericite (1-2%)
R 160.07 160.33 - Deformed quartz vein with 1% PY
R
R
P 161.71 185.70 6D 86A 2QZFD FOVF FO76 D*
L 6BA BI
R
R BIOTITIC WACKE WITH MINOR IMMATURE ARENITE
R - Gradational change to wacke as dominant rock type
R - BI content is generally at the 15% margin
R - Local zones of highly broken core
R - Occassional calc-silicate bands
R - PY <1%, locally up to 2%
R 165.21 165.60 - Blocky core
R 172.00 172.90 - Blocky core
R 173.49 173.64 - Blocky core
R 163.85 166.00 - Locally up to 2% dissem PY, 2-3% deformed QZ-FD veins
R 169.75 174.00 - Locally up to 2% dissem PY
R
R

PCB 185.70 195.16 4B5 56E 5FDQZBI1FRSH SH86 D= D)
L 6A CAE1 CACH) C/85 ?)
R
R Polymictic Intermediate Volcaniclastic/Conglomerate
R
R -gray to grayish white color, intermediate composition
R having a moderate to strong ca/cb content (primary vs
R hydrothermal?), weak to locally moderate biotite (10% to
R 15%) and weak chlorite (< 5%), weak Kspar alteration and is
R generally found as fracture-filling (< 1% to 5%)
R
R -well developed polymicitic texture with 15% to 25% cherty,
R felsic metavolcanic, and metasedimentary clasts up to 5.0
R cm in size, clasts are generally sub-rounded to rounded
R being sub-elliptical due to shearing, fragment supported
R reworked lapilli-tuff/volcaniclastic and/or conglomeratic
R from 185.70 to 192.84 with reworked tuff from 192.84 to
R 195.16.
R
R -strongly foliated/sheared varying 75 to 97, occassional to
R local 10% qs/qcs - associated ca flooding in the matrix and
R also associated with veining.
R
R -variable < 1% to 10% pyrite as both scattered v.f.g. to
R c.g. cubes (metamorphic) and as fracture-filling, overall
R average of 5%, increase in py from 189.00 to 191.00 varying
R from 5% to 10%, also, py may occur as discrete clasts, mod-
R erately magnetic with 1% to 2% magnetite, magnetite occurs
R as v.f.g. to m.g. 'growths' hosted within the pyrite and/or
R along the pyrite surface boundaries, pyrite is generally
R foliated, but magnetite is generally not.
R
R contact - sharp contact 85 dca
R
R

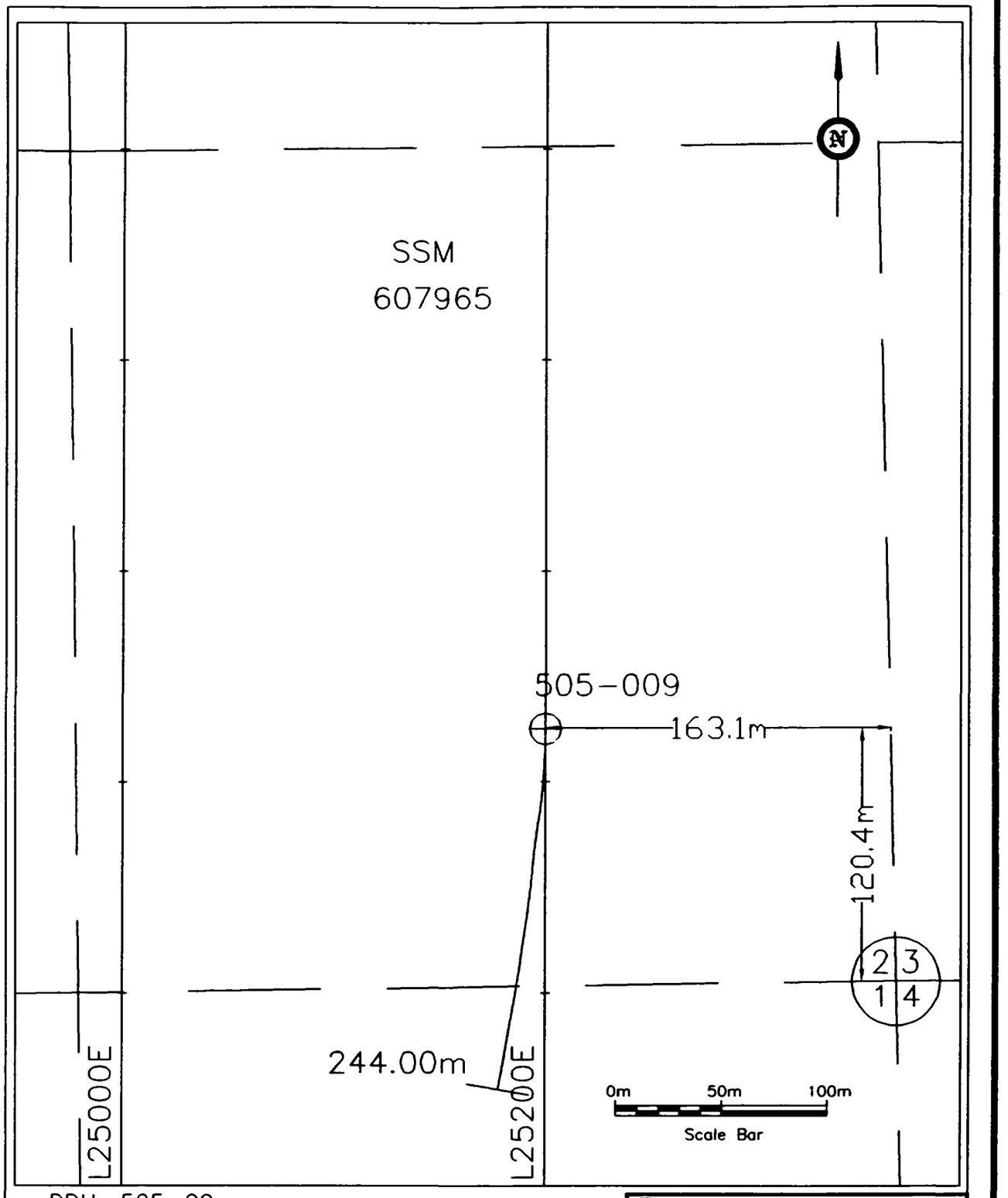
PKHE 195.16 200.75 4B5 56A 5FDQZCH1FOBN FO89 D+ D(
L PGKFD1 BI D1
R
R Intermediate Volcaniclastic Tuff/Greywacke
R
R -pinkish-gray to gray to greenish-gray color, intermediate
R in composition with weak to moderate ca/cb, weak chlorite
R and 5% biotite, moderate to locally strong pervasive pink
R Kspar alteration from 195.16 to 197.00 varying from 5% to
R to 30% and averaging between 15% to 20% - Kspar occurs as

R disseminated grains with minor fracture-filling, occassional thin seam (< 10 cm wide) of pinkish Kspar from 197.00 to 200.75.
R
R -banded/sheared/foliated texture varying 85 to 92 dca, possibly the bands may reflect clasts - are rounded clasts in the Kspar altered section up to 3.0 cm in size and < 5% in concentration, scattered qcs/qs varying 1% to 5%.
R
R -2% to 4% scattered, foliated f.g. to m.g. pyrite cubes, weakly to locally moderately magnetic up to 1% scattered magnetite grains - general decrease in mg towards 200.75
R
R contact - sharp contact 100 dca
R
R
PQS 200.75 215.64 6C 56D 5QZFDBI+FXBN BN93 D+ D.
L PGKFD1SIJ2CA FO92 D1 J2
R
R Quartz-(Carbonate) Stockwork (Arkosic Wacke)
R
R -bleached gray, gray, to pinkish gray color, overall, a v.f.g. and aphanitic matrix composed of qz-fd with < 5% bi, weakly to moderately silicified with variable pink Kspar alteration from 5% to locally 30% - occurs in varying forms as disseminated grains, fracture-filling, and pervasively along bands/shears/lenses, upper part of this section has moderate to strong ca/cb, with a gradual decrease with depth.
R
R -overall, a variable fractured texture with 2% to 100% qs/qv/qcs/qcv - overall average is 20% with an increase in veining from 208.43 to 210.57 varying from 20% to 56%
R
R 204.50 to 205.10 - Quartz Vein, milky white color, v.f.g. and fractured being composed of qz with minor ca, 5% to 10% silicified-Kspar altered inclusions up to 4.0 cm wide, up to 1% py cubes associated with inclusions, sharp 75 dca upper and 135 dca lower contacts
R
R -relict compositional banding (metamorphic) and/or primary banding/bedding varying 90 to 105 dca
R -1% to 5% widely scattered to scattered f.g. to m.g. pyrite cubes with minor cpy < 1%, minor occurrences of pyrite fracture-filling, weakly magnetic with < 1% scattered mg

R
R contact - gradational contact
R
R
PSIF 215.64 224.72 6A X QZFDBI+BNSH BN C/99 D* D/
L 8A KFD2SIJ2 SH D2 J2
R
R Kspar Altered Arenite-Arkose
R
R -gray to bleached gray color, v.f.g. composition of qz-fd-
R (bi) with < 5% biotite, weak o locally moderate ca/cb, 20%
R to 30% disseminated Kspar in banded-form associated with
R moderate to locally strong silicification in bleached sec-
R tions, v.f.g. and an aphanitic matrix.
R
R -banded/sheared texture varying 95 and 105 dca, occassional
R to locally frequent qcs/qs varying from 2% to 20% with in-
R creased veining/stringers from 218.18 to 218.75 (15% to
R 20%), and from 223.00 to 224.72 (10% to 15%).
R
R -occassional to local increase in stringers/veining varying
R from < 1% to 5% - increase in py 2% to 5% from 218.18 to
R 218.75, py occurs as disseminated grains, weakly magnetic
R with < 1% mg with 1% to 2% mg from 224.00 to 224.72
R
R contact - sharp contact 99 dca.
R
R
PAB 224.72 232.25 6A 55B5 5QZFDBI)BNSH BN92 D) D*
L 8AWSIJ3KF CA SH89 J3
R
R Albitized Arenite/Intermediate Tuff/Lapilli-Tuff
R
R -light gray, bleached pinkish-gray, to grayish-white color,
R inter. composition with a cherty appearance throughout this
R section, strongly albitized with no Kspar alteration and
R weak to locally moderate ca/cb in the matrix with a more
R common occurrence of ca gashes, v.f.g. and aphanitic matrix
R is composed of qz-fd-ca with < 1% to 5% bi.
R
R -banded/sheared texture varying 80 to 103 dca, possible
R primary fragmental texture from 229.80 to 232.25 or a
R sheared tectonic zone with felsic or silicified
R 'clasts' varying 10% to 15% and are up to 2.5 to 3.0 cm in
R size, occassional to locally scattered qs/qcs varying < 1%

R to 5% with 15%qs/qcs from 231.00 to 232.25, this section
R has the appearance of being strongly 'cherty' with the
R the fracturing being a crackle breccia with ca/cb gashes.
R
R -6.0 late mafic dyke at 231.68 with chill zones trending
R 35 dca.
R
R -occassional to widely scattered pyrite up to 1%, but gen-
R erally < 1%, py occurs as v.f.g. granules/cubes, possibly
R a spec of aspy < 0.5%, overall, weakly magnetic with < 1%
R mg with a gradual decrease in magnetics from 226.50
R
R contact - sharp contact 105 dca with an 8.0 cm wide qs
R
R ---
P 232.25 256.47 3B5 X FDCHAM1BNFO BN87C/55 D)D*
L GA MUBI+ FO86
R
R Intermediate to Mafic Volcaniclastic/Tuff
R
R -green to grayish-green color, intermediate to mafic in
R composition with weak to moderate chlorite, weak ca/cb con-
R tent that is commonly associated with ca stringers/qcs,
R composition is fd-ch-am-ca-bi-ms-(qz) in a v.f.g. matrix,
R gradationally more common occurence of f.g. am clots with
R depth varying 5% to 10%.
R
R -foliated and banded varying from 76 to 96 dca, strongly
R sheared and fractured from 241.00 to 242.70 with numerous
R 10% to 15% qcs xcutting ms-rich bands (10% to 15% ms) - as-
R sociated strong ca/cb, overall, numerous qcs/qs/cs varying
R 3% to locally 15% with the stringers being generally para-
R llel to the foliation/banding.
R
R 244.40 to 245.25 - Arenite/Arkose interbed, gray color,
R arenaceous with qz-fd with 5% bi grains
R and 1% to 2% fd lithic xtls, massive
R interbed with sharp contacts.
R
R -occassional to scattered grains of py-po > cpy with in-
R creased sulphides from 232.25 to 235.00 (1% to 2%) and from
R 241.00 to 242.70 (1% to 3%), weakly magnetic with local
R thin sections of increased magnetics (1% to 2%).
R
R contact - sharp contact 55 dca

```
R
R
P   256.47 257.51   15 X   BIFDCH2MX     C/35    D/        D(
L              N      PX
R
R             Lamprophyre
R
R             -black color, mafic to ultramafic in composition being
R             v.f.g. and aphanitic  with moderate biotite & chlorite
R             in the matrix, weak to moderate ca.
R
R             -massive appearance, no  xcutting qcs/qs
R             -barren to occassional py < 1% and weakly magnetic with <
R             1% magnetite.
R
R             contact - sharp contact 35 dca.
R
P   257.51 288.00   3B5 X   FDCHAM1BNFO   BN86    D)D*      D/
L              G      BI        FO90
R
R             Intermediate to Mafic Volcaniclastic
R
R             -similar to section from 232.25 to 256.47 with...
R
R             1) weakly banded/foliated 78 to 95 dca.
R
R             280.36 to 281.55 - Arkose, gray color, composition of fd-qz
R                          being v.f.g. and f.g., massive interbed,
R                          sharp contacts 90 dca
R
R             2) 5% to local 10% qcs/cs/qs parallel to banding/foliation
R
R             3) occassional to widely scattered po-py-(cpy) with the
R               overall average < 1% with local sections from 265.00 to
R               270.00 and from 281.55 to 284.00 from < 1% to 3% po-py
R               -(cpy).
R
R
/END
```



DDH: 505-09
LOCATION: 25200E 9125N
AZIMUTH: 180°
DIP: -45°
DEPTH:244.00m
CORE SIZE: NQ
MAGNETIC DECLINATION: 4°W

DRAWING #13

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER PROPERTY
LOCATION PLAN MAP
DDH 505-09

DATE: DEC. 98	ORG BY: DRAWN BY: PCA	DRG.NO. DRLOCMAP.DWG G:\ACADDWGS\505
SCALE: 1:2500	NTS REF. 43C/12	

*** WHITE RIVER ***
PLACER DOME CANADA INC.

Drill Hole: 0505-009

Date: 21st Dec, 1995
Northing : 9125.00
Easting : 25200.00
Elevation : 0.00
Hole Depth : 244.00mt

Grid Azimuth: 0.00
Coord System:

Project ID : 505
Core Size : NQ
Date Logged : 02SEP95
Logged By : SNR
Assisted by :
Drillers : BRAD
Drill date : SEP95
Rig Type :
Drill Time :
Print Template : GTRAN001.FMT

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	180.00	-45.00
58.00mt	188.00	-45.00
97.00mt	186.00	-45.50
136.00mt	188.00	-45.00
187.00mt	190.00	-45.00
244.00mt	190.00	-44.20

From	To	Geology
0.00	0.86	Overburden
0.86	34.78	Arkose, Greywacke, Gray, Feldspars (general), Quartz (general), Biotite, Chlorite, K-feldspar, Banded, Interbedded, Foliated
34.78	38.66	Arkose, Greywacke, Pinkish-gray, Quartz (general), Feldspars (general), Epidote, Biotite, Fractured, Brecciated
38.66	72.68	Arkose, Greywacke, Gray, Quartz (general), Feldspars (general), Biotite, Banded
72.68	76.67	Granodiorite, PORPHYRITIC FELSIC INTRUSIVE (Old - Late), Gray, Feldspars (general), Quartz (general), Biotite, Porphyritic
76.67	82.22	Arkose, Greywacke, Gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Banded
82.22	89.12	Arkose, Greywacke, Pinkish-gray, Quartz (general), Feldspars (general), Amphiboles (general), Biotite, Foliated
89.12	90.70	Arkose, Greywacke, Gray, Feldspars (general), Quartz (general), K-feldspar, Biotite, Foliated
90.70	91.39	Granite, Pinkish-gray, Feldspars (general), Quartz (general), K-feldspar, Biotite, Porphyritic
91.39	100.42	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Banded
100.42	101.24	Granite, PORPHYRITIC FELSIC INTRUSIVE (Old - Late), Pinkish-gray, Feldspars (general), Quartz (general), Biotite, K-feldspar, Porphyritic
101.24	101.82	Sandstone, Gray, Quartz (general), Feldspars (general), Biotite, Banded
101.82	102.26	Granite, PORPHYRITIC FELSIC INTRUSIVE (Old - Late), Pinkish-gray, Feldspars (general), Quartz (general), K-feldspar, Biotite, Porphyritic
102.26	137.86	Arkose, Greywacke, Gray, Quartz (general), Feldspars (general), Biotite, Banded
137.86	145.52	Volcaniclastic, Green, Feldspars (general), Chlorite, Amphiboles (general), Biotite, Banded
145.52	155.95	Ash Tuff - < 2 mm, Green, Chlorite, Feldspars (general), Epidote, Biotite, Fragmental, Interbedded
155.95	157.13	Quartz Vein, White, Quartz (general), Chlorite, Veined
157.13	182.95	Ash Tuff - < 2 mm, Lapilli Tuff - 2 to 64 mm, Green, Feldspars (general), Chlorite, Epidote, Biotite, Fragmental, Foliated
182.95	188.73	Mafic Dyke (incl Diabase), Black, Feldspars (general), Pyroxenes (general), Amphiboles (general), Epidote, Massive, Equigranular, Porphyritic
188.73	194.80	Ash Tuff - < 2 mm, Green, Feldspars (general), Chlorite, Epidote, Biotite, Fragmental, Foliated
194.80	228.05	Greywacke, Arkose, Gray, Feldspars (general), Quartz (general), Biotite, Chlorite, Banded
228.05	229.40	Crowded Quartz-Feldspar Porphyry (QFP), Gray, Quartz (general), Feldspars (general), Biotite, Porphyritic
229.40	230.70	Arkose, Greywacke, Gray, Quartz (general), Feldspars (general), Chlorite, Biotite, Massive

From	To	Geology
230.70	233.22	Crowded Quartz-Feldspar Porphyry (QFP), Gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Porphyritic, Foliated
233.22	238.40	Arkose, Volcaniclastic, Gray, Feldspars (general), Quartz (general), Biotite, Chlorite, Interbedded
238.40	239.57	Crowded Quartz-Feldspar Porphyry (QFP), Pinkish-gray, Feldspars (general), Quartz (general), K-feldspar, Biotite, Porphyritic
239.57	244.00	Greywacke, Gray, Feldspars (general), Quartz (general), Chlorite, Banded
244.00		** END OF HOLE **

White River DDH 0505-009 Detailed Remarks

R Starting Date: September 1, 1995
R Completion Date: September 4, 1995
R Drill Contractor: Bradley Bros. Limited
R
R Logged by: Stephen Roach
R Log Completed: September 9, 1995
R
R Casing: 3.0 meters (left in hole)
R
R Coordinates (Lac Grid) Line 6500 E
R Station 150 N
R
R Coordinates (Placer Dome Grid) Line 25200 E
R Station 9125 N
R
R Survey Coordinates UTME: 592440.16
R UTMN: 5391457.14
R Elev: 391.44 metres (asl)
R
R Claims Drilled: SSM 607965
R SSM 625789
R
R Core Storage: Cedar Lake Camp
R

P 0.00 0.86 OVBDX
L
R Overburden - mainly sand
R

P 0.86 34.78 1006C 56D 5FDQZCH=BNIB BN96 D/ D*
L 6A BIKF+FO FO V+
R
R Arkosic-wacke
R
R -moderate gray to light greenish-gray color, an arenaceous
R composition with fd-qz-ch-bi with ch-bi varying from 5% to
R 15%, increase in detrital Kspar in f.g. to m.g. arkosic/
R arenaceous interbeds with Kspar varying from 5% to 15% in
R sections from 14.80 to 15.40, 26.25 to 29.40, and 30.10 to
R 30.80 - 10% to 15% lithic fd-qz xtls up to 0.20 cm in size,
R
R -overall, this section consists of interbeds of arkosic-

R wacke/arkose/'dirty arenite', banding/bedding varies from
R 66 to 115 dca, locally foliated from 26.25 to 29.40 vary-
R ing from 90 to 103 dca (foliated biotite), occassional to
R widely scattered qs/qcs/qfs < 1% to locally 15%.
R
R -barren to occassional py cube < 1%, generally weakly mag-
R netic with increased magnetite in the Kspar-arkosic sec-
R tions from 14.80 to 15.40, 26.25 to 29.40, & 30.10 to 30.80
R with 1% mg.
R
R contact - gradational contact
R
R

PSIF 34.78 38.66 1006C 56D 5QZFDBI1FXBX BN80 D(
L PGKFQ2QZJ1EP Q2 J1
R
R Quartz-Feldspar Stockwork (Arkosic-wacke)
R
R -alternating gray, pink, pinkish-white, white, and pistach-
R io white colors, host rock is arkosic-wacke which consists
R of qz-fd-bi with 10% to 15% biotite, patchy with local in-
R tense pink, Kspar altered wallrock within the vein struc-
R ture and adjacent to the veins from 36.12 to 38.66, in-
R creased ch-ca(10% to 15%) from 37.30 to 37.34.
R
R -variable fracturing varying from 10% to 75% with the over-
R all average being 37% or between 35% and 40%, increased
R in Kspar from 36.12 to 38.66 associated with the alteration
R of the adjacent wallrock to the veining and in the veining,
R 10% qcs with 5% to 10% epidote from 34.78 to 36.12, relict
R banding 80 dca and bx from 37.30 to 38.34 with 75% qfv/qv.
R
R -occassional to locally widely scattered py-(cpy) < 1% in
R both the altered and unaltered wallrock and in the qfv/qv,
R non-magnetic section with < 1% magnetite
R
R contact - gradational contact
R
R

P 38.66 72.68 1006C 56D 5QZFDBI1BN BN82C/62 D(D/
L A KFQ) FO69 Q)
R
R Arkosic-wacke/Arkose
R
R -gray, dark gray to pinkish-gray color, composition of qz-

R fd-bi with 5% to 15% foliated bi > ch, gradual increase in
R Kspar (pinkish-gray color) from 43.40 to 46.00 and from
R 59.28 to 60.16 - 10% to 20% Kspar as disseminated grains &
R as fractures, up to 5% ep fractures
R
R 54.79 to 55.53 - Granodiorite, pinkish-gray color, inter-
R mediate in composition with fd-qz-bi,
R 10% to 15% bi and 5% to 20% diss. Kspar,
R weakly to moderately foliated, sub-equi-
R granular texture, < 1% py and moderately
R magnetic with 1% to 2% mg, sharp 65 dca
R upper and 67 dca lower contacts
R
R 55.88 to 56.00 - Granodiorite, similar to above with sharp
R 70 dca upper and 60 dca lower contacts
R 57.80 to 58.06 - Granodiorite, similar to above with sharp
R 80 dca upper and 100 dca lower contacts
R 62.27 to 63.00 - Granodiorite, similar to above with sharp
R 95 dca upper and 90 dca lower contacts
R
R -banding varies from 65 to 101 dca - weakly to locally
R moderately foliated with the presence of foliated biotite,
R occassional to scattered qs/qfs/qcs with local sections
R with ep fracture-filling (< 1% to locally 10%)
R
R -occassional to widely scattered py < 1% cubes/grains,
R weakly magnetic with increased mg in the granodiorite sills
R /dykes - overall, < 1% magnetite.
R
R contact - sharp contact 62 dca.
R
R

P 72.68 76.67 12B3513 5FDQZBI1PP FO D(D)
L A
R
R Granodiorite - Feldspar Porphyry
R
R -pinkish-gray to gray color, felsic to intermediate in com-
R position with a v.f.g. fd-qz matrix about 15% to 25% fd
R phenocrysts (up to 0.20 cm in size), variable 5% to 20%
R disseminated Kspar grains in the matrix, 5% to 10% foliated
R biotite as well as fd
R
R -weakly foliated porphyritic texture varying between 110 &
R 120 dca, occassional qs/qfs < 1%.

R
R -occassional py cube < 1%, weakly to moderately magnetic
R with 1% to 2% magnetite.
R
R contact - sharp contact 110 dca.
R
R

P 76.67 82.22 1006C 56D 5FDQZBI=BN BN D(D(
L A CH
R
R Arkosic-wacke
R
R -gray color, dirty arenaceous composition being composed of
R fd-qz-bi-(ch) in a v.f.g. and homogeneous matrix, up to
R 5% Kspar detrital grains.
R
R -weakly banded 100 to 105 dca, occassional qs/qfs up to
R 0.30 meters wide, generally qs/qfs < 1% to 5%
R
R -occassional v.f.g. pyrite grain/cube < 1%, weakly magnetic
R with < 1% magnetite.
R
R contact - gradational contact
R
R

PKHE 82.22 89.12 6C 56D 5QZFDBI=FO FO92 D* D/
L PGKFD2HET1AM BN95 D2
R
R Kspar-Altered Arkosic-wacke
R
R -grayish-pink to pinkish-brick-red color, v.f.g. intersti-
R tial matrix of qz-fd-bi-(ch)-(am) with Kspar varying from
R 10% to 20% as disseminated grains and as fracture-filling,
R local section being chloritic (< 1%)
R
R -variable and weakly foliated 73 to 109 dca, occassional to
R scattered qs/qcs varying from 1% to 3%, xcutting 9.0 cm
R chill zone of a diabase dyke at 85.23 122 dca - has been
R overprinted by the pinkish-red Kspar-he stain.
R
R -occassional to locally disseminated v.f.g. pyrite cubes
R with increased pyrite from 85.76 to 86.10 (5%), overall,
R < 1% pyrite, weakly magnetic with < 1% magnetite
R
R contact - gradational contact

R
R
P 89.12 90.70 6C 56D 5FDQZBI1FO FO71 D(D(
L 8A KF C/69
R
R Arkosic-wacke/Arenite
R
R -gray color with minor pinkish hue, v.f.g. composition of
R qz-fd-bi-ch with 5% to 10% bi > ch, micas are foliated,
R
R -weakly foliated 70 to 75 dca with a massive appearance,
R < 1% qcs/qs
R -occassional py cube < 1% and weakly magnetic with < 1% mg
R
R contact - sharp contact 69 dca.
R
R
P 90.70 91.39 12B2X FDQZBI=PP FO50 D- D*
L PG KF C/60
R
R Feldspar Porphyry
R
R -pinkish-gray color, felsic to intermediate in composition
R with a composition of fd-qz-bi, up to 5% biotite, 20% to
R 25% pinkish-white fd phenocrysts giving this section a
R porphyritic texture, Kspar appears as disseminated grains
R in the v.f.g. matrix (10%) and as envelopes about the white
R albitic phenocrysts.
R
R -weakly foliated 50 dca with foliated bi as well as fd,
R trace qs/qcs < 0.1%
R -occassional py cube < 1%, weak to moderately magnetic with
R up to 1% magnetite
R
R contact - sharp contact 60 dca.
R
R
P 91.39 100.42 6A X QZFDBI=BN BN70 D- D(
L 8A C/70
R
R Arenite
R
R -light to moderate gray color, arenaceous in composition
R being composed of qz-fd-bi with up to 5% biotite, v.f.g.
R quartz-rich matrix, minor pinkish hues in the matrix as

R thin seams and as fractures < 1% to locally 2% - Kspar up
R to 2% to 5%.
R
R -well developed banding/laminations varying from 68 to 75
R dca, < 1% to 6% qs/qcs as widely scattered stringers.
R
R -occassional v.f.g. pyrite < 1%, weakly magnetic with < 1%
R magnetite.
R
R contact - sharp contact 70 dca.
R

P 100.42 101.24 12B2513 5FDQZBI=PP FO70 D- D*
L PG KF C/75
R
R Feldspar Porphyry
R
R -similar to section from 90.70 to 91.39 with..
R
R 1) increase in fd phenocrysts from 25% to 30% fd (up to
R 0.20 cm in size) giving a porphyritic texture.
R 2) weakly foliated biotite 70 dca
R
R contact - sharp contact 75 dca.
R
R

P 101.24 101.82 6A X QZFDBI=BN C/70 D- D(
L A
R
R Arenite
R
R similar to section from 91.39 to 100.42
R
R contact - sharp contact 70 dca.
R
R

P 101.82 102.26 12B2513 5FDQZBI=PP FO70 D- D*
L PG KF C/72
R
R Feldspar Porphyry
R
R similar to section from 100.42 to 101.24
R
R contact - sharp contact 72 dca
R
R

PSIF 102.26 137.86 1006C 56D 5QZFDBI2BN BN90 D(D(D(
L 5A KFD1QZJ1 FO70 D1 J1
R
R Kspar-Silicified Arkosic-wacke (minor Arenite)
R
R -bleached gray to dark gray color, composition of qz-fd-bi-
R (ch) with biotite varying < 5% to 25%, increase in Kspar
R alteration from approximately 107.00 to 133.00 with inter-
R thin bands of Kspar altered wallrock/fractures in the re-
R maining upper and lower part of the contact, Kspar altera-
R tion occurs as disseminated grains as well as fracture-fil-
R ling - fracture-filling is associated with bleached, dif-
R fuse silicified fractures that vary < 5% to 15%
R
R -variable banding 70 to 110 dca, occassional to scattered
R qs/qfs/qcs varying < 1% to locally 5%
R
R -20 cm wide 'Popcorn' feldspar porphyry consisting of 20%
R to 255 white fd giving a porphyritic texture between 121.27
R and 121.47
R
R -occassional to locally scattered py-po with minor cpy &
R aspy < 0.2%, slight increase in sulphides from about 107.00
R to 109.00 and from 116.00 to 123.00 with < 1% to 2% scat-
R tered grains of py-po - also occur as minor fracture-fill-
R ing, weakly magnetic with < 1% mg
R
R contact - irregular, but sharp contact
R
R

PKF 137.86 145.52 3B5 X FDCHBI1BN BN62 D)D(D/
L G KFD1QZJ=AM D1 J=
R
R Kspar-Altered Intermediate to Mafic Volcaniclastic
R
R -grayish-green, pinkish gray, pinkish-green, and green
R color, intermediate to mafic composition with moderate ch &
R bi in the matrix, weak to ocally moderate Kspar alteration
R (pinkish color) with hematite - Kspar occurs as dissemina-
R ted grains varying 5% to 25%.
R
R -variable banding due to folding between 35 and 90 dca, oc-
R cassional to widely scattered qs/qfs/qcs (1% to 3%), ob-
R served S-drag fold 50 dca near 139.00
R

R -widely scattered py-cpy from 139.00 to 142.98 with the re-
R maining sections being < 1% py, coarse splashes of cpy from
R 142.70 to 142.98, weakly magnetic with < 1% magnetite
R
R contact - gradational
R
R

PKHE 145.52 155.95 3B1 X CHFDBI1FRIB FO69 D) D(
L 6G KFD=HET+EP BN79 D=
R
R Intermediate to Mafic Tuff/Lapillit-Tuff (minor Arenite)
R
R green color, intermediate to mafic composition being moder-
R ately to locally strong ch-bi alteration, local sections
R from 151.12 to 152.65 and from 154.45 to 154.69 with 10% to
R 15% Kspar as disseminated grains in fractures - accompanied
R by hematitic stain as from 151.12 to 151.58, intra-volcanic
R metasedimentary horizons from 151.58 to 152.65 and from
R 154.45 to 154.69 being arenaceous with disseminated Kspar -
R v.f.g. and massive interbeds, fine to coarse fragmental
R with intermediate and foliated fragments varying 5% to 25%
R that are < 0.2 to 1.5 cm in size
R
R -moderately to strongly foliated 63 to 83 dca with banding
R 80 to 90 dca, occassional to scattered qs/qfs/qcs up to 5%
R with s- & z-shaped drag folds of the stringers/veins,
R
R -occassional to locally scattered pyrite varying < 1% to 7%
R with trace cpy < 0.2%, increased py content in the massive
R arenaceous/arkosic interbeds varying 4% to 7% as scattered
R cubes, weakly magnetic with < 1% magnetite.
R
R contact - sharp contact 109 dca.
R
R

P 155.95 157.13 10017A1X QZCH VV FS60 D- D.
L W C/91
R
R Quartz Vein
R
R -milky white color, quartz composition with 10% green ch
R fractures trending 60 dca, weakly fractured vn matte
R
R -occassional v.f.g. pyrite cube < 1% and non-magnetic
R

R contact - sharp contact 91 dca
R
R

PKF 157.13 182.95 3B1 53B2 5FDCHBI2FRFO FO60C/50 D(D(D.
L G EP BN54
R
R Intermediate to Mafic Tuff-Lapilli-Tuff
R
R -green to greenish-black color, intermediate to mafic com-
R position with moderate to strong chlorite and biotite -
R both micas are between 20% and 30% as the foliated matrix,
R tuff to lapilli-tuff size elongated fragments varying from
R < 5% to 25% (up to 0.50 cm in size) - very fine to fine
R tuffaceous sections from 178.92 to 179.35 and from 180.30
R to 182.25.
R
R -moderately to strongly foliated 50 to 65 dca with occas-
R sional banding, occassional to locally scattered qs/qcs
R varying 1% to 35% with the overall average being from 1% to
R 3% - increased veining from 157.13 to 158.00 (30% to 35%)
R and from 176.75 to 178.47 (10% to 20%) with the veining
R occurring as irregular and discontinuous lenses.
R
R -occassonal to very widely scattered py-po < 1%, weakly
R magnetic with < 1% magnetite
R
R contact - sharp, broken contact 50 dca
R
R

P 182.95 188.73 10016A4X FDPXEP=MXEQ D- D+
L N SAE+ AM PP
R
R Diabase
R
R -black color, mafic in composition, v.f.g. and aphanitic
R matrix of with < 1% to 10% feldspar and light green saus-
R suritized feldspar with accompanied epidote, gradual in-
R crease in fd from 187.00 to 188.73 between 5% to 10% (up to
R 0.10 to 0.15 cm in size) giving a sub-porphyritic texture.
R
R -massive/equigranular to local sub-porphyritic texture
R -occassional py-cp (< 1%) being moderately to strongly mag-
R netic 1% to 3%.
R
R contact - sharp and broken contact.

R
P 188.73 194.80 3B1 X FDCHBI1FRFO FO55 D(D(
L G KFD+QZJ=EP C/15 D+ J=
R
R Intermediate to Mafic Tuff-(Lapilli-Tuff)
R
R -similar to section from 157.13 to 182.95 with...
R
R 1) local weakly disseminated and fracture-filled Kspar-he
R alteration varying < 5% to 10% from 188.73 to 189.72
R (10% qs/qcs) and from 193.20 to 193.67 (20% qs/qcs)
R
R 2) foliated 50 to 60 dca.
R
R 3) occassional to widely scattered py < 1% and weakly mag-
R netic with < 1% magnetite
R
R contact - sharp contact 15 dca.
R
R
P 194.80 228.05 6D 56C XFDQZCH1BN FO92 D- D.
L A KF?=QZJ=BI ?= J=
R
R Intermittently Kspar-Altered Arkosic-wacke/Arenite
R
R -gray to bleached gray, to local pinkish-gray colors, v.f.g
R and aphanitic unaltered matrix with fd-qz-ch-bi with inter-
R mittent pinkish-gray sections from 204.60 to 207.00, 208.90
R to 209.80, & from 210.30 to 211.35 varying from 5% to 10%
R diffuse fractures > disseminated grains, frequent, diffuse
R moderately silicified and weak Kspar altered section from
R 218.60 to 228.05 - alteration occurs as diffuse and bleach-
R ed fractures and as scattered grains in the matrix.
R
R -banding varies from 105 to 127 dca, occassional to widely
R scattered qs/qcs/qfs varying from 1% to 5%,
R
R -occassonal to locally widely scattered py-(cpy) < 0.5%,
R weakly magnetic with < 1% magnetite
R
R contact - sharp contact 115 dca.
R
R
P 228.05 229.40 13C X QZFDBI=PP FO D. D.
L 8A

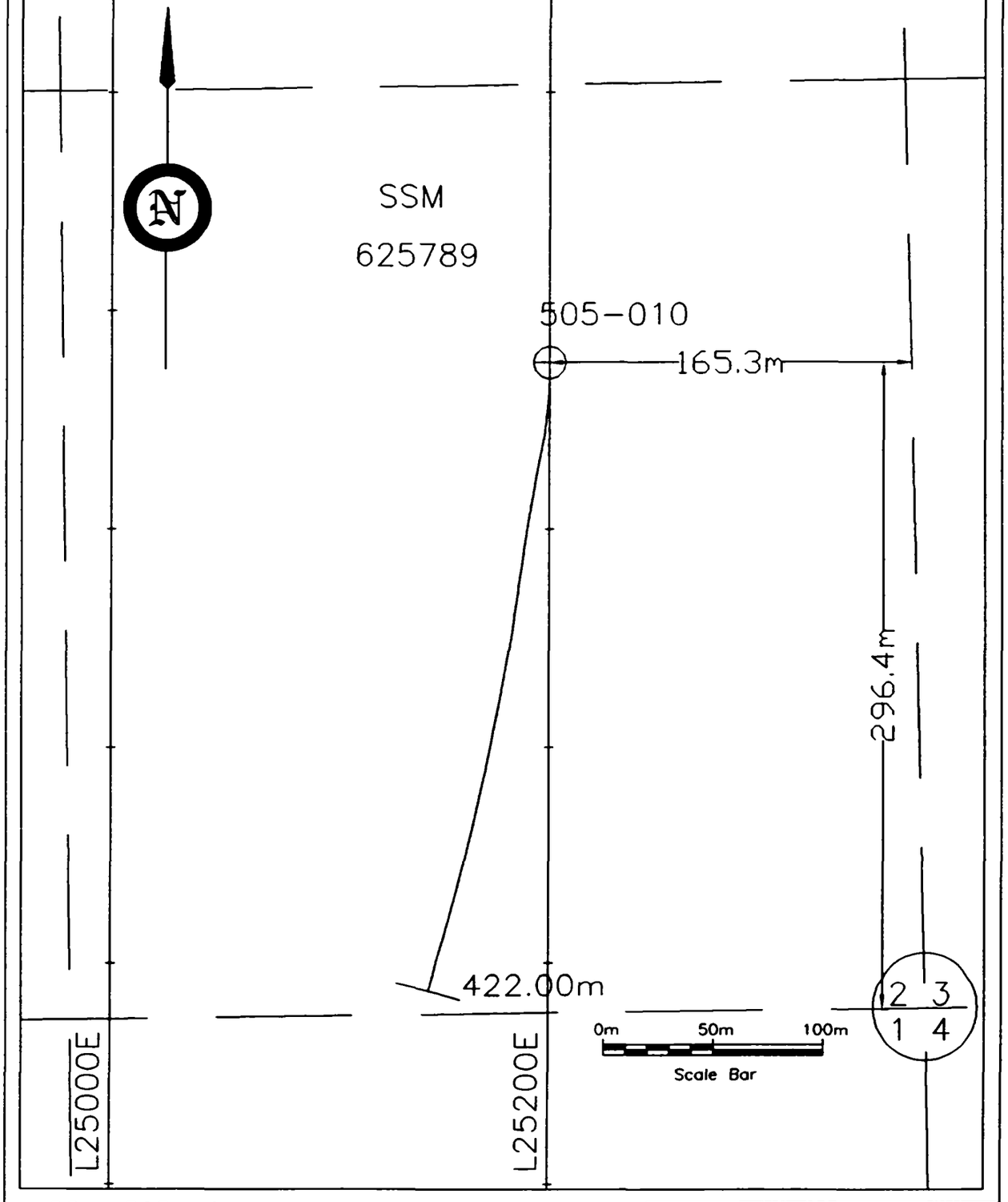
R
R Crowded Feldspar Porphyry
R
R -light gry color, felsic in composition with very fine to
R medium-grained foliated and silicified fd phenocrysts vary-
R ing from 20% and 30% in a v.f.g. quartz-feldspathic matrix,
R scattered, foliated biotite varying 4% to 6% as wispy
R grains.
R
R -foliated, porphyritic texture with the foliation varying
R from 117 and 126 dca, 5% wallrock inclusions observed at
R the upper contact parallel to foliation (up to 5.0 cm in
R size)
R
R -occassional py < 1%, weakly magnetic with < 1% magnetite.
R
R contact - sharp contact 130 dca.
R
R

