GM 40283

SUMMARY REPORT ON 1982 EXPLORATION PROGRAM, EASTMAIN RIVER PROJECT, VENTURE 116

SUMMARY REPORT ON

1982 EXPLORATION PROGRAM

EASTMAIN RIVER PROJECT

VENTURE 116

BY

PLACER DEVELOPMENT LIMITED

(NTS 33-A-8E)

Toronto, Ontario
December 1982

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SUMMARY AND CONCLUSIONS

During 1982 a conductive, stratabound deposit consisting of auriferous semi-massive sulphides was partially defined on the F grid. Present geological reserves are estimated at:

650,300 tonnes grading 14.4 gt Au, 16.1 gt Ag and 0.26% Cu
(717,000 tons grading 0.42 ozs. Au, 0.48 ozs. Ag and 0.26% Cu)

The deposit is open at depth (200 metres) and borehole geophysical surveys suggest the presence of other conductive and presumably gold-bearing sulphide lenses.

Two untested showings containing high grade gold values were found in the summer of 1982. Equally important, mineralized, gold-bearing, stratabound acid tuffs were mapped on the G grid. Gold mineralization found either by drilling or geology is now known to occur over a strike length of 5 kilometers.

A program consisting of three main objectives is proposed for 1983. It is proposed to continue exploration of the F grid gold deposit; to explore by drilling the showings and conductors found on strike with the F grid deposit and to verify by drilling the nature of the conductors found in the south part of the survey area.

To attain these objectives a minimum expense of 1.1 million dollars will be necessary in 1983.

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FIGURE 1

GENERAL LOCATION MAP

EASTMAIN AREA , QUEBEC

Aug., 1982

INTRODUCTION

The 1982 exploration goals were twofold. The priorities were to establish the geological features of the area flown and to determine, by drilling, the economic potential of certain electromagnetic conductors immediately on strike with a known gold-bearing conductive zone.

This report will present, review and conclude upon the 1982 exploration program. The local and regional geology as well as the results of the summer drill program will be discussed.

LOCATION AND ACCESS (Figure 1)

The property is situated some 320 km (200 miles) by air northeast of the mining town of Chibougamau, Quebec. More precisely the bulk of the 1982 program was confined to townships 2334 and 2434 in the Territory of Mistassini (NTS Sheet 33-A-8, Lat.52°18'N, Long.72°05'W).

Access to the property is by float plane only. Propair maintains a float plane base on the Temiscamie River approximately 8 km (5 miles) SE of Lake Albanel. The base can be reached from Chibougamau via an all-weather gravel road, a distance of 166 km (104 miles). From the air base it is 166 km (104 miles) farther northeast to the Placer camp and the project area.

The 1982 summer program was of necessity helicopter supported. Personnel and drills were moved using a Hughes 500D on contract from Heli Voyageur.

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PROPERTY (Dwg.116-67)

The property presently consists of 1028, forty acre mining claims registered with the Quebec Department of Natural Resources under the name of "Mines Placer Limitee". During the course of the 1982 exploration program these claims were 100% owned by Placer. A total of 817 claims or 79% of the present holdings were acquired between January and November 1982.

945 (92%) claims are situated in townships 2434 and 2334. The remaining 83 claims are found in townships 2335, 2433 and 2534.

Roughly speaking 40% of the ground acquisition program was based directly upon the results of recent airborne flying while the remaining 60% represents protective geological staking.

RESOURCES

The area contains fairly abundant glacial deposits (essentially in the form of eskers) suitable for road and airstrip construction. The area is characterized by abundant lakes and rivers. Economic timber stands are small and scattered. Little wildlife was observed during the summer.

It is approximately 200 km (120 miles) to the nearest power source (James Bay Complex) and 160 km (100 miles) to the nearest road (Lake Albanel). The existance of nearby hills (1600 metres above local relief) may allow for the generation of wind produced electricity.

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EXPLORATION HISTORY

Placer 1969-1970

1969 - Mapping/Prospecting.

April 1970 - Combined mag. and e.m. airborne survey by McPhar - 678 km (421 miles).

July-October 1970 - Ground geophysical and geological follow-up.

August-October 1970 - Winkie diamond drill program;448.7 metres (1603') of drilling.

Hole 116-A9 intersected economic mineralization, 1.7 m x .27% Cu, 10.9 gt Au and 17.1 gt Ag (5.5' x .27% Cu, 0.32 oz. Au and .50 oz. Ag) - A Zone.