P 229.40 230.70 6C 56D 5QZFDBI1MX BN D(D(
L 2A CH
R
R Arkosic-wacke
R
R -dark gray to black color, composition of v.f.g. and aphan-
R itic qz-fd-bi-(ch) matrix
R
R -massive texture with occassional band 100 to 130 dca., oc-
R cassional qs/qcs (1% to 2%)
R
R -occassional v.f.g. pyrite grain (< 1%), weakly magnetic
R with < 1% magnetite.
R
R contact - sharp contact 116 dca.
R
R

P 230.70 233.22 13C X FDQZBI=PPFO FO D. D.
L 8A CH
R
R Crowded Feldspar Porphyry
R
R -light gray color, felsic in composition with 25% to 35%
R fine to medium-grained feldspar phenocrysts (< 0.20 cm in
R size) in a v.f.g. qz-fd matrix, 5% foliated bi > ch
R

R -foliated, porphyritic texture with foliation varying from
R 110 to 120 dca, minor qs/qcs < 1%
R
R -occassional v.f.g. pyrite (< 1%), weakly magnetic with
R < 1% magnetite
R
R contact - sharp contact 115 dca
R
R
P 233.22 238.40 6C 63B5 4FDQZCH2IB BN D* D.
L A BI
R
R Interbedded Arkose and Intermediate to Mafic Volcaniclastic
R /Tuff
R
R -alternating gray to dark gray and green color, this sec-
R tion is comprised of 60% arkose (qz-fd-bi-ch as a v.f.g. &
R aphanitic matrix) and 40% intermediate to mafic volcani-
R clastic and/or reworked tuff (moderately chloritic)
R
R -interbedded and banded/bedded 117 to 121 dca, occassional
R qs/qcs/qfs varying < 1% to locally 5%
R
R 237.52 to 237.71 Crowded Feldspar Porphyry - similar to the
R above described sections with sharp upper
R and lower contacts 110 dca.
R
R -occassional to widely scattered v.f.g. py grains (< 1%),
R weakly magnetic with < 1% magnetite
R
R contact - sharp contact 104 dca.
R
P 238.40 239.57 13C X FDQZBI=PP FO D. D.
L PG KF
R
R Crowded Feldspar Porphyry
R
R -similar to section from 230.70 to 233.22 except...
R
R 1) increase in weakly disseminated Kspar in the matrix and
R the pink fd phenocrysts (Kspar alteration?)
R
R 2) lower contact contains wallrock inclusions/xenoliths
R up to 3.0 cm in size
R

R 3) foliated 105 to 110 dca
R
R Contact - sharp contact 110 dca.
R
R
P 239.57 244.00 6D X FDQZCH1BN BN D(D(
L A
R
R Greywacke
R
R -greenish-gray to gray color, v.f.g. and aphanitic matrix
R composed of fd-qz-ch-bi with the foliated micas between
R 10% to 15%
R
R -banded 107 to 115 dca, occassional qs/qcs (1% to 2%)
R -occassional to widely scattered v.f.g. py (< 1%), weakly
R magnetic with < 1% magnetite
R
/END



DDH: 505-10
LOCATION: 25200E 8875N
AZIMUTH: 180°
DIP: -45°
DEPTH: 422.00m
CORE SIZE: NQ
MAGNETIC DECLINATION: 4°W

DRAWING #14

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER PROPERTY
LOCATION PLAN MAP
DDH 505-10

DATE: DEC. 95	DRAWN BY: DESIGN BY: PCA	DWG.NO. 1GLOCMAP.DWG G:\VC400WR95\000
SCALE: 1:2500	NTS REF. 43C/12	

*** WHITE RIVER ***
PLACER DOME CANADA INC.

Drill Hole: 0505-010

Date: 21st Dec, 1995
Northing : 8875.00
Easting : 25200.00
Elevation : 0.00
Hole Depth : 422.00mt

Grid Azimuth: 0.00
Coord System:

Project ID : 505
Core Size : NQ
Date Logged : 06SEP95
Logged By : SNR
Assisted by :
Drillers : BRAD
Drill date : SEP95
Rig Type :
Drill Time :
Print Template : GTRAN001.FMT

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	180.00	-45.00
62.00mt	191.00	-47.00
95.00mt	190.00	-47.00
158.00mt	187.50	-46.10
197.00mt	190.00	-46.00
239.00mt	191.00	-45.90
275.00mt	192.00	-45.80
308.00mt	193.00	-45.10
341.00mt	194.00	-45.00
401.00mt	196.00	-44.00
422.00mt	195.00	-44.00

From	To	Geology
0.00	2.00	Overburden
2.00	10.35	Arkose, Greywacke, Gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Banded
10.35	12.72	Arkose, Greywacke, Pinkish-gray, Quartz (general), Feldspars (general), Chlorite, Biotite, Banded
12.72	16.61	Crowded Quartz-Feldspar Porphyry (QFP), Feldspar Porphyry (FP), Pinkish-gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Porphyritic, Foliated
16.61	43.00	Lapilli Tuff - 2 to 64 mm, Gray, Feldspars (general), Chlorite, Quartz (general), Biotite, Fragmental, Foliated
43.00	44.85	Lapilli Tuff - 2 to 64 mm, Gray, Feldspars (general), Quartz (general), Biotite, Chlorite, Fragmental, Foliated
44.85	80.80	Lapilli Tuff - 2 to 64 mm, Ash Tuff - < 2 mm, Gray, Feldspars (general), Chlorite, Quartz (general), Biotite, Fragmental, Foliated
80.80	83.24	Ash Tuff - < 2 mm, Pink, Quartz (general), Feldspars (general), Biotite, Chlorite, Banded, Foliated
83.24	87.25	Ash Tuff - < 2 mm, Green, Feldspars (general), Chlorite, Biotite, Banded
87.25	89.40	Sandstone, Chert, Gray, Quartz (general), Feldspars (general), Biotite, Banded
89.40	100.82	Arkose, Greywacke, Gray, Feldspars (general), Quartz (general), Muscovite, Biotite, Garnet, Banded
100.82	140.47	Ash Tuff - < 2 mm, Lapilli Tuff - 2 to 64 mm, Green, Chlorite, Feldspars (general), Amphiboles (general), Biotite, Banded, Fragmental
140.47	161.84	Ash Tuff - < 2 mm, Lapilli Tuff - 2 to 64 mm, Green, Chlorite, Talc, Biotite, Foliated, Fragmental
161.84	169.80	Felsic Dyke, White, Feldspars (general), Quartz (general), Biotite, Massive
169.80	170.83	Ash Tuff - < 2 mm, Blackish-green, Chlorite, Talc, Feldspars (general), Biotite, Foliated, Sheared
170.83	171.81	Feldspar Porphyry (FP), Gray, Feldspars (general), Quartz (general), Biotite, Porphyritic
171.81	174.10	Diorite, Gray, Feldspars (general), Chlorite, Biotite, Equigranular, Porphyritic
174.10	180.00	Ash Tuff - < 2 mm, Lapilli Tuff - 2 to 64 mm, Green, Chlorite, Feldspars (general), Biotite, Fragmental, Foliated
180.00	349.06	Ash Tuff - < 2 mm, Lapilli Tuff - 2 to 64 mm, Green, Chlorite, Feldspars (general), Amphiboles (general), Biotite, Garnet, Banded, Foliated, Fragmental
349.06	353.72	Ash Tuff - < 2 mm, Flow (unsubdivided), Gray, Feldspars (general), Quartz (general), Biotite, Chlorite, Fragmental, Massive
353.72	373.60	Flow Breccia, Massive Flow, Greenish-black, Chlorite, Talc, Biotite, Brecciated, Foliated

From	To	Geology
373.60	375.07	Ash Tuff - < 2 mm, Gray, Quartz (general), Feldspars (general), K-feldspar, Biotite, Fractured
375.07	381.61	Ash Tuff - < 2 mm, Crystal Tuff, Gray, Feldspars (general), Chlorite, Quartz (general), Biotite, Fragmental
381.61	388.65	Crystal Tuff, Massive Flow, Green, Feldspars (general), Chlorite, Quartz (general), Biotite, Porphyritic, Massive
388.65	422.00	Volcaniclastic, Ash Tuff - < 2 mm, Blackish-green, Feldspars (general), Chlorite, Quartz (general), Biotite, Banded, Foliated, Fragmental
422.00		** END OF HOLE **

White River DDH 0505-010 Detailed Remarks

R Starting Date: September 5, 1995
R Completion Date: September 11, 1995
R Drill Contractor: Bradley Bros. Limited
R
R Logged By: Stephen Roach
R Log Completed: September 16, 1995
R
R Casing: 3.0 meters (left in hole)
R
R Coordinates (Lac Grid) Line 6500 E
R Station 100 S
R
R Coordinates (Placer Dome Grid) Line 25200 E
R Station 8875 N
R
R Survey Coordinates UTME: 592443.17
R UTMN: 5391207.85
R Elev: 401.50 metres (asl)
R
R Claims Drilled: SSM 625789
R
R Core Storage: Cedar Lake Camp
R

P 0.00 2.00 OVBDX
L
R Overburden - sand and boulders
R

P 2.00 10.35 896C 56D 5FDQZBI1BN BN70 D(D(
L 2A HET1KFD+CH D+
R
R Arkosic-wacke/Arenite
R
R -gray to dull gray color, v.f.g. and aphanitic with a com-
R position of qz-fd-bi-ch matrix - intermittent pinkish-red
R Kspar-hematitic stain from 7.60 to 10.35 up to 0.10 meters
R wide - weak Kspar content up to 5% as disseminated grains
R in the matrix.
R
R -moderate developed banding 65 to 75 dca, occassional to
R scattered qs/qcs varying < 1% to 3%
R

R 5.34 to 5.57 - Fault, broken and blocky core.
R
R -occassional to widely scattered v.f.g. py < 1%, weakly
R magnetic with < 1% magnetite
R
R contact - gradational increase in the pinkish Kspar-hema-
R tite stain
R
R

PKHE 10.35 12.72 6C 56D 5QZFDBI1BN BN72 D(D(
L PGHET2KFD=CH C/60 D=
R
R Hematitic-Kspar-Altered Arkosic-wacke
R
R -pinkish-red to pinkish gray color, variable weak to strong
R pinkish-red hematitic stain with up to 5% disseminated
R Kspar alteration, relatively stronger he stain from 10.35
R to 11.33 and from 12.00 to 12.72, v.f.g., aphanitic matrix
R of qz-fd-bi.
R
R -banding 70 to 75 dca, occassional qs/qcs < 1% to 3%
R -widely scattered v.f.g. pyrite < 1%, weakly magnetic with
R < 1% magnetite.
R
R contact - sharp contact 60 dca.
R
R

PKHE 12.72 16.61 13C 914B 1FDQZBI=PPFO FO65 D- D*
L PGHET2KFE=CH C/69 E=
R
R Crowded Feldspar Porphyry xcut by Coarse Feldspar Porphyry
R
R -pinkish-gray to pinkish-red color, felsic composition with
R a v.f.g. quartz-feldspathic matrix about v.f.g. to f.g. fd
R varying 5% to 30% (< 0.10 to 0.15 cm in size), < 5% folia-
R ted biotite and chlorite, up to 5% Kspar grains as en-
R velopes with strong hematitic stain from 12.72 to 14.00,
R overall, a weak to locally moderate hematite stain.
R
R 14.93 to 15.02 Coarse Feldspar Porphyry - pinkish-gray
R 16.27 to 16.61 color, felsic composition, 20% to 30% fd in
R a v.f.g. qz-fd matrix, porphyritic texture
R with no foliation, < 1% py but weakly to
R moderately magnetic with up to 1% mg.
R

R -foliation varying from 63 and 67 dca, minor wallrock xeno-
R lith from 14.72 to 14.93, porphyritic textures
R
R 12.90 to 13.10 - Fault Zone, broken and blocky core.
R
R -occassional qs/qcs fracture-flling < 1%
R -occassional v.f.g. pyrite (< 1%), weakly magnetic with in-
R creased magnetics in the coarse feldspar porphyry up to 1%
R magnetite
R
R contact - sharp contact 69 dca
R
R

P 16.61 43.00 4B2 X FDCHBI=FRFO FO67 D- D*
L A QZ
R
R Intermediate Lapilli-Tuff/Tuff Breccia
R
R -gray, greenish-gray, and pinkish-gray color, intermediate
R in composition with weak to moderate chlorite/biotite,
R v.f.g. intermediate matrix about polymictic, elongated
R fragments with the occassional fragment varying from 10 to
R 40 cm in size, 20% to 30% fragments generally < 3.0 to 5.0
R cm in size, fragments consist of 70% to 80% intermediate
R fragments, 10% to 20% felsic fragments, 5% to 10% each on
R the he/Kspar felsic and mafic fragments, feldspar porphyry
R fragment from 18.40 to 18.60 (Crowded Feldspar Porphyry)
R
R -fragments have been extensively elongated with a foliation
R varying from 60 to 70 dca, occassional qs/qcs (1% to 2%)
R
R -occassional v.f.g. pyrite grains (< 1%), weakly magnetic
R with an overall < 1% mg - local increase in mg to 1% as
R observed from about 39.00 to 41.00
R
R contact - gradational contact
R
R

PSI 43.00 44.85 4B2 X FDQZCH1FRFO FO70 D. D.
L 8A QZJ2KFE=BI E= J2
R
R Silicified Intermediate Lapilli-Tuff
R
R -bleached gray, greenish-gray, and pinkish-gray color,
R moderately silicified intermediate composition with 5%

R disseminated Kspar alteration along shear planes, polymic-
R tic with intermediate, felsic, and pinkish he/Kspar-altered
R felsic fragments.
R
R -elongated fragments varying 20% to 30% in a silicified ma-
R trix with fragment size of generally up to 3.0 cm, foliated
R 70 dca, occassional qs/qcs (< 1% to 2%)
R
R -barren to occassional pyrite (< 0.5%), weakly magnetic
R with < 0.5% magnetite
R
R contact - gradational contact
R
R
P 44.85 80.80 4B2 54B1 5FDCHBI=FRFO FO69 D- D-
L A HET)KFD)QZ D)
R
R Intermediate Tuff/Lapilli-Tuff
R
R -gray, greenish-gray, with local pinkish gray colors, in-
R termediate composition with weak to moderate chlorite, lo-
R cal pinkish-gray to pink colored he/Kspar sections from
R 54.00 to 54.60 and from 71.00 to 71.20 with < 3% to 5%
R disseminated Kspar with weak he/Kspar stained matrix (2% to
R 3% Kspar) from 73.35 to 80.80, gradually more felsic from
R about 59.00 to 80.80
R
R -polymictic fragmental texture with intermediate fragments
R (60% to 80%), he/Kspar felsics (10%), felsics (10% to 20%),
R ad mafics (5% to 10%), overall, 10% to 20% fragments with
R a gradual finer fragmental (more tuffaceous) from 53.00 to
R 80.80 with a very fne grained tuff (reworked?) from 70.60
R to 73.35, crowded feldspar porphyry fragments from 56.00 to
R 56.15 and from 65.72 to 65.83.
R
R -foliated fragmental texture with fragments generally up to
R 3.0 cm with the occassional fragment up to 15.0 cm in size,
R foliation varies from 63 to 73 dca, occassional qs/qcs (<
R 1% to local 2%)
R
R -occassonal v.f.g. pyrite (< 1%), weakly magnetic with < 1%
R magnetite
R
R contact - gradational increase in the pinkish he/Kspar
R

R

PKHE 80.80 83.24 4B1 X QZFDCH1BNFO BN70 D(D*

L I HET2KFD1BI FO70 D1 J1

R

R Hematitic/Kspar-Altered Intermediate Tuff

R

R -pink to pinkish-gray color, intermediate composition with

R moderate pinkish-red hematite stain with 5% to 10% dissem-

R inated Kspar, moderately silicified alteration

R

R -banded/foliated texture 70 dca - may represent an aeolian,

R reworked, sub-aerial tuff, occassional qs/qcs (1% to 2%)

R

R -occassional to widely scattered v.f.g. py (< 1%), weakly

R magnetic with < 1% magnetite

R

R contact - gradational contact

R

R

P 83.24 87.25 3B1 X FDCHBI1BN BN67 D) D(

L G HET=KFD+ C/90 D+

R

R Intermediate to Mafic Tuff/Volcaniclastic

R

R -green, pinkish-green, and minor gray colors, intermediate

R to mafic composition with moderate to strong chlorite and

R biotite in the matrix, weak, patchy pink he/Kspar stain

R and/or alteration from 83.24 to 85.00 associated with qfs/

R qs lenses.

R

R -9.0 cm wide v.f.g. arenaceous band at 85.10 with this

R section - contains 5% scattered pyrite.

R

R -weakly to moderately banded 65 to 75 dca, fractured with

R 10% to 15% qs/qv/qfs with the veining up to 0.25 meters

R wide.

R

R occassional to scattered v.f.g. to f.g. pyrite cubes with

R an overall average of up to 1% - increase in sulphides

R from 84.55 to 85.00 with 5% scattered py cubes, weakly

R magnetic with < 1% magnetite.

R

R contact - sharp contact 90 dca

R

R

P 87.25 89.40 6A 96F 1QZFDBI=BN BN71 D) D-
L 7A QZJ1 C/80 J1
R
R Arenite
R
R -gray to dark gray color, arenaceous with a composition of
R qz-fd-bi with 5% disseminated black biotite, minor bands/
R laminations of cherty arenite and/or silicified arenite.
R
R -banded/laminated 70 to 75 dca, occassional qs/qcs < 1% to
R 5%
R
R occassional to scattered py < 1% to locally 2% - overall
R average is 1%, pyrite occurs as scattered cubes, weakly
R magnetic with < 1% magnetite.
R
R contact - sharp contact 80 dca
R
R

P 89.40 100.82 6C 56D 5FDQZBI2BN BN65C/60 D* D-
L 2A MUGA+ FO76 E(F+
R
R Arkosic-wacke
R
R -dark gray to gray color, composition of fd-qz-bi-mu with
R this section being strongly micaceous with 15% to 30%
R micas with biotite and muscovite, gradual increase of mu >
R bi from 95.40 to 100.82 with mu varying 20% to 30% in the
R matrix - increase in garnets (5% to 10% and < 0.05 to 0.10
R cm in size) from 95.40 to 100.82, local sericitic alteratio
R tion of fd lithic xtls from 94.90 to 95.20 (5% to 10%),
R patchy sericite associated with qcs/qs from 95.20 to 96.35.
R
R -overall, a gradual pelitic, argillaceous matrix from 95.40
R to 100.82 with te presence of garnets in a strong mu-rich
R matrix.
R
R -banding varies from 60 to 80 dca, occassional to scattered
R qs/qcs varying from < 1% to 2%
R
R -occassional to scattered pyrite up to 1%, scattered py
R (1%) from 89.40 to 91.00 as foliated grains, minor cpy ob-
R served in the veining < 0.3%, weakly magnetic < 1% mg
R
R contact - sharp contact 60 dca.

R
R
P 100.82 140.47 3B1 53B2 5CHFDBI+BNFR BN60C/70 D)D) D-
L G AM FO73
R
R Intermediate to Mafic Tuff/Lapilli-Tuff/Volcaniclastic
R
R -green to grayish-green color, intermediate to mafic in
R composition with a moderate v.f.g. chloritic matrix, upper
R part of the contact consists of reworked tuff/volcaniclas-
R tic grading into a tuff/lapilli-tuff (bands up to 3.0 cm
R in size, possible feldspar porphyry fragment from 125.81
R to 126.08.
R
R 125.81 to 126.08 - Feldspar Porphyry - gray color, felsic
R composition, 5% to 10% ghost fd pheno-
R crysts in a v.f.g. qz-rich matrix, sub-
R porphyritic texture, <1% py, sharp 75
R dca upper and 80 dca lower contacts
R
R -well developed banding varying from 65 to 90 with a gener-
R al increase in banding towards 140.47, weakly to moderately
R foliation varying from 70 to 75 dca, occassional to scat-
R tered qs/qcs (< 1% to locally 5%)
R
R 133.10 to 133.53 - Fault Zone - broken core from 133.10 to
R 133.53 with strong shearing and 5% qs/qcs
R fracturing from 133.53 to 134.10, sh
R varies from 34 to 42 dca
R
R 139.50 to 139.90 - Fault Zone - broken and blocky core.
R
R -occassional to scattered v.f.g. to f.g. foliated po > py
R > cpy, increased po-py from 100.82 to 107.37 varying from
R 1% to 7% and averaging 2% to 3%, local sections that have
R increased sulphides as from 114.50 to 116.00 with 3% to 5%
R po and py, weakly magnetic < 1%
R
R contact - sharp, wavy contact 70 dca.
R
R
PTCH 140.47 161.84 3B1 53B2 5CHTABI1FOFR FO D*D* D)
L G CHJ2TAJ1 BN J1 J2
R
R Talc-Chlorite-Altered Intermediate to Mafic Tuff/Tuff-Bx

R
R -green, dark green, and dark gray color, altered intermed-
R iate to mafc composition with strong to locally moderate
R talc-chlorite-(biotite) alteration of the strongly foliated
R /sheared matrix, variational intermediate and felsic bands
R and/or fragments...
R
R 142.32 to 143.00 - Altered Intermediate to Mafic Tuff/
R Tuff-Breccia - intermediate bands/frag-
R ments up to 30 cm in size.
R 145.78 to 146.41 - Intermediate Tuff (Fragment?) - gray
R color, intermediate to (felsic) composi-
R tion, 5% to 10% ch/bi in a v.f.g. matrix
R and 2% to 4% po-py-(cpy) with gn??
R
R 150.35 to 150.65 - Felsic to Intermediate Crystal Tuff -
R gray color, felsic to (intermediate)
R composition with 10% to 15% fd xtls up
R to 0.15 cm in size, foliated fd, may re-
R present a fragmental fragment.
R
R 151.02 to 154.50 - Intermediate Tuff - gray and greenish-
R gray color, intermediate composition,
R 15% to 20% bi > ch, several bi/ch/ta
R sh, banded texture, < 1% to 2% qs/qcs,
R up to 1% scattered po
R
R 161.00 to 161.84 - Altered Intermediate to Mafic Tuff-Lap-
R illi-Tuff -intermediate bands up to 6.0
R cm wide.
R
R -strongly foliated 96 to 129 dca with an open Z-drag fold
R in the upper part of the section with the axial plane dip-
R ping 134 dca, banding in the intermediate tuff varies
R from 110 to 115 dca, occassional qs/qcs (up to 1%).
R
R -occassional to widely scattered py-po-(cpy) < 1%, increase
R in sulphides from 145.78 to 146.41 (2% to 4%), 150.35 to
R 150.65 (1% to 2%), and from 151.07 to 154.50 (up to 1%),
R weakly magnetic with moderate to strong magnetism from a-
R bout 155.00 to 161.84 (1% to 2% mg)
R
R contact - sharp contact 110 dca
R
R

P 161.84 169.80 16A2X FDQZBI1MX FO D.D. D.
L W
R
R Felsite
R
R -bleached white, dull grayish-white, white, and pinkish-
R white color, felsic composition being strongly albitic in
R composition with a v.f.g. and aphanitic matrix of fd-qz
R with scattered brown and black foliated and non-foliated
R biotite varying from 3% to 7%, < 1% to 3% scattered Kspar
R in the v.f.g. matrix.
R
R -massive and featureless, occassional qs (< 1%), weakly
R foliated between 110 and 120 dca.
R
R 168.52 to 168.84 - Felsic Dyke - white color, v.f.g. and
R aphanitic fd-qz matrix with 10% to 15%
R foliated ch, barren to < 1% py, sharp
R 105 dca upper and 90 dca lower contact.
R
R -barren to occassonal v.f.g. py (< 1%)
R
R contact - sharp, broken contact - possible fault??
R
R
PTCH 169.80 170.83 3B1 X CHTABI2FOSH FO D-D- D/
L NGTAJ2CHJ3FD J2 J3
R
R Talc-Chlorite-Biotite-Altered Intermediate to Mafic Tuff
R
R -greenish-black to dark green color, strongly altered in-
R termediate to mafic composition being strongly altered talc
R -chlorite-biotite along shear planes, v.f.g., foliated ma-
R trix.
R
R -variable shearing 120 to 145 dca, this section represents
R a shear between the felsite and the feldspar porphyry, be-
R low, no qs/qcs in this section
R
R -occassional py-mg (< 1%)
R
R contact - sharp contact 110 dca.
R
R
P 170.83 171.81 14B X FDQZBI=PP D)D) D-

L 3A CHE1TAE= E1
R
R Feldspar Porphyry
R
R -gray color, felsic composition with 10% to 20% white fd
R varying < 0.05 to 0.10 cm in size, fd are set in a v.f.g.
R qz-fd matrix with 5% to 7% biotite
R
R -porphyritic texture, minor qs/qcs (< 1%)
R -scattered v.f.g. to f.g. po-py-(cpy) varying < 1% to lo-
R cally 2%, weakly magnetic with < 1% magnetite
R
R contact - upper contact at 171.00 with ta-ch-bi shear 127 d
R dca and a similar lower contact from 171.66 to
171.81 at 110 and 121 dca, respectively
R
R
P 171.81 174.10 11B2X FDCHBI=EQPP D)D* D-
L A
R
R Diorite
R
R -gray to greenish-gray color, intermediate composition with
R 10% to 20% chlorite and 5% black biotite.
R
R -sub-equigranular to sub-porphyritic texture, minor qs/qcs
R (< 1%)
R
R -occassional to widely scattered py-po-(cpy) with local
R concentrations up to 1%, weakly magnetic with < 1% mg.
R
R contact - sharp contact 120 dca
R
R
PCH 174.10 180.00 3B1 53B2 5CHFDBI1FRFO FO D-D- D-
L G CHJ2TAJ1 J2
R
R Chlorite-(Talc)-Altered Intermediate to Mafic Tuff/Lapilli-
R Tuff
R
R -green to dark green color, strongly altered to chlorite
R with accompanied talc alteration in a v.f.g. and strongly
R sheared matrix, variable biotite < 5% to 10%
R
R -strongly foliated, fragmental texture with the shearing

R varying from 100 to 120 dca, monolithologic and altered
R intermediate to mafic fragments have been extensively
R elongated with fragment size up to 3.0 to 5.0 cm in size.
R
R -broken and blocky core along fracture planes from 178.00
R to 180.00
R -occassional v.f.g. py-po (< 1%), weakly magnetic with < 1%
R magnetite
R
R contact - gradational contact
R
R

P 180.00 349.06 3B1 53B2 5CHFDBI1BNFO BN91 D*D+ D-
L G AMGA+FR FO81
R
R Intermediate to Mafic Tuff-(Lapilli Tuff)-(Volcaniclastic)
R
R -green, dark green, to grayish-green color, intermediate to
R mafic composition with moderate chlorite and variable bio-
R tite and muscovite (<5% to locally 15%), scattered c.g.
R porphyroblastic garnets varying from < 3% to 5% from 209.85
R to 222.50, 232.00 to 240.80, 245.40 to 280.07, and from
R 293.00 to 349.06 - ga are associated with the more ch-bi-
R mu bands/shears
R
R -scattered very thin micaceous bands and/or shears composed
R of ch-(bi)-(mu)-(ga) varying from < 1.0 to 5.0 cm wide -
R vary in concentration from < 1% to 5%
R
R 222.50 to 228.10 Amphibole-feldspar schist - intermediate
R 228.50 to 231.03 to mafic tuff or a m.g. to c.g.
R 280.07 to 293.00 flow, 35% to 45% am > fd with a sub-
R equigranular texture, < 1% to local
R 3% qs/qcs, gradational to sharp con-
R tacts.
R
R 332.31 to 332.87 Arkose - gray color, intermediate com-
R 332.98 to 333.10 position with 10% to 15% v.f.g.
R to f.g. (up to 0.10 cm) fd
R lithic xtls, composition of fd-
R qz-bi with 15% to 20% biotite.
R
R -well developed banding and foliation varying from 40 to
R 140 dca, significant change in banding at 232.00 with
R banding from 180.00 to 232.00 varying from 115 to 140 dca

R and banding from 232.00 to 349.06 varying from 40 to 110
R dca with the common variance between 60 and 70 dca.
R
R -occassional to flooded sections of qcs = cs > qs > qv
R varying < 1% to 80% - overall average is between 5% to 6%
R
R 202.80 to 205.00 - Fracture Zone - 25% to 30% qs/qv/qcs
R with veins & stringers up to 23 cm wide,
R veins and stringers are parallel to
R banding, quartz-sulphide vn from 204.25
R to 204.55 with 20% to 30% po replacing
R wallrock septae and 5% to 10% in vn,
R overall, 5% to 7% po > py > cpy with up
R to 1% magnetite.
R
R 208.50 to 208.85 - Fracture Zone - 20% qcs parallel to
R banding/foliation, 1% v.f.g. and folia-
R ted po-py-(cpy) and weak mg (< 1%)
R
R 244.27 to 245.00 - Fracture Zone - 35% to 40% qcs/qs par-
R llel to banding, envelopping 5% to 10%
R qcs/qs from 245.00 to 249.00, 5% v.f.g.
R po-py in the vn matte and wallrock
R
R 263.80 to 264.25 - Fracture Zone - 10% to 15% qcs and ca
R fractures, < 1% py and po.
R
R 272.60 to 273.00 - Cb-Flooded Fracture Zone - grayish-white
R color, primarily composed of ca with
R 20% qcs/cs/ca-flooding, 5% po-py-(cpy)
R 273.87 to 274.17 - Cb-Flooded Fracture Zone - 35% to 40%
R ca-flooding in the form of cs/qcs, 3% to
R 5% po-py-(cpy) associated with the ca
R
R 298.25 to 298.55 - Cb-Flooded Fracture Zone - 80% to 85%
R ca-flooding in the form of cs/qcs, 5%
R po > py
R 299.72 to 300.63 - Fracture Zone - 25% qv/qs/qcs fracture-
R filling, 5% to 10% foliated po
R 301.45 to 301.75 - Cb-Flooded Fracture Zone - 60% ca-flood-
R ing band parallel to banding, 5% po
R 307.45 to 310.57 - Cb-Flooded Fracture Zone - 70% to 80%
R ca-flooding in the form of intense cs/
R qcs with wallrock septae up to 7.0 cm
R wide, < 1% to 5% scattered po

R
R 313.00 to 314.00 - Fracture Zone - 20% to 30% qcs parallel
R to banding and foliation, ca along sh
R planes in the wr, up to 1% po-py
R
R -variable concentrations of po > py > cpy throughout this
R section, sulphides vary from < 1% to very localized sec-
R tions of 40%, overall average is 2% to 4% po-py-(cpy) with
R increased sulphide contact in cb-flooded fracture zones &
R in sections with significant cb., cpy associated with po,
R quartz sulphide vn from 204.25 to 204.55 with 30% to 40% po
R as a replacement for the walllrock septae and 5% to 10% in
R the vn matte, weakly magnetic with < 1% magnetite.
R
R contact - sharp and broken
R
R

P 349.06 353.72 4B1 72A 3FDQZCH2FRMX FO66 D*D(D*
L A BI C/77
R
R Intermediate Tuff-(Lapilli-Tuff) and Mafic to Ultramafic
R Flow
R
R -dark gray & green color, 75% of this section is intermed-
R iate in composition with variable 5% to 20% foliated bi and
R ch, the remaining 25% of the section is mafic to ultra-
R mafic in composition with moderate to strong ch and weak to
R locally moderate ta alteration, several thin (4.0 to 6.0 cm
R wide) strongly chloritic sh within the intermediate tuff
R
R 349.65 to 350.85 - Mafic to Ultramafic Flow
R
R -foliated, fragmental texture with the foliation varying
R from 62 to 70 dca, generally tuffaceous with a gradual tuff
R /lapilli-tuff from 351.73 to 353.72 with micaceous frag-
R ments up to 1.0 cm wide, massive mafic to ultramafic flow,
R occassional qs/qcs (< 1%)
R
R -occassional to widely scattered v.f.g. py > po with the
R overall average being < 1%, slight increase in sulphides
R to 1% from 350.85 to 351.73, weakly magnetic with < 1% mg
R in the intermediate tuff, 1% to 2% mg with moderate mag-
R netism in the mafic to ultramafic flow.
R
R contact - sharp contact 77 dca.

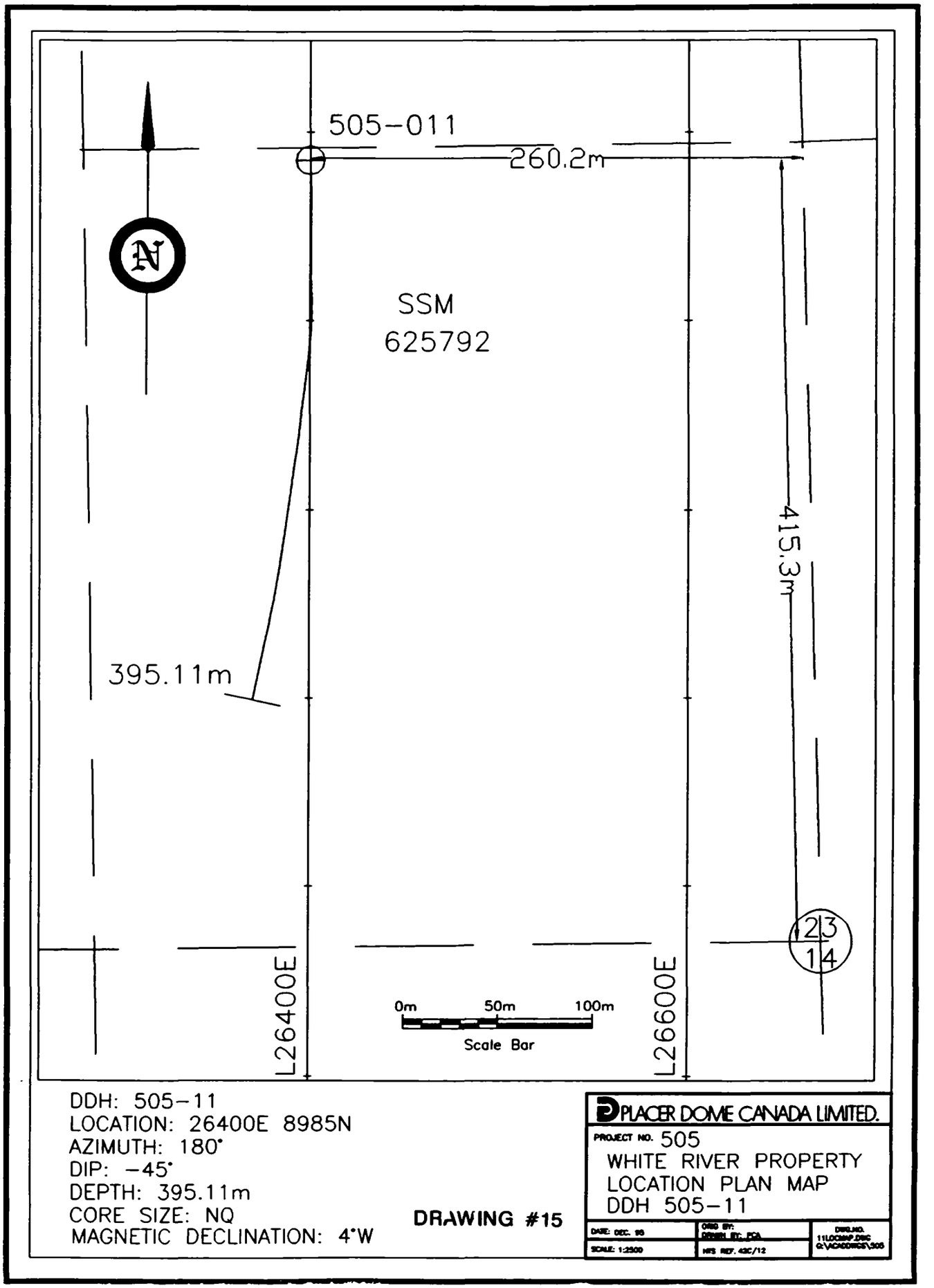
R
R
P 353.72 373.60 2E 52B 5CHTABI1BXFO FO74 D(D+
L GNTAJ1 C/72
R
R Mafic to Ultramafic Flow/Flow Breccia
R
R -green to dark green color, mafic to ultramafic in composi-
R tion with moderate to strong ch and weak to locally moder-
R ate talc alteration, v.f.g. matrix
R
R -foliated, bx texture varying from 60 to 90 dca, local
R flow bx textures (clast-supported being tightly packed)
R with flow bx 'clasts' up to 5.0 cm in size, other sections
R have a massive appearance, occassional to locally scattered
R qs from 366.25 to 366.75 (5% qs)
R
R 355.86 to 356.04 - Intermediate Tuff - gray color, inter-
R mediate in composition, weakly foliated,
R raft within the flow bx
R 356.14 to 356.21 - Intermediate Tuff - similar to section
R from 355.86 to 356.04
R
R 365.20 to 365.37 - Intermediate Tuff - similar to section
R from 355.86 to 356.04 with micaceous
R fragments up to 0.50 cm in size (5% to
R 10%), sharp upper and lower contacts 90
R dca.
R 369.20 to 369.72 - Feldspar Porphyry, gray color, felsic to
R intermediate in composition with 20% to
R 25% foliated fd phenocrysts in a v.f.g.
R qz-fd matrix, 5% to 10% bi, porphyritic
R texture, < 1% qs, widely scattered py up
R to 1%, sharp upper ad lower contacts 118
R dca
R
R -occassional to locally scattered v.f.g. py (< 1%) with a
R slight increase in py in the intermediate tuffaceous rafts
R and the feldspar porphyry, gradual increase in magnetism
R from 357.00 to 373.60 to 1% to 3% mg.
R
R contact - sharp contact 72 dca
R
R
PSI 373.60 375.07 4B1 X QZFDBI=FX FO69 D= D*

L 2A QZP3 KF C/92 P3
R
R Silicified & Fractured Intermediate Tuff
R
R -dark gray to gray color, moderately to strongly silicified
R intermediate matrix with 5% to 7% black biotite, v.f.g.
R and aphanitic.
R
R -weakly foliated 66 to 71 dca, fractured with 15% to 20%
R qv/qs/qfs and thin ch fracture-filling, veins/stringers
R up to 10 cm in width.
R
R -scattered v.f.g. to f.g. pyrite cubes in the altered ma-
R trix with the occassonal py in the vn/stringer fractures,
R py varies from 3% to 5%, weakly magnetic with < 1% mg.
R
R contact - sharp contact 92 dca.
R
R

P 375.07 381.61 3B1 54B4 5FDCHBI1FR FO79C/75 D* D(
L 5A CHE1BIE=QZ BN74 E= E1
R
R Intermediate Crystal Tuff & Intermediate to Mafic
R Tuff-(Lapilli-Tuff)
R
R -gray and green alternating colors, this section is com-
R prised of 45% xtl tuff and 55% tuff-lapilli-tuff.
R -crystal tuff is intermediate composition with
R 10% to 15% black biotite and 15% to 20 % fd xtls up to 0.50
R in a v.f.g. to f.g. qz-fd-bi tuffaceous matrix.
R -tuff/lapilli-tuff is intermediate to mafic in composition
R with moderate to locally weak chlorite, wispy and foliated
R mafic fragments up to 1.0 cm in size comprisng of 15% to
R 25% of the units, in sharp contact with the xtl tuffs
R
R Intermediate Crystal Tuffs from...
R 375.07 to 376.01 - sharp lower contact 70 dca
R 378.28 to 379.45 - sharp upper and lower contacts 85 dca
R 380.81 to 381.61 - sharp 65 dca upper and 75 dca lower con-
R tacts.
R
R -interbanded/interbedded contacts varyng from 70 to 85 dca,
R weak to moderate foliation varying from 65 to 86 dca, oc-
R cassional qs/qcs (< 1%), 8% of this section has xcutting
R strong ch-bi shears varying in width from 2.5 to 39 cm -

R widest shear is from 376.01 to 376.40.
R
R -occassional & widely scattered v.f.g. pyrite (< 1%), weak-
R ly magnetic with < 1% magnetite.
R
R contact - sharp contact 75 dca.
R
R
P 381.61 388.65 4B4 52B 5FDCHBI1PPMX FO76C/80 D(D)
L G CHE1TAJ1QZ BN79 E1 E1
R
R Felsic Crystal Tuff and Mafic to Ultramafic fLOW
R
R -alternating green and gray color, this section is com-
R prised of 54% xtl tuff and 46% flow.
R -crystal tuff is intermediate to (felsic) in composition
R being composed of fd-qz-bi with 10% to 20% black biotite,
R scattered v.f.g. to m.g. (up to 0.20 cm in size) fd xtls
R (20% to 30%) giving a porphyritic texture, 2% to 3% fd
R xenocrysts (> 0.20 cm in size).
R -massive flows are mafic to ultra mafic composition with
R moderate to strong chlorite with variable talc alteration,
R sharp brecciated or sheared contacts with the xtl tuffs.
R
R Felsic Crystal Tuffs from
R 382.37 to 383.14 - sharp 60 upper and 70 lower contacts
R 383.36 to 383.93 - sharp 67 upper and 75 lower contacts
R 385.02 to 386.57 - sharp 80 dca upper and lower contacts
R 387.71 to 388.65 - sharp upper contact at 80 dca
R
R -all contacts between the xtl tuff and the flow have been
R strongly ch and/or bi altered (up to 10 cm wide) in the ma-
R fic to ultramafic flows - contacts are also strongly shear-
R ed.
R
R -interbanded geological contacts varying from 60 to 80 dca
R with all the contacts being sharp, foliated 65 to 90 dca
R with a gradual increase in core angles to 388.65, occas-
R sional qcs/qs (< 1%)
R
R -occassional to widely scattered v.f.g. pyrite (< 1%),
R weakly magnetic xtl tuff with moderately to strongly mag-
R netic mafic to ultramafic flows varying from 1% to 3%.
R
R contact - sharp contact 80 dca

R
R
P 388.65 422.00 3B5 53B1 5FDCHBI2BNFO BN84 D*D* D)
L 2NG QZ FR FO74
R
R Intermediate to Mafic Volcaniclastic/Tuff/(Lapilli-Tuff)
R
R -dark green to greenish black color, intermediate to mafic
R composition with the composition being more commonly
R mafic, moderately to locally strongly biotitic and chlori-
R tic.
R
R 388.65 to 405.37 - Banded Volcaniclastic
R 405.37 to 422.00 - Tuff/Lapilli-Tuff being an am-fd schist,
R
R -increase in fragment size from 413.15 to 414.92 with 10%
R to 15% foliated micaceous fragments up to 1.0 to 1.5 cm in
size.
R
R 402.55 to 402.83 - Arkosic-wacke - gray color, intermediate
R composition with 10% to 15% bi and ch,
R sharp 83 dca upper and 70 dca lower
R contact.
R
R -banding varies from 65 to 110 dca from 388.65 to 405.37
R with foliation varying 67 to 80 dca to 422.00, occassional
R to locally scattered qs/qcs varying < 1% to 5%
R
R -occassional to scattered v.f.g. po and py varying < 1% to
R locally 3%, minor cpy (< 0.2%), po > py occurs as foliated
R to 'strung-out' wispy grains parallel to foliation with
R increased in sulphides from 388.65 to 390.60 (1% to 2%),
R 398.00 to 400.00 (1% to 2%), and from 417.24 to 418.00 (1%
R to 3%), overall, moderately magnetic (< 1% to 3% mg) with
R a variable magnetic signature throughout the section.
R
/END



DDH: 505-11
LOCATION: 26400E 8985N
AZIMUTH: 180°
DIP: -45°
DEPTH: 395.11m
CORE SIZE: NQ
MAGNETIC DECLINATION: 4°W

DRAWING #15

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER PROPERTY
LOCATION PLAN MAP
DDH 505-11

DATE: DEC. 98	DRG BY: DRAWN BY: JCA	DRG.NO. 11LOCMAP.DWG G:\ACADDWGS\305
SCALE: 1:2500	MRS REF. 43C/12	

*** WHITE RIVER ***
PLACER DOME CANADA INC.

Drill Hole: 0505-011

Date: 21st Dec, 1995
Northing : 0.00
Easting : 7700.00
Elevation : 0.00
Hole Depth : 395.11mt

Grid Azimuth: 0.00
Coord System:

Project ID : 505
Core Size : NQ
Date Logged : 13SEP95
Logged By :
Assisted by :
Drillers : BRAD
Drill date : SEP95
Rig Type :
Drill Time :
Print Template : GTRAN001.FMT

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	180.00	-45.00
11.00mt	178.00	-45.20
56.00mt	181.00	-45.20
98.00mt	178.00	-45.00
155.00mt	187.50	-44.10
194.00mt	187.00	-43.80
239.00mt	188.00	-43.00
281.00mt	188.00	-42.00
320.00mt	190.00	-40.50
341.00mt	192.00	-40.10
395.10mt	192.00	-39.00

From	To	Geology
0.00	2.00	Overburden
2.00	6.42	Arkose, PORPHYRITIC FELSIC INTRUSIVE (Old - Late), Brownish-gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Garnet, Banded, Porphyritic
6.42	90.78	Arkose, Greywacke, Gray, Feldspars (general), Chlorite, Quartz (general), Biotite, Epidote, Banded
90.78	98.78	Arkose, Greywacke, Gray, Feldspars (general), Chlorite, Biotite, Banded
98.78	108.60	Arkose, Greywacke, Gray, Feldspars (general), Chlorite, Quartz (general), Biotite, Banded
108.60	128.00	Greywacke, Gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Garnet, Banded
128.00	163.00	Argillite, Black, Feldspars (general), Biotite, Quartz (general), Foliated, Banded
163.00	195.75	Argillite, Argillite, Gray, Feldspars (general), Biotite, Quartz (general), Chlorite, Garnet, Banded, Foliated, Porphyroblastic
195.75	234.57	Arkose, Sandstone, Gray, Feldspars (general), Quartz (general), Biotite, Bedded, Banded
234.57	293.15	Arkose, Greywacke, Gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Epidote, Banded, Foliated, Bedded
293.15	299.30	Arkose, Greywacke, Gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Banded
299.30	322.40	Volcaniclastic, Ash Tuff - < 2 mm, Greenish-Gray, Feldspars (general), Chlorite, Quartz (general), Biotite, Epidote, Banded, Foliated
322.40	365.36	Ash Tuff - < 2 mm, Volcaniclastic, Gray, Feldspars (general), Biotite, Quartz (general), Chlorite, Epidote, Massive, Banded
365.36	371.15	Granodiorite, PORPHYRITIC FELSIC INTRUSIVE (Old - Late), Pinkish-gray, Quartz (general), Feldspars (general), Biotite, Porphyritic
371.15	372.26	Pyroclastics (unsubdivided), Flows (unsubdivided), Greenish-Gray, Feldspars (general), Chlorite, Biotite, Quartz (general), Massive
372.26	377.72	Granodiorite, PORPHYRITIC FELSIC INTRUSIVE (Old - Late), Pinkish-gray, Quartz (general), Feldspars (general), Chlorite, Biotite, Porphyritic
377.72	381.57	Pyroclastics (unsubdivided), Flows (unsubdivided), Green, Feldspars (general), Chlorite, Epidote, Biotite, Massive, Banded
381.57	384.70	Granodiorite, Pinkish-gray, Feldspars (general), Quartz (general), Epidote, Biotite, Chlorite, Porphyritic
384.70	385.80	Pyroclastics (unsubdivided), Flows (unsubdivided), Gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Banded

From	To	Geology
385.80	387.52	Granodiorite, Pinkish-gray, Feldspars (general), Quartz (general), Epidote, Biotite, Chlorite, Porphyritic
387.52	395.11	Flows (unsubdivided), Pyroclastics (unsubdivided), Greenish-Gray, Feldspars (general), Chlorite, Biotite, Massive
395.11		** END OF HOLE **

White River DDH 0505-011 Detailed Remarks

R Starting Date: September 11, 1995
R Completion Date: September 16, 1995
R Drill Contractor: Bradley Bros. Limited
R
R Logged By: Stephen Roach
R Log Completed: September 22, 1995
R
R Casing: 3.0 meters (left in hole)
R
R Coordinates (Lac Grid) Line 7700 E
R Station 0000
R
R Coordinates (Placer Dome Grid) Line 26400 E
R Station 8985 N
R
R Survey Coordinates UTME: 593543.02
R UTMN: 5391340.43
R Elev: 394.82 metres (asl)
R
R Claims Drilled: SSM 625792
R
R Core Storage: Cedar Lake Camp
R

P 0.00 2.00 OVBDX
L
R Overburden - mainly sand
R
P 2.00 6.42 6C 813 2FDQZBI2BNPP BN73C/75 D) D-
L BA CHGA) FO72
R
R Arkosic-wacke xcut by Feldspar Porphyry
R
R -dirty brown and light gray colors, this section consists
R of 80% arkosic-wacke and 20% feldspar porphyry.
R
R -arkosic-wacke has a composition of fd-qz-bi-(ch)-(ga) with
R this unit being moderately to strongly micaceous, bi > ch
R 15% to 25%, localized, scattered garnets (2% to 4%) from
R 4.40 to 4.80.
R
R 2.20 to 2.66 - Feldspar Porphyry - light gray color, felsic

R composition with a v.f.g. qz-fd matrix about
R 10% to 15% foliated fd (< 0.10 cm in size),
R porphyritic texture, < 1% qs, occassional
R py-mg (< 1%), sharp, broken contacts
R
R 5.76 to 5.87 - Feldspar Porphyry - similar to section from
R 2.20 to 2.66 with sharp 75 dca upper and
R lower contacts
R
R 6.09 to 6.40 - Feldspar Porphyry - similar to section from
R 2.20 to 2.66 with sharp 75 dca upper and
R lower contacts.
R
R -well developed banding 70 to 75 dca with the occassional
R foliation 72 dca, occassional qs/qcs (< 1%).
R
R -occassional to scattered v.f.g. pyrite up to 1%, weakly
R magnetic with < 1% magnetite
R
R contact - sharp contact 75 dca.
R
R

PCT 6.42 90.78 6C 56D 5FDCHBI1BN BN79 D*D- D-
L A QZQ1 QZEP) FO81 X1 Q1
R
R Intermittent Calc-Silicate Altered Arkosic-wacke
R
R -gray, dark gray, to bleached light gray color, v.f.g. com-
R position of fd-qz-bi-ch with this section being moderately
R to strongly micaceous with a combined % of ch and bi vary-
R ing from 20% to 30%.
R
R -variable concentrations of calc-silicate alteration from
R < 1% to 50% - occurs as thin bands (up to 0.30 meters wide)
R and as fracture-filling with minor occurrences of insipient
R alteration, calc-silicate alteration consists of f.g. to
R m.g. (up to 0.15 cm) foliated amphiboles in a v.f.g. fd-qz-
R (ca)-(ep) matrix giving these bands a mottled texture, the
R overall average of this section is approximately 10% with
R the more common range being 5% to 15% with associated sili-
R cification.
R
R -most contiguous sections of calc-silicate alteration is
R from 55.00 to 58.00 (10% to 20) with the other sections
R up to 2.0 meters wide varying 20% to 50%, significant in-

R crease in calc-silicate from about 46.00 to 90.78
R
R -well developed banding and foliation varying from 60 to
R 130 dca with prolific calc-silicate banding from 46.00 to
R 90.78, occassional to scattered qs/qcs with/without ep <
R 10% to 15% - overall 2% to 3% and < 14 cm in width.
R
R 18.48 to 29.50 - scattered light colored pistachio greenish
R -white ch-fd-ca-ep clasts, vary in size
R from 2.0 to 6.0 cm and < 1% to locally 10%
R -also occurs as fracture-filling.
R
R -occassional to widely scattered v.f.g. py (< 1%) with loc-
R al sections up to 3%, < 0.5% po and cpy, weakly magnetic
R with < 1% mg with slight increase in mg (1%) from 31.00 to
R 32.50.
R
R contact - sharp contact 105 dca
R
R
PSIB 90.78 98.78 6C 56D 5FDCHBI=BN BN95 D) D(
L 8A QZJ2 FO J2
R
R Silicified-Albitized Arkosic-wacke
R
R -gray to light gray color, v.f.g. matrix composition of fd-
R qz-ch-bi with moderate to strong silicification in the ma-
R trix - locally weak si, gradational increase in sil. alt.
R from 95.00 to 98.78, relict, spotty ch in a v.f.g. qz-fd
R matrix.
R
R -weakly banded and foliated 84 to 115 dca, occassional to
R widely scattered qs/qcs varying 1% to 5%.
R
R -occassional to scattered v.f.g. pyrite varying < 1% to 2%
R with the average up to 1%, py occurs as non-foliated and
R foliated grains, weakly magnetic with < 1% magnetite
R
R contact - gradational contact
R
R
P 98.78 108.60 6C 56D 5FDCHBI1BN BN98 D(D(
L A QZ FO78 X)
R
R Arkosic-wacke

R
R -gray to greenish to brownish-gray color, composition of
R v.f.g. fd-qz-ch-bi in the matrix, < 1% to 5% thin and in-
R sipient calc-silicate alteration (up to 5 cm wide) from
R 97.78 to 104.60 - mainly occur as thin bands, < 1% occas-
R sional, white fd lithic xtls (1% to 2% up to 0.15 cm in
R size).
R
R -well developed banding/bedding 90 to 114 dca, occassional
R qs/qcs varying < 1% to 5%
R
R -occassional to locally scattered v.f.g. pyrite (< 1%) and
R weakly magnetic with < 1% magnetite.
R
R contact - gradational contact with gradationally more ch
R
R

P 108.60 128.00 6D X FDQZBI2BN BN89 D(D-
L A CHGA+ FO84 X*
R
R Greywacke/(Argillite)
R
R -dark gray to brownish and blackish-gray color, v.f.g.
R composition of fd-qz-bi-ch being moderately micaceous with
R 20% to 30% biotite in a v.f.g. matrix, biotite is folia-
R ted, scattered garnets (1% to 5%) in intermittent bands,
R increase in ga from 115.00 to 128.00, occassional calc-sil-
R icate bands (< 1%) in the upper part of this section.
R
R -occassional accidental rounded coarse clast (< 1%) and up
R to 5.0 cm in size.
R
R -well developed banding/bedding 80 to 95 dca, occassional
R to locally scattered qs/qv varying < 1% to 3% with...
R
R 113.43 to 113.70 - Quartz Vein Bx, milky white color, qz
R composition with qz fragments (< 0.20 cm
R in size) in a v.f.g. qz-rich matrix, 5%
R coarse light green matrix, < 1% po-cpy
R fracture-fill in vn, sharp 45 dca upper
R and 50 dca lower contact.
R
R 115.76 to 115.98 - Quartz Vein Bx - similar to section from
R 113.43 to 113.70 with 5% to 7% coarse
R light green se and < 1% po-py-cpy-gn

R fracture-filling in vn, sharp, irregular
R upper contact 90 to 130 dca and lower
R contact is at 103 dca.
R
R -occassional v.f.g. pyrite (< 1%), weakly magnetic with <
R 1% magnetite.
R
R contact - gradational contact becoming more argillaceous
R with depth and a gradational increase in garnets.
R
R

P 128.00 163.00 6B X FDBIQZ FOBN FO75 D*D* D*
L N BN80
R
. . Pelitic Argillite
R
R -blackish to brownish-gray color, argillaceous with a v.f.g
R matrix with 20% to 30% brown biotite with black biotite,
R composition is mainly fd-bi-qz-(ch) as a v.f.g. matrix,
R scattered v.f.g. to f.g (< 0.05 cm) pink garnets, grada-
R tional decrease in garnets from 158.00 to 163.00 to about
R 5% to 10%.
R
R -local foliated white sillimanite (2% to 3%) at 146.00 and
R 2% to 4% sericite along the foliation/shear planes from
R 158.50 to 158.90.
R
R -banded and foliated 70 to 90 dca, Z-drag fold of qs 70 dca
R at 152.00, scattered qs/qcs varying < 1% to locally 10% -
R overall average is 2% to 4%
R
R 138.45 to 139.70 - Fault Zone - strongly sheared with 5% to
R 10% thn qs (up to 6.0 cm wide) proximal
R to strong gouge from 138.88 to 139.15,
R strong se-ch-(ta?) along sh planes, 10%
R to 15% ga in a sh, argillaceous matrix
R
R 140.00 to 140.60 - Gabbro - green color, mafic composition
R with moderate ch and 10% to 20% am and
R 10% biotite, weakly foliated, sharp
R 80 dca upper and 110 dca lower contacts
R with irregular, thin qs
R
R -intermittent shears with 8% qs from 155.63 to 156.61 -
R < 1% to 2% ga and the shears are up to 7.0 cm wide.

R
R -occassional py and po as v.f.g. grains in both the wall-
R rock and in some of the stringers/veining - observed aspy
R 1n a 6.0 cm qcs at 153.40 and molybdenite in a 4.0 cm wide
R qs at 162.70, weakly magnetic with < 1% magnetite.
R
R contact - significant decrease, although gradual, in
R garnet concentration.
R
R
P 163.00 195.75 6B 86B 2FDBICH1BNFO BN85 D(D(D(
L 1A QZGA)PB FO78 X-
R
R Interbedded Argillite/Greywacke, Arkosic-wacke, Argillite,
R and Arkose
R
R -gray, dark gray, to blackish to dark greenish-gray color,
R variable compositions due to interbedded nature of this
R section with the main interbed being argillite/greywacke
R (63%), arkosic-wacke (20%), and argillite/pelitic argillite
R (17%), the composition is mainly argillaceous with a v.f.g.
R matrix of fd-bi-ch-(qz)-(ga), 5% calc-silicate bands from
R 187.00 to 188.00
R
R -notable variations are pelitic argillite sections from
R 182.00 to 182.60 and from 184.50 to 185.20 with 15% to 40%
R scattered ga giving those sections a porphyroblastic tex-
R ture, arkose interbed from 189.40 to 190.05 with < 5% fd
R lihic clasts and xtls in a arenaceous matrix of fd > qz.
R
R -chloritic bands from 168.94 to 169.34 and from 169.53 to
R 169.58 with 10% to 15% foliated biotite in a v.f.g. ch ma-
R trix.
R
R -banding/bedding varies from 75 to 92 dca and foliation
R varies from 75 to 85 dca, occassional to scattered qs/qcs
R to local 25% - increase in veining from 170.00 to 171.00
R with 25% qcv/qcs/qs/qv wth ch-se-ca fractures in the vn
R matte, wider enveloppe of 3% to 10% qcs/qs from 171.00 to
R 174.00 with a 1.50 cm wide young qs from 171.55 to 171.81
R xcutting older qcs/qs
R
R -occassional v.f.g. py-po (< 1%) with occurrences of mo
R from 171.55 to 171.81 in a 1.5 cm wide qs with po and cpy
R (< 1%) and at 174.50 in a 8.0 cm wide qs, occurrences of

R aspy (< 0.5%) from 172.00 to 174.00 in some of the qs.
R -weakly magnetic with < 0.5% magnetite.
R
R contact - gradational contact
R
R

P 195.75 234.57 6C 56A 5FDQZBI1BDBN BN77 D(D. D-
L 6A QZ?+ FO86 ?+
R
R Arkose/Arenite
R
R -gray color, v.f.g. composition of fd-qz-bi with 5% to 10%
R v.f.g. black biotite, dirty arenaceous composition.
R
R -intermittent silicified-(sericitic) sections associated
R with numerous hairline fractures from 204.50 to 206.70,
R 220.18 to 221.00, and from 222.00 to 224.00 - 5% to 20%
R silicified-(sericitic) fractures with the adjacent wallrock
R being strongly silicified
R
R 200.87 to 210.00 - Silicified Breccia - light gray color,
R strongly silicified with < 1.5 cm sub-
R rounded to sub-angular wallrock frag-
R ments set in a v.f.g. silicified matrix.
R
R -well developed banding/laminations varying from 60 to 90
R dca, fold axis at 227.00 80 to 85 dca with both S-drag
R folds on the upper part and a Z-drag fold on the lower part
R of this section, occassional to widely scattered qs/qcs
R (< 1% to 5%)
R
R -occassional to very widely scattered v.f.g. py-(po) < 1%,
R very weakly to weakly magnetic with < 1% magnetite.
R
R contact - gradational contact
R
R

P 234.57 293.15 6C 76D 3FDQZBI2BNFO BN77 D(D- D(
L A CHEP)BD FO82
R
R Arkose/Arkosic-wacke
R
R -light to dark gray and greenish-gray color, this section
R has a v.f.g. composition of fd-qz-bi-(ch)-(ep)-(cb) with
R gradational contacts of 'dirty' arenaceous arkose from

R 245.40 to 246.40 and 269.24 to 282.00.
R
R 274.13 to 274.38 - Arkose - gray color, 'dirty' arenaceous
R composition with 15% to 20% fd rounded
R xtls in a v.f.g. fd-qz-bi matrix, 5% to
R 10% biotite, foliated and gradational
R upper and lower contacts
R
R 288.75 to 289.45 - Arkose - gray color, 'dirty' arenaceous
R to intermediate-(felsic) composition
R with 5% to 7% fd rounded xtls and 1% to
R 2% wispy ch-bi clasts?, sub-porphyritic
R texture, gradational contacts with the
R lower contact 53 dca, weakly magnetic
R but a relatively increased up to 1% mg
R 290.76 to 292.30 - Arkose - similar to section from 288.75
R to 289.45 with gradational contacts and
R the upper contact 102 dca and the lower
R contact is 61 dca.
R
R -chloritic section (i.e. greywacke) from 266.32 to 266.77
R with rounded chloritic clasts up to 0.50 cm in size and 5%
R to 10%, patchy, pinkish silicification with he-Kspar? as
R fracture-filling
R
R -well developed banding/bedding varying from 55 to 102 dca
R with the most common variance between 75 and 85 dca, folia-
R ted 75 to 85 dca in the xtl-rich lithic arkosic beds with
R the ch-bi clasts?, occassional to scattered qs/qcs/qv/qcv/
R qfs varying 2% to 20% with the overall average around 5% -
R vn up to 21.0 cm wide but are commonly 5.0 to 10.0 cm wide.
R
R -occassional v.f.g. py-(po)-(cpy) < 0.5% with this section
R being weakly magnetic (< 0.5%), slight increase in mg (up
R to 1%) in the xtl-rich lithic arkose from 288.75 to 289.45
R and from 290.76 to 292.30
R
R contact - gradational increase in silicification
R
R
PSI 293.15 299.30 6C 76D 3FDQZBI1BN BN65 D(D(
L 2A QZQ1 CH FO66 Q1
R
R Silicified Arkosic-wacke/Arkose
R

R -dark gray to gray with localized pinkish hue color, patchy
R silicification throughout the arkosic-wacke with the sili-
R cification occurring in banded-form and in fractures vary-
R < 5% to 20%, pervasive and moderate silicifiction in the
R arkose from 297.33 to 298.56 - arkose is composed of a
R v.f.g. matrix of fd-qz-bi-(ch)-(ep) about 5% v.f.g. to f.g.
R lithic fd xtls, overall, 5% to 7% biotite
R
R -banded/laminated texture varying from 60 to 77 dca between
R altered and unaltered bands/laminations, occassional qs/qcs
R up to 1%, very vuggy and pitted arkose from 297.33 to
R 298.56.
R
R -occassional v.f.g. pyrite (< 1%), weakly magnetic with <
R 1% magnetite.
R
R contact - gradational contact
R
R
P 299.30 322.40 4B5 54B1 5FDCHBI=BNFO BN74 D(D(
L GA QZEP+ FO79
R
R Intermediate Volcaniclastic/Tuff
R
R -gray to greenish-gray color, intermediate composition
R with weak to locally moderate chlorite - 4% to 8% biotite,
R v.f.g. matrix composition of fd-ch-bi-qz-(ep).
R
R 308.28 to 308.48 - Reworked Intermediate Crystal Tuff/
R Arkose - gray color, intermediate com-
R position with 5% fd xtls and 1% to 3%
R foliated ch-bi 'clasts' in a v.f.g. fd-
R qz-bi matrix, gradational contacts with
R an upper contact 71 dca and a lower con-
R tact 70 dca.
R 309.01 to 309.40 - Reworked Intermediate Crystal Tuff/
R Arkose - similar to section from 308.28
R to 308.48 with a grdational upper con-
R tact and a lower contact 77 dca.
R
R -upper part of this section is banded from 299.30 to 304.00
R and is a reworked tuff and/or volcaniclastic (arkosic) -
R gradually more tuufaceous with depth, banding varies from
R 60 to 75 dca with foliations between 60 to 90 dca, folding
R between 321.40 and 322.40 with variable banding from 60 to

R 122 dca with foliations and the fold axis at 80 dca, occas-
R sional qs/qcs (< 1%)
R
R -occassional v.f.g. pyrite with minor chalcopyrite (< 1%),
R weakly magnetic with < 1% mg.
R
R contact - folded contact - gradational
R
R

P 322.40 365.36 3B1 53B5 5FDBICH1MXBN BN70C/82 D. D-
L A QZE)HET)QZEP* FO81 E)
R
R Intermediate to Mafic Tuff/Volcaniclastic (Flow?)
R
R -greenish-gray, gray, and dark gray color, intermediate to
R mafic composition with weak to locally moderate chlorite -
R v.f.g. foliated biotite varies from 10% to 20% biotite,
R v.f.g. matrix of fd-qz-bi-(ch)-(ep) throughout this section
R
R -increased silicification from 348.00 to 349.00 with pink-
R ish-gray to greenish-pink with intermittent and banded si
R alteration with weak Kspar alteration up to 0.30 m. wide,
R also occurs as fracture-filling with up to 5% ep-ca as-
R sociated with fractures.
R
R -weakly banded/foliated 55 to 90 dca, occassional to very
R widely scattered qcs/qs/qfs varying < 1% to locally 5%,
R increased fracturing from 349.00 to 351.84 with 5% qs/qcs
R with adjacent silicified fractures and nminor insipient
R silicification - this section envelopes the pinkish si-he-
R Kspar altered zone from 348 to 349.
R
R 332.85 to 333.10 - Quartz-feldspar Vein, pinkish-white
R color, composition of qz-Kspar-pink ca/
R cb, 5% ch-ep fractured vn matte, barren,
R sharp upper contact 60 dca and lower
R contact is 70 dca.
R
R 337.85 to 338.05 - Granodiorite Sill/Dyke - pinkish gray
R color, felsic to intermediate composi-
R tion, 25% to 30% f.g. to c.g. fd (up to
R 0.40 cm) white and pinkish-white fd,
R sub-porphyritic texture, < 1% qs, < 1%
R py with an increased magnetic signature
R with mg up to 1%, sharp 90 dca contacts.

R
R -barren to occassional v.f.g. py and cpy (< 1%), weakly
R magnetic with < 1% magnetite
R
R contact - sharp contact 82 dca.
R
R
P 365.36 371.15 12A3513 5QZFDBI+PP C/90 D. D)
L PG
R
R Granodiorite
R
R -pinkish-gray to pink color, felsic to intermediate in
R composition with 20% to 30% v.f.g. to c.g. (up to 0.40 cm
R in size) white to pinkish-white fd, v.f.g. qz-fd matrix
R with 2% to 4% black biotite.
R
R -sub-porphyritic texture, scattered qs up to 5% and 5.0 cm
R wide, wallrock xenolith from 370.00 to 370.40.
R
R -occassional v.f.g. pyrite (< 1%), weakly to moderately
R magnetic with up to 1% to 2% magnetite.
R
R contact - sharp contact 90 dca with no chill margin
R
P 371.15 372.26 3B 53A 5FDCHQZ1MX BN80 D. D(
L GA BI C/95
R
R Intermediate to Mafic Tuff/Flow (Xenolith)
R
R -greenish-gray color, intermediate to (mafic) composition
R being weakly chloritic, v.f.g. and massive.
R
R -sole band 80 dca, represents a xenolith in the granodior-
R ite, occassional qs (< 1%)
R
R -barren to occassional v.f.g. pyrite (< 1%)
R
R contact - sharp contact 95 dca
R
P 372.26 377.72 12A3513 5QZFDBI+PP FO90 D- D)
L PG CH
R
R Granodiorite
R

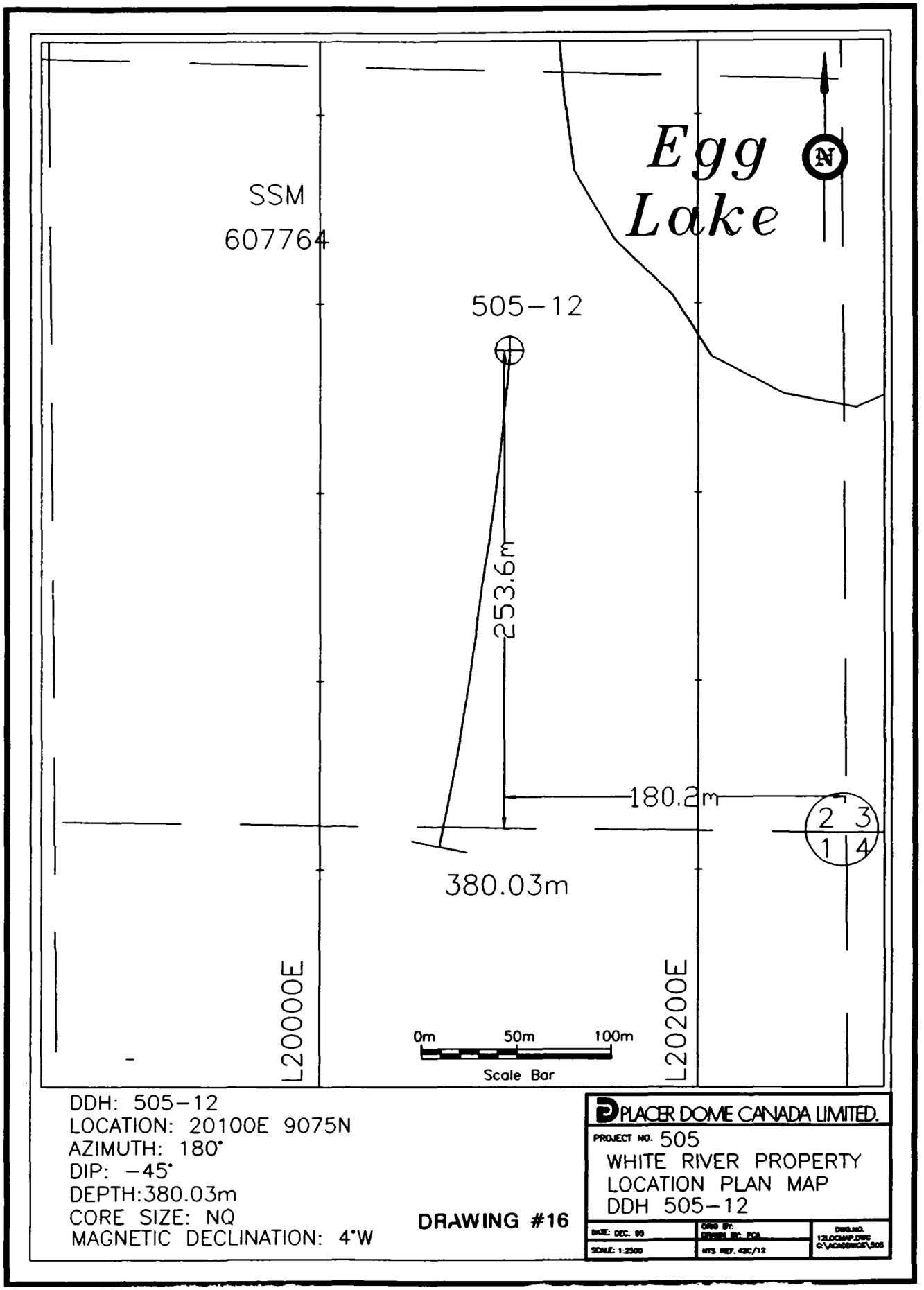
R similar to section from 365.36 to 371.15 with...
R
R 1) slight increase in ch alteration of fd (< 5%)
R
R contact - sharp contact 105 dca.
R

P 377.72 381.57 3B 53A 5FDCHBI1MXBN BN94 D- D.
L G EP C/73
R
R Intermediate to Mafic Tuff/Flow
R
R -green to greenish gray color, intermediate to mafic com-
R position with weak to moderate chlorite - deacrease in ch
R from 380.50 to 381.57 with 5% to 10% biotite.
R
R -v.f.g. and weakly banded 92 to 95 dca, occassional qs/qcs
R (up to 1%).
R
R -occassional v.f.g. pyrite (< 1%), weakly to moderately
R magnetic with < 1% to lcal 2% mg
R
R contact - sharp contact 73
R

P 381.57 384.70 12A3X FDQZBI+PP D(D)
L PG EPCH)
R
R Granodiorite
R
R -pinkish-gray to pink color, felsic to intermediate in com-
R position with 30% to 35% fd phenocrysts up to 0.30 to 0.40
R cm in size, < 5% biotite with scattered light green ep or
R saussuritized feldspars (5% to 10%).
R
R -sub-porphyritic to porphyritic texture, occassional to
R scattered qs (< 3%).
R
R -occassional to widely scattered v.f.g. pyrite (< 1%),
R moderately magnetic with 2% magnetite.
R
R contact - sharp contact 105 dca.
R

P 384.70 385.80 3B 53A 5FDQZBI=BN C/80 D- D)
L A CH
R
R Contact Metamorphosed Intermediate to Mafic Tuff/Flow

```
R               (Xenolith)
R
R               similar to section from 371.15 to 372.26 with...
R
R               1) increment in silicification (i.e. granitization) in
R                 this unit
R
R               2) banded 125 dca.
R
R               3) moderately magnetic with 2% scattered magnetite.
R
R               contact - sharp contact 80 dca.
R               ____________________________________________________________
P   385.80 387.52   12A3X   FDQZBI+PP          D-        D)
L                 PG     EPCH)
R
R               Granodiorite
R
R               similar to section from 381.57 to 384.70
R
R               1) weakly magnetic with 1% magnetite
R
R               contact - sharp contact 110 dca.
R               ____________________________________________________________
P   387.52 395.11   3A  53B  XFDCHBI1MX     BN85    D-        D.
L                 GA              FO60
R
R               Intermediate to Mafic Flow/Tuff
R
R               -greenish-gray to gray color, intermediate to mafic com-
R               position with increase in chlorite from 390.60 - weak to
R               moderate ch with 5% to 10% biotite
R
R               -variable banding 65 to 115 with a decrease in core angles
R               with depth, occassional qs/qcs (< 2%).
R
R               -occassional v.f.g. pyrite (< 1%), weakly magnetic with <
R               1% magnetite
R
/END
```



DDH: 505-12
LOCATION: 20100E 9075N
AZIMUTH: 180°
DIP: -45°
DEPTH:380.03m
CORE SIZE: NQ
MAGNETIC DECLINATION: 4°W

DRAWING #16

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER PROPERTY
LOCATION PLAN MAP
DDH 505-12

DATE: DEC. 98	DRG BY: DESIGN BY: PCA	DWG.NO. 12LOCMAP.DWG C:\ACADDWGS\505
SCALE: 1:2500	NTS REF. 43C/12	

*** WHITE RIVER ***
PLACER DOME CANADA INC.

Drill Hole: 0505-012

Date: 21st Dec, 1995
Northing : 75.00
Easting : 1500.00
Elevation : 0.00
Hole Depth : 380.03mt

Grid Azimuth: 0.00
Coord System:

Project ID : 505
Core Size : NQ
Date Logged : 19SEP95
Logged By : SNR
Assisted by :
Drillers : BRAD
Drill date :
Rig Type : BBS
Drill Time :
Print Template : GTRAN001.FMT

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	180.00	-45.00
22.00mt	186.00	-46.10
89.00mt	186.00	-45.90
150.00mt	189.00	-45.50
209.00mt	187.00	-45.90
266.00mt	189.00	-45.80
296.00mt	189.00	-46.00
347.00mt	191.00	-44.20
380.00mt	192.00	-44.00

From	To	Geology
0.00	15.00	Overburden
15.00	17.67	Crystal Tuff, Gray, Quartz (general), Feldspars (general), Amphiboles (general), Porphyritic
17.67	31.02	Ash Tuff - < 2 mm, Argillite, Blackish-green, Chlorite, Feldspars (general), Garnet, Biotite, Banded, Porphyroblastic
31.02	33.03	IRON FORMATION, Black, Chlorite, Feldspars (general), Garnet, Laminated
33.03	44.35	Argillite, Blackish-green, Biotite, Feldspars (general), Chlorite, Garnet, Porphyroblastic, Banded
44.35	141.76	Arkose, Sandstone, Gray, Quartz (general), Feldspars (general), Chlorite, Biotite, Garnet, Foliated, Banded
141.76	142.86	Feldspar Porphyry (FP), Pinkish-gray, Quartz (general), Feldspars (general), Biotite, Porphyritic
142.86	145.21	Sandstone, Arkose, Pinkish-gray, Quartz (general), Feldspars (general), Epidote, Biotite, Banded
145.21	164.37	Arkose, Gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Epidote, Banded
164.37	164.95	Feldspar Porphyry (FP), Gray, Feldspars (general), Quartz (general), Biotite, Porphyritic
164.95	178.58	Arkose, Gray, Feldspars (general), Quartz (general), Biotite, Banded, Vuggy
178.58	185.88	Arkose, Greywacke, Pinkish-gray, Feldspars (general), Quartz (general), Epidote, Biotite, Chlorite, Banded
185.88	190.25	Greywacke, Arkose, Black, Feldspars (general), Quartz (general), Chlorite, Biotite, Epidote, Banded
190.25	193.42	Arkose, Greywacke, Pinkish-gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Epidote, Banded
193.42	202.05	Arkose, Argillite, Gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Garnet, Banded, Porphyroblastic
202.05	204.41	Crystal Tuff, Gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Fragmental, Porphyritic
204.41	219.37	Arkose, Gray, Feldspars (general), Quartz (general), Garnet, Biotite, Chlorite, Banded
219.37	220.80	'Popcorn' Feldspar Porphyry (FP), Gray, Feldspars (general), Quartz (general), Biotite, Porphyritic
220.80	262.48	Arkose, Gray, Feldspars (general), Quartz (general), Sillimanite, Biotite, Kyanite, Banded, Foliated
262.48	289.03	Sandstone, Chert, Gray, Quartz (general), Feldspars (general), Sillimanite, Biotite, Dolomite, Laminated, Banded, Foliated
289.03	295.20	Arkose, Greywacke, Gray, Feldspars (general), Quartz (general), Garnet, Biotite, Chlorite, Banded, Porphyroblastic
295.20	296.47	Ash Tuff - < 2 mm, Crystal Tuff, Gray, Feldspars (general), Quartz (general), Biotite, Foliated
296.47	296.94	Flow (unsubdivided), Green, Chlorite, Talc, Massive
296.94	298.21	Feldspar Porphyry (FP), Grayish-white, Feldspars (general), Quartz (general), Biotite, Porphyritic

From	To	Geology
298.21	308.05	Flow (unsubdivided), Green, Chlorite, Talc, Massive
308.05	339.88	Volcaniclastic, Green, Chlorite, Feldspars (general), Amphiboles (general), Biotite, Garnet, Banded
339.88	340.65	Feldspar Porphyry (FP), Gray, Feldspars (general), Quartz (general), Biotite, Porphyritic
340.65	347.00	Volcaniclastic, Green, Chlorite, Feldspars (general), Muscovite, Biotite, Banded
347.00	350.50	Feldspar Porphyry (FP), Volcaniclastic, Gray, Feldspars (general), Chlorite, Biotite, Amphiboles (general), Porphyritic, Massive
350.50	356.97	Flows (unsubdivided), Green, Chlorite, Feldspars (general), Amphiboles (general), Biotite, Massive
356.97	358.59	Volcaniclastic, Argillite, Blackish-green, Chlorite, Feldspars (general), Muscovite, Biotite, Laminated, Banded
358.59	369.00	Flow (unsubdivided), Green, Chlorite, Talc, Feldspars (general), Biotite, Massive
369.00	373.62	Granodiorite, PORPHYRITIC FELSIC INTRUSIVE (Young - Early), Grayish-white, Feldspars (general), Quartz (general), Sausserite, Biotite, Sericite, Equigranular, Porphyritic
373.62	380.03	Volcaniclastic, Green, Chlorite, Feldspars (general), Biotite, Muscovite, Calcite, Banded
380.03		** END OF HOLE **

White River DDH 0505-012 Detailed Remarks

R Starting Date: September 17, 1995
R Completion Date: September 21, 1995
R Drill Contractor: Bradley Bros. Limited
R
R Logged By: Stephen Roach
R Log Completed: September 25, 1995
R
R Casing: 16.0 meters (left in hole)
R
R Coordinates (Lac Grid) Line 1500 E
R Station 75 N
R
R Coordinates (Placer Dome Grid) - no grid
R (Approximate coordinates) Line 20100E
R Station 9075N
R
R Survey Coordinates UTME: 587360.18
R UTMN: 5391264.70
R Elev: 330.56 metres (asl)
R
R Claims Drilled: SSM 607764
R SSM 607772
R
R Core Storage: Cedar Lake Camp
R