Claims optioned to Nordore.

Nordore Mining 1974-1976:

1974 - Airborne e.m. and mag. flown by Aerodat. 736 km (460 line miles). 12 conductive zones identified including the B Zone. A Zone missed.

Staking - 11 groups for 141 claims.

1974-1975 - Linecutting;69.3 km (43.3 miles) of survey lines, 60 m (200') line spacing.

Geophysics - E.M.17 - 100 m (300') cable, fluxgate magnetometer.

1976 - Six x-ray holes attempted; 2 holes lost in overburden and one hole lost due to cave. Total drilling amounted to 168.6 metres (553') of which only 113.7 m (373') was in bedrock.

The B Zone anomaly was"drill tested" and apparently overshot.

Claims abandoned.

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Placer 1981:

January - 25 claims staked.

July - A Zone conductor relocated.

August - 716 m (2350') of diamond drilling; A Zone [90,700 tonnes grading 13.7 gt Au, 24.0 gt Ag and 0.39% Cu (100,000 tons grading .40 oz. Au, 0.70 oz. Ag and 0.39% Cu)] outlined.

September - 186 claims staked.

October - 477 line km survey (mag. + e.m.) flown by Geophysical Surveys Inc. using Rexhem HEM system.

SUMMARY OF WORK CARRIED OUT

During 1982 an appreciable amount of exploration was conducted within the Eastmain project area. The bulk of the work was compressed into the summer months. The following summarizes all the exploration work and related statistics.

Staking:

January - 183 claims staked by J. Alix Co.

June - 16 claims staked by Placer personnel.

July - 30 claims staked by Placer personnel.

August - 511 claims staked by Services Exploration.

November - 68 claims staked by Services Exploration.

Linecutting:

Seven grids (A to G) were cut for a total of 179.17 km. This work was contracted to Jean Alix Company.

Geophysics:

Ground magnetic, VLF and MaxMin surveys were systematically carried out by Edwin Gaucher and Associates. 153.5 km of line were surveyed.

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All unblocked 1982 drill holes were logged using the Crone Pulse e.m. system. This work was performed by a Crone technician in August. Interpretation was by J.B. Boniwell.

Diamond Drilling:
Drilling commenced June 15 and terminated August 9, 1982. During this period 27 holes (4923 metres) were drilled. Two, helicopter supported, drills were used. All drilling was limited to the F grid. Bradley Bros. Limited of Noranda were the contractors.

Surveying:
Elevations and co-ordinates of 1981 and 1982 drill hole collars were determined. Several bench marks were also established. Bernard Lavigne, Quebec land surveyor from Malartic, Quebec was employed to do this work.

Geology:
Placer undertook a broad reconnaissance program outlining the general Eastmain greenstone belt. R. Pinsent and M. Gareau from Placer's Vancouver office performed this work.

All grids were walked and mapped. The airborne survey area was mapped at a reconnaissance level using pace and compass lines and the helicopter. J. Giroux, H. Thiboutot, summer students, accomplished much of this work.

REGIONAL GEOLOGY (Dwg.116-68)

The Eastmain volcanics form an isolated Precambrian greenstone belt completely enclosed by granites and leucocratic biotite/hornblende gneisses. The volcanics are up to 160 km (100 miles) in length and up to 8 km (5 miles) in width.

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The belt appears to form a large synclinal feature with a younger intrusive core composed of granodiorite/granite, a feature somewhat analogus to the Matagami district (J. Boldy).

The volcanics consist predominantly of massive to pillowed mafic flows and some associated mafic fragmentals. Several horizons of intermediate to acid flows and tuffs are present. Numerous occurrences of mafic to ultramafic intrusives are reported. Volcanoclastic sediments presumed younger, overlie the volcanics. Barren sulphide iron formations outcrop at various localities.

The volcanics are generally shallow dipping (35^{o} to 55^{o}) and are metamorphosed to the upper greenschist/lower amphibolite facies. The main effect of metamorphism being the development of biotite, garnets and a general coarse grained texture associated with the mafic units. Textures are fairly well preserved.

LOCAL GEOLOGY (Dwg.116-31)

This section will briefly describe the geology of the area flown which very roughly comprises an area measuring 9 x 9 km. Outcrop zones outside the grids were spotted by helicopter and then mapped by pace and compass techniques.

The volcanics are bordered to the south by older pegmatitic to gneissic granites and to the north by younger intrusive granodiorite. Westward the volcanics either rapidly pinch out or are cut-off by the younger granite intrusive. Towards the east the sequence appears to show a more uniform continuity.