P 0.00 15.00 OVBDX
L
R Overburden - mixture of clay and sand
R
R

P 15.00 17.67 4B4 X QZFDAM1PP FO87 D(D(D.
L A C/80
R
R Felsic Crystal Tuff
R
R -grayish white color, intermediate to (felsic) composition
R with 5% to 10% white feldspar xtls up to 1.0 cm in size,
R 10% to 15% scattered green chloritic amphiboles and amphi-
R boles in a v.f.g. feldspathic matrix
R
R -weakly foliated 80 to 90 dca, sub-porphyritic texture with

R fd xtls, occassional qs/qcs (< 1%)
R
R -occassional v.f.g.py-po (< 1%), weakly magnetic with < 1%
R magnetite
R
R contact - sharp contact 80 dca.
R
R

PCBI 17.67 31.02 4B1 96B 1CHFDBI2BNPB BN81C/95 D(D(D*
L 2NGCHJ2BIJ1GA FO84 J1 J2
R
R Chloritic Intermediate Tuff/Volcaniclastic
R
R -blackish-green color, intermediate composition being
R moderately to strongly chloritic with a decrease in chlor-
R ite with depth, associated 5% to 15% biotite with chloritic
R alteration, scattered garnets 1% to 3% with a significant
R increase in ga (25% to 35%) from 30.30 to 31.02 up to 0.60
R cm in size, possible kyanite as v.f.g xtls in the matrix
R in the upper part of this section.
R
R 25.41 to 26.67 - Intermediate Tuff - grayish-white color,
R intermediate composition with 5% to 10%
R bi > ch and 1% to 2% wispy bi-ch fragments
R up to 0.4 cm in size, sharp contacts 75
R dca.
R
R 30.30 to 31.02 - Pelitic Argillite/Biotitic Intermediate
R Volcaniclastic - strongly biotitic with
R 25% to 35% garnets, banded, porphyroblast-
R ic texture.
R
R -foliated and banded varying from 72 to 95 dca, occassional
R qs/qcs (< 1% to 3%) with 15% qv/qs/qcs from 30.00 to 31.02.
R
R -blocky/broken core (fault?) from 20.86 to 21.07 and from
R 22.00 to 20.23.
R
R -occassional to widely scattered py and po (< 1%), weakly
R magnetic with < 1% mg - gradational increase in mg from
R 30.30 to 31.02 with < 5% magnetite in banded/laminated-form
R
R contact - sharp contact 95 dca.
R
R

P 31.02 33.03 7 X CHFDGA)LM BN99 D(D* X1
L N C/95 F)
R
R Silicate-Oxide Facies Iron Formation
R
R -alternating dark greenish-black, green, and black color,
R alternating thinly banded/laminated magnetiferous chloritic
R bands and massive magnetite, upper and lower contacts
R have scattered garnets (1% to 2%).
R
R -well developed banding/laminations varying from 100 to 104
R dca, minor qs/qcs(< 1%).
R
R -occassional to widely scattered po > py (< 1%), strongly
R magnetic with magnetite occurring as strongly disseminated
R grains in the ch bands and as massive magnetite bands
R
R contact - sharp contact 95 dca.
R
R

P 33.03 44.35 6B X BIFDGA3PBBN BN87 D*D- D(
L NG CH
R
R Pelitic Argillite
R
R -greenish-black to black color, argillaceous being composed
R mainly of biotite > chlorite about f.g. to c.g. (< 0.3 cm)
R garnets (25% to 30%), gradual decrease in garnetifeous sec-
R tions from 39.30 to 44.35 with ga-rich bands up to 0.70
R meters wide.
R
R -well developed porphyroblastic, banded texture, occassion-
R al qs/qcs (< 1%), banding varies from 79 to 100 dca with a
R gradual decrease in core angles towards 44.35.
R
R -occassional to locally scattered v.f.g. py and po (< 1%),
R weakly magnetic with < 1% magnetite
R
R contact - gradational contact with significant decrease in
R garnet & biotite concentration.
R
R

P 44.35 141.76 6C 56A 5QZFDBI2FOBN FO90C/85 D-D. D. D-
L A CHGA) BN90
R

R Biotitic Arenite/Arkose
R
R -light to dark gray, greenish-gray, and gray color, com-
R position of matrix is v.f.g. granular qz-fd-bi-(ch)-(ga)-
R (ep), matrix is moderately to strongly biotitic as bi var-
R ies from 20% to 25% - biotite is a mixture of brown and
R black, scattered v.f.g. to f.g. (< 0.10 cm) garnets vary-
R ing from 1% to 5% proximal to the upper contact.
R
R -intermittent bands of a brown carbonate (i.e. dolomite)
R from 44.35 to 48.75 with the cb/do varying 5% to 10% in
R these bands, at 55.10, there is a 3.0 cm wide band of
R foliated sillimanite xtls (5%) with 2% to 3% brown cb/do.
R
R -green chloritic bands (i.e. shears??) from 109.90 to
R 123.65 up to 16.0 cm wide varying < 1% to 25% over 1.0
R meter sections - average of these ch bands is 8%
R
R -5% to 10% fd lithic xtls from 116.36 to 116.46 with the
R xtls varying in size from < 0.10 to 0.15 cm in size.
R
R -arkosic sections with fd >= qz (silicified and/or feldspar
R alteration) from 73.00 to 78.50, 82.30 to 83.00, 86.00 to
R 91.00, 127.18 to 129.00, and from 135.31 to 140.37 - these
R sections are accompanied by bleached hairline fractures &
R insipient and/or flooded silicified alteration in the ma-
R trix.
R
R -well developed foliation varying from 80 to 102 dca and
R banding varies from 80 to 112 dca, occassional to scattered
R qs/qcs (< 1% - 10%) with the stringer/veinlets up to 8.0 cm
R wide
R
R -intermiittent vuggy to vuggy sections from 125.60 to
R 141.76 with ep-ca-py along fracture planes, occassional
R bands and/or lenses ('clasts') up to 4.0 cm wide and com-
R posed of fd-am-ch-ca with 5% to 15% am and ch-altered am in
R a v.f.g. fd matrix - clasts are rounded.
R
R 121.38 to 121.46 - Feldspar Porphyry - gray color, felsic
R composition with 20% to 30% fd pheno-
R crysts in a v.f.g. qz-fd matrix, < 5% bi
R and 25% qs, 2% to 4% py-(aspy) in qs and
R feldspar porphyry, sharp contacts 95 dca
R

R 134.18 to 134.34 - Feldspar Porphyry - creamy grayish-white
R color, felsic composition with weak to
R moderate, bleached silicification, 20%
R to 30% fd in a v.f.g. qz-fd matrix,
R < 1% coarse py cubes, sharp 90 dca upper
R and 80 dca lower contacts.
R 134.94 to 135.05 - Feldspar Porphyry - similar to section
R from 134.18 to 134.34 with sharp 94 dca
R contacts.
R 135.14 to 135.21 - Feldspar Porphyry - similar to section
R from 134.18 to 134.34 with a 93 dca up-
R per and 95 dca lower contact.
R
R -occassional to locally scattered v.f.g. pyrite (< 1%), in-
R crease in pyrite (1% to 3%) from 125.60 to 141.76 as scat-
R tered cubes associated with the vuggy sections and the sil-
R icified and epidotitic alteration, weakly magnetic with <
R 1% magnetite.
R
R contact - sharp contact 85 dca.
R
R

PSI 141.76 142.86 14B X QZFDBI=PP C/80 D- D*
L PGQZJ2 J2
R
R Silicified Feldspar Porphyry
R
R -gray to reddish-gray color, strongly silicified felsic
R matrix of qz-fd with 10% to 15% fd (up to 0.10 cm in size),
R patchy insipient and fracture-filled hematitic stain.
R
R -porphyritic texture, occassional qs (< 1%)
R -occassional v.f.g. pyrite (< 1%), weakly magnetic with <
R 1% magnetite.
R
R contact - sharp contact 80 dca.
R
R

PKHE 142.86 145.21 6A 56C 5QZFDBI=BN BN86 D(D(
L PGQZJ2HET4EP J2
R
R Silicified-Hematitic Arenite/Arkose
R
R -dark gray to brick red color, moderate to strongly sili-
R cified with strong he stain from 144.47 to 145.21 - relict

R black biotite 5% to 10% as part of a v.f.g. qz-fd matrix,
R accompanied ep in the matrix and as fracture-filling.
R
R -weakly banded 85 to 90 dca, vuggy,occassional qs/qcs
R (< 1%)
R
R -occassional v.f.g. pyrite (< 1%), weakly magnetic with <
R 1% magnetite
R
R contact - gradational decrease in silicification and hema-
R titic stain
R
R

P 145.21 164.37 6C X FDQZBI2BN BN84FO82 D) D)
L 1A QZQ1HET)CHEP) C/60 X+ Q1
R
R Arkosic-wacke/Arkose
R
R -dark gray color, v.f.g. composition of qz-fd-bi-(ch)-(ep)-
R (he)-(ca) with intermittent & patchy ep-ca-he from 145.21
R to 152.00 varying < 1 to 3.0 cm wide up to 10% of this sec-
R tion, thin (< 3.0 cm wide) calc-silicate bands from 152.00
R to 160.20 varying 1% to 8% and averaging 5% of this sec-
R tion, gradual increase in scattered lithic fd xtls (up to
R 5% and 0.05 to 0.10 cm in size).
R
R -well developed banding/laminations varying from 75 to 95
R dca, occassional to locally scattered qs/qcs/qv (< 5%),
R vuggy from 160.40 to 164.37.
R
R 145.55 to 147.71 - Fault - broken core with fracture planes
R at 175 dca.
R
R 147.39 to 147.71 - Quartz Vein - milky white color, qz com-
R position with ch fractures, up to 5%
R coarse py-(cpy) along fracture planes,
R sharp 130 dca upper and 60 dca lower
R contact.
R
R -widely scattered v.f.g. pyrite up to 1% average, pyrite
R occurs as cubes and as foliated grains, weakly magnetic
R from 145.21 to 151.50 with < 1% mg with increased mg (2% to
R 5%) from 152.00 to 160.00 - thin oxide iron formtion bands
R from 152.00 to 155.00 comprising up to 10% of this 3.0
R meter section - bands are composed of strongly disseminated

R mg to massive mg and are up to 16.0 cm wide.
R
R contact - sharp contact 60 dca.
R
R
R ---
P 164.37 164.95 14B X FDQZBI1PP C/85 D- D)
L A
R
R Feldspar Porphyry
R
R -gray color, intermediate to (felsic) composition with
R a v.f.g. qz-fd-bi matrix - biotite varies from 10% to 12%,
R 20% to 25% v.f.g. to f.g. (up to 0.10 cm) fd phenocrysts.
R
R -porphyritic texture, occassional qs (1% to 2%)
R -occassonal v.f.g. pyrite (< 1%), moderately magnetic with
R up to 1% mg.
R
R contact - sharp contact 85 dca.
R
R ---
P 164.95 178.58 6C X FDQZBI2BNVG BN86C/90 D* D*
L A FO91
R
R Arkose
R
R -moderate to dark gray color, 'dirty' arenaceous composi
R tion with a composition of fd-qz-bi with 15% to 25% biotite
R -bands of scattered fd > qe rounded xtls varying < 1% to
R 10% in bands up to 0.30 meters wide from 167.90 to 178.58.
R
R -banding and foliation varies from 80 to 94 dca, occassion-
R al qs varying < 1% to 2%
R
R 167.90 to 169.70 - Feldspar Porphyry - gray color, inter-
R mediate to (felsic) compositinon, 15% to
R 25% fd phenocrysts in a v.f.g. qz-fd-bi
R matrix, < 1% qs, < 1% py and 1% mg.,
R sharp 90 dca upper contact and 50 dca
R lower contact - strongly bleached and
R silicified from 169.58 to 169.70.
R
R 170.06 to 170.26 - Feldspar Porphyry - similar to section
R from 167.90 to 169.70 with sharp 110 dca
R upper and 90 dca lower contacts.

R
R -vuggy throughout this section
R -occassional to widely scattered pyrite with local sections
R up to 1%, weakly magnetic with local sections up to 1% mg.
R
R contact - sharp 90 dca contact.
R
R

PSIF 178.58 185.88 6C 56D 5FDQZBI=BN BN88 D* D)
L PGQZL3 EPCH1 C/90 L3
R
R Silicified-Kspar Altered Arkosic-wacke
R
R -pinkish-gray to gray color, strongly silicified from
R 180.70 to 185.88 with pinkish qz with ep, relict mineralogy
R of fd-qz-bi-ch with spotty ch in strong sil and KF bands,
R scattered lt green grains of epidote (10% to 15%) through-
R out the section
R
R -well developed banding varying from 80 to 90 dca, occas-
R sional to widely scattered qs/qcs (up to 1%)
R
R 185.60 to 185.78 - Feldspar Porphyry - gray color, felsic
R composition being weakly sil, 10% to 15%
R fd in a v.f.g. qz-fd matrix, porphyritic
R texture, < 1% py-mg, sharp 76 dca upper
R & 84 dca lower contacts.
R
R -occassional to widely scattered pyrite cubes with local
R concentrations up to 1%, weakly to locally moderately
R magnetic with magnetite up to 1%.
R
R contact - sharp contact 90 dca
R
R

P 185.88 190.25 6D 56C 5FDQZBI2BN BN86 D* D*
L N CHEP1 C/95
R
R Greywacke/Arkose
R
R -dark gray, black, and very dark green color, composition
R of fd-qz-bi-ch-ep with scattered 10% to 20% black biotite
R and 10% scattered v.f.g. epidote and/or chlorite.
R
R -well developed banding varying from 80 to 93 dca, occas-

R sional qs/qcs/qfs varying 1% to 2%.
R
R -widely scattered v.f.g. pyrite varying < 1% to locally 1%,
R weakly magnetic with < 1% mg.
R
R contact - sharp contact 95 dca.
R
PSIF 190.25 193.42 6C 56D 5FDQZBI=BN BN D- D*
L PGQZJ3 CHEP= J3
R
R Silicified-Kspar Altered Arkosic-wacke
R
R similar to section from 178.58 to 185.88 with...
R
R 1) increase of green chlorite varying from 15% to 25%
R
R 2) banded 85 to 90 dca.
R
R 3) occassional v.f.g. pyrite (< 1%), weakly magnetic with
R < 1% magnetite
R
R contact - gradational contact with a decrease in si.
R
R
P 193.42 202.05 6C 96B 1FDQZBI2BNPB BN94 D) D)
L 1A SLU(QZ?1CHGA) C/96 F)U(?1
R
R Biotitic Arkose (minor Pelitic Argillite)
R
R -dark to blackish-gray color, unaltered composition is
R moderately to strongly biotitic with biotite between 10%
R and 30% in a fd-qz matrix, argillaceous from 198.00 to
R 199.00 with 5% to 10% garnets in a v.f.g. bi/ch matrix and
R with locally scattered brown cb/do (1% to 5%) and a thin
R 5.0 cm wide band of sillimanite varying 2% to 4%.
R
R -intermittent silicification and/or (Kspar??) alteration
R from 194.27 to 196.57 associated with the numerous hairline
R fractures and the feldspar porphyry swarm of dykes, chlori-
R tic from 200.00 to 200.40.
R
R 194.27 to 195.84 - Feldspar Porphyry Dyke/Sill Swarm - lt
R gray to dark gray color, 47% of this
R arkosic section is xcut by feldspar
R porphyry - 10% to 15% fd phenocrysts in

R a v.f.g. silicified matrix giving a sub-
R porphyritc texture, dykes/slls vary from
R 1.0 to 51.0 cm wide, < 1% qs, < 1% py-
R mg and sharp contacts 95 dca.
R
R -banded texture varying from 87 to 97 dca, occassional to
R scattered qs/qcs up to 5%
R
R -occassional to scattered pyrite varying < 1% to local sec-
R tion of 2%, overall, weakly magnetic with a slight gradual
R increase in mg to 202.05 with mg up to 1%
R
R contact - sharp contact 96 dca.
R
R
P 202.05 204.41 5B4 X FDQZBI=FRPP FO95 D(D(
L 8A CH
R
R Felsic to Intermediate Crystal Tuff
R
R -light greenish-gray color, felsic to (intermediate) in
R composition with a v.f.g. tuffaceous matrix of fd-qz with
R ch and bi varying 5% to 7%, scattered (5% to 10%) f.g.
R to m.g (< 0.30 cm in size) of fd xencrysts with the xeno-
R crysts being commonly fractured.
R
R -weakly foliated 95 to 97 dca, sub-porphyritic texture,
R scattered wallrock fragments and/or inclusions up to 8.0
R cm in size (5%), occassional qs/qcs (< 1%)
R
R -occassional v.f.g. py (< 1%), weakly magnetic with < 1%
R magnetite (< 1%)
R
R contact - sharp contact 100 dca
R
R
P 204.41 219.37 6C X FDQZBI2BN BN93 D* D(
L 2A SED) GACH+ C/92 D)
R
R Arkose
R
R -dark gray to grayish-black color, v.f.g. composition of
R fd-qz-bi with biotite varying from 20% to 25%, scattered
R v.f.g. sericite varying < 1% to 2%, scattered v.f.g.
R rounded qz and fd xtls (< 0.05 cm in size) in banded-form,

R 1% to 3% garnets from 218.60 to 218.85
R
R -well developed banding varying from 90 to 97 dca, occas-
R sional qs/qcs up to 5%.
R
R 206.72 to 206.87 - Feldspar Porphyry - gray color, felsic
R to intermediate in composition, 20% to
R 25% fd in a v.f.g. qz-fd matrix,
R porphyritic texture, < 1% py, sharp
R 93 dca contacts.
R 213.48 to 213.66 - Feldspar Porphyry - similar to section
R from 206.72 to 206.87 with sharp 92 dca
R upper and 93 dca lower contacts.
R
R -occassional to widely scattered v.f.g. pyrite (< 1%),
R weakly magnetic with < 1% mg.
R
R contact - sharp contact 92 dca.
R
P 219.37 220.80 13D X FDQZBI1PP FO90 D(D(
L A C/85
R
R 'Popcorn' Feldspar Porphyry
R
R -gray color, felsic to intermediate composition with a
R v.f.g. matrix of qz-fd-bi about weakly foliated 15% to 20%
R white fd (i.e. albitic) phenocrysts (< 0.20 to 0.30 cm in
R size), scattered biotite 5% to 10% in the matrix.
R
R -porphyritic texture with a weak foliation 90 dca., occas-
R sional qs (< 1%)
R
R -occassional v.f.g. pyrite (< 1%), weakly magnetic with <
R 1% magnetite.
R
R contact - sharp contact 85 dca.
R
R
PAS 220.80 262.48 6C X FDQZBI2BNFO BN88C/73 D(D- D(
L 6A GAU)SLU)SLKY+ FO88 U)U+
R
R Aluminum-Silicate Altered Arkose
R
R -moderate to dark gray color, v.f.g. moderately to strongly
R biotitic fd-qz-rich matrix, variable sections (0.10 to 5.70

R meters wide) of aluminum-silicate alteration which repre-
R sents 55% of this section...
R
R 224.70 to 226.10 - scattered < 1% to 5% ga, 5% to 10% ad-sl
R & 2% to 4% brown do/cb (up to 0.20 cm)
R 233.10 to 233.20 - 5% to 10% white foliated sl-ad xtls
R 233.75 to 236.40 - < 1% to 5% ga and sl-ad
R 238.20 to 239.70 - 1% to 4% ky and ga
R 239.70 to 245.30 - 5% ky and sl-ad, < 1% to local 5% ga, &
R < 1% to 3% cb/do
R
R 245.80 to 246.50 - 5% sl-ad-ky and < 1% to 2% brown do/cb
R 246.50 to 247.16 - 2% to 3% ga
R 247.16 to 250.00 - 5% to 10% ky-ad-sl
R 252.30 to 258.00 - 5% to 10% ky-sl-ad & < 1% to 5% ga
R 260.40 to 262.48 - 20% to 30% ga
R
R -ky-sl-ad xtls vary < 1% to 10% and are v.f.g. to m.g. (<
R 0.20 to 0.30 cm in size), significant increase in ga from
R 260.40 to 262.48 with an argillaceous matrix - 20% to 30%
R ga-rich beds intercalated with bi-rich arkosic beds
R
R -scattered sericite flakes (i.e. altered fd??) < 1% to 5%
R
R -well developed banding from 220.80 to about 232.00 vary-
R ing 80 to 90 dca, foliated aluminum-silicate alteration
R varying from 82 to 100 dca., occassional qs/qcs (< 1%) with
R fd fracture-filling from 238.00 to 241.00
R
R 226.16 to 226.24 - Feldspar Porphyry - gray color, felsic
R to intermediate composition, 10% fd
R phenocrysts, porphyritic texture, < 1%
R py, sharp contacts 90 dca.
R
R -occassional v.f.g. py > po (< 1%) with up to 1% py from
R 240.20 to 240.50, weakly magnetic with < 1% magnetite
R
R contact - sharp contact with qs 73 dca.
R
R
PASS 262.48 289.03 6A 66F 4QZFDBI=LMBN BN89 D* D(
L 8A QZX3SED=SLDO)FO FO90 X) D= X+X3
R
R Silicified-Aluminum-Silicate Altered Arenite/Chert
R

R -variable light to dark gray with white bands, variable
R silicified and aluminum-silicate alteration accompanied by
R sericitic & Kspar alteration, intercalated, thinly banded/
R laminated silicified and/or quartzose-arenite and chert
R with sericitic sections from 274.57 to 275.50 and from
R 286.00 to 289.03 - sericite commonly occurs in the bedding
R planes and as interstitial in the matrix
R
R -aluminum-silicate alteration from 267.32 to 273.41 and
R from 275.50 to 279.71 with < 1% to 10% sillimanite-(kyanite
R)-(andalusite) and 1% to 2% brown cb/do (ga??) - vary from
R f.g. to c.g. with white, rectangular to bladed foliated
R sillimanite xtls up to 0.60 cm in size
R
R -v.f.g. matrix is mainly composed of qz-fd-bi-(se) with
R 2% to 7% black to brownish-black biotite in a v.f.g. qz-
R rich matrix.
R
R 279.71 to 280.25 - Silicified Calc-Silicate - strongly si
R matrix about foliated am and ch-altered
R am giving a mottled appearance, inter-
R banded with silicified arenite.
R
R -very well developed thin banding/laminations varying from
R 80 to 100 dca, occassional to scattered qs/qv/qcs/qcv with
R light green ep-(se) varying < 1% to 15%, increase in frac-
R turing from 264.96 to 266.02 with 30% qcv with accompanied
R 10% to 15% epidote and sericite.
R
R -occassional to locally scattered v.f.g. pyrite (< 1%) with
R 1% to 2% pyrite from 264.96 to 267.32, weakly magnetic
R with < 1% mg.
R
R contact - gradational contact with a decrease in silici-
R fication and aluminum-silicate alteration from
R 286.00 to 289.03.
R
R

P 289.03 295.20 6C 56D 5FDQZBI2BNPB BN D(D(D-
L 6A GACH+ D*J+F1
R
R Arkosic-wacke/Pelitic Arkosic-wacke-Argillite
R
R -moderate gray color, v.f.g. biotitic composition of fd-qz-
R bi-(ch)-(se) with biotite varying from 15% to 20%, upper

R part of this section is weakly sericitic (< 1% to 5%)
R
R -scattered garnets with significant increase in garnets
R from 291.10 to 294.20 with 25% to 40% v.f.g. to m.g. ga
R (< 0.30 cm in size) giving this section a porphyroblastic
R texture, banding/bedding varies from 99 to 110 dca, occas-
R sional to scattered qs/qcs (< 1% to 7% - 1.0 to 2.0 cm in
R size.
R
R -occassional to widely scattered v.f.g. pyrite-pyrrhotite
R (< 1%), weakly magnetic (< 1%)
R
R contact - sharp contact 120 dca.
R
R
P 295.20 296.47 5B1 95B4 1FDQZBI=FO FO98 D(D(
L A
R
R Felsic to Intermediate Tuff/Crystal Tuff
R
R -light gray color, felsic to (intermediate) composition
R with 1% to 3% medium to coarse biotite, 15% to 25% tightly
R compacted qz and fd xtls in felsic matrix from 295.47 to
R 295.61 with gradational contacts with the aphanitic and
R v.f.g. felsic wallrock.
R
R -weakly foliated 90 to 105 dca, minor qs/qcs (< 1%)
R -occassional to widely scattered pyrite cubes (< 1%), weak-
R ly magnetic with < 1% magnetite.
R
R contact - sharp contact 100 dca.
R
R
P 296.47 296.94 2A X CHTA MX FO85 D.D. D(
L G
R
R Mafic to Ultramafic Flow
R
R -green to dark geen color, mafic to ultamafic in composi-
R tion with strong chlorite content in the interstitial ma-
R trix with weak talc
R
R -weakly foliated 85 dca, no qs/qcs
R -barren to occassional py (< 1%), weakly magnetic with < 1%
R magnetite

R
R contact - sharp contact 109 dca.
R
R
P 296.94 298.21 14B X FDQZBI+PP C/87 D(D(D-
L AW
R
R Feldspar Porphyry
R
R -light grayish-white color, felsic to (intermediate) com-
R position with a composition of fd-qz-bi with up to 5% dis-
R seminated brownish-black biotite.
R
R -20% to 30% v.f.g. to m.g. feldspar phenocrysts (up to 0.20
R to 0.30 cm) in a v.f.g. feldspathic matrix, porphyritic
R texture.
R
R -minor qs/qcs (< 0.5%)
R -occassional to widely scattered pyrite-pyrrhotite (< 1%),
R weakly magnetic with < 1% magnetite.
R
R contact - sharp, bleached silicified contact 87 dca
R
R
P 298.21 308.05 2A X CHTA MX FO93 D*D(D*
L G C/80
R
R Fe and Mg-Rich Komatiitic Mafic to Ultramafic Flows
R
R -dark green, green, to greenish-black color, mafic to ul-
R tramafic composition with moderate to strong chloritic ma-
R trix with weak to locally moderate talc-serpentine.
R
R -flow contacts with a Mg-rich komatiitic mafic to ultra-
R mafic flow from 304.40 to 307.00 with sharp flow contacts,
R
R -weakly foliated 70 to 75 dca, minor qcs/qs (< 0.5%), fel-
R sic to intermediate raft between 303.52 and 303.07.
R
R 298.84 to 298.96 - Feldspar Porphyry - grayish-white color,
R felsic composition with 15% to 20% fd
R phenocrysts in a v.f.g. felsic matrix,
R 5% ch and bi, < 1% py-po, sharp 125 dca
R upper and 120 dca lower contacts
R 300.55 to 300.61 - Feldspar Porphyry - similar to section

R from 298.84 to 298.96 with sharp con-
R tacts 65 dca.
R 301.22 to 301.35 - Feldspar Porphyry - similar to section
R from 298.84 to 298.96 with a sharp 120
R dca upper and 135 dca lower contact
R 302.13 to 302.18 - Feldspar Porphyry - similar to section
R from 298.84 to 298.96 with sharp upper
R and lower contacts 90 dca.
R
R -occassional to widely scattered cubes of v.f.g. pyrite (<
R 1%), weakly magnetic with < 1% magnetite
R
R contact - sharp contact 80 dca.
R
R

P 308.05 339.88 3B5 X CHFDBI=BN BN97FO77 D*D) D*
L G AMGA* C/83
R
R Mafic Volcaniclastic
R
R -green, dark green, to greenish-black color, mafic composi-
R tion being moderately chloritic with weak biotite (< 5% to
R 7%), local ga in more ch bands (< 1%) as scattered sub-
R hedral xtls.
R
R -intra-volcanic variations with an intermediate volcani-
R clastic (15% to 20% ch - with feldspar > ferromagnesians)
R from 322.46 to 322.65
R
R -felsic to intermediate xtl tuff (10% fd xtls in a v.f.g.
R felsic matrix with <= 5% foliated biotite) from 331.98 to
R 332.16 - sharp contacts 85 dca.
R
R -well developed banding/bedding varying from 70 to 115 dca
R especially from 329.20 to 331.50 with the presence of weak-
R ly carbonaceous or graphitic mafic volcaniclastic, scatter-
R ed to frequent qcs/qcv/qs/qv up to 20%
R
R -occassional to scattered v.f.g. po > py > cpy varying < 1%
R to locally in banded-form to 10%, overall average of 1% po,
R po commonly occurs as disseminated grains in local bands
R and cpy is associated with po, weakly magnetic with mag-
R netite < 1%
R
R contact - sharp contact 83 dca.

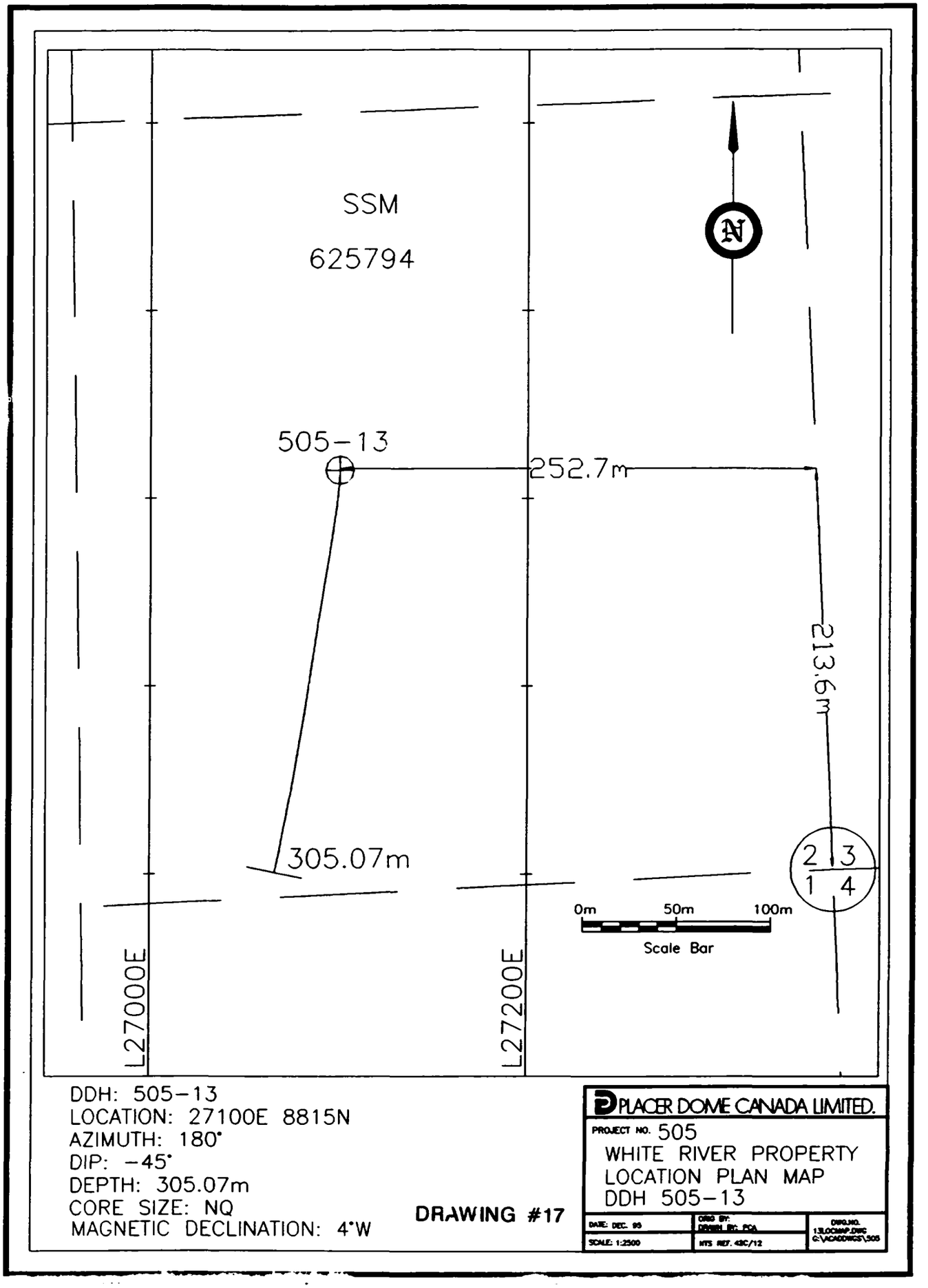
R
R
P 339.88 340.65 14B X FDQZBI=PP C/85 D-D- D-
L A
R
R Feldspar Porphyry
R
R -gray color, felsic to intermediate composition with a ma-
R trix of v.f.g. qz and fd about 15% to 20% white fd pheno-
R cysts (<= 0.10 cm in size), up to 4% to 6% biotite.
R
R -< 1% mafic volcaniclastic (chloritic) inclusions up to
R 1.50 cm in size, porphyritic texture, < 1% qcs/qs
R
R -occassional v.f.g. py-po grains (< 1%), weakly magnetic
R with < 1% mg
R
R contact - sharp contact 85 dca.
R
R
P 340.65 347.00 3B5 X CHFDBI=BN BN92 D*D* D*
L G MU
R
R Mafic Volcaniclastic
R
R -green to dark green color, mafic composition being moder-
R ately chloritic with < 4% to 6% bi-mu.
R
R -weakly banded varying 73 to 108 dca, frequent to numerous
R qcs/qs varying 5% to 15% with an average close to 10% - up
R to 3.0 cm wide and are composed of qz-ca-(do)-(se)
R
R 341.70 to 341.85 - Feldspar Porphyry - gray color, felsic
R to intermediate composition with 10% to
R 15% fd in a v.f.g. qz-fd matrix, por-
R phyritic texture, < 1% py-po, sharp
R contacts 88 dca.
R
R -occassional to locally scattered po and py (< 1%), weakly
R magnetic with < 1% magnetite
R
R contact - sharp contact 100 dca
R
R
P 347.00 350.50 14B 73B5 3FDCHBI=PPMX D*D(D*

L A AM C/88
R
R Feldspar Porphyry Dykes/Sills xcutting Mafic Volcaniclastic
R
R -alternating gray and green color, this section is composed
R of 67% feldspar porphyry and 33% mafic volcaniclastic.
R
R -feldspar porphyry is felsic to intermediate in composition
R with a v.f.g. qz-fd matrix about 10% to 20% fd phenocrysts
R (< 0.10 to 0.15 cm in size), porphyritic texture, < 1% qs,
R occassional v.f.g. pyrite (< 1%) and weakly magnetic with
R < 1% magnetite, sharp contacts varying from 70 to 100 dca
R with the feldspar porphyry varying from 2.0 to 69.0 cm wide
R
R -mafic volcaniclastics are mafic in composition being
R moderately ch with 5% qs/qcs fracture-filling, weakly
R banded/foliated, occassional po and py (< 1%) and weakly
R magnetic (< 1%), sharp contacts and vary in thickness from
R 1.5 to 28.0 cm and may represent rafts or inclusions in the
R feldspar porphyry.
R
R contact - sharp contact 88 dca.
R
R

P 350.50 356.97 3A X CHFDBI)MX FO92C/99 D*D* D*
L G AM BN
R
R Mafic Flow
R
R -green color, mafic composition with moderate chlorite and
R < 5% biotite, occassional < 0.20 meters wide intra-flow
R clastic metasediment of arenaceous composition
R
R -massive texture with the occassional band and foliation,
R scattered to frequent qcs/qs varying 3% to 10% and avera-
R ging 5% - up to 5.0 cm wide, weak banding and foliation
R 90 to 105 dca.
R
R -occassional v.f.g. py-po (< 1%) with increased pyrrhotite
R from 356.77 to 356.97 (5% to 10% disseminated grains),
R weakly magnetic with < 1% magnetite.
R
R contact - sharp contact 99 dca.
R
R

P 356.97 358.59 3B5 86B 2CHFDBI=LMBN FO90 D*X= D(
L NGGFJ1 MU
R
R Mafic Volcaniclastic/Graphitic Argillite
R
R -dark green and grayish-black color, overall, a reworked
R mafic composition with a strong graphitic zone between
R 356.97 and 357.27, overall, moderately chloritic with 5%
R to 7% bi and mu with a thin 5.0 cm laminated chert at
R 357.80.
R
R -banded/bedded 90 to 111 dca with laminated massive pyrrho-
R tite (< 0.5 cm wide) in the gf and cherty section, 2% to
R 4% scattered qs/qcs
R
R -weakly disseminated v.f.g. and foliated po-(py)-(cpy)
R varying < 2% to 25%, increased po in gf and cherty sections
R that occur as thin (< 0.5 cm wide) massive laminations,
R 20% to 25% po from 356.97 to 357.27 associated with gf arg-
R illite, weakly to moderately magnetic associated with the
R po content.
R
R contact - sharp contact 102 dca.
R
R
P 358.59 369.00 2A X CHTABI=MX FO96 D(D* D*
L G TAJ= FD C/95
R
R Mafic to Ultramafic Flow
R
R -green to dark green color, mafic to ultramafic composition
R with moderate to strong chlorite - intermittent talc-(ser-
R pentine) from 359.60 to 360.30.
R
R -massive texture with a weak foliation varying from 80 to
R 105 dca, occassional qcs/qs varying < 1% to 5%
R
R -occassional v.f.g. po and py (< 1%) with a slight increase
R in po (2% to 4% disseminated grains from 361.70 to 362.10),
R weakly magnetic with < 1% mg.
R
R contact - sharp, broken contact 95 dca.
R
R
P 369.00 373.62 12A3514 5FDQZBI1EQPP FO90 D(D*

L AW SASE) D)
R
R Granodiorite
R
R -grayish-white with occassional pinkish-hue, felsic to
R intermediate in composition with 30% to 35% white to pink-
R ish-white feldspars (< 0.20 cm in size), 5% to 10% v.f.g.
R biotite and weakly sericitized/saussuritized feldspars (<1%
R to 5%)
R
R -equigranular texture (sub-porphyritic), only one vein of
R that is 13.0 cm wide (apparent width) making up 2.5% of
R this section.
R
R -occassional v.f.g. pyrite grain(< 1%), weakly magnetic
R with < 1% magnetite
R
R contact - sharp contact 100 dca
R
R
P 373.62 380.03 3B5 X CHFDMU1BN BN91 D*D) D*
L G BICA+ FO94 X*
R
R Intermediate to Mafic Volcaniclastic
R
R -green, gray, and creamy-apple green, and buff-gray colors,
R variable compositions with the main composition being
R mafic (moderately chloritic), other bands are in the inter-
R mediate and calcareous (i.e. carbonate-sericite), general-
R ly a micaceous composition with 10% to 15% mu > bi
R
R -well developed banding varying 85 to 95 dca, foliated
R 92 to 96 dca (i.e. pyrite), scattered qs/qcs varying 5% to
R 10%.
R
R -occassional to widely scattered v.f.g. py = po varying
R < 1% to 2% - overall average is up to 1%, sulphides are
R generally foliated, weakly magnetic with < 1% magnetite.
R
/END



DDH: 505-13
LOCATION: 27100E 8815N
AZIMUTH: 180°
DIP: -45°
DEPTH: 305.07m
CORE SIZE: NQ
MAGNETIC DECLINATION: 4°W

DRAWING #17

PLACER DOME CANADA LIMITED.

PROJECT NO. 505
WHITE RIVER PROPERTY
LOCATION PLAN MAP
DDH 505-13

DATE: DEC. 95	DRG BY: DRAWN BY: PCA	DRG.NO. 13LOCMAP.DRG G:\ACADDWGS\505
SCALE: 1:2500	NTS REF. 43C/12	

*** WHITE RIVER ***
PLACER DOME CANADA INC.

Drill Hole: 0505-013

Date: 21st Dec, 1995
Northing : 8815.00
Easting : 27100.00
Elevation : 0.00
Hole Depth : 305.07mt

Grid Azimuth: 0.00
Coord System:

Project ID : 505
Core Size : NQ
Date Logged : 24SEP95
Logged By : SNR
Assisted by :
Drillers : BRAD
Drill date :
Rig Type :
Drill Time :
Print Template : GTRAN001.FMT

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	180.00	-45.00
11.00mt	186.00	-46.00
77.00mt	190.00	-45.00
122.00mt	188.00	-45.00
170.00mt	189.00	-44.50
240.00mt	190.00	-44.00
305.00mt	192.00	-43.00

From	To	Geology
0.00	1.00	Overburden
1.00	3.74	Arkose, Greywacke, Brownish-gray, Feldspars (general), Quartz (general), Muscovite, Biotite, Garnet, Foliated
3.74	4.75	Mafic Dyke (incl Diabase), Black, Pyroxenes (general), Amphiboles (general), Feldspars (general), Biotite, Massive
4.75	23.40	Arkose, Greywacke, Brownish-gray, Feldspars (general), Quartz (general), Muscovite, Biotite, Garnet, Foliated, Interbedded
23.40	26.76	Gabbro, Green, Chlorite, Feldspars (general), Amphiboles (general), Biotite, Equigranular
26.76	55.23	Arkose, Greywacke, Brownish-gray, Feldspars (general), Quartz (general), Biotite, Foliated, Banded
55.23	59.90	Arkose, Greywacke, Brownish-gray, Feldspars (general), Quartz (general), Garnet, Biotite, Banded
59.90	60.69	Quartz Vein, White, Quartz (general), Sericite, K-feldspar, Brecciated
60.69	86.94	Arkose, Greywacke, Brownish-gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Garnet, Banded, Foliated
86.94	88.53	Quartz-Feldspar Vein, White, Quartz (general), K-feldspar, Sericite, Brecciated
88.53	89.50	Arkose, Greywacke, Brownish-gray, Feldspars (general), Quartz (general), Biotite, Foliated
89.50	90.47	Quartz Vein, Grayish-white, Quartz (general), K-feldspar, Sericite, Brecciated
90.47	112.13	Arkose, Greywacke, Brownish-gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Garnet, Banded
112.13	114.53	Quartz-Feldspar Vein, Grayish-white, Quartz (general), Feldspars (general), Sericite, Brecciated
114.53	174.20	Arkose, Greywacke, Brownish-gray, Feldspars (general), Quartz (general), Chlorite, Biotite, Garnet, Banded, Foliated
174.20	176.79	Quartz Vein, Grayish-white, Quartz (general), Sericite, Brecciated
176.79	283.00	Arkose, Greywacke, Gray, Feldspars (general), Quartz (general), Garnet, Biotite, Banded, Foliated
283.00	289.00	Arkose, Gray, Feldspars (general), Biotite, Garnet, Quartz (general), Foliated
289.00	305.07	Arkose, Gray, Feldspars (general), Quartz (general), Biotite, Garnet, Foliated, Banded
305.07		** END OF HOLE **

White River DDH 0505-013 Detailed Remarks

R Starting Date: September 22, 1995
R Completion Date: September 25, 1995
R Drill Contractor: Bradley Bros. Limited
R
R Logged By: Stephen Roach
R Log Completed: September 28, 1995
R
R Casing: 4.0 meters (left in hole)
R
R Coordinates (Lac Grid) Line 8500 E
R Station 185 S
R
R Coordinates (Placer Dome Grid) Line 27100 E
R Station 8815 N
R
R Survey Coordinates UTME: 594348.11
R UTMN: 5391180.57
R Elev: 368.09 metres (asl)
R
R Claims Drilled: SSM 625794
R
R Core Storage: Cedar Lake Camp
R

P 0.00 1.00 OVBDX
L
R Overburden - mainly sand
R
P 1.00 3.74 6C 56D 5FDQZBI2FO FO67 D.D. D(
L BASLD) MUGA= C/82 D)
R
R Arkosic-wacke
R
R -brownish-gray color, 'dirty'arenaceous composition of fd-
R qz-bi-(mu) as a v.f.g. matrix, moderately to strongly
R micaceous with a mixture of muscovite and biotite varying
R 20% to 25%, scattered garnets (5%) and scattered brown cb/
R do (ga??) varying from < 1% to 3% (< 0.20 cm in size), oc-
R cassional to widely scattered sillimanite (< 1% to 2%).
R
R -weakly foliated 60 to 74 dca, scattered, thin qs varying

R 25 to 3% qs
R
R -barren to occassional v.f.g. pyrite (< 1%), weakly mag-
R neticwith < 1% mg.
R
R contact - sharp contact 82 dca.
R

P 3.74 4.75 16A4X PXAMBI=MX C/73 D.D. D+
L N FD
R
R Diabase
R
R -black color, mafic composition with a v.f.g. and aphanitic
R matrix of px-am-fd-bi.
R
R -massive, chilled texture, no qcs/qs
R -barren, strongly magnetic with 2% to 3% disseminated mg.
R
R contact - sharp contact 73 dca.
R

P 4.75 23.40 6C 56D 5FDQZBI2FOIB FO62C/48 D.D. D(
L BASLU*SED(MUGA= BN64 E+ D(U=
R
R Arkosic-wacke/Pelitic Argillite
R
R -dark brownish-gray color, v.f.g. composition of fd-qz-bi-
R ga-(sl) with a gradational more argillaceous composition
R between 18.40 and 21.50 with 25% to 35% foliated biotite &
R 10% to 20% garnets, overall, ga content varies from 5% to
R 7%
R
R -intermittent sections of < 1% to 2% white, rectangular,
R sillimanite and brown cb/do (ga??) varying < 1% to 5% from
R 4.75 to about 14.00, weak sericitic arenaceous band/bed be-
R tween 15.30 and 15.80 with up to 5% disseminated sericitic
R flakes.
R
R -weakly foliated varying 50 to 74 dca with an inflection
R in the dip at the lower contact due to gabbroic intrusive,
R occassional band 55 to 70 dca, occassional qs/qcs up to 5%
R and up to 5.0 cm wide.
R
R -rare to occassional spec of po and py (< 1%), weakly mag-
R netic with < 1% magnetite.
R

R contact - sharp, sheared contact 48 dca.
R
R
P 23.40 26.76 11A3X CHFDBI=EQ C/70 D.D. D*
L G AM
R
R Gabbro
R
R -green color, mafic composition with moderate chlorite
R content in the matrix with 5% to 10% brown biotite, matrix
R composition of ch-am-fd-bi with moderate ch alteration of
R amphiboles.
R
R -sub-equigranular texture, minor qs/qcs (< 1%),
R
R 23.40 to 23.58 - Fault, broken core and sheared gouge
R
R -rare to occassional spec of py-po (< 1%)
R
R contact - sharp, sheared contact 70 dca.
R
R
PABI 26.76 55.23 6C 56D 5FDQZBI3FOBN FO62C/60 D.D. D(
L BASLF+GAU= BN71 D(U=F+
R
R Weak to Moderate Aluminum-Silicate Altered Arkosic-wacke/
R Argillite
R
R -dark brownish-gray color, moderately to (strongly) bioti-
R ferous with biotite varying 20% to 30% as foliated grains
R in a feldspathic matrix, scattered v.f.g. to f.g. (up to
R 0.10 cm in size) garnets (5%) with intermittent, foliated
R clusters of sillimanite varying < 1% to 5% with kyanite,
R and possibly andalusite - sillimanite is commonly foliated
R and occurs as medium to coarse, rectangular white xtls,
R also scattered < 1% to 2% brown, rounded cb/do (ga??).
R
R -foliation varies from 50 to 70 dca, weakly banded at the
R lower contact 60 to 80 dca, occassional qcs/qs (< 1% to
R local 2%.
R
R -rare to occassional spec of po and py (< 1%), weakly mag-
R netic with < 1% mg
R
R contact - gradational decrease in aluminum-silicate altera-

R tion - sharp 60 dca contact.
R
R

P 55.23 59.90 6C 56D 5FDQZBI2BN BN72C/05 D.D. D*
L BA GA FO75
R
R Arkosic-wacke
R
R -gray and brownish-gray color, v.f.g. matrix of fd-qz-bi
R with 10% to 20% biotite as foliated grains, scattered < 1%
R to 3% v.f.g. to f.g garnets
R
R -scattered banding 65 to 80 dca, occassional to locally
R concentrated qcs/qs as hairline fracture-filling (up to 1%)
R
R -rare to occassional spec of py-po (< 1%), weakly magnetic
R with < 1% magnetite.
R
R contact - sharp contact 0 to 5 dca
R
R

PQSX 59.90 60.69 17A1X QZSEKF)BX C/15 D.D. D.
L W SEF1 F1
R
R Quartz-Sericite Vein Breccia
R
R -milky to grayish-white color, composition is mainly com-
R posed of quartz and coarse sericite with < 1% Kspar grains,
R apple-green sericite flakes are coarse (up to 1.0 cm) and
R vary from 7% to 10%.
R
R -breccia texture with pre-existing qz 'fragments' (up to
R 0.20 to 0.40 cm in size) set in a qz-rich matrix - vary
R from 5% to 10%.
R
R -barren to occassional py (< 1%), weakly magnetic with < 1%
R magnetite.
R
R contact - sharp contact 15 dca.
R
R

P 60.69 86.94 6C 56D 5FDQZBI2BNFO BN73C/45 D.D(D*
L BA CHGA(FO79
R
R Arkosic-wacke

R
R -brownish-gray color, moderately biotiferous with 10% to
R 20% brown to blackish-brown biotite - grading into more ch
R bands throughout this section, v.f.g. granoblastic matrix
R is composed of fd-qz-bi-ch with the biotite being foliated,
R overall, weakly chloritic, scattered 1% garnet in the upper
R part of the section.
R
R -both foliated and banded 52 to 92 dca, occassional qs/qcs
R up to 1% to local 2%
R
R -occassional to widely scattered po > py with the overall
R average of < 1%, slight increase in po (up to 1%) from
R 60.59 to 63.00, weakly magnetic with < 1% mg with up to 1%
R mg from 81.00 to 82.00.
R
R contact - sharp contact 45 dca
R
R
PQFX 86.94 88.53 17A3X QZKFSE1BX C/65 D.D. D.
L W KFD2SEF1 D2 F1
R
R Quartz-Feldspar-Sericite Vein Breccia
R
R -colorful pinkish-white color, composition is qz-fd-se
R with 20% to 25% Kspar in a v.f.g. quartz matrix, 10% to 15%
R coarse apple-green sericite up to 1.50 cm in size.
R
R -brecciated texture with pre-existing qz 'fragments' (up to
R 1.50 cm in size) in qz-fd matrix - varies 10% to 25% and
R are angular to subangular in shape.
R
R -barren to occassional spec of py (< 1%), weakly magnetic
R with < 1% magnetite
R
R contact - sharp contact 65 dca.
R
R
P 88.53 89.50 6C 56D 5FDQZBI2FO FO98 D.D* D(
L 2BA C/75
R
R Arkosic-wacke
R
R similar to section from 60.69 to 86.94
R

R 1) scattered and foliated qz-fd lithic clasts varying from
R 2% to 4% - up to 0.60 cm in size and are elliptical in
R shape.
R 2) weakly to moderately foliated 95 to 100 dca.
R
R 3) occassional to widely scattered v.f.g. po-py (< 1%),
R weakly magnetic with < 1% mg.
R
R contact - sharp contact 75 dca.
R
R

PQSX 89.50 90.47 17A1X QZKFSE2BX C/50 D.D. D.
L AWKFD)SEF2 D) F2
R
R Quartz-Sericite-(Feldspar) Vein Breccia
R
R similar to section from 86.94 to 88.53 with...
R
R 1) decrease in Kspar to < 1% to 2% as widely scattered
R grains in the matrix and as fracture-filling
R
R 2) 15% to 20% coarse sericite flakes up to 1.0 cm in size
R 3) brecciated texture with 5% to 10% pre-existing qz 'frag-
R ments' in a qz-(fd) matrix
R
R contact - sharp, irregular contact 50 dca.
R
R

P 90.47 112.13 6C 56D 5FDQZBI3BN BN94C/75 D(D(D(
L 2BA CHGA) FO91
R
R Arkosic-wacke
R
R -dark brownish gray color, moderately to (strongly) bioti-
R ferous with 20% to 30% v.f.g. and foliated biotite in a
R fd-qz matrix, gradational increase in garnets from 96.00
R to 100.30 (5% to 8%) and from 103.00 to 106.50 (3% to 5%) -
R occur as v.f.g. to f.g. (up 0.10 cm in size) euhedral xtls,
R
R -intermittent sections of 5% qz-fd lithic clasts that are
R elliptical-shaped throughout the section - up to 2.0 cm in
R size but are commonly 0.5 to 1.0 cm in size.
R
R -foliated and banding varies from 87 to 96 dca, occassional
R qcs/qs varying < 1% to 5%

R
R -occassional to very widely scattered po and py (< 1%),
R weakly magnetic with < 1% magnetite.
R
R contact - sharp contact 165 dca.
R
R

PQFX 112.13 114.53 17A3X QZFDSE1BX D.D. D. D.
L AWKF*1SEF1 *1 F1
R
R Quartz-Feldspar-Sericite Vein Breccia
R
R -milky-white to grayish-white color, composition of qz-fd-
R se with 10% to 15% Kspar 'fragments' with 10% to 20% coarse
R apple-green sericite flakes (up to 0.50 to 1.0 cm in size),
R
R -well developed brecciated texture with 10% to 15% pre-ex-
R isting qz 'fragments' in a qz-(fd) matrix - fragments are
R mainly angular up to 0.50 to 1.0 cm in size.
R
R -barren to occassional py (< 1%) with a grain of molybden-
R ite at 112.30, weakly magnetic with < 1% magnetite
R
R contact - sharp contact 170 dca.
R
R

P 114.53 174.20 6C 56D 5FDQZBI2BNFO BN90C/90 D(D* D(
L BA CHGA+ FO84
R
R Arkosic-wacke (minor Argillite)
R
R -dark brownish-gray to dark gray colors, v.f.g. composition
R of fd-qz-bi-(ga)-(ch) with 20% to 25% foliated brown to
R brownish-black biotite - < 1% Kspar, intermittent sections
R and bands of increased garnets concentration from 114.53 to
R 127.00 and 133.27 to 140.50 (3% to 8%) and from 140.50 to
R 143.42, 150.80 to 153.50, and from 158.00 to 163.00 mainly
R as intermittent bands of 5% to 10% garnets, gradationally
R more argillaceous in those garnetiferous sections.
R
R -localized, elliptical-shaped quartz clast (< 0.50 to 1.00
R cm in size), varying from 1% to 2% 128.50 to 130.50
R
R -circular-shaped forms of calc-silicate from 123.50 to
R 125.50 up to 10 cm in width - well zoned and is composed

R of fd-ca-ch-ep-(am) - may represent folded calc-silicate
R
R -banding varies from 77 to 101 dca, occassional foliation
R between 64 and 92 dca, occassional to locally scattered qs/
R qcs (< 1% to locally 25%) - increase in qcv/qcs from 120.40
R to 121.50, overall average < 1% to 2%.
R
R -occassional to widely scattered, v.f.g., and foliated po >
R py varying from < 1% to locally 1%, weakly magnetic with <
R 1% magnetite.
R
R contact - sharp, irregular contact 90 and 138 dca
R
R ---
PQSX 174.20 176.79 17A1X QZSE BX D.D. D.
L AWSEF2 F2
R
R Quartz-Sericite Vein Breccia
R
R -milky white to grayish white color, composition of quartz
R and sericite with sericite occurring as coarse apple-green
R flakes varying 15% to 25% throughout the section, occas-
R sional v.f.g. seam of black tourmaline (< 1%)
R
R -brecciated texture with 10% pre-existing qz 'fragments'
R in a v.f.g. quartzose matrix.
R
R -barren to occassional py (< 1%), weakly magnetic with < 1%
R magnetite.
R
R contact - sharp contact 160 dca.
R
R ---
P 176.79 283.00 6C 76D 3FDQZBI2BNFO BN88 D(D(D. D(
L 3A KFD+SEF)GA FO87 J+ F) F(
R
R Arkose/Arkosic-wacke/Argillite
R
R -dark brownish gray, gray, to bleached gray color, v.f.g.
R matrix composition of fd-qz-bi with 20% to 25% brown to
R brownish-black & foliated biotite with a decrease in bi
R within the Kspar-altered sections, increased garnet con-
R centration from 176.79 to 224.00 (5% to 20% up to 0.20 cm
R in size), 230.90 to 264.60 (5% to 10%), and from 276.25 to
R 280.10 (5%), overall a mixed composition with an argilla-

R ceous component from 176.79 to 222.00.
R
R -general decrease in biotite from 264.60 to 283.00 with
R 5% to 10% biotite and slight increase in chlorite to 5%,
R thin, diffuse bands of aluminum-silicate alteration with
R rectangular and foliated sillimanite-(andalusite??) from
R 182.75 to 183.20 (1% to 3%), 199.70 to 203.40 (up to 1%),
R and from 211.80 to 213.30 (< 2% to 3%), increase in seri-
R cite as fracture-filling and in the matrix (< 1% to 3%)
R from 205.20 to 211.80 and as scattered 1% to 2% flakes of
R sericite from 226.00 to 229.00.
R
R Kspar alteration from...
R
R 236.80 to 237.20 - 30% to 40% pervasive Kspar as dissemin-
R ated grains in the matrix
R 239.13 to 240.70 - 30% to 40% pervasive Kspar as dissemina-
R ted grains in the matrix.
R 248.80 to 249.29 - 4% to 7% disseminated Kspar - bleached
R color.
R 251.25 to 253.58 - 20% to 45% Kspar in banded-form and as
R insipient, pervasive Kspar alteration &
R fracture-filling, < 1% to 2% garnets,
R gradational contacts.
R 255.80 to 256.56 - 10% Kspar with associated sericite,
R Kspar occurs in banded-form
R 275.50 to 279.00 - 10% to 20% Kspar as disseminated grains
R & as fracture-filling with the occur-
R rence of sinuous, bleached fractures.
R
R -general increase in Kspar from 264.60 to 283.00 with an
R associated decrease in biotite - Kspar occurs in banded-
R form and as bleached, hairline fractures.
R
R -moderate carbonate alteration (i.e. calcite) from 271.60
R 273.20 as a very fine crackle breccia as well as in the
R matrix and from 274.60 to 275.50 with cb/ca in the matrix
R and as fracture-filling.
R
R -banded and foliated between 70 and 103 dca, occassional
R to scattered qs/qcs with increased veining from 199.70 to
R to 203.40 with 10% to 15 qcs/qs (< 5.0 cm wide) parallel to
R foliation/banding.
R
R 204.25 to 205.52 - Arenite - gray color, arenaceous com-

R position, v.f.g. and aphanitic.
R 225.20 to 226.08 - Reworked Intermediate Tf-Lapilli-Tf -
R mafic fragments < 3.0 cm up to 5%
R 229.44 to 229.76 - Reworked Intermediate Tf-Lapilli Tf -
R moderately ch, ch fragments up to 6.0
R cm.
R
R -occasional to locally scattered po and py that generally
R occur as v.f.g., foliated grains < 1%, weakly magnetic
R with < 1% magnetite
R
R contact - gradational increase in Kspar alteration.
R
R
PKF 283.00 289.00 6C X FDBIQZ=FO FO88 D(D(D.
L 7A KFD2 GA BN90
R
R Kspar-Altered Arkose
R
R -light, bleached gray to gray color, v.f.g. altered matrix
R of disseminated and fracture-filled Kspar varying 20% to
R 25% associated with ab-bi-qz-ga-(ch), < 5% biotite and 1%
R to 3% scattered garnets.
R
R -weakly foliated 85 to 90 dca, occassional to widely scat-
R tered qs/qcs varying < 1% to 5% with an increase in qs/qcs
R from 287.00 to 289.00 between 8% and 10% qs/qcs.
R
R -occassional v.f.g. and foliated po and py (< 1%), weakly
R magnetic with < 1% magnetite.
R
R contact - gradational in the bleached Kspar alteration
R
R
P 289.00 305.07 6C X FDQZBI1FOBN FO95 D(D(D(
L A KFD= GA+ BN92 D=
R
R Arkose
R
R similar to section from 176.79 to 283.00 with...
R
R 1) intermittent Kspar alteration from 296.70 to 301.05
R with intense Kspar alteration from 296.70 to 297.70 in
R the matrix in banded-forms (up to 10 cm wide) and as
R fracture-filling, Kspar varies from 10% to 30%

R
R 2) banded/foliated 85 to 105 dca.
R
R 3) occassional po and py (< 1%), weakly magnetic with < 1%
R magnetite.
R
/END

APPENDIX II

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Glenn Shevchenko, residing at 2869 Dalton Road, Timmins, Ontario, do hereby certify that:

1. I am a graduate of Concordia University (1982) where I received a B.Sc. Specializing in Geology.

2. I have practised my profession part-time since 1977, and full-time since 1984.

3. I am currently employed by Placer Dome Canada Limited and was responsible for the 1995 drill program conducted on the White River Property.

4. I am a Professional Geologist and a member of the Association of Professional Engineers and Geoscientists of British Columbia

Dec 22 1995
Date

Glenn Shevchenko, P.Geo.

Ministry of Northern Development and Mines
Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number
W9540-330

Personal information collected on this form is obtained under the authority of this collection should be directed to the Provincial Manager, Mining Land Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

42C12NE0022 W9540-00330 LABERGE

900

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

Recorded Holder(s)		Client No.
LAC MINERALS LTD. AND/OR BARRICK GOLD CORPORATION		155133
Address		**Telephone No.**
2 BOUSQUET ROAD, SUITE 395; PREISSAC QUEBEC J0Y 2E0		(819) 759-3681
Mining Division	**Township/Area**	**M or G Plan No.**
THUNDER BAY	BOMBY, BROTHERS, LABERGE	G-3172,G-3173,G-3174
Dates Work Performed From: JUNE 12, 1995	To: DECEMBER 13, 1995	

Work Performed (Check One Work Group Only)

	Work Group	Type
	Geotechnical Survey	
x	Physical Work, Including Drilling	13 DIAMOND DRILL HOLES TOTALLING 4241.49 METRES
	Rehabilitation	
	Other Authorized Work	
	Assays	
	Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs $ 522,158.00

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

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

Name	Address
STEPHEN N. ROACH	36 ST-THERESE BLVD. EMBRUN ONTARIO K0A 1W0
GLENN SHEVCHENKO	PLACER DOME CANADA LIMITED; P.O. BOX 960 TIMMINS ONTARIO P4N 7H1
BRADLEY BROS. LIMITED	P.O. BOX 485, HWY 101 WEST; TIMMINS ONTARIO P4N 7E7

(attach a schedule if necessary)

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

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date	[redacted]or Agent (Signature)
	21 Dec/95	Robin Price

Certification of Work Report

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

Name and Address of Person Certifying
GLENN SHEVCHENKO: PLACER DOME CANADA LIMITED; PO BOX 960 TIMMINS ONTARIO P4N 7H1

Telepone No.	Date	Certified By (Signature)
(705) 267-5400	21 DECEMBER 1995	

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
$522158	Dec 27/95		THUNDER BAY MINING DIVISION RECEIVED DEC 2 5 1995 A.M. 7 8 9 10 11 12 1 2 3 4 5 P.M.
	Deemed Approval Date	Date Approved	
		Jan 29/96	
	Date Notice for Amendments Sent		

0241 (03/91)

0241 (03/91)

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
SEE ATTACHED SCHEDULE - 15 PAGES						
	444		$522,158.00	$176,801.00	~~$179,201.00~~ 169601	~~$335,757.00~~ 345357
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

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

1. ☐ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☐ Credits are to be cut back equally over all claims contained in this report of work.
3. ☐ Credits are to be cut back as priorized on the attached appendix.
4. X CREDITS ARE TO BE CUT BACK FROM RESERVE TO BE CLAIMED AT A FUTURE DATE.

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

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

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

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

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction: W9540-330

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

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

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain	58,839	58,839
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type S.Roach	20,125	
	Bradley Bros.	404,777	
			424,902
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
	Total Direct Costs Total des coûts directs		483,741

2. Indirect Costs/Coûts indirects

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

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type to/from site	2538	
	vehichle	7582	
	supplies	16,286	
	freight	1,544	
	communication	1,892	29,842
Food and Lodging Nourriture et hébergement	camp food ~~accommodation~~	2054 5657 ~~864~~	8,575
Mobilization and Demobilization Mobilisation et démobilisation	--		
	Sub Total of Indirect Costs Total partiel des coûts indirects		38,417
	Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)		96,748
	Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) / **Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles**		522,158

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

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

Filing Discounts

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

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

Total Value of Assessment Credit	Total Assessment Claimed
x 0.50 =	

Remises pour dépôt

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

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

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

Certification Verifying Statement of Costs

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

that as Project Geologist (Recorded Holder, Agent, Position in Company) I am authorized

to make this certification

Attestation de l'état des coûts

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

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

à faire cette attestation.

Signature	Date
	Dec 12/95

0212 (04/91)

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

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

V505 - WHITE RIVER
1995 DRILLING

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	SSM 607748	1	31391.00	400.00	10994.00	19997.00
	SSM 607761	1	23144.00	400.00	12000.00	10744.00
	SSM 607764	1	43455.00	400.00	12000.00	31055.00
	SSM 607766	1	20312.00	400.00	10516.00	9396.00
	SSM 607767	1	36959.00	400.00	10516.00	26043.00
	SSM 607768	1	34965.00	400.00	10510.00	24055.00
	SSM 607770	1	24628.00	400.00	10994.00	13234.00
	SSM 607771	1	8743.00	400.00	8343.00	0.00
	SSM 607773	1	3328.00	400.00	2928.00	0.00
	SSM 607820	1	0.00	400.00	0.00	0.00
	SSM 607821	1	0.00	400.00	0.00	0.00
	SSM 607822	1	0.00	400.00	0.00	0.00
	SSM 607823	1	0.00	400.00	0.00	0.00
	SSM 607824	1	0.00	400.00	0.00	0.00
	SSM 607825	1	0.00	400.00	0.00	0.00
	SSM 607826	1	0.00	400.00	0.00	0.00
	SSM 607827	1	0.00	400.00	0.00	0.00
	SSM 607828	1	0.00	400.00	0.00	0.00
	SSM 607829	1	0.00	400.00	0.00	0.00
	SSM 607830	1	0.00	400.00	0.00	0.00
	SSM 607831	1	0.00	400.00	0.00	0.00
	SSM 607832	1	0.00	400.00	0.00	0.00
	SSM 607833	1	0.00	400.00	0.00	0.00
	SSM 607834	1	0.00	400.00	0.00	0.00
	SSM 607835	1	0.00	400.00	0.00	0.00
	SSM 607836	1	0.00	400.00	0.00	0.00
	SSM 607837	1	0.00	400.00	0.00	0.00
	SSM 607838	1	0.00	400.00	0.00	0.00
	SSM 607839	1	0.00	400.00	0.00	0.00
	SSM 607840	1	0.00	400.00	0.00	0.00
	SSM 607841	1	0.00	400.00	0.00	0.00

V-505 WHITE RIVER
1995 DRILLING

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	SSM 607842	1	0.00	400.00	0.00	0.00
	SSM 607843	1	0.00	400.00	0.00	0.00
	SSM 607844	1	0.00	400.00	0.00	0.00
	SSM 607845	1	0.00	400.00	0.00	0.00
	SSM 607846	1	0.00	400.00	0.00	0.00
	SSM 607847	1	0.00	400.00	0.00	0.00
	SSM 607848	1	0.00	400.00	0.00	0.00
	SSM 607849	1	0.00	400.00	0.00	0.00
	SSM 607850	1	0.00	400.00	0.00	0.00
	SSM 607851	1	0.00	400.00	0.00	0.00
	SSM 607852	1	0.00	400.00	0.00	0.00
	SSM 607853	1	0.00	400.00	0.00	0.00
	SSM 607854	1	0.00	400.00	0.00	0.00
	SSM 607855	1	0.00	400.00	0.00	0.00
	SSM 607856	1	0.00	400.00	0.00	0.00
	SSM 607857	1	0.00	400.00	0.00	0.00
	SSM 607858	1	0.00	400.00	0.00	0.00
	SSM 607859	1	0.00	400.00	0.00	0.00
	SSM 607860	1	0.00	400.00	0.00	0.00
	SSM 607861	1	0.00	400.00	0.00	0.00
	SSM 607862	1	0.00	400.00	0.00	0.00
	SSM 607863	1	0.00	400.00	0.00	0.00
	SSM 607888	1	0.00	400.00	0.00	0.00
	SSM 607889	1	0.00	400.00	0.00	0.00
	SSM 607890	1	0.00	400.00	0.00	0.00
	SSM 607943	1	20681.00	400.00	0.00	20281.00
	SSM 607948	1	33853.00	400.00	12000.00	21453.00
	SSM 607965	1	20804.00	400.00	12000.00	8404.00
	SSM 607967	1	29662.00	400.00	12000.00	17262.00
	SSM 607980	1	0.00	400.00	0.00	0.00
	SSM 607981	1	0.00	400.00	0.00	0.00

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

V-505 WHITE RIVER
1995 DRILLING

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	SSM 607982	1	0.00	400.00	0.00	0.00
	SSM 607983	1	0.00	400.00	0.00	0.00
	SSM 607984	1	0.00	400.00	0.00	0.00
	SSM 607985	1	0.00	400.00	0.00	0.00
	SSM 607986	1	0.00	400.00	0.00	0.00
	SSM 607987	1	0.00	400.00	0.00	0.00
	SSM 607988	1	0.00	400.00	0.00	0.00
	SSM 607989	1	0.00	400.00	0.00	0.00
	SSM 607990	1	0.00	400.00	0.00	0.00
	SSM 607991	1	0.00	400.00	0.00	0.00
	SSM 607992	1	0.00	400.00	0.00	0.00
	SSM 607993	1	0.00	400.00	0.00	0.00
	SSM 607994	1	0.00	400.00	0.00	0.00
	SSM 607995	1	0.00	400.00	0.00	0.00
	SSM 607996	1	0.00	400.00	0.00	0.00
	SSM 625501	1	0.00	400.00	0.00	0.00
	SSM 625502	1	0.00	400.00	0.00	0.00
	SSM 625503	1	0.00	400.00	0.00	0.00
	SSM 625504	1	0.00	400.00	0.00	0.00
	SSM 625505	1	0.00	400.00	0.00	0.00
	SSM 625506	1	0.00	400.00	0.00	0.00
	SSM 625507	1	0.00	400.00	0.00	0.00
	SSM 625508	1	0.00	400.00	0.00	0.00
	SSM 625509	1	0.00	400.00	0.00	0.00
	SSM 625510	1	0.00	400.00	0.00	0.00
	SSM 625511	1	0.00	400.00	0.00	0.00
	SSM 625512	1	0.00	400.00	0.00	0.00
	SSM 625513	1	0.00	400.00	0.00	0.00
	SSM 625514	1	0.00	400.00	0.00	0.00
	SSM 625515	1	0.00	400.00	0.00	0.00
	SSM 625516	1	0.00	400.00	0.00	0.00

V-505 WHITE RIVER
1995 DRILLING

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	SSM 625517	1	0.00	400.00	0.00	0.00
	SSM 625518	1	0.00	400.00	0.00	0.00
	SSM 625519	1	0.00	400.00	0.00	0.00
	SSM 625520	1	0.00	400.00	0.00	0.00
	SSM 625521	1	0.00	400.00	0.00	0.00
	SSM 625522	1	0.00	400.00	0.00	0.00
	SSM 625523	1	0.00	400.00	0.00	0.00
	SSM 625524	1	0.00	400.00	0.00	0.00
	SSM 625525	1	0.00	400.00	0.00	0.00
	SSM 625526	1	0.00	400.00	0.00	0.00
	SSM 625527	1	0.00	400.00	0.00	0.00
	SSM 625528	1	0.00	400.00	0.00	0.00
	SSM 625529	1	0.00	400.00	0.00	0.00
	SSM 625530	1	0.00	400.00	0.00	0.00
	SSM 625531	1	0.00	400.00	0.00	0.00
	SSM 625532	1	0.00	400.00	0.00	0.00
	SSM 625533	1	0.00	400.00	0.00	0.00
	SSM 625534	1	0.00	400.00	0.00	0.00
	SSM 625535	1	0.00	400.00	0.00	0.00
	SSM 625536	1	0.00	400.00	0.00	0.00
	SSM 625537	1	0.00	400.00	0.00	0.00
	SSM 625538	1	0.00	400.00	0.00	0.00
	SSM 625539	1	0.00	400.00	0.00	0.00
	SSM 625540	1	0.00	400.00	0.00	0.00
	SSM 625541	1	0.00	400.00	0.00	0.00
	SSM 625542	1	0.00	400.00	0.00	0.00
	SSM 625543	1	0.00	400.00	0.00	0.00
	SSM 625544	1	0.00	400.00	0.00	0.00
	SSM 625545	1	0.00	400.00	0.00	0.00
	SSM 625546	1	0.00	400.00	0.00	0.00
	SSM 625547	1	0.00	400.00	0.00	0.00

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

V- 505 WHITE RIVER
1995 DRILLING

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	SSM 625548	1	0.00	400.00	0.00	0.00
	SSM 625549	1	0.00	400.00	0.00	0.00
	SSM 625550	1	0.00	400.00	0.00	0.00
	SSM 625551	1	0.00	400.00	0.00	0.00
	SSM 625552	1	0.00	400.00	0.00	0.00
	SSM 625553	1	0.00	400.00	0.00	0.00
	SSM 625554	1	0.00	400.00	0.00	0.00
	SSM 625555	1	0.00	400.00	0.00	0.00
	SSM 625556	1	0.00	400.00	0.00	0.00
	SSM 625557	1	0.00	400.00	0.00	0.00
	SSM 625558	1	0.00	400.00	0.00	0.00
	SSM 625559	1	0.00	400.00	0.00	0.00
	SSM 625591	1	35699.00	400.00	12000.00	23299.00
	SSM 625592	1	7145.00	400.00	6400.00	345.00
	SSM 625647	1	0.00	400.00	0.00	0.00
	SSM 625656	1	0.00	400.00	0.00	0.00
	SSM 625657	1	0.00	400.00	0.00	0.00
	SSM 625662	1	0.00	400.00	0.00	0.00
	SSM 625663	1	0.00	400.00	0.00	0.00
	SSM 625664	1	0.00	400.00	0.00	0.00
	SSM 625665	1	0.00	400.00	0.00	0.00
	SSM 625666	1	0.00	400.00	0.00	0.00
	SSM 625667	1	0.00	400.00	0.00	0.00
	SSM 625668	1	0.00	400.00	0.00	0.00
	SSM 625669	1	0.00	400.00	0.00	0.00
	SSM 625670	1	0.00	400.00	0.00	0.00
	SSM 625671	1	0.00	400.00	0.00	0.00
	SSM 625672	1	0.00	400.00	0.00	0.00
	SSM 625681	1	0.00	400.00	0.00	0.00
	SSM 625682	1	0.00	400.00	0.00	0.00
	SSM 625683	1	0.00	400.00	0.00	0.00

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

V-505 WHITE RIVER
1995 DRILLING

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	SSM 625684	1	0.00	400.00	0.00	0.00
	SSM 625685	1	0.00	400.00	0.00	0.00
	SSM 625686	1	0.00	400.00	0.00	0.00
	SSM 625687	1	0.00	400.00	0.00	0.00
	SSM 625688	1	0.00	400.00	0.00	0.00
	SSM 625689	1	0.00	400.00	0.00	0.00
	SSM 625699	1	0.00	400.00	0.00	0.00
	SSM 625700	1	0.00	400.00	0.00	0.00
	SSM 625701	1	0.00	400.00	0.00	0.00
	SSM 625702	1	0.00	400.00	0.00	0.00
	SSM 625703	1	0.00	400.00	0.00	0.00
	SSM 625704	1	0.00	400.00	0.00	0.00
	SSM 625705	1	0.00	400.00	0.00	0.00
	SSM 625706	1	0.00	400.00	0.00	0.00
	SSM 625707	1	0.00	400.00	0.00	0.00
	SSM 625718	1	0.00	400.00	0.00	0.00
	SSM 625719	1	0.00	400.00	0.00	0.00
	SSM 625720	1	0.00	400.00	0.00	0.00
	SSM 625721	1	0.00	400.00	0.00	0.00
	SSM 625722	1	0.00	400.00	0.00	0.00
	SSM 625723	1	0.00	400.00	0.00	0.00
	SSM 625724	1	0.00	400.00	0.00	0.00
	SSM 625725	1	0.00	400.00	0.00	0.00
	SSM 625737	1	0.00	400.00	0.00	0.00
	SSM 625738	1	0.00	400.00	0.00	0.00
	SSM 625739	1	0.00	400.00	0.00	0.00
	SSM 625740	1	0.00	400.00	0.00	0.00
	SSM 625741	1	0.00	400.00	0.00	0.00
	SSM 625742	1	0.00	400.00	0.00	0.00
	SSM 625743	1	0.00	400.00	0.00	0.00
	SSM 625744	1	0.00	400.00	0.00	0.00

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

V-505 WHITE RIVER
1995 DRILLING

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	SSM 625745	1	0.00	400.00	0.00	0.00
	SSM 625746	1	0.00	400.00	0.00	0.00
	SSM 625747	1	0.00	400.00	0.00	0.00
	SSM 625748	1	0.00	400.00	0.00	0.00
	SSM 625749	1	0.00	400.00	0.00	0.00
	SSM 625750	1	0.00	400.00	0.00	0.00
	SSM 625751	1	0.00	400.00	0.00	0.00
	SSM 625752	1	0.00	400.00	0.00	0.00
	SSM 625753	1	0.00	400.00	0.00	0.00
	SSM 625754	1	0.00	400.00	0.00	0.00
	SSM 625755	1	0.00	400.00	0.00	0.00
	SSM 625756	1	0.00	400.00	0.00	0.00
	SSM 625757	1	0.00	400.00	0.00	0.00
	SSM 625758	1	0.00	400.00	0.00	0.00
	SSM 625759	1	0.00	400.00	0.00	0.00
	SSM 625760	1	0.00	400.00	0.00	0.00
	SSM 625761	1	0.00	400.00	0.00	0.00
	SSM 625762	1	0.00	400.00	0.00	0.00
	SSM 625763	1	0.00	400.00	0.00	0.00
	SSM 625764	1	0.00	400.00	0.00	0.00
	SSM 625765	1	0.00	400.00	0.00	0.00
	SSM 625766	1	0.00	400.00	0.00	0.00
	SSM 625767	1	0.00	400.00	0.00	0.00
	SSM 625768	1	0.00	400.00	0.00	0.00
	SSM 625769	1	0.00	400.00	0.00	0.00
	SSM 625770	1	0.00	400.00	0.00	0.00
	SSM 625771	1	0.00	400.00	0.00	0.00
	SSM 625772	1	0.00	400.00	0.00	0.00
	SSM 625773	1	0.00	400.00	0.00	0.00
	SSM 625774	1	0.00	400.00	0.00	0.00
	SSM 625775	1	0.00	400.00	0.00	0.00

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

V-505 WHITE RIVER
1995 DRILLING

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	SSM 625776	1	0.00	400.00	0.00	0.00
	SSM 625777	1	0.00	400.00	0.00	0.00
	SSM 625778	1	0.00	400.00	0.00	0.00
	SSM 625779	1	0.00	400.00	0.00	0.00
	SSM 625780	1	0.00	400.00	0.00	0.00
	SSM 625781	1	0.00	400.00	0.00	0.00
	SSM 625782	1	0.00	400.00	0.00	0.00
	SSM 625783	1	0.00	400.00	0.00	0.00
	SSM 625789	1	61180.00	400.00	12000.00	48780.00
	SSM 625792	1	48638.00	400.00	12000.00	36238.00
	SSM 625794	1	37571.00	400.00	~~12000.00~~ 2400	~~25471.00~~ 34771
	SSM 626737	1	0.00	400.00	0.00	0.00
	SSM 626738	1	0.00	400.00	0.00	0.00
	TB 1046167	1	0.00	400.00	0.00	0.00
	TB 1046168	1	0.00	400.00	0.00	0.00
	TB 1046169	1	0.00	400.00	0.00	0.00
	TB 1047101	1	0.00	400.00	0.00	0.00
	TB 1047102	1	0.00	400.00	0.00	0.00
	TB 1047103	1	0.00	400.00	0.00	0.00
	TB 1075900	1	0.00	1.00	0.00	0.00
	TB 1075901	1	0.00	160.00	0.00	0.00
	TB 1075902	1	0.00	400.00	0.00	0.00
	TB 1075903	1	0.00	400.00	0.00	0.00
	TB 1075904	1	0.00	400.00	0.00	0.00
	TB 1075905	1	0.00	400.00	0.00	0.00
	TB 1075906	1	0.00	400.00	0.00	0.00
	TB 1075907	1	0.00	400.00	0.00	0.00
	TB 1075908	1	0.00	400.00	0.00	0.00
	TB 1075909	1	0.00	400.00	0.00	0.00
	TB 1075910	1	0.00	400.00	0.00	0.00
	TB 1075911	1	0.00	400.00	0.00	0.00

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

V-505 WHITE RIVER
1995 DRILLING

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	TB 1075912	1	0.00	400.00	0.00	0.00
	TB 1075913	1	0.00	400.00	0.00	0.00
	TB 1075914	1	0.00	400.00	0.00	0.00
	TB 1075930	1	0.00	400.00	0.00	0.00
	TB 1075931	1	0.00	400.00	0.00	0.00
	TB 1075932	1	0.00	400.00	0.00	0.00
	TB 1075933	1	0.00	400.00	0.00	0.00
	TB 1075934	1	0.00	400.00	0.00	0.00
	TB 1075935	1	0.00	400.00	0.00	0.00
	TB 1075936	1	0.00	400.00	0.00	0.00
	TB 1075937	1	0.00	400.00	0.00	0.00
	TB 1075938	1	0.00	400.00	0.00	0.00
	TB 1075939	1	0.00	400.00	0.00	0.00
	TB 1075940	1	0.00	400.00	0.00	0.00
	TB 1075941	1	0.00	400.00	0.00	0.00
	TB 1075942	1	0.00	400.00	0.00	0.00
	TB 1075943	1	0.00	400.00	0.00	0.00
	TB 1075944	1	0.00	400.00	0.00	0.00
	TB 1075945	1	0.00	400.00	0.00	0.00
	TB 1075946	1	0.00	400.00	0.00	0.00
	TB 1075947	1	0.00	400.00	0.00	0.00
	TB 1075948	1	0.00	400.00	0.00	0.00
	TB 1075949	1	0.00	400.00	0.00	0.00
	TB 1075950	1	0.00	400.00	0.00	0.00
	TB 1075951	1	0.00	400.00	0.00	0.00
	TB 1075952	1	0.00	400.00	0.00	0.00
	TB 1075953	1	0.00	400.00	0.00	0.00
	TB 1075954	1	0.00	400.00	0.00	0.00
	TB 1075955	1	0.00	400.00	0.00	0.00
	TB 1075956	1	0.00	400.00	0.00	0.00
	TB 1075957	1	0.00	400.00	0.00	0.00

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SCHEDULE
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AFTER RECORDING CLAIM

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	TB 1075958	1	0.00	400.00	0.00	0.00
	TB 1075959	1	0.00	400.00	0.00	0.00
	TB 1086628	1	0.00	400.00	0.00	0.00
	TB 1086629	1	0.00	400.00	0.00	0.00
	TB 1086630	1	0.00	400.00	0.00	0.00
	TB 1086631	1	0.00	400.00	0.00	0.00
	TB 1086632	1	0.00	400.00	0.00	0.00
	TB 1086633	1	0.00	400.00	0.00	0.00
	TB 1086634	1	0.00	400.00	0.00	0.00
	TB 1086635	1	0.00	400.00	0.00	0.00
	TB 1086636	1	0.00	400.00	0.00	0.00
	TB 1086637	1	0.00	400.00	0.00	0.00
	TB 1086639	1	0.00	400.00	0.00	0.00
	TB 1086640	1	0.00	400.00	0.00	0.00
	TB 1086641	1	0.00	400.00	0.00	0.00
	TB 1086642	1	0.00	400.00	0.00	0.00
	TB 1086643	1	0.00	400.00	0.00	0.00
	TB 1086644	1	0.00	400.00	0.00	0.00
	TB 1086645	1	0.00	400.00	0.00	0.00
	TB 1086646	1	0.00	400.00	0.00	0.00
	TB 1086647	1	0.00	400.00	0.00	0.00
	TB 1086648	1	0.00	400.00	0.00	0.00
	TB 1086649	1	0.00	400.00	0.00	0.00
	TB 1086650	1	0.00	400.00	0.00	0.00
	TB 1086651	1	0.00	400.00	0.00	0.00
	TB 1086652	1	0.00	400.00	0.00	0.00
	TB 1086653	1	0.00	400.00	0.00	0.00
	TB 1086654	1	0.00	400.00	0.00	0.00
	TB 1086655	1	0.00	400.00	0.00	0.00
	TB 1086656	1	0.00	400.00	0.00	0.00
	TB 1086657	1	0.00	400.00	0.00	0.00

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V-505 WHITE RIVER
1995 DRILLING

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	TB 1086658	1	0.00	400.00	0.00	0.00
	TB 1086659	1	0.00	400.00	0.00	0.00
	TB 1086660	1	0.00	400.00	0.00	0.00
	TB 1086661	1	0.00	400.00	0.00	0.00
	TB 1086662	1	0.00	400.00	0.00	0.00
	TB 1086663	1	0.00	400.00	0.00	0.00
	TB 1096277	1	0.00	400.00	0.00	0.00
	TB 1096278	1	0.00	400.00	0.00	0.00
	TB 1096279	1	0.00	400.00	0.00	0.00
	TB 1096280	1	0.00	400.00	0.00	0.00
	TB 1096281	1	0.00	400.00	0.00	0.00
	TB 1096282	1	0.00	400.00	0.00	0.00
	TB 1097203	1	0.00	400.00	0.00	0.00
	TB 1097204	1	0.00	400.00	0.00	0.00
	TB 1097205	1	0.00	400.00	0.00	0.00
	TB 1097206	1	0.00	400.00	0.00	0.00
	TB 1097207	1	0.00	400.00	0.00	0.00
	TB 1097208	1	0.00	400.00	0.00	0.00
	TB 1097209	1	0.00	400.00	0.00	0.00
	TB 1097210	1	0.00	400.00	0.00	0.00
	TB 1097211	1	0.00	400.00	0.00	0.00
	TB 1097212	1	0.00	400.00	0.00	0.00
	TB 1097213	1	0.00	400.00	0.00	0.00
	TB 1097214	1	0.00	400.00	0.00	0.00
	TB 1097215	1	0.00	400.00	0.00	0.00
	TB 1097216	1	0.00	400.00	0.00	0.00
	TB 1097217	1	0.00	400.00	0.00	0.00
	TB 1097220	1	0.00	400.00	0.00	0.00
	TB 1097221	1	0.00	400.00	0.00	0.00
	TB 1097222	1	0.00	400.00	0.00	0.00
	TB 1097223	1	0.00	400.00	0.00	0.00

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V-505 WHITE RIVER
1995 DRILLING

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	TB 1097224	1	0.00	400.00	0.00	0.00
	TB 1097225	1	0.00	400.00	0.00	0.00
	TB 1097231	1	0.00	400.00	0.00	0.00
	TB 1097232	1	0.00	400.00	0.00	0.00
	TB 1097233	1	0.00	400.00	0.00	0.00
	TB 1097234	1	0.00	400.00	0.00	0.00
	TB 1097235	1	0.00	400.00	0.00	0.00
	TB 1097241	1	0.00	400.00	0.00	0.00
	TB 1097242	1	0.00	400.00	0.00	0.00
	TB 1097243	1	0.00	400.00	0.00	0.00
	TB 1097252	1	0.00	400.00	0.00	0.00
	TB 1097253	1	0.00	400.00	0.00	0.00
	TB 1097254	1	0.00	400.00	0.00	0.00
	TB 1097255	1	0.00	400.00	0.00	0.00
	TB 1097256	1	0.00	400.00	0.00	0.00
	TB 1097257	1	0.00	400.00	0.00	0.00
	TB 1097258	1	0.00	400.00	0.00	0.00
	TB 1097259	1	0.00	400.00	0.00	0.00
	TB 1097260	1	0.00	400.00	0.00	0.00
	TB 1097261	1	0.00	400.00	0.00	0.00
	TB 1097262	1	0.00	400.00	0.00	0.00
	TB 1097263	1	0.00	400.00	0.00	0.00
	TB 1097264	1	0.00	400.00	0.00	0.00
	TB 1097265	1	0.00	400.00	0.00	0.00
	TB 1097266	1	0.00	400.00	0.00	0.00
	TB 1097267	1	0.00	400.00	0.00	0.00
	TB 1097268	1	0.00	400.00	0.00	0.00
	TB 1097269	1	0.00	400.00	0.00	0.00
	TB 1097270	1	0.00	400.00	0.00	0.00
	TB 1097271	1	0.00	400.00	0.00	0.00
	TB 1097272	1	0.00	400.00	0.00	0.00

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1995 DRILLING

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	TB 1097273	1	0.00	400.00	0.00	0.00
	TB 1097274	1	0.00	400.00	0.00	0.00
	TB 1097275	1	0.00	400.00	0.00	0.00
	TB 1097276	1	0.00	400.00	0.00	0.00
	TB 1097277	1	0.00	400.00	0.00	0.00
	TB 1097278	1	0.00	400.00	0.00	0.00
	TB 1097279	1	0.00	400.00	0.00	0.00
	TB 1097280	1	0.00	400.00	0.00	0.00
	TB 1097281	1	0.00	400.00	0.00	0.00
	TB 1097282	1	0.00	400.00	0.00	0.00
	TB 1097300	1	0.00	400.00	0.00	0.00
	TB 1097301	1	0.00	400.00	0.00	0.00
	TB 1097302	1	0.00	400.00	0.00	0.00
	TB 1097303	1	0.00	400.00	0.00	0.00
	TB 1097304	1	0.00	400.00	0.00	0.00
	TB 1097305	1	0.00	400.00	0.00	0.00
	TB 1097306	1	0.00	400.00	0.00	0.00
	TB 1097307	1	0.00	400.00	0.00	0.00
	TB 1097308	1	0.00	400.00	0.00	0.00
	TB 1097309	1	0.00	400.00	0.00	0.00
	TB 1097310	1	0.00	400.00	0.00	0.00
	TB 1097311	1	0.00	400.00	0.00	0.00
	TB 1097312	1	0.00	400.00	0.00	0.00
	TB 1097313	1	0.00	400.00	0.00	0.00
	TB 1097314	1	0.00	400.00	0.00	0.00
	TB 1097315	1	0.00	400.00	0.00	0.00
	TB 1097316	1	0.00	400.00	0.00	0.00
	TB 1097317	1	0.00	400.00	0.00	0.00
	TB 1097318	1	0.00	400.00	0.00	0.00
	TB 1097319	1	0.00	400.00	0.00	0.00
	TB 1097320	1	0.00	400.00	0.00	0.00

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Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	TB 1097321	1	0.00	400.00	0.00	0.00
	TB 1097322	1	0.00	400.00	0.00	0.00
	TB 1097323	1	0.00	400.00	0.00	0.00
	TB 1097324	1	0.00	400.00	0.00	0.00
	TB 1097325	1	0.00	400.00	0.00	0.00
	TB 1097326	1	0.00	400.00	0.00	0.00
	TB 1097327	1	0.00	400.00	0.00	0.00
	TB 1097328	1	0.00	400.00	0.00	0.00
	TB 1097329	1	0.00	400.00	0.00	0.00
	TB 1097330	1	0.00	400.00	0.00	0.00
	TB 1097331	1	0.00	400.00	0.00	0.00
	TB 1097332	1	0.00	400.00	0.00	0.00
	TB 1097333	1	0.00	400.00	0.00	0.00
	TB 1097334	1	0.00	400.00	0.00	0.00
	TB 1097335	1	0.00	400.00	0.00	0.00
	TB 1097336	1	0.00	400.00	0.00	0.00
	TB 1097337	1	0.00	400.00	0.00	0.00
	TB 1097338	1	0.00	400.00	0.00	0.00
	TB 1097339	1	0.00	400.00	0.00	0.00
	TB 1097340	1	0.00	400.00	0.00	0.00
	TB 1097341	1	0.00	400.00	0.00	0.00
	TB 1097342	1	0.00	400.00	0.00	0.00
	TB 1097343	1	0.00	400.00	0.00	0.00
	TB 1097344	1	0.00	400.00	0.00	0.00
	TB 1097345	1	0.00	400.00	0.00	0.00
	TB 1097346	1	0.00	400.00	0.00	0.00
	TB 1097347	1	0.00	400.00	0.00	0.00
	TB 1097348	1	0.00	400.00	0.00	0.00
	TB 1097349	1	0.00	400.00	0.00	0.00
	TB 1100698	1	0.00	400.00	0.00	0.00
	TB 1100699	1	0.00	400.00	0.00	0.00

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

V-505 WHITE RIVER
1995 DRILLING

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	TB 1100700	1	0.00	400.00	0.00	0.00
	TB 1100701	1	0.00	400.00	0.00	0.00
	TB 1100702	1	0.00	400.00	0.00	0.00
	TB 1100703	1	0.00	400.00	0.00	0.00
	TB 1100704	1	0.00	240.00	0.00	0.00
	TB 1100706	1	0.00	400.00	0.00	0.00
	TB 1108357	1	0.00	400.00	0.00	0.00
	TB 1108358	1	0.00	400.00	0.00	0.00
	TB 1108359	1	0.00	400.00	0.00	0.00
	TB 1108360	1	0.00	400.00	0.00	0.00
*** Total ***			522158.00	176801.00	~~179201.00~~ 169601	335757.00 345357

REFERENCES

FLOODING RIGHTS ON THE WHITE R. GRANTED TO ONTARIO HYDRO TO CONTOUR ELEVATION 1080', FILE: 113986 (SHOWN THUS ——·——)

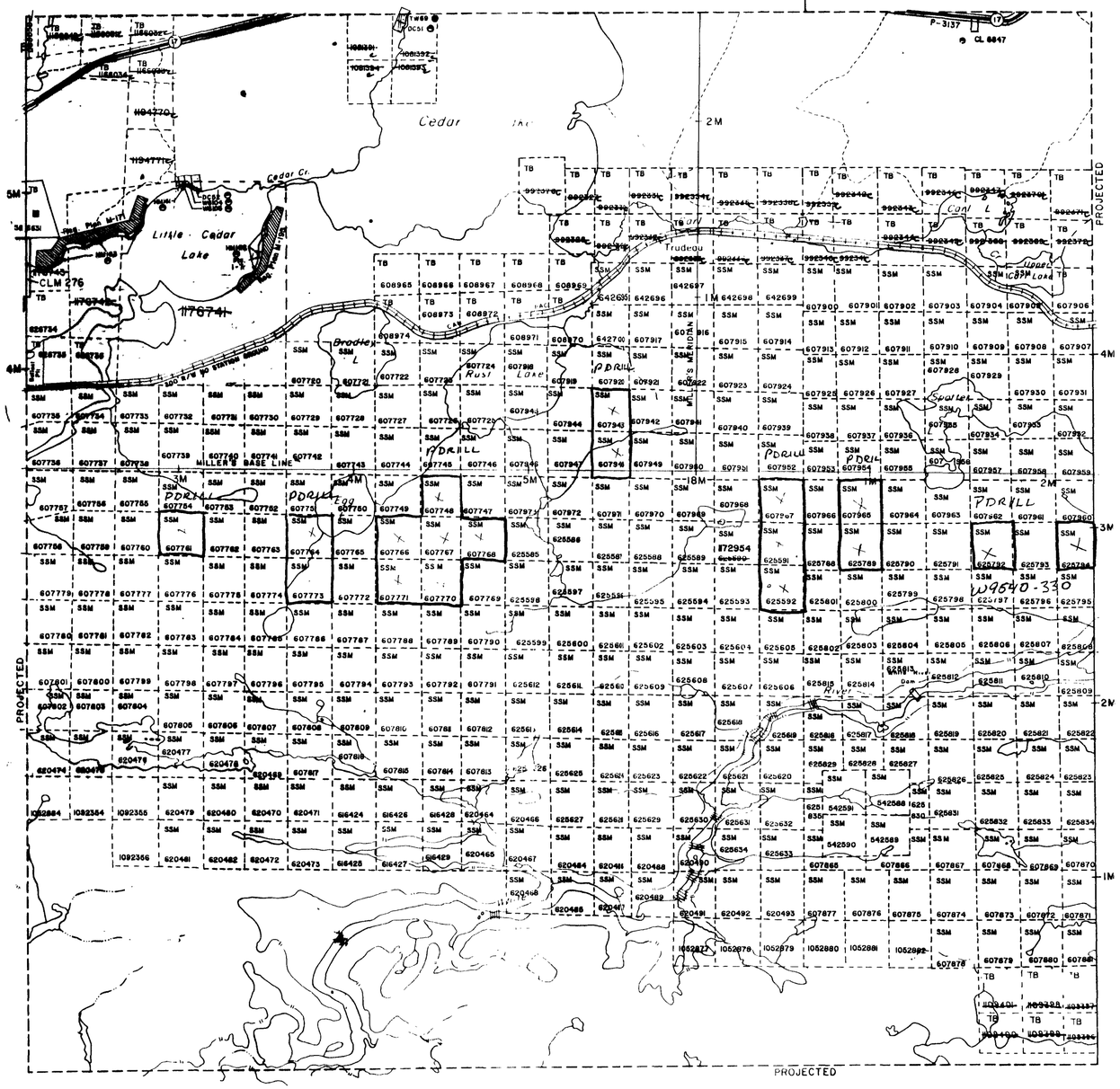
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

WABIKOBA LAKE G-620

WHITE LAKE (S.PT.) G-623

BOMBY TWP. G-3173

LABERGE TWP. G-3174



HERRICK LAKE G-3768

LEGEND

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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER IN COUNCIL	OC
RESERVATION	
CANCELLED	
SAND & GRAVEL	

LAND USE PERMITS FOR COMMERCIAL TOURISM, OUTPOST CAMPS

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

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 500 1000 (1 KM) 2000 (2 KM)

TOWNSHIP

BROTHERS

M.N.R. ADMINISTRATIVE DISTRICT

TERRACE BAY / WAWA

MINING DIVISION

SAULT STE. MARIE / THUNDER BAY

LAND TITLES / REGISTRY DIVISION

THUNDER BAY

Ministry of Natural Resources — Land Management Branch

Ontario

NOVEMBER 5, 1987.

Date AUGUST, 1984

March 21, 1988

Number G-3172

SSM 607770
SSM 607771

SSM 607766
SSM 607767

400m Elev

300m Elev

200m Elev

0505-002
AZ: 180°
DIP: -45°

0505-001
AZ: 180°
DIP: -45°

8600 NORTH

8700 NORTH

8800 NORTH

8900 NORTH

9000 NORTH

LENGTH: 200.06m

LENGTH: 401.00m

0 100 200 300
Metres

LEGEND

LITHOLOGIES

17 VEINS

- 17A YOUNG VEINS (Late – post deformation)
  - 17A1 Quartz Vein
  - 17A2 Feldspar Vein
  - 17A3 Quartz–Feldspar Vein
  - 17A4 Carbonate Vein
  - 17A5 Quartz–Carbonate Vein
  - 17A6 Feldspar–Carbonate Vein
  - 17A7 Quartz–Feldspar–Carbonate Vein
- 17B OLD VEINS (Early – pre–deformation)
  - 17B1 Quartz Vein
  - 17B2 Feldspar Vein
  - 17B3 Quartz–Feldspar Vein
  - 17B4 Carbonate Vein
  - 17B5 Quartz–Carbonate Vein
  - 17B6 Feldspar–Carbonate Vein
  - 17B7 Quartz–Feldspar–Carbonate Vein

16 DYKES

- 16A YOUNG (Late) DYKES
  - 16A1 Pegmatite Dyke
  - 16A2 Felsic Dyke
  - 16A3 Intermediate Dyke
  - 16A4 Mafic Dyke (incl Diabase)
- 16B OLD (Early) DYKES
  - 16B1 Pegmatite Dyke
  - 16B2 Felsic Dyke
  - 16B3 Intermediate Dyke
  - 16B4 Mafic Dyke

15 LAMPROPHYRE

14 PORPHYRITIC FELSIC INTRUSIVE (Young – Late)
- 14A Quartz–Feldspar Porphyry (QFP)
- 14B Feldspar Porphyry (FP)
- 14C Quartz Porphyry (QP)
- 14D Felsic Dyke
- 14E Pegmatite

13 PORPHYRITIC FELSIC INTRUSIVE (Old – Early)
- 13A Coarse Quartz–Feldspar Porphyry (QFP)
- 13B Fine Quartz–Feldspar Porphyry (QFP)
- 13C Crowded Quartz–Feldspar Porphyry (QFP)
- 13D 'Popcorn' Feldspar Porphyry (FP)
- 13E Quartz Porphyry

12 FELSIC TO INTERMEDIATE INTRUSIVES

- 12A YOUNG (Late) FELSIC TO INTERMEDIATE INTRUSIVES
  - 12A1 Alkali Granite
  - 12A2 Granite
  - 12A3 Granodiorite
  - 12A4 Tonalite
  - 12A5 Alkali Syenite
  - 12A6 Syenite
  - 12A7 Monzonite
  - 12A8 Monzodiorite
- 12B OLD (Early) FELSIC TO INTERMEDIATE INTRUSIVES
  - 12B1 Alkali Granite
  - 12B2 Granite
  - 12B3 Granodiorite
  - 12B4 Tonalite
  - 12B5 Alkali Granite
  - 12B6 Syenite
  - 12B7 Monzonite
  - 12B8 Monzodiorite

11 INTERMEDIATE TO MAFIC INTRUSIVES

- 11A YOUNG (Late) INTERMEDIATE TO MAFIC INTRUSIVES
  - 11A1 Quartz Diorite
  - 11A2 Diorite
  - 11A3 Gabbro
  - 11A4 Anorthosite
- 11B OLD (Early) INTERMEDIATE TO MAFIC INTRUSIVES
  - 11B1 Quartz Diorite
  - 11B2 Diorite
  - 11B3 Gabbro
  - 11B4 Anorthosite

10 ULTRAMAFIC INTRUSIVES (undifferentiated)

- 10A YOUNG (Late) ULTRAMAFIC INTRUSIVES
  - 10A1 Peridotite
  - 10A2 Dunite
  - 10A3 Hornblendite
  - 10A4 Pyroxenite
- 10B OLD (Early) ULTRAMAFIC INTRUSIVES
  - 10B1 Peridotite
  - 10B2 Dunite
  - 10B3 Hornblendite
  - 10B4 Pyroxenite

9 GNEISSIC ROCKS (Unknown Origin)
- 9A Felsic
- 9B Intermediate
- 9C Mafic

8 CHEMICAL METASEDIMENTS (EXHALITE)

7 IRON FORMATION

6 CLASTIC METASEDIMENTS
- 6A Sandstone
- 6B Argillite\Slate\Shale
- 6C Arkose
- 6D Greywacke
- 6E Conglomerate
- 6F Chert
- 6G Limestone
- 6H Dolomite

5 FELSIC TO INTERMEDIATE METAVOLCANICS (< 5% Mafic)

- 5A FLOWS (unsubdivided)
  - 5A1 Massive Flow
  - 5A2 Banded Flows
- 5B PYROCLASTICS (unsubdivided)
  - 5B1 Ash Tuff – < 2 mm
  - 5B2 Lapili Tuff – 2 to 64 mm
  - 5B3 Pyroclastic Breccia – > 64 mm
  - 5B4 Crystal Tuff
  - 5B5 Volcaniclastic

4 INTERMEDIATE METAVOLCANICS (5% to 15% Mafic)

- 4A FLOWS (unsubdivided)
  - 4A1 Massive Flow
  - 4A2 Banded Flows
- 4B PYROCLASTICS (unsubdivided)
  - 4B1 Ash Tuff – < 2 mm
  - 4B2 Lapili Tuff – 2 to 64 mm
  - 4B3 Pyroclastic Breccia – > 64 mm
  - 4B4 Crystal Tuff
  - 4B5 Volcaniclastic

3 INTERMEDIATE TO MAFIC METAVOLCANICS (> 15% TO 50% Mafic)

- 3A FLOWS (unsubdivided)
  - 3A1 Massive Flows
  - 3A2 Pillowed Flows
  - 3A3 Amygdaloidal Flows
  - 3A4 Flow Breccia
- 3B PYROCLASTICS (unsubdivided)
  - 3B1 Ash Tuff – < 2 mm
  - 3B2 Lapili Tuff – 2 to 64 mm
  - 3B3 Pyroclastic Breccia – > 64 mm
  - 3B4 Crystal Tuff
  - 3B5 Volcaniclastic

2 MAFIC TO ULTRAMAFIC METAVOLCANICS
- 2A Flow (unsubdivided)
- 2B Massive Flow
- 2C Pillowed Flow
- 2D Amygdaloidal Flow
- 2E Flow Breccia

1 ULTRAMAFIC METAVOLCANICS
- 1A Flow (unsubdivided)
- 1B Massive Flow
- 1C Pillowed Flow
- 1D Amygdaloidal Flow
- 1E Flow Breccia

OVBD Overburden

OSNG Casing

FALT Fault

BLCK Blocky Core

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER OPTION

SECTION 212 EAST

(LOOKING WEST)

DATE: DEC 1995	ORIG BY: S. ROACH DRAWN BY: C. Green	DWG.NO. 18
SCALE: 1 : 625	NTS REF.	

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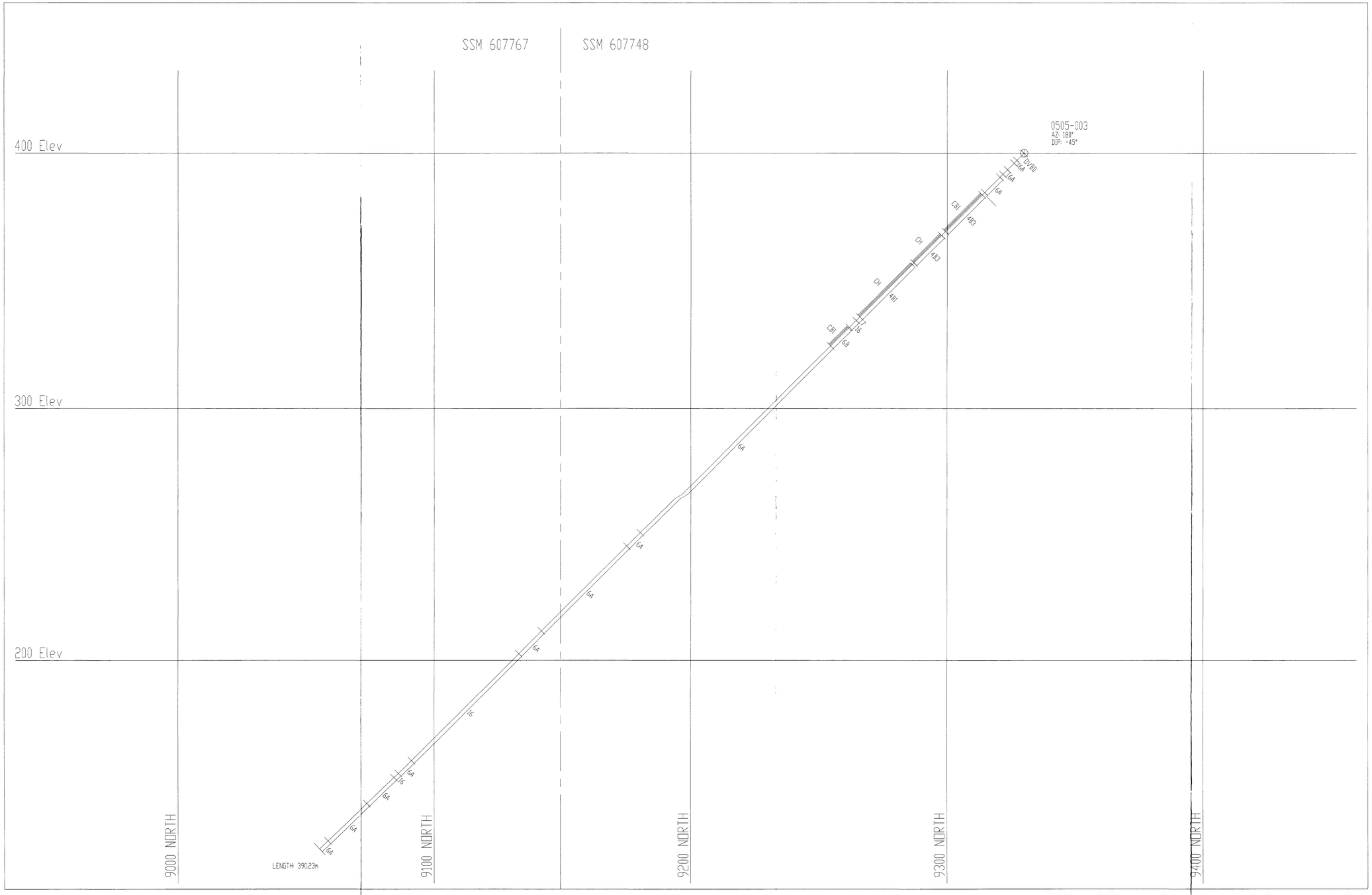


LEGEND

LITHOLOGIES

17 VEINS

17A YOUNG VEINS (Late – post deformation)
- 17A1 Quartz Vein
- 17A2 Feldspar Vein
- 17A3 Quartz-Feldspar Vein
- 17A4 Carbonate Vein
- 17A5 Quartz-Carbonate Vein
- 17A6 Feldspar-Carbonate Vein
- 17A7 Quartz-Feldspar-Carbonate Vein

17B OLD VEINS (Early – pre-deformation)
- 17B1 Quartz Vein
- 17B2 Feldspar Vein
- 17B3 Quartz-Feldspar Vein
- 17B4 Carbonate Vein
- 17B5 Quartz-Carbonate Vein
- 17B6 Feldspar-Carbonate Vein
- 17B7 Quartz-Feldspar-Carbonate Vein

16 DYKES

16A YOUNG (Late) DYKES
- 16A1 Pegmatite Dyke
- 16A2 Felsic Dyke
- 16A3 Intermediate Dyke
- 16A4 Mafic Dyke (Incl Diabase)

16B OLD (Early) DYKES
- 16B1 Pegmatite Dyke
- 16B2 Felsic Dyke
- 16B3 Intermediate Dyke
- 16B4 Mafic Dyke

15 LAMPROPHYRE

14 PORPHYRITIC FELSIC INTRUSIVE (Young – Late)
- 14A Quartz-Feldspar Porphyry (QFP)
- 14B Feldspar Porphyry (FP)
- 14C Quartz Porphyry (QP)
- 14D Felsic Dyke
- 14E Pegmatite

13 PORPHYRITIC FELSIC INTRUSIVE (Old – Early)
- 13A Coarse Quartz-Feldspar Porphyry (QFP)
- 13B Fine Quartz-Feldspar Porphyry (QFP)
- 13C Crowded Quartz-Feldspar Porphyry (QFP)
- 13D "Popcorn" Feldspar Porphyry (FP)
- 13E Quartz Porphyry

12 FELSIC TO INTERMEDIATE INTRUSIVES

12A YOUNG (Late) FELSIC TO INTERMEDIATE INTRUSIVES
- 12A1 Alkali Granite
- 12A2 Granite
- 12A3 Granodiorite
- 12A4 Tonalite
- 12A5 Alkali Syenite
- 12A6 Syenite
- 12A7 Monzonite
- 12A8 Monzodiorite

12B OLD (Early) FELSIC TO INTERMEDIATE INTRUSIVES
- 12B1 Alkali Granite
- 12B2 Granite
- 12B3 Granodiorite
- 12B4 Tonalite
- 12B5 Alkali Syenite
- 12B6 Syenite
- 12B7 Monzonite
- 12B8 Monzodiorite

11 INTERMEDIATE TO MAFIC INTRUSIVES

11A YOUNG (Late) INTERMEDIATE TO MAFIC INTRUSIVES
- 11A1 Quartz Diorite
- 11A2 Diorite
- 11A3 Gabbro
- 11A4 Anorthosite

11B OLD (Early) INTERMEDIATE TO MAFIC INTRUSIVES
- 11B1 Quartz Diorite
- 11B2 Diorite
- 11B3 Gabbro
- 11B4 Anorthosite

10 ULTRAMAFIC INTRUSIVES (undifferentiated)

10A YOUNG (Late) ULTRAMAFIC INTRUSIVES
- 10A1 Peridotite
- 10A2 Dunite
- 10A3 Hornblendite
- 10A4 Pyroxenite

10B OLD (Early) ULTRAMAFIC INTRUSIVES
- 10B2 Dunite
- 10B3 Hornblendite
- 10B4 Pyroxenite

9 GNEISSIC ROCKS (Unknown Origin)
- 9A Felsic
- 9B Intermediate
- 9C Mafic

8 CHEMICAL METASEDIMENTS (EXHALITE)

7 IRON FORMATION

6 CLASTIC METASEDIMENTS
- 6A Sandstone
- 6B Argillite\Slate\Shale
- 6C Arkose
- 6D Greywacke
- 6E Conglomerate
- 6F Chert
- 6G Limestone
- 6H Dolomite

5 FELSIC TO INTERMEDIATE METAVOLCANICS (< 5% Mafic)

5A FLOWS (Unsubdivided)
- 5A1 Massive Flows
- 5A2 Banded Flows

5B PYROCLASTICS (unsubdivided)
- 5B1 Ash Tuff – < 2 mm
- 5B2 Lapilli Tuff – 2 to 64 mm
- 5B3 Pyroclastic Breccia – > 64 mm
- 5B4 Crystal Tuff
- 5B5 Volcaniclastic

4 INTERMEDIATE METAVOLCANICS (5% to 15% Mafic)

4A FLOWS (Unsubdivided)
- 4A1 Massive Flow
- 4A2 Banded Flows

4B PYROCLASTICS (unsubdivided)
- 4B1 Ash Tuff – < 2 mm
- 4B2 Lapilli Tuff – 2 to 64 mm
- 4B3 Pyroclastic Breccia – > 64 mm
- 4B4 Crystal Tuff
- 4B5 Volcaniclastic

3 INTERMEDIATE TO MAFIC METAVOLCANICS (> 15% TO 50% Mafic)

3A FLOWS (Unsubdivided)
- 3A1 Massive Flows
- 3A2 Pillowed Flows
- 3A3 Amygdaloidal Flows
- 3A4 Flow Breccia

3B PYROCLASTICS (unsubdivided)
- 3B1 Ash Tuff – < 2 mm
- 3B2 Lapilli Tuff – 2 to 64 mm
- 3B3 Pyroclastic Breccia – > 64 mm
- 3B4 Crystal Tuff
- 3B5 Volcaniclastic

2 MAFIC TO ULTRAMAFIC METAVOLCANICS
- 2A Flow (unsubdivided)
- 2B Massive Flow
- 2C Pillowed Flow
- 2D Amygdaloidal Flow
- 2E Flow Breccia

1 ULTRAMAFIC METAVOLCANICS
- 1A Flow (unsubdivided)
- 1B Massive Flow
- 1C Pillowed Flow
- 1D Amygdaloidal Flow
- 1E Flow Breccia

OVBD Overburden

CONG Casing

FALT Fault

BLCK Blocky Core

PLACER DOME CANADA LIMITED.

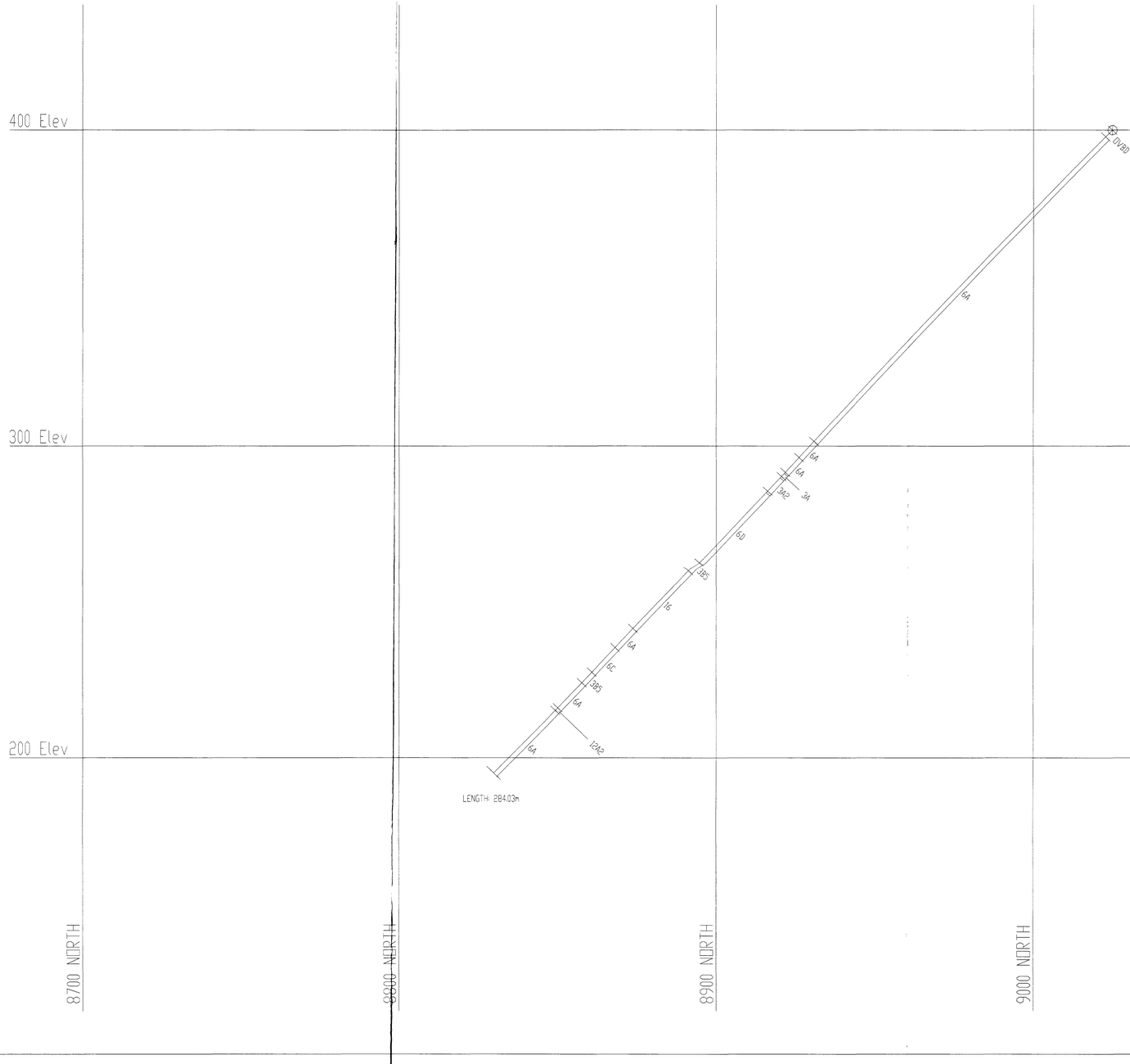
PROJECT NO. 505

WHITE RIVER OPTION
SECTION 214 EAST
(LOOKING WEST)

DATE: DEC. 1995	DRG BY: S. ROACH DRAWN BY: C. Green	DWG.NO. 19
SCALE: 1 : 625	NTS REF.	

WRSEC214.DWG
G:\ACADDWGS\505\

SSM 607768



LEGEND

LITHOLOGIES

17 VEINS

17A YOUNG VEINS (Late - post deformation)
- 17A1 Quartz Vein
- 17A2 Feldspar Vein
- 17A3 Quartz-Feldspar Vein
- 17A4 Carbonate Vein
- 17A5 Quartz-Carbonate Vein
- 17A6 Feldspar-Carbonate Vein
- 17A7 Quartz-Feldspar-Carbonate Vein

17B OLD VEINS (Early - pre-deformation)
- 17B1 Quartz Vein
- 17B2 Feldspar Vein
- 17B3 Quartz-Feldspar Vein
- 17B4 Carbonate Vein
- 17B5 Quartz-Carbonate Vein
- 17B6 Feldspar-Carbonate Vein
- 17B7 Quartz-Feldspar-Carbonate Vein

16 DYKES

16A YOUNG (Late) DYKES
- 16A1 Pegmatite Dyke
- 16A2 Felsic Dyke
- 16A3 Intermediate Dyke
- 16A4 Mafic Dyke (Incl Diabase)

16B OLD (Early) DYKES
- 16B1 Pegmatite Dyke
- 16B2 Felsic Dyke
- 16B3 Intermediate Dyke
- 16B4 Mafic Dyke

15 LAMPROPHYRE

14 PORPHYRITIC FELSIC INTRUSIVE (Young - Late)
- 14A Quartz-Feldspar Porphyry (QFP)
- 14B Feldspar Porphyry (FP)
- 14C Quartz Porphyry (QP)
- 14D Felsic Dyke
- 14E Pegmatite

13 PORPHYRITIC FELSIC INTRUSIVE (Old - Early)
- 13A Coarse Quartz-Feldspar Porphyry (QFP)
- 13B Fine Quartz-Feldspar Porphyry (QFP)
- 13C Crowded Quartz-Feldspar Porphyry (QFP)
- 13D 'Popcorn' Feldspar Porphyry (FP)
- 13E Quartz Porphyry

12 FELSIC TO INTERMEDIATE INTRUSIVES

12A YOUNG (Late) FELSIC TO INTERMEDIATE INTRUSIVES
- 12A1 Alkali Granite
- 12A2 Granite
- 12A3 Granodiorite
- 12A4 Tonalite
- 12A5 Alkali Syenite
- 12A6 Syenite
- 12A7 Monzonite
- 12A8 Monzodiorite

12B OLD (Early) FELSIC TO INTERMEDIATE INTRUSIVES
- 12B1 Alkali Granite
- 12B2 Granite
- 12B3 Granodiorite
- 12B4 Tonalite
- 12B5 Alkali Granite
- 12B6 Syenite
- 12B7 Monzonite
- 12B8 Monzodiorite

11 INTERMEDIATE TO MAFIC INTRUSIVES

11A YOUNG (Late) INTERMEDIATE TO MAFIC INTRUSIVES
- 11A1 Quartz Diorite
- 11A2 Diorite
- 11A3 Gabbro
- 11A4 Anorthosite

11B OLD (Early) INTERMEDIATE TO MAFIC INTRUSIVES
- 11B1 Quartz Diorite
- 11B2 Diorite
- 11B3 Gabbro
- 11B4 Anorthosite

10 ULTRAMAFIC INTRUSIVES (undifferentiated)

10A YOUNG (Late) ULTRAMAFIC INTRUSIVES
- 10A1 Peridotite
- 10A2 Dunite
- 10A3 Hornblendite
- 10A4 Pyroxenite

10B OLD (Early) ULTRAMAFIC INTRUSIVES
- 10B1 Peridotite
- 10B2 Dunite
- 10B3 Hornblendite
- 10B4 Pyroxenite

9 GNEISSIC ROCKS (Unknown Origin)
- 9A Felsic
- 9B Intermediate
- 9C Mafic

8 CHEMICAL METASEDIMENTS (EXHALITE)

7 IRON FORMATION

6 CLASTIC METASEDIMENTS
- 6A Sandstone
- 6B Argillite\Slate\Shale
- 6C Arkose
- 6D Greywacke
- 6E Conglomerate
- 6F Chert
- 6G Limestone
- 6H Dolomite

5 FELSIC TO INTERMEDIATE METAVOLCANICS (< 5% Mafic)

5A FLOWS (unsubdivided)
- 5A1 Massive Flows
- 5A2 Banded Flows

5B PYROCLASTICS (unsubdivided)
- 5B1 Ash Tuff - < 2 mm
- 5B2 Lapilli Tuff - 2 to 64 mm
- 5B3 Pyroclastic Breccia - > 64 mm
- 5B4 Crystal Tuff
- 5B5 Volcaniclastic

4 INTERMEDIATE METAVOLCANICS (5% to 15% Mafic)

4A FLOWS (unsubdivided)
- 4A1 Massive Flow
- 4A2 Banded Flows

4B PYROCLASTICS (unsubdivided)
- 4B1 Ash Tuff - < 2 mm
- 4B2 Lapilli Tuff - 2 to 64 mm
- 4B3 Pyroclastic Breccia - > 64 mm
- 4B4 Crystal Tuff
- 4B5 Volcaniclastic

3 INTERMEDIATE TO MAFIC METAVOLCANICS (> 15% TO 50% Mafic)

3A FLOWS (unsubdivided)
- 3A1 Massive Flows
- 3A2 Pillowed Flows
- 3A3 Amygdaloidal Flows
- 3A4 Flow Breccia

3B PYROCLASTICS (unsubdivided)
- 3B1 Ash Tuff - < 2 mm
- 3B2 Lapilli Tuff - 2 to 64 mm
- 3B3 Pyroclastic Breccia - > 64 mm
- 3B4 Crystal Tuff
- 3B5 Volcaniclastic

2 MAFIC TO ULTRAMAFIC METAVOLCANICS
- 2A Flow (unsubdivided)
- 2B Massive Flow
- 2C Pillowed Flow
- 2D Amygdaloidal Flow
- 2E Flow Breccia

1 ULTRAMAFIC METAVOLCANICS
- 1A Flow (unsubdivided)
- 1B Massive Flow
- 1C Pillowed Flow
- 1D Amygdaloidal Flow
- 1E Flow Breccia

OVBD Overburden

CSNG Casing

FALT Fault

BLCK Blocky Core

0 100 200 300

Metres

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

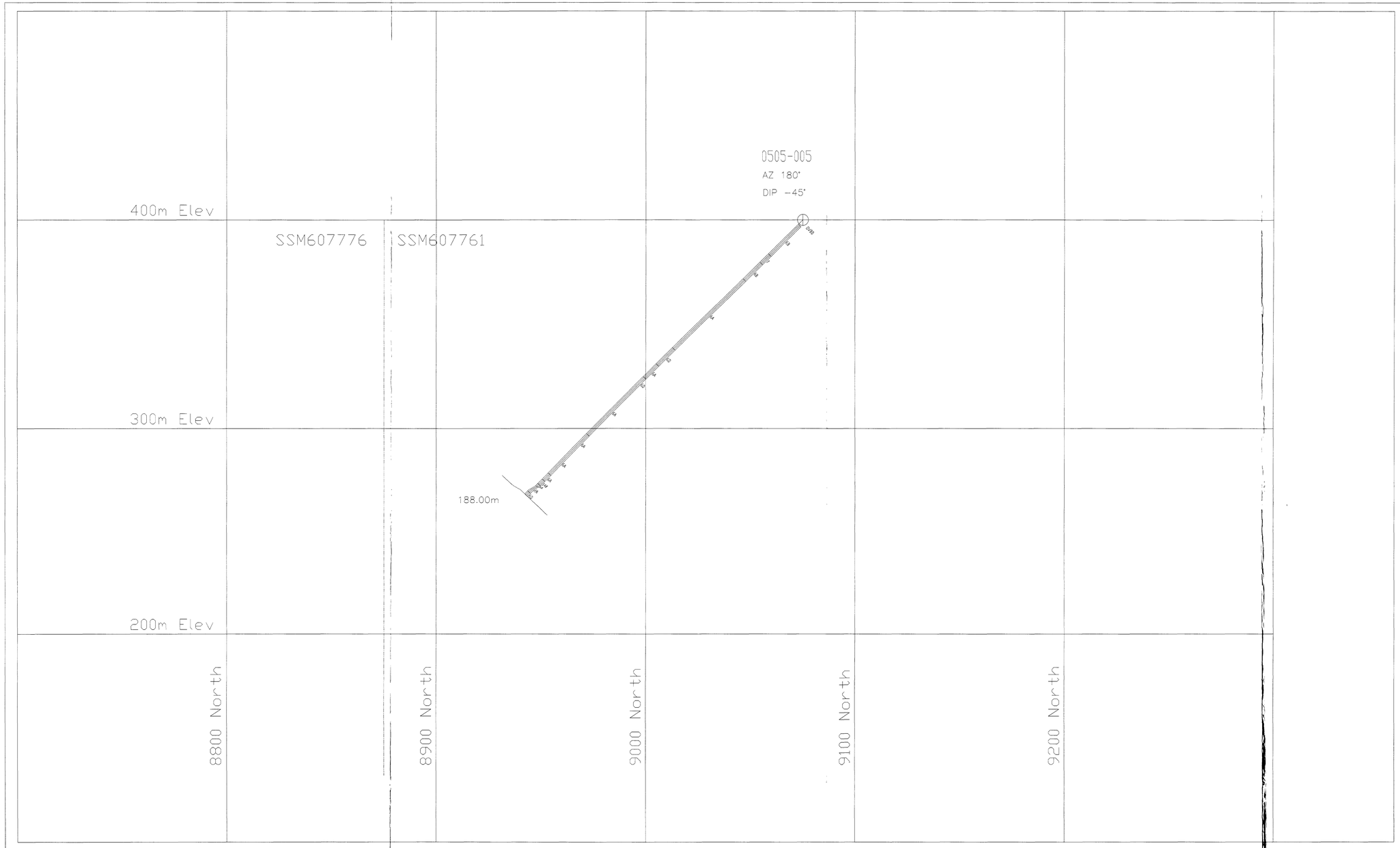
WHITE RIVER OPTION

SECTION 218 EAST

(LOOKING WEST)

DATE: DEC. 1995	ORIG BY: S. ROACH DRAWN BY: C. Green	DWG.NO. 20
SCALE: 1 : 625	NTS REF.	

WRSEC218.DWG
C:\ACADW20\SSR\



LEGEND

LITHOLOGIES

17 VEINS

- 17A YOUNG VEINS (Late - post deformation)
  - 17A1 Quartz Vein
  - 17A2 Feldspar Vein
  - 17A3 Quartz-Feldspar Vein
  - 17A4 Carbonate Vein
  - 17A5 Quartz-Carbonate Vein
  - 17A6 Feldspar-Carbonate Vein
  - 17A7 Quartz-Feldspar-Carbonate Vein
- 17B OLD VEINS (Early - pre-deformation)
  - 17B1 Quartz Vein
  - 17B2 Feldspar Vein
  - 17B3 Quartz-Feldspar Vein
  - 17B4 Carbonate Vein
  - 17B5 Quartz-Carbonate Vein
  - 17B6 Feldspar-Carbonate Vein
  - 17B7 Quartz-Feldspar-Carbonate Vein

16 DYKES

- 16A YOUNG (Late) DYKES
  - 16A1 Pegmatite Dyke
  - 16A2 Felsic Dyke
  - 16A3 Intermediate Dyke
  - 16A4 Mafic Dyke (Not Diabase)
- 16B OLD (Early) DYKES
  - 16B1 Pegmatite Dyke
  - 16B2 Felsic Dyke
  - 16B3 Intermediate Dyke
  - 16B4 Mafic Dyke

15 LAMPROPHYRE

14 PORPHYRITIC FELSIC INTRUSIVE (Young - Late)
- 14A Quartz-Feldspar Porphyry (QFP)
- 14B Feldspar Porphyry (FP)
- 14C Crowded Porphyry (CP)
- 14D Felsic Dyke
- 14E Pegmatite

13 PORPHYRITIC FELSIC INTRUSIVE (Old - Early)
- 13A Coarse Quartz-Feldspar Porphyry (QFP)
- 13B Fine Quartz-Feldspar Porphyry (QFP)
- 13C Crowded Quartz-Feldspar Porphyry (QFP)
- 13D Popcorn Feldspar Porphyry (FP)
- 13E Quartz Porphyry

12 FELSIC TO INTERMEDIATE INTRUSIVES

- 12A YOUNG (Late) FELSIC TO INTERMEDIATE INTRUSIVES
  - 12A1 Alkali Granite
  - 12A2 Granite
  - 12A3 Granodiorite
  - 12A4 Tonalite
  - 12A5 Alkali Syenite
  - 12A6 Syenite
  - 12A7 Monzonite
  - 12A8 Monzodiorite
- 12B OLD (Early) FELSIC TO INTERMEDIATE INTRUSIVES
  - 12B1 Alkali Granite
  - 12B2 Granite
  - 12B3 Granodiorite
  - 12B4 Tonalite
  - 12B5 Alkali Granite
  - 12B6 Syenite
  - 12B7 Monzonite
  - 12B8 Monzodiorite

11 INTERMEDIATE TO MAFIC INTRUSIVES

- 11A YOUNG (Late) INTERMEDIATE TO MAFIC INTRUSIVES
  - 11A1 Quartz Diorite
  - 11A2 Diorite
  - 11A3 Gabbro
  - 11A4 Anorthosite
- 11B OLD (Early) INTERMEDIATE TO MAFIC INTRUSIVES
  - 11B1 Quartz Diorite
  - 11B2 Diorite
  - 11B3 Gabbro
  - 11B4 Anorthosite

10 ULTRAMAFIC INTRUSIVES (undifferentiated)

- 10A YOUNG (Late) ULTRAMAFIC INTRUSIVES
  - 10A1 Peridotite
  - 10A2 Dunite
  - 10A3 Hornblendite
  - 10A4 Pyroxenite
- 10B OLD (Early) ULTRAMAFIC INTRUSIVES
  - 10B1 Peridotite
  - 10B2 Dunite
  - 10B3 Hornblendite
  - 10B4 Pyroxenite

9 GNEISSIC ROCKS (Unknown Origin)
- 9A Felsic
- 9B Intermediate
- 9C Mafic

8 CHEMICAL METASEDIMENTS (EXHALITE)

7 IRON FORMATION

6 CLASTIC METASEDIMENTS
- 6A Sandstone
- 6B Argillite\Slate\Shale
- 6C Wacke
- 6D Greywacke
- 6E Conglomerate
- 6F Chert
- 6G Limestone
- 6H Dolomite

5 FELSIC TO INTERMEDIATE METAVOLCANICS (< 5% Mafic)

- 5A FLOWS (unsubdivided)
  - 5A1 Massive Flows
  - 5A2 Banded Flows
- 5B PYROCLASTICS (unsubdivided)
  - 5B1 Ash Tuff < 2 mm
  - 5B2 Lapilli Tuff > 2 to 64 mm
  - 5B3 Pyroclastic Breccia > > 64 mm
  - 5B4 Crystal Tuff
  - 5B5 Volcaniclastic

4 INTERMEDIATE METAVOLCANICS (5% to 15% Mafic)

- 4A FLOWS (unsubdivided)
  - 4A1 Massive Flow
  - 4A2 Banded Flows
- 4B PYROCLASTICS (unsubdivided)
  - 4B1 Ash Tuff < 2 mm
  - 4B2 Lapilli Tuff > 2 to 64 mm
  - 4B3 Pyroclastic Breccia > > 64 mm
  - 4B4 Crystal Tuff
  - 4B5 Volcaniclastic

3 INTERMEDIATE TO MAFIC METAVOLCANICS (> 15% TO 50% Mafic)

- 3A FLOWS (unsubdivided)
  - 3A1 Massive Flows
  - 3A2 Pillowed Flows
  - 3A3 Amygdaloidal Flows
  - 3A4 Flow Breccia
- 3B PYROCLASTICS (unsubdivided)
  - 3B1 Ash Tuff < 2 mm
  - 3B2 Lapilli Tuff > 2 to 64 mm
  - 3B3 Pyroclastic Breccia > > 64 mm
  - 3B4 Crystal Tuff
  - 3B5 Volcaniclastic

2 MAFIC TO ULTRAMAFIC METAVOLCANICS
- 2A Flow (unsubdivided)
- 2B Massive Flow
- 2C Pillowed Flow
- 2D Amygdaloidal Flow
- 2E Flow Breccia

1 ULTRAMAFIC METAVOLCANICS
- 1A Flow (unsubdivided)
- 1B Massive Flow
- 1C Pillowed Flow
- 1D Amygdaloidal Flow
- 1E Flow Breccia

OVBD Overburden

CSNG Casing

FALT Fault

BLCK Blocky Core

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER OPTION
SECTION 191 EAST
(LOOKING WEST)

DATE: DEC. 1995	ORIG BY: S. ROACH DRAWN BY: P. Adams	DWG NO. 21
SCALE: 1 : 625	NTS REF.	

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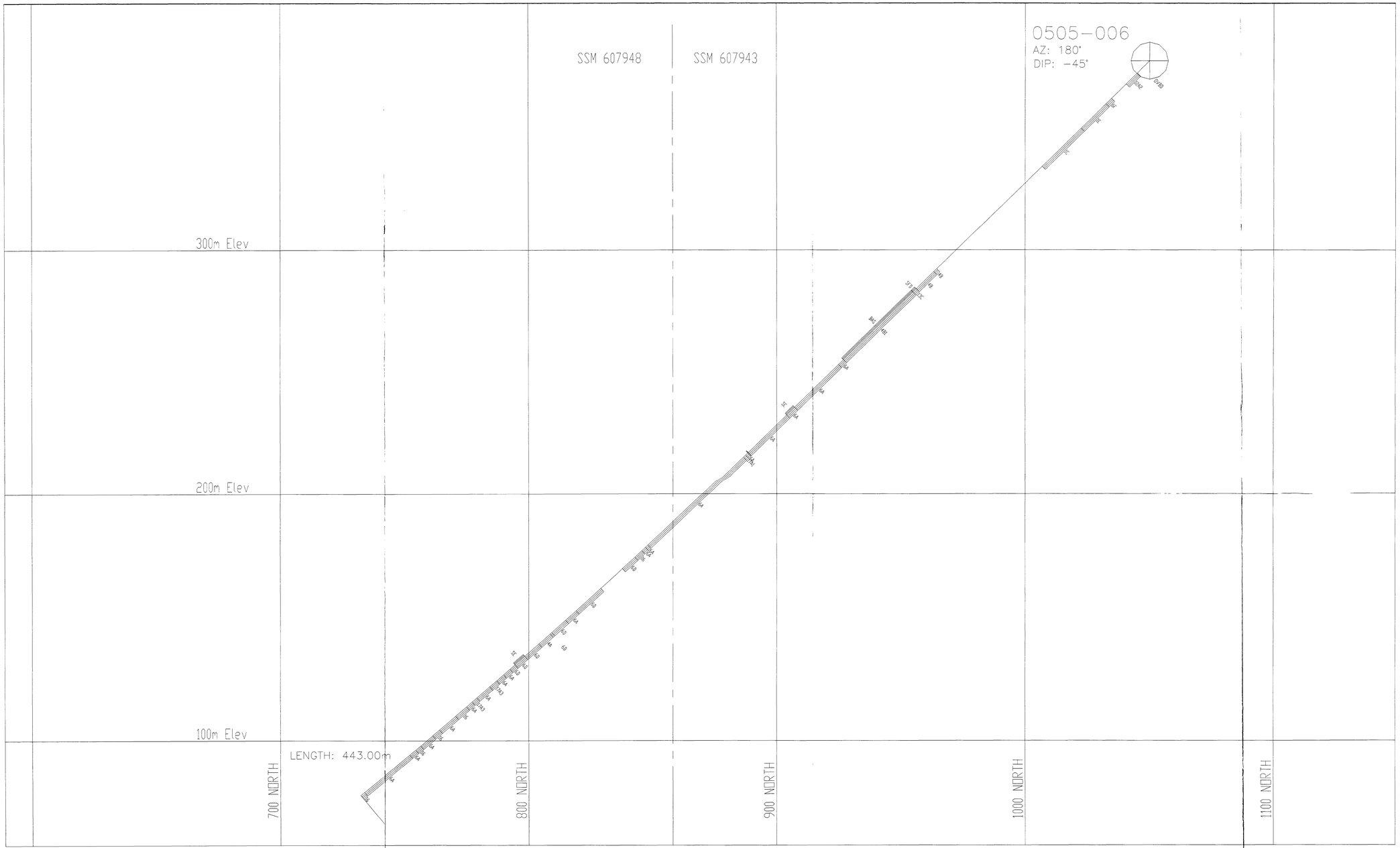

LEGEND

LITHOLOGIES

17 VEINS

- 17A YOUNG VEINS (Late – post deformation)
  - 17A1 Quartz Vein
  - 17A2 Feldspar Vein
  - 17A3 Quartz-Feldspar Vein
  - 17A4 Carbonate Vein
  - 17A5 Quartz-Carbonate Vein
  - 17A6 Feldspar-Carbonate Vein
  - 17A7 Quartz-Feldspar-Carbonate Vein
- 17B OLD VEINS (Early – pre-deformation)
  - 17B1 Quartz Vein
  - 17B2 Feldspar Vein
  - 17B3 Quartz-Feldspar Vein
  - 17B4 Carbonate Vein
  - 17B5 Quartz-Carbonate Vein
  - 17B6 Feldspar-Carbonate Vein
  - 17B7 Quartz-Feldspar-Carbonate Vein

16 DYKES

- 16A YOUNG (Late) DYKES
  - 16A1 Pegmatite Dyke
  - 16A2 Felsic Dyke
  - 16A3 Intermediate Dyke
  - 16A4 Mafic Dyke (Incl Diabase)
- 16B OLD (Early) DYKES
  - 16B1 Pegmatite Dyke
  - 16B2 Felsic Dyke
  - 16B3 Intermediate Dyke
  - 16B4 Mafic Dyke

15 LAMPROPHYRE

14 PORPHYRITIC FELSIC INTRUSIVE (Young – Late)
- 14A Coarse Quartz-Feldspar Porphyry (QFP)
- 14B Feldspar Porphyry (FP)
- 14C Quartz Porphyry (QP)
- 14D Felsic Dyke
- 14E Pegmatite

13 PORPHYRITIC FELSIC INTRUSIVE (Old – Early)
- 13A Coarse Quartz-Feldspar Porphyry (QFP)
- 13B Fine Quartz-Feldspar Porphyry (QFP)
- 13C Crowded Quartz-Feldspar Porphyry (QFP)
- 13D Crowded Feldspar Porphyry (FP)
- 13E Quartz Porphyry

12 FELSIC TO INTERMEDIATE INTRUSIVES

- 12A YOUNG (Late) FELSIC TO INTERMEDIATE INTRUSIVES
  - 12A1 Alaskite Granite
  - 12A2 Granite
  - 12A3 Granodiorite
  - 12A4 Tonalite
  - 12A5 Alkali Syenite
  - 12A6 Syenite
  - 12A7 Monzonite
  - 12A8 Monzodiorite
- 12B OLD (Early) FELSIC TO INTERMEDIATE INTRUSIVES
  - 12B1 Alaskite Granite
  - 12B2 Granite
  - 12B3 Granodiorite
  - 12B4 Tonalite
  - 12B5 Alkali Syenite
  - 12B6 Syenite
  - 12B7 Monzonite
  - 12B8 Monzodiorite

11 INTERMEDIATE TO MAFIC INTRUSIVES

- 11A YOUNG (Late) INTERMEDIATE TO MAFIC INTRUSIVES
  - 11A1 Quartz Diorite
  - 11A2 Diorite
  - 11A3 Gabbro
  - 11A4 Anorthosite
- 11B OLD (Early) INTERMEDIATE TO MAFIC INTRUSIVES
  - 11B1 Quartz Diorite
  - 11B2 Diorite
  - 11B3 Gabbro
  - 11B4 Anorthosite

10 ULTRAMAFIC INTRUSIVES (undifferentiated)

- 10A YOUNG (Late) ULTRAMAFIC INTRUSIVES
  - 10A1 Peridotite
  - 10A2 Dunite
  - 10A3 Hornblendite
  - 10A4 Pyroxenite
- 10B OLD (Early) ULTRAMAFIC INTRUSIVES
  - 10B1 Peridotite
  - 10B2 Dunite
  - 10B3 Hornblendite
  - 10B4 Pyroxenite

9 GNEISSIC ROCKS (Unknown Origin)
- 9A Felsic
- 9B Intermediate
- 9C Mafic

8 CHEMICAL METASEDIMENTS (EXHALITE)

7 IRON FORMATION

6 CLASTIC METASEDIMENTS
- 6A Sandstone
- 6B Argillite\Slate\Shale
- 6C Greywacke
- 6D Conglomerate
- 6F Chert
- 6G Limestone
- 6H Dolomite

5 FELSIC TO INTERMEDIATE METAVOLCANICS (< 5% Mafic)

- 5A FLOWS (unsubdivided)
  - 5A1 Massive Flows
  - 5A2 Banded Flows
- 5B PYROCLASTICS (unsubdivided)
  - 5B1 Ash Tuff – < 2 mm
  - 5B2 Lapilli Tuff – 2 to 64 mm
  - 5B3 Pyroclastic Breccia – > 64 mm
  - 5B4 Crystal Tuff
  - 5B5 Volcaniclastic

4 INTERMEDIATE METAVOLCANICS (5% to 15% Mafic)

- 4A FLOWS (unsubdivided)
  - 4A1 Massive Flow
  - 4A2 Banded Flows
- 4B PYROCLASTICS (unsubdivided)
  - 4B1 Ash Tuff – < 2 mm
  - 4B2 Lapilli Tuff – 2 to 64 mm
  - 4B3 Pyroclastic Breccia – > 64 mm
  - 4B4 Crystal Tuff
  - 4B5 Volcaniclastic

3 INTERMEDIATE TO MAFIC METAVOLCANICS (> 15% TO 50% Mafic)

- 3A FLOWS (unsubdivided)
  - 3A1 Massive Flows
  - 3A2 Pillowed Flows
  - 3A3 Amygdaloidal Flows
  - 3A4 Flow Breccia
- 3B PYROCLASTICS (unsubdivided)
  - 3B1 Ash Tuff – < 2 mm
  - 3B2 Lapilli Tuff – 2 to 64 mm
  - 3B3 Pyroclastic Breccia – > 64 mm
  - 3B4 Crystal Tuff
  - 3B5 Volcaniclastic

2 MAFIC TO ULTRAMAFIC METAVOLCANICS
- 2A Flow (unsubdivided)
- 2B Massive Flow
- 2C Pillowed Flow
- 2D Amygdaloidal Flow
- 2E Flow Breccia

1 ULTRAMAFIC METAVOLCANICS
- 1A Flow (unsubdivided)
- 1B Massive Flow
- 1C Pillowed Flow
- 1D Amygdaloidal Flow
- 1E Flow Breccia

OVBD Overburden

CSNG Casing

FALT Fault

BLCK Blocky Core

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER OPTION
SECTION 231 EAST
(LOOKING WEST)

DATE: DEC. 1995	ORIG BY: S. BEACH DRAWN BY: C. Green	DWG.NO. 22
SCALE: 1 : 625	NTS REF	

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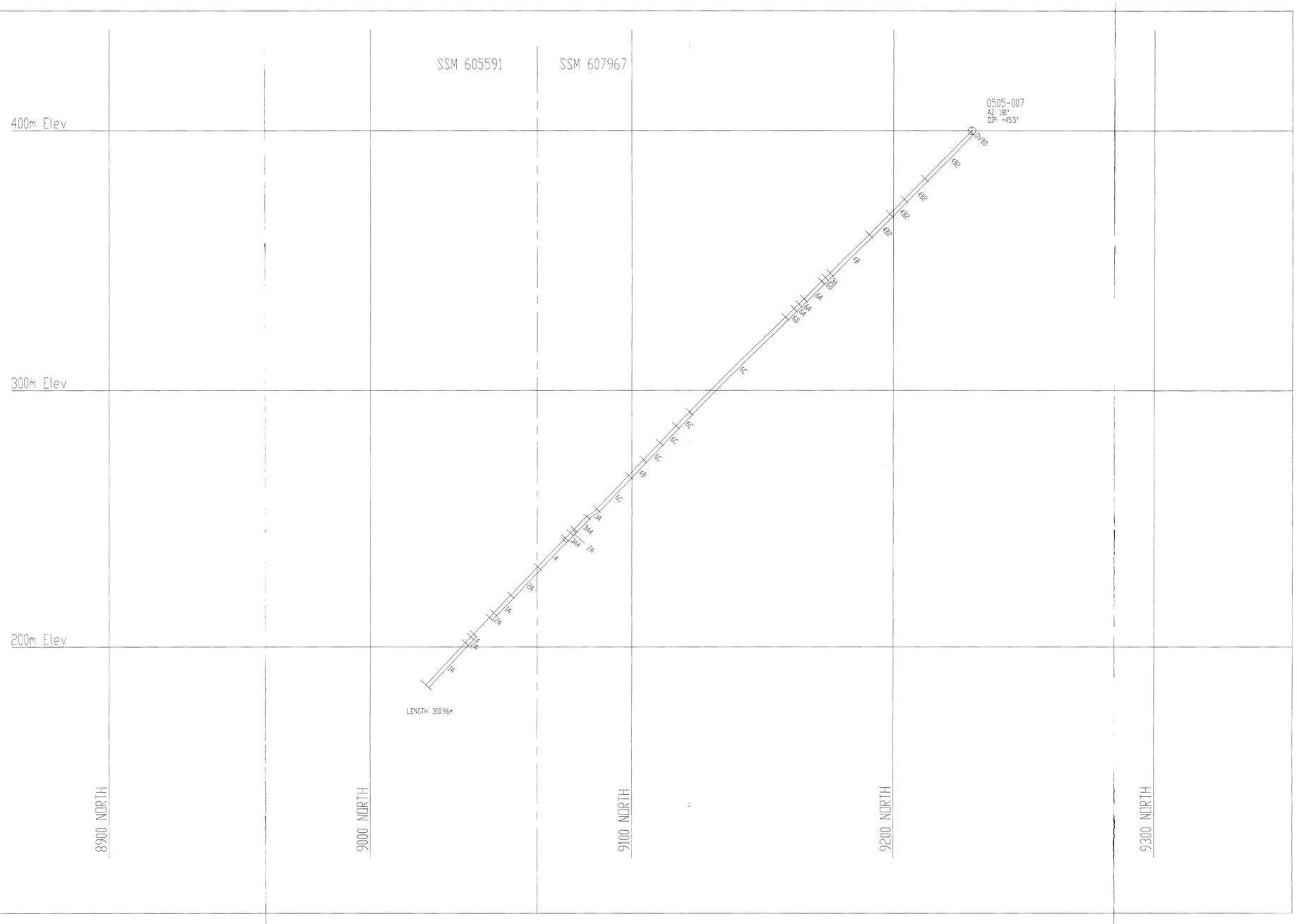

LEGEND

LITHOLOGIES

17 VEINS

17A YOUNG VEINS (Late - post deformation)
17A1 Quartz Vein
17A2 Feldspar Vein
17A3 Quartz-Feldspar Vein
17A4 Carbonate Vein
17A5 Quartz-Carbonate Vein
17A6 Feldspar-Carbonate Vein
17A7 Quartz-Feldspar-Carbonate Vein

17B OLD VEINS (Early - pre-deformation)
17B1 Quartz Vein
17B2 Feldspar Vein
17B3 Quartz-Feldspar Vein
17B4 Carbonate Vein
17B5 Quartz-Carbonate Vein
17B6 Feldspar-Carbonate Vein
17B7 Quartz-Feldspar-Carbonate Vein

16 DYKES

16A YOUNG (Late) DYKES
16A1 Pegmatite Dyke
16A2 Felsic Dyke
16A3 Intermediate Dyke
16A4 Mafic Dyke (incl Diabase)

16B OLD (Early) DYKES
16B1 Pegmatite Dyke
16B2 Felsic Dyke
16B3 Intermediate Dyke
16B4 Mafic Dyke

15 LAMPROPHYRE

14 PORPHYRITIC FELSIC INTRUSIVE (Young - Late)
14A Quartz-Feldspar Porphyry (QFP)
14B Feldspar Porphyry (FP)
14C Quartz Porphyry (QP)
14D Felsic Dyke
14E Pegmatite

13 PORPHYRITIC FELSIC INTRUSIVE (Old - Early)
13A Coarse Quartz-Feldspar Porphyry (QFP)
13B Fine Quartz-Feldspar Porphyry (QFP)
13C Crowded Quartz-Feldspar Porphyry (QFP)
13D 'Popcorn' Feldspar Porphyry (FP)
13E Quartz Porphyry

12 FELSIC TO INTERMEDIATE INTRUSIVES

12A YOUNG (Late) FELSIC TO INTERMEDIATE INTRUSIVES
12A1 Alkali Granite
12A2 Granite
12A3 Granodiorite
12A4 Tonalite
12A5 Alkali Syenite
12A6 Syenite
12A7 Monzonite
12A8 Monzodiorite

12B OLD (Early) FELSIC TO INTERMEDIATE INTRUSIVES
12B1 Alkali Granite
12B2 Granite
12B3 Granodiorite
12B4 Tonalite
12B5 Alkali Granite
12B6 Syenite
12B7 Monzonite
12B8 Monzodiorite

11 INTERMEDIATE TO MAFIC INTRUSIVES

11A YOUNG (Late) INTERMEDIATE TO MAFIC INTRUSIVES
11A1 Quartz Diorite
11A2 Diorite
11A3 Gabbro
11A4 Anorthosite

11B OLD (Early) INTERMEDIATE TO MAFIC INTRUSIVES
11B1 Quartz Diorite
11B2 Diorite
11B3 Gabbro
11B4 Anorthosite

10 ULTRAMAFIC INTRUSIVES (undifferentiated)

10A YOUNG (Late) ULTRAMAFIC INTRUSIVES
10A1 Peridotite
10A2 Dunite
10A3 Hornblendite
10A4 Pyroxenite

10B OLD (Early) ULTRAMAFIC INTRUSIVES
10B1 Peridotite
10B3 Hornblendite
10B4 Pyroxenite

9 GNEISSIC ROCKS (Unknown Origin)
9A Felsic
9B Intermediate
9C Mafic

8 CHEMICAL METASEDIMENTS (EXHALITE)

7 IRON FORMATION

6 CLASTIC METASEDIMENTS
6A Sandstone
6B Argillite\Slate\Shale
6C Arkose
6D Greywacke
6E Conglomerate
6F Chert
6G Limestone
6H Dolomite

5 FELSIC TO INTERMEDIATE METAVOLCANICS (< 5% Mafic)

5A FLOWS (unsubdivided)
5A1 Massive Flows
5A2 Banded Flows

5B PYROCLASTICS (unsubdivided)
5B1 Ash Tuff - < 2 mm
5B2 Lapilli Tuff - > 2 to 64 mm
5B3 Pyroclastic Breccia - > 64 mm
5B4 Crystal Tuff
5B5 Volcaniclastic

4 INTERMEDIATE METAVOLCANICS (5% to 15% Mafic)

4A FLOWS (unsubdivided)
4A1 Massive Flow
4A2 Banded Flows

4B PYROCLASTICS (unsubdivided)
4B1 Ash Tuff - < 2 mm
4B2 Lapilli Tuff - > 2 to 64 mm
4B3 Pyroclastic Breccia - > 64 mm
4B4 Crystal Tuff
4B5 Volcaniclastic

3 INTERMEDIATE TO MAFIC METAVOLCANICS (> 15% TO 50% Mafic)
3A FLOWS (unsubdivided)
3A1 Massive Flows
3A2 Pillowed Flows
3A3 Amygdaloidal Flows
3A4 Flow Breccia

3B PYROCLASTICS (unsubdivided)
3B1 Ash Tuff - < 2 mm
3B2 Lapilli Tuff - > 2 to 64 mm
3B3 Pyroclastic Breccia - > 64 mm
3B4 Crystal Tuff
3B5 Volcaniclastic

2 MAFIC TO ULTRAMAFIC METAVOLCANICS
2A Flow (unsubdivided)
2B Massive Flow
2C Pillowed Flow
2D Amygdaloidal Flow
2E Flow Breccia

1 ULTRAMAFIC METAVOLCANICS
1A Flow (unsubdivided)
1B Massive Flow
1C Pillowed Flow
1D Amygdaloidal Flow
1E Flow Breccia

OVBD Overburden
CSNG Casing
FALT Fault
BLCK Blocky Core

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER OPTION

SECTION 244 EAST

(LOOKING WEST)

DATE: DEC. 1995	DRG BY: S. ROACH DRAWN BY: C. Green	DWG.NO. 23
SCALE. 1 : 625	NTS REF.	

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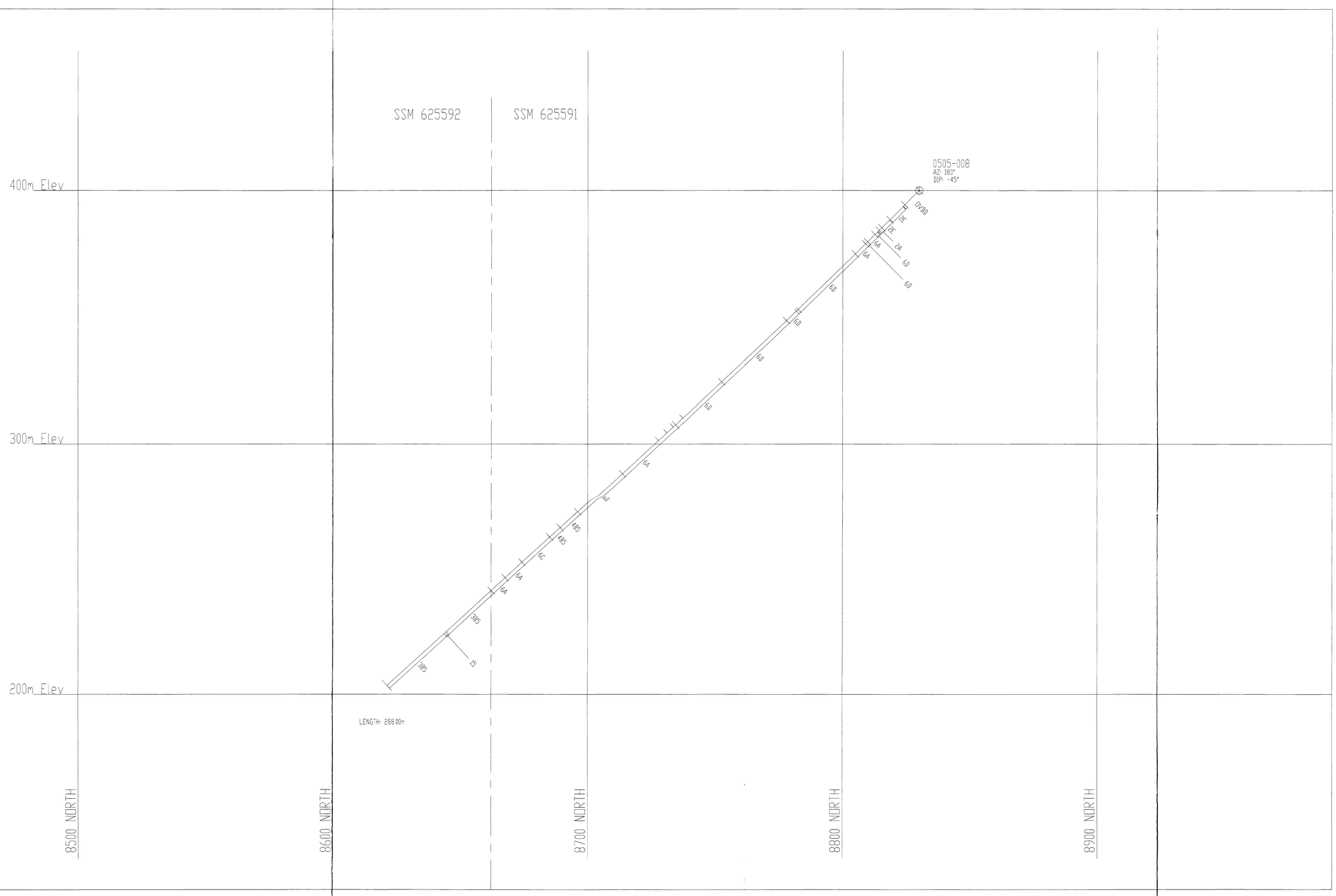

LEGEND

LITHOLOGES

17 VEINS

- 17A YOUNG VEINS (Late – post deformation)
  - 17A1 Quartz Vein
  - 17A2 Feldspar Vein
  - 17A3 Quartz-Feldspar Vein
  - 17A4 Carbonate Vein
  - 17A5 Quartz-Carbonate Vein
  - 17A6 Feldspar-Carbonate Vein
  - 17A7 Quartz-Feldspar-Carbonate Vein
- 17B OLD VEINS (Early – pre-deformation)
  - 17B1 Quartz Vein
  - 17B2 Feldspar Vein
  - 17B3 Quartz-Feldspar Vein
  - 17B4 Carbonate Vein
  - 17B5 Quartz-Carbonate Vein
  - 17B6 Feldspar-Carbonate Vein
  - 17B7 Quartz-Feldspar-Carbonate Vein

16 DYKES

- 16A YOUNG (Late) DYKES
  - 16A1 Pegmatite Dyke
  - 16A2 Felsic Dyke
  - 16A3 Intermediate Dyke
  - 16A4 Mafic Dyke (Incl Diabase)
- 16B OLD (Early) DYKES
  - 16B1 Pegmatite Dyke
  - 16B2 Felsic Dyke
  - 16B3 Intermediate Dyke
  - 16B4 Mafic Dyke

15 LAMPROPHYRE

14 PORPHYRITIC FELSIC INTRUSIVE (Young – Late)
- 14A Quartz-Feldspar Porphyry (QFP)
- 14B Feldspar Porphyry (FP)
- 14C Quartz Porphyry (QP)
- 14D Felsic Dyke
- 14E Pegmatite

13 PORPHYRITIC FELSIC INTRUSIVE (Old – Early)
- 13A Coarse Quartz-Feldspar Porphyry (QFP)
- 13B Fine Quartz-Feldspar Porphyry (QFP)
- 13C Crowded Quartz-Feldspar Porphyry (QFP)
- 13D 'Popcorn' Feldspar Porphyry (FP)
- 13E Quartz Porphyry

12 FELSIC TO INTERMEDIATE INTRUSIVES

- 12A YOUNG (Late) FELSIC TO INTERMEDIATE INTRUSIVES
  - 12A1 Alaskite Granite
  - 12A2 Granite
  - 12A3 Granodiorite
  - 12A4 Tonalite
  - 12A5 Alkali Syenite
  - 12A6 Syenite
  - 12A7 Monzonite
  - 12A8 Monzodiorite
- 12B OLD (Early) FELSIC TO INTERMEDIATE INTRUSIVES
  - 12B1 Alkali Granite
  - 12B2 Granite
  - 12B3 Granodiorite
  - 12B4 Tonalite
  - 12B5 Alkali Granite
  - 12B6 Syenite
  - 12B7 Monzonite
  - 12B8 Monzodiorite

11 INTERMEDIATE TO MAFIC INTRUSIVES

- 11A YOUNG (Late) INTERMEDIATE TO MAFIC INTRUSIVES
  - 11A1 Quartz Diorite
  - 11A2 Diorite
  - 11A3 Gabbro
  - 11A4 Anorthosite
- 11B OLD (Early) INTERMEDIATE TO MAFIC INTRUSIVES
  - 11B1 Quartz Diorite
  - 11B2 Diorite
  - 11B3 Gabbro
  - 11B4 Anorthosite

10 ULTRAMAFIC INTRUSIVES (undifferentiated)

- 10A YOUNG (Late) ULTRAMAFIC INTRUSIVES
  - 10A1 Peridotite
  - 10A2 Dunite
  - 10A3 Hornblendite
  - 10A4 Pyroxenite
- 10B OLD (Early) ULTRAMAFIC INTRUSIVES
  - 10B1 Peridotite
  - 10B2 Dunite
  - 10B3 Hornblendite
  - 10B4 Pyroxenite

9 GNEISSIC ROCKS (Unknown Origin)
- 9A Felsic
- 9B Intermediate
- 9C Mafic

8 CHEMICAL METASEDIMENTS (EXHALITE)

7 IRON FORMATION

6 CLASTIC METASEDIMENTS
- 6A Sandstone
- 6B Argillite\Slate\Shale
- 6C Wacke
- 6D Greywacke
- 6E Conglomerate
- 6F Chert
- 6G Limestone
- 6H Dolomite

5 FELSIC TO INTERMEDIATE METAVOLCANICS (< 5% Mafic)

- 5A FLOWS (unsubdivided)
  - 5A1 Massive Flows
  - 5A2 Banded Flows
- 5B PYROCLASTICS (unsubdivided)
  - 5B1 Ash Tuff – < 2 mm
  - 5B2 Lapilli Tuff – 2 to 64 mm
  - 5B3 Pyroclastic Breccia – > 64 mm
  - 5B4 Crystal Tuff
  - 5B5 Volcaniclastic

4 INTERMEDIATE METAVOLCANICS (5% to 15% Mafic)

- 4A FLOWS (unsubdivided)
  - 4A1 Massive Flow
  - 4A2 Banded Flows
- 4B PYROCLASTICS (unsubdivided)
  - 4B1 Ash Tuff – < 2 mm
  - 4B2 Lapilli Tuff – 2 to 64 mm
  - 4B3 Pyroclastic Breccia – > 64 mm
  - 4B4 Crystal Tuff
  - 4B5 Volcaniclastic

3 INTERMEDIATE TO MAFIC METAVOLCANICS (> 15% TO 50% Mafic)

- 3A FLOWS (unsubdivided)
  - 3A1 Massive Flows
  - 3A2 Pillowed Flows
  - 3A3 Amygdaloidal Flows
  - 3A4 Flow Breccia
- 3B PYROCLASTICS (unsubdivided)
  - 3B1 Ash Tuff – < 2 mm
  - 3B2 Lapilli Tuff – 2 to 64 mm
  - 3B3 Pyroclastic Breccia – > 64 mm
  - 3B4 Crystal Tuff
  - 3B5 Volcaniclastic

2 MAFIC TO ULTRAMAFIC METAVOLCANICS
- 2A Flow (unsubdivided)
- 2B Massive Flow
- 2C Pillowed Flow
- 2D Amygdaloidal Flow
- 2E Flow Breccia

1 ULTRAMAFIC METAVOLCANICS
- 1A Flow (unsubdivided)
- 1B Massive Flow
- 1C Pillowed Flow
- 1D Amygdaloidal Flow
- 1E Flow Breccia

OVBD Overburden

CSNG Casing

FALT Fault

BLCK Blocky Core

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER OPTION

SECTION 245 EAST

(LOOKING WEST)

DATE: DEC. 1995	ORIG BY: S. ROACH DRAWN BY: C. Green	DWG.NO. 24
SCALE: 1 : 625	NTS REF.	

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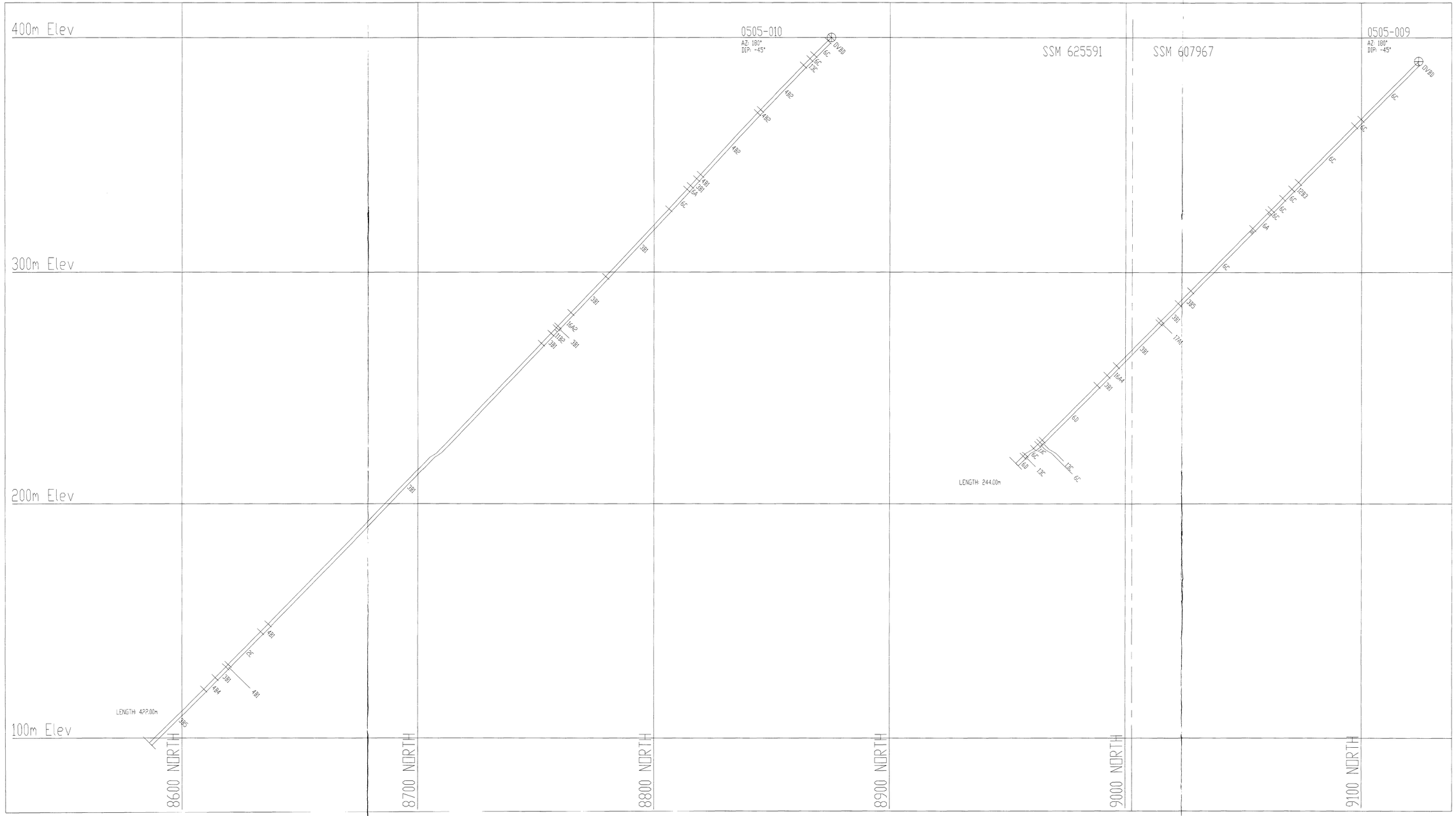

LEGEND

LITHOLOGIES

17 VEINS

17A YOUNG VEINS (Late - post deformation)
17A1 Barren Vein
17A2 Sulphide Vein
17A3 Quartz-Feldspar Vein
17A4 Feldspar Vein
17A5 Quartz-Carbonate Vein
17A6 Feldspar-Carbonate Vein
17A7 Quartz-Feldspar-Carbonate Vein

17B OLD VEINS (Early - pre-deformation)
17B1 Barren Vein
17B2 Feldspar Vein
17B3 Quartz-Feldspar Vein
17B4 Sulphide Vein
17B5 Quartz-Carbonate Vein
17B6 Feldspar-Carbonate Vein
17B7 Quartz-Feldspar-Carbonate Vein

16 DYKES

16A YOUNG (Late) DYKES
16A1 Aplite Dyke
16A2 Felsic Dyke
16A3 Intermediate Dyke
16A4 Lamprophyre (Minette Dykes)

16B OLD (Early) DYKES
16B1 Pegmatite Dyke
16B2 Felsic Dyke
16B3 Intermediate Dyke
16B4 Mafic Dyke

15 LAMPROPHYRE

14 PORPHYRITIC FELSIC INTRUSIVE (Young — Late)
14A Quartz-Feldspar Porphyry (QFP)
14B Feldspar Porphyry (FP)
14C Quartz Porphyry (QP)
14D Felsic Dyke
14E Pegmatite

13 PORPHYRITIC FELSIC INTRUSIVE (Old — Early)
13A Coarse Quartz-Feldspar Porphyry (QFP)
13B Fine Quartz-Feldspar Porphyry (QFP)
13C Coarse Feldspar Porphyry (FP) (QFP)
13D Medium Feldspar Porphyry (FP)
13E Quartz Porphyry

12 FELSIC TO INTERMEDIATE INTRUSIVES

12A YOUNG (Late) FELSIC TO INTERMEDIATE INTRUSIVES
12A1 Aplitic Granite
12A2 Granite
12A3 Granodiorite
12A4 Tonalite
12A5 Feldspar Granite
12A6 Syenite
12A7 Monzonite
12A8 Monzodiorite

12B OLD (Early) FELSIC TO INTERMEDIATE INTRUSIVES
12B1 Aplitic Granite
12B2 Granite
12B3 Granodiorite
12B4 Tonalite
12B5 Feldspar Granite
12B6 Syenite
12B7 Monzonite
12B8 Monzodiorite

11 INTERMEDIATE TO MAFIC INTRUSIVES

11A YOUNG (Late) INTERMEDIATE TO MAFIC INTRUSIVES
11A1 Diorite
11A2 Gabbro
11A3 Gabbro
11A4 Monzodiorite

11B OLD (Early) INTERMEDIATE TO MAFIC INTRUSIVES
11B1 Diorite
11B2 Gabbro
11B3 Gabbro
11B4 Monzodiorite

10 ULTRAMAFIC INTRUSIVES (undifferentiated)

10A YOUNG (Late) ULTRAMAFIC INTRUSIVES
10A1 Peridotite
10A2 Dunite
10A3 Hornblendite
10A4 Monzodiorite

10B OLD (Early) ULTRAMAFIC INTRUSIVES
10B1 Peridotite
10B2 Dunite
10B3 Hornblendite
10B4 Pyroxenite

9 UNMASIC ROCKS (Unknown Origin)
9A Tectonite
9B Mylonite
9C Mafic

8 CHEMICAL METASEDIMENTS (EXHALITE)

7 IRON FORMATION

6 CLASTIC METASEDIMENTS
6A Wacke (Greywacke)
6B Argillite (Mudstone)
6C Arkose
6D Conglomerate
6E Conglomerate
6F Chert
6G Limestone
6H Dolomite

5 FELSIC TO INTERMEDIATE METAVOLCANICS (< 5% Mafic)

5A FLOWS (Lithofacies)
5A1 Massive Flows
5A2 Banded Flows

5B PYROCLASTICS (Lithofacies)
5B1 Ash Tuff - < 2 mm
5B2 Lapilli Tuff - 2 to 64 mm
5B3 Pyroclastic Breccia - > 64 mm
5B4 Crystal Tuff
5B5 Volcaniclastic

4 INTERMEDIATE METAVOLCANICS (5% to 15% Mafic)

4A FLOWS (Lithofacies)
4A1 Massive Flows
4A2 Banded Flows

4B PYROCLASTICS (Lithofacies)
4B1 Ash Tuff - < 2 mm
4B2 Lapilli Tuff - 2 to 64 mm
4B3 Pyroclastic Breccia - > 64 mm
4B4 Crystal Tuff
4B5 Volcaniclastic

3 INTERMEDIATE TO MAFIC METAVOLCANICS (> 15% TO 50% Mafic)

3A FLOWS (Lithofacies)
3A1 Massive Flows
3A2 Pillowed Flows
3A3 Brecciated Flows
3A4 Flow Breccia

3B PYROCLASTICS (Lithofacies)
3B1 Ash Tuff - < 2 mm
3B2 Lapilli Tuff - 2 to 64 mm
3B3 Pyroclastic Breccia - > 64 mm
3B4 Crystal Tuff
3B5 Volcaniclastic

2 MAFIC TO ULTRAMAFIC METAVOLCANICS
2A Massive Flow
2B Massive Flow
2C Pillowed Flow
2D Brecciated Flow
2E Flow Breccia

1 ULTRAMAFIC METAVOLCANICS
1A Flow (undifferentiated)
1B Massive Flow
1C Pillowed Flow
1D Amygdaloidal Flow
1E Flow Breccia

OVBD Overburden

CONG Casing

FAULT Fault

BLCK Blocky Core

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER OPTION
SECTION 252 EAST
(LOOKING WEST)

DATE: DEC. 1995	ORIG. BY: S. ROACH DRAWN BY: C. Green	DWG.NO. 25
SCALE: 1 : 625	NTS REF.	

WRSEC252.DWG
G:\ACADDWGS\505\

400m Elev

300m Elev

200m Elev

100m Elev

1100 N

1200 N

1300 N

1400 N

1500 N

0505-011
AZ: 180°
DIP: -45°

SSM 625792

0 100 200 300
Metres

LEGEND

LITHOLOGIES

17 VEINS

17A YOUNG VEINS (Late – post deformation)
17A1 Quartz Vein
17A2 Feldspar Vein
17A3 Quartz-Feldspar Vein
17A4 Carbonate Vein
17A5 Quartz-Carbonate Vein
17A6 Feldspar-Carbonate Vein
17A7 Quartz-Feldspar-Carbonate Vein

17B OLD VEINS (Early – pre-deformation)
17B1 Quartz Vein
17B2 Feldspar Vein
17B3 Quartz-Feldspar Vein
17B4 Carbonate Vein
17B5 Quartz-Carbonate Vein
17B6 Feldspar-Carbonate Vein
17B7 Quartz-Feldspar-Carbonate Vein

16 DYKES

16A YOUNG (Late) DYKES
16A1 Pegmatite Dyke
16A2 Felsic Dyke
16A3 Intermediate Dyke
16A4 Mafic Dyke (Incl Diabase)

16B OLD (Early) DYKES
16B1 Pegmatite Dyke
16B2 Felsic Dyke
16B3 Intermediate Dyke
16B4 Mafic Dyke

15 LAMPROPHYRE

14 PORPHYRITIC FELSIC INTRUSIVE (Young – Late)
14A Quartz-Feldspar Porphyry (QFP)
14B Feldspar Porphyry (FP)
14C Quartz Porphyry (QP)
14D Felsic Dyke
14E Pegmatite

13 PORPHYRITIC FELSIC INTRUSIVE (Old – Early)
13A Coarse Quartz-Feldspar Porphyry (QFP)
13B Fine Quartz-Feldspar Porphyry (QFP)
13C Crowded Quartz-Feldspar Porphyry (QFP)
13D 'Popcorn' Feldspar Porphyry (FP)
13E Quartz Porphyry

12 FELSIC TO INTERMEDIATE INTRUSIVES

12A YOUNG (Late) FELSIC TO INTERMEDIATE INTRUSIVES
12A1 Alkali Granite
12A2 Granite
12A3 Granodiorite
12A4 Tonalite
12A5 Alkali Syenite
12A6 Syenite
12A7 Monzonite
12A8 Monzodiorite

12B OLD (Early) FELSIC TO INTERMEDIATE INTRUSIVES
12B1 Alkali Granite
12B2 Granite
12B3 Granodiorite
12B4 Tonalite
12B5 Alkali Syenite
12B6 Syenite
12B7 Monzonite
12B8 Monzodiorite

11 INTERMEDIATE TO MAFIC INTRUSIVES

11A YOUNG (Late) INTERMEDIATE TO MAFIC INTRUSIVES
11A1 Quartz Diorite
11A2 Diorite
11A3 Gabbro
11A4 Anorthosite

11B OLD (Early) INTERMEDIATE TO MAFIC INTRUSIVES
11B1 Quartz Diorite
11B2 Diorite
11B3 Gabbro
11B4 Anorthosite

10 ULTRAMAFIC INTRUSIVES (undifferentiated)

10A YOUNG (Late) ULTRAMAFIC INTRUSIVES
10A1 Peridotite
10A2 Dunite
10A3 Hornblendite
10A4 Pyroxenite

10B OLD (Early) ULTRAMAFIC INTRUSIVES
10B1 Peridotite
10B2 Dunite
10B3 Hornblendite
10B4 Pyroxenite

9 GNEISSIC ROCKS (Unknown Origin)
9A Felsic
9B Intermediate
9C Mafic

8 CHEMICAL METASEDIMENTS (EXHALITE)

7 IRON FORMATION

6 CLASTIC METASEDIMENTS
6A Sandstone
6B Argillite\Slate\Shale
6C Arkose
6D Greywacke
6E Conglomerate
6F Chert
6G Limestone
6H Dolomite

5 FELSIC TO INTERMEDIATE METAVOLCANICS (< 5% Mafic)

5A FLOWS (unsubdivided)
5A1 Massive Flows
5A2 Banded Flows

5B PYROCLASTICS (unsubdivided)
5B1 Ash Tuff – < 2 mm
5B2 Lapilli Tuff – 2 to 64 mm
5B3 Pyroclastic Breccia – > 64 mm
5B4 Crystal Tuff
5B5 Volcaniclastic

4 INTERMEDIATE METAVOLCANICS (5% to 15% Mafic)

4A FLOWS (unsubdivided)
4A1 Massive Flow
4A2 Banded Flows

4B PYROCLASTICS (unsubdivided)
4B1 Ash Tuff – < 2 mm
4B2 Lapilli Tuff – 2 to 64 mm
4B3 Pyroclastic Breccia – > 64 mm
4B4 Crystal Tuff
4B5 Volcaniclastic

3 INTERMEDIATE TO MAFIC METAVOLCANICS (> 15% TO 50% Mafic)
3A FLOWS (unsubdivided)
3A1 Massive Flows
3A2 Pillowed Flows
3A3 Amygdaloidal Flows
3A4 Flow Breccia

3B PYROCLASTICS (unsubdivided)
3B1 Ash Tuff – < 2 mm
3B2 Lapilli Tuff – 2 to 64 mm
3B3 Pyroclastic Breccia – > 64 mm
3B4 Crystal Tuff
3B5 Volcaniclastic

2 MAFIC TO ULTRAMAFIC METAVOLCANICS
2A Flow (unsubdivided)
2B Massive Flow
2C Pillowed Flow
2D Amygdaloidal Flow
2E Flow Breccia

1 ULTRAMAFIC METAVOLCANICS
1A Flow (unsubdivided)
1B Massive Flow
1C Pillowed Flow
1D Amygdaloidal Flow
1E Flow Breccia

OVOD Overburden
CSNG Casing
FALT Fault
BLCK Blocky Core

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER OPTION

SECTION 264 EAST

(LOOKING WEST)

DATE: DEC. 1995	ORIG BY: S. ROACH DRAWN BY: C. Green	DWG.NO. 26
SCALE: 1 : 625	NTS. REF.	

WRSEC77E.DWG
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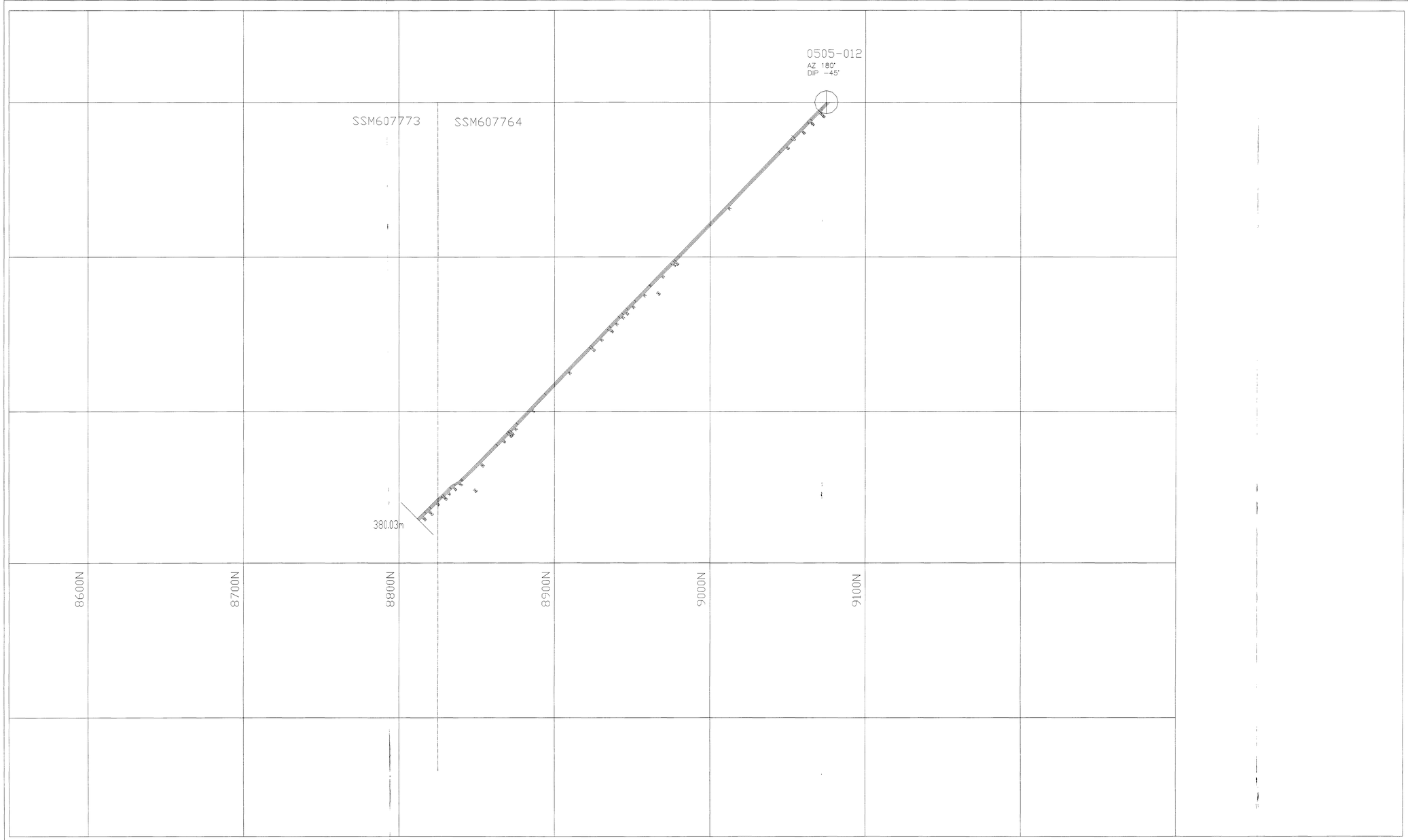

LEGEND

LITHOLOGIES

17 VEINS

17A YOUNG VEINS (Late – post deformation)
- 17A1 Quartz Vein
- 17A2 Feldspar Vein
- 17A3 Quartz-Feldspar Vein
- 17A4 Carbonate Vein
- 17A5 Quartz-Carbonate Vein
- 17A6 Feldspar-Carbonate Vein
- 17A7 Quartz-Feldspar-Carbonate Vein

17B OLD VEINS (Early – pre-deformation)
- 17B1 Quartz Vein
- 17B2 Feldspar Vein
- 17B3 Quartz-Feldspar Vein
- 17B4 Carbonate Vein
- 17B5 Quartz-Carbonate Vein
- 17B6 Feldspar-Carbonate Vein
- 17B7 Quartz-Feldspar-Carbonate Vein

16 DYKES

16A YOUNG (Late) DYKES
- 16A1 Peymatite Dyke
- 16A2 Felsic Dyke
- 16A3 Intermediate Dyke
- 16A4 Mafic Dyke (incl Diabase)

16B OLD (Early) DYKES
- 16B1 Peymatite Dyke
- 16B2 Felsic Dyke
- 16B3 Intermediate Dyke
- 16B4 Mafic Dyke

15 LAMPROPHYRE

14 PORPHYRITIC FELSIC INTRUSIVE (Young – Late)
- 14A Quartz-Feldspar Porphyry (QFP)
- 14B Feldspar Porphyry (FP)
- 14C Quartz Porphyry (QP)
- 14D Felsic Dyke
- 14E Pegmatite

13 PORPHYRITIC FELSIC INTRUSIVE (Old – Early)
- 13A Coarse Quartz-Feldspar Porphyry (QFP)
- 13B Fine Quartz-Feldspar Porphyry (QFP)
- 13C Crowded Quartz-Feldspar Porphyry (QFP)
- 13D 'Popcorn' Feldspar Porphyry (FP)
- 13E Quartz Porphyry

12 FELSIC TO INTERMEDIATE INTRUSIVES

12A YOUNG (Late) FELSIC TO INTERMEDIATE INTRUSIVES
- 12A1 Alkali Granite
- 12A2 Granite
- 12A3 Granodiorite
- 12A4 Tonalite
- 12A5 Alkali Syenite
- 12A6 Syenite
- 12A7 Monzonite
- 12A8 Monzodiorite

12B OLD (Early) FELSIC TO INTERMEDIATE INTRUSIVES
- 12B1 Alkali Granite
- 12B2 Granite
- 12B3 Granodiorite
- 12B4 Tonalite
- 12B5 Alkali Granite
- 12B6 Syenite
- 12B7 Monzonite
- 12B8 Monzodiorite

11 INTERMEDIATE TO MAFIC INTRUSIVES

11A YOUNG (Late) INTERMEDIATE TO MAFIC INTRUSIVES
- 11A1 Quartz Diorite
- 11A2 Diorite
- 11A3 Gabbro
- 11A4 Anorthosite

11B OLD (Early) INTERMEDIATE TO MAFIC INTRUSIVES
- 11B1 Quartz Diorite
- 11B2 Diorite
- 11B3 Gabbro
- 11B4 Anorthosite

10 ULTRAMAFIC INTRUSIVES (undifferentiated)

10A YOUNG (Late) ULTRAMAFIC INTRUSIVES
- 10A1 Peridotite
- 10A2 Dunite
- 10A3 Hornblendite
- 10A4 Pyroxenite

10B OLD (Early) ULTRAMAFIC INTRUSIVES
- 10B2 Dunite
- 10B3 Hornblendite
- 10B4 Pyroxenite

9 GNEISSIC ROCKS (Unknown Origin)
- 9A Felsic
- 9B Intermediate
- 9C Mafic

8 CHEMICAL METASEDIMENTS (EXHALITE)

7 IRON FORMATION

6 CLASTIC METASEDIMENTS
- 6A Sandstone
- 6B Argillite\Slate\Shale
- 6C Arkose
- 6D Greywacke
- 6E Conglomerate
- 6F Chert
- 6G Limestone
- 6H Dolomite

5 FELSIC TO INTERMEDIATE METAVOLCANICS (< 5% Mafic)

5A FLOWS (unsubdivided)
- 5A1 Massive Flows
- 5A2 Banded Flows

5B PYROCLASTICS (unsubdivided)
- 5B1 Ash Tuff – < 2 mm
- 5B2 Lapilli Tuff – 2 to 64 mm
- 5B3 Pyroclastic Breccia – > 64 mm
- 5B4 Crystal Tuff
- 5B5 Volcaniclastic

4 INTERMEDIATE METAVOLCANICS (5% to 15% Mafic)

4A FLOWS (unsubdivided)
- 4A1 Massive Flow
- 4A2 Banded Flows

4B PYROCLASTICS (unsubdivided)
- 4B1 Ash Tuff – < 2 mm
- 4B2 Lapilli Tuff – 2 to 64 mm
- 4B3 Pyroclastic Breccia – > 64 mm
- 4B4 Crystal Tuff
- 4B5 Volcaniclastic

3 INTERMEDIATE TO MAFIC METAVOLCANICS (> 15% TO 50% Mafic)

3A FLOWS (unsubdivided)
- 3A1 Massive Flows
- 3A2 Pillowed Flows
- 3A3 Amygdaloidal Flows
- 3A4 Flow Breccia

3B PYROCLASTICS (unsubdivided)
- 3B1 Ash Tuff – < 2 mm
- 3B2 Lapilli Tuff – 2 to 64 mm
- 3B3 Pyroclastic Breccia – > 64 mm
- 3B4 Crystal Tuff
- 3B5 Volcaniclastic

2 MAFIC TO ULTRAMAFIC METAVOLCANICS
- 2A Flow (unsubdivided)
- 2B Massive Flow
- 2C Pillowed Flow
- 2D Amygdaloidal Flow
- 2E Flow Breccia

1 ULTRAMAFIC METAVOLCANICS
- 1A Flow (unsubdivided)
- 1B Massive Flow
- 1C Pillowed Flow
- 1D Amygdaloidal Flow
- 1E Flow Breccia

OVBD Overburden
CSNG Casing
FALT Fault
BLCK Blocky Core

0 100 200 300
Metres

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER OPTION

SECTION 201 EAST

(LOOKING WEST)

DATE: DEC. 1995	ORIG BY: S. ROACH DRAWN By: P. Adams	DWG.NO. 27
SCALE: 1 : 625	NTS REF.	

WRSEC212.DWG
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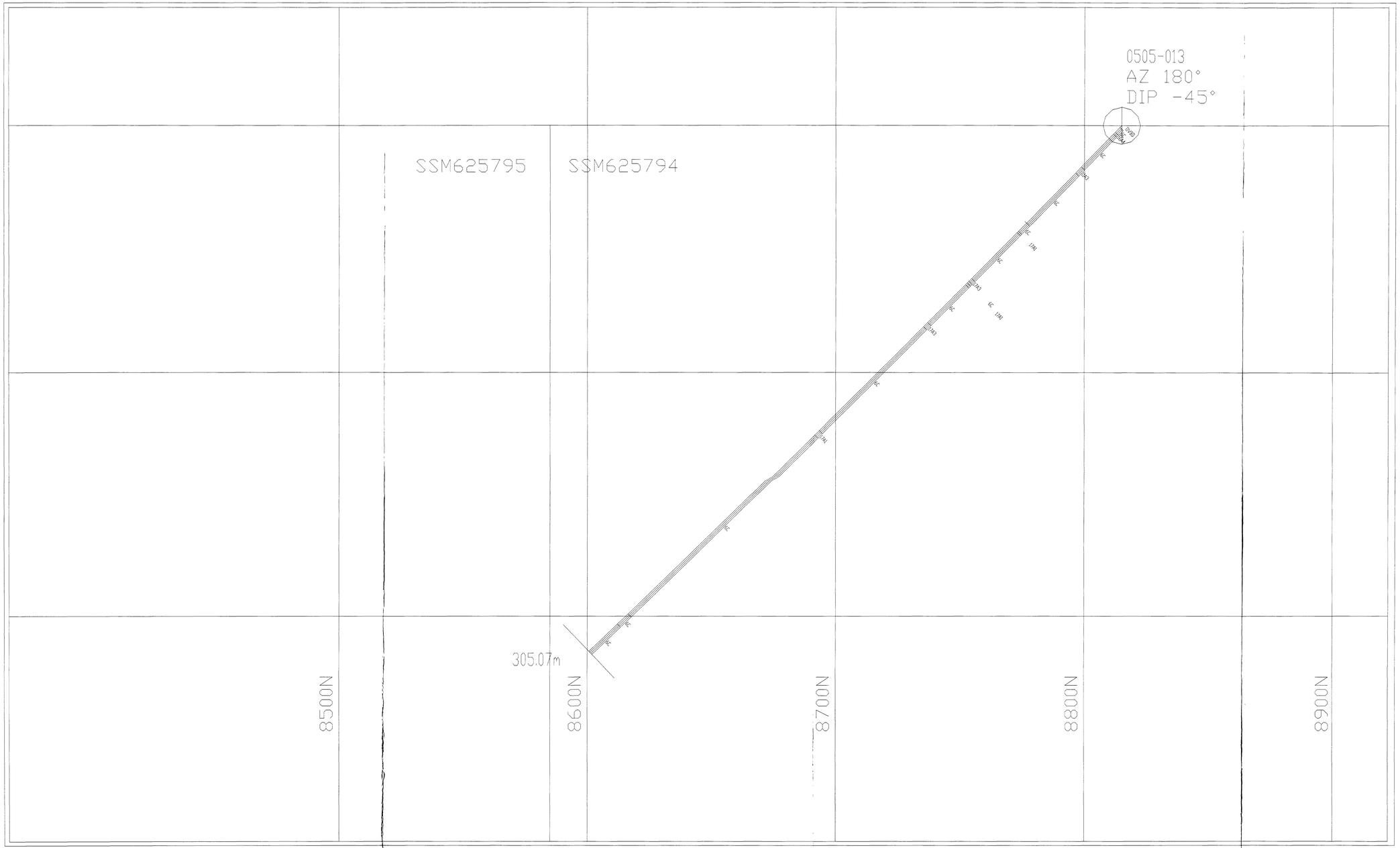

LEGEND

LITHOLOGIES

17 VEINS

- 17A YOUNG VEINS (Late – post deformation)
  - 17A1 Quartz Vein
  - 17A2 Feldspar Vein
  - 17A3 Quartz-Feldspar Vein
  - 17A4 Carbonate Vein
  - 17A5 Quartz-Carbonate Vein
  - 17A6 Feldspar-Carbonate Vein
  - 17A7 Quartz-Feldspar-Carbonate Vein
- 17B OLD VEINS (Early – pre-deformation)
  - 17B1 Quartz Vein
  - 17B2 Feldspar Vein
  - 17B3 Quartz-Feldspar Vein
  - 17B4 Carbonate Vein
  - 17B5 Quartz-Carbonate Vein
  - 17B6 Feldspar-Carbonate Vein
  - 17B7 Quartz-Feldspar-Carbonate Vein

16 DYKES

- 16A YOUNG (Late) DYKES
  - 16A1 Pegmatite Dyke
  - 16A2 Felsic Dyke
  - 16A3 Intermediate Dyke
  - 16A4 Mafic Dyke (incl Diabase)
- 16B OLD (Early) DYKES
  - 16B1 Pegmatite Dyke
  - 16B2 Felsic Dyke
  - 16B3 Intermediate Dyke
  - 16B4 Mafic Dyke

15 LAMPROPHYRE

14 PORPHYRITIC FELSIC INTRUSIVE (Young – Late)
- 14A Quartz-Feldspar Porphyry (QFP)
- 14B Feldspar Porphyry (FP)
- 14C Quartz Porphyry (QP)
- 14D Felsic Dyke
- 14E Pegmatite

13 PORPHYRITIC FELSIC INTRUSIVE (Old – Early)
- 13A Coarse Quartz-Feldspar Porphyry (QFP)
- 13B Fine Quartz-Feldspar Porphyry (QFP)
- 13C Crowded Quartz-Feldspar Porphyry (QFP)
- 13D Plagioclase Feldspar Porphyry (FP)
- 13E Quartz Porphyry

12 FELSIC TO INTERMEDIATE INTRUSIVES

- 12A YOUNG (Late) FELSIC TO INTERMEDIATE INTRUSIVES
  - 12A1 Alkali Granite
  - 12A2 Granite
  - 12A3 Granodiorite
  - 12A4 Tonalite
  - 12A5 Alkali Syenite
  - 12A6 Syenite
  - 12A7 Monzonite
  - 12A8 Monzodiorite
- 12B OLD (Early) FELSIC TO INTERMEDIATE INTRUSIVES
  - 12B1 Alkali Granite
  - 12B2 Granite
  - 12B3 Granodiorite
  - 12B4 Tonalite
  - 12B5 Alkali Granite
  - 12B6 Syenite
  - 12B7 Monzonite
  - 12B8 Monzodiorite

11 INTERMEDIATE TO MAFIC INTRUSIVES

- 11A YOUNG (Late) INTERMEDIATE TO MAFIC INTRUSIVES
  - 11A1 Quartz Diorite
  - 11A2 Diorite
  - 11A3 Gabbro
  - 11A4 Anorthosite
- 11B OLD (Early) INTERMEDIATE TO MAFIC INTRUSIVES
  - 11B1 Quartz Diorite
  - 11B2 Diorite
  - 11B3 Gabbro
  - 11B4 Anorthosite

10 ULTRAMAFIC INTRUSIVES (Undifferentiated)

- 10A YOUNG (Late) ULTRAMAFIC INTRUSIVES
  - 10A1 Peridotite
  - 10A2 Dunite
  - 10A3 Hornblendite
  - 10A4 Pyroxenite
- 10B OLD (Early) ULTRAMAFIC INTRUSIVES
  - 10B1 Peridotite
  - 10B2 Dunite
  - 10B3 Hornblendite
  - 10B4 Pyroxenite

9 SNESSIC ROCKS (Unknown Origin)
- 9A Felsic
- 9B Intermediate
- 9C Mafic

8 CHEMICAL METASEDIMENTS (EXHALITE)

7 IRON FORMATION

6 CLASTIC METASEDIMENTS
- 6A Sandstone
- 6B Argillite\Slate\Shale
- 6C Siltstone
- 6D Greywacke
- 6E Conglomerate
- 6F Chert
- 6G Limestone
- 6H Dolomite

5 FELSIC TO INTERMEDIATE METAVOLCANICS (< 5% Mafic)

- 5A FLOWS (unsubdivided)
  - 5A1 Massive Flow
  - 5A2 Banded Flows
- 5B PYROCLASTICS (unsubdivided)
  - 5B1 Ash Tuff – < 2 mm
  - 5B2 Lapilli Tuff – 2 to 64 mm
  - 5B3 Pyroclastic Breccia – > 64 mm
  - 5B4 Crystal Tuff
  - 5B5 Volcaniclastic

4 INTERMEDIATE METAVOLCANICS (5% to 15% Mafic)

- 4A FLOWS (unsubdivided)
  - 4A1 Massive Flow
  - 4A2 Banded Flows
- 4B PYROCLASTICS (unsubdivided)
  - 4B1 Ash Tuff – < 2 mm
  - 4B2 Lapilli Tuff – 2 to 64 mm
  - 4B3 Pyroclastic Breccia – > 64 mm
  - 4B4 Crystal Tuff
  - 4B5 Volcaniclastic

3 INTERMEDIATE TO MAFIC METAVOLCANICS (> 15% TO 50% Mafic)

- 3A FLOWS (unsubdivided)
  - 3A1 Massive Flows
  - 3A2 Pillowed Flows
  - 3A3 Amygdaloidal Flows
  - 3A4 Flow Breccia
- 3B PYROCLASTICS (unsubdivided)
  - 3B1 Ash Tuff – < 2 mm
  - 3B2 Lapilli Tuff – 2 to 64 mm
  - 3B3 Pyroclastic Breccia – > 64 mm
  - 3B4 Crystal Tuff
  - 3B5 Volcaniclastic

2 MAFIC TO ULTRAMAFIC METAVOLCANICS
- 2A Flow (unsubdivided)
- 2B Massive Flow
- 2C Pillowed Flow
- 2D Amygdaloidal Flow
- 2E Flow Breccia

1 ULTRAMAFIC METAVOLCANICS
- 1A Flow (unsubdivided)
- 1B Massive Flow
- 1C Pillowed Flow
- 1D Amygdaloidal Flow
- 1E Flow Breccia

OVBD Overburden

CSNG Casing

FALT Fault

BLCK Blocky Core

PLACER DOME CANADA LIMITED.

PROJECT NO. 505

WHITE RIVER OPTION

SECTION 271 EAST

(LOOKING WEST)

DATE: DEC. 1995	DRIG BY: S. ROACH DRAWN BY: P. Adams	DWG NO. 28
SCALE: 1 : 625	NTS REF.	

WRSEC271.DWG
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