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The volcanics found in the north half of the survey area are south facing (pillow top determinations), northwesterly striking (315-330°), and dipping at a shallow angle (45°) towards the north. In the south tops are more uncertain. On the A grid the pillowed volcanics seem to indicate a north facing(?), north dipping sequence. It is therefore probable that the volcanics, within the survey limits, form a north dipping, overturned syncline possibly plunging westward.

Medium to coarse grained basalts form the predominent rock types. Several different, fairly well preserved textures are observable. The basalts vary from massive to pillowed, to porphyritic, to amygdular, to variolitic, to flow and/or pillow brecciated. The porphyritic (feldspar phenocrysts) and variolitic horizons are unique and form deinite marker horizons.

The geological mapping has resulted in the identification of several different felsic pyroclastic horizons. Fine grained, locally sericitic acid tuffs are the more abundant felsic rock types. Other rhyolitic rocks encountered include crystal tuffs, lapilli tuffs and agglomerates. Sulphide fragments were observed in the pyroclastics immediately south of the G grid. Fieldwork has shown these units can be auriferous when chalcopyrite mineralization is present.

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Within the volcanics, sill-like intrusive bodies of gabbro and massive to talcose pyroxenites are found. These mafic intrusives appear to be fairly continuous in nature. In the west central part of the area, possibly amoeboid shaped, diorites are found. These diorites may be genetically related to the granodiorites.

Probably younger volcanoclastic sediments occupy the west central portion of the survey area. These sediments are generally quartz rich (abundant quartz grains), fine grained, fairly well bedded and typically heavily garnetiferous. Local conglomeratic horizons were observed.

Metamorphic grade is judged to be at the upper greenschist-lower amphibolite level.

One particular feature found in the north half of the survey area deserves mention. This feature has also been found in the Noranda camp where it has been called "grid" alteration. Basically it consists of quartz or silica filled fractures which are mutually perpendicular. Due to their relative hardness they have a positive relief. Very nice exposures of "grid" alteration are present on the F and G grids.

GRID APPRAISALS

The following section will briefly review the geology, geophysics and mineralization of the seven grids cut during 1982. The reader is referred to the individual grid reports for a more detailed discussion.

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GRID A

Geology: The grid is underlain principally by coarse to medium grained mafic flows and sills. The mafic flows consist of massive to pillowed to flow brecciated basalts. Variolitic basalts were found outcropping in one location. Intrusive within these basalts are sills of gabbro. One outcrop of finely bedded rhyolitic tuffs was found.

The grid covers a major flexure in the volcanics. In the western half of the grid strikes vary from 150° to 160° while in the eastern portion the units are essentially east-west. Dips are consistently steeply (70-80°) north. Possible top determinations indicate a north facing sequence.

The volcanics on this grid have been subjected to a fairly intense thermal metamorphism. The abundance of garnets and of large recrystallized amphibole blades witness to this fact.

Mineralization: Three occurrences of pyrite, pyrrhotite were found. Sulphide content varied between 5% and 30%. The 3 showings belong to the same stratigraphic horizon. Subsequent assays returned negative results.

Geophysics: Three main, fairly long conductive horizons with definite magnetic association were outlined by the ground geophysics (MaxMin, VLF and mag.). These conductors outline well the structure.

One of the conductive horizons (the central conductor) coincides with the 3 occurrences of barren sulphides found on the grid.

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Diamond Drilling: An x-ray drill hole set-up was found at 4+60E and 0+35N. The hole is situated at the tail end of a VLF response and appears to have been collared right on the anomaly axis.

Recommendations: Drill testing of the 2 remaining main conductors is recommended. These are not judged to be high priority but in view of the general lack of geological data and due to the presence of nearby gold mineralization to the north diamond drilling is a necessity.

GRID B

Geology: The grid is underlain by low swampy ground. Only three outcrops were found on this grid. They consisted of featureless basalts and fine to medium grained foliated gabbros. In the south part of the grid a heavily magnetic gabbro (ultramafic?) was found. This outcrop is situated with a large intense regional aeromagnetic anomaly.

Mineralization: Due to the severe lack of outcrops no significant mineralization was noted.

Geophysics: Two main conductive zones with coincident magnetics were outlined. Both these zones appear to extend beyond the grid and are composed of 2 conductors.

Recommendations: A minimum of 3 holes are needed to drill test the geophysical responses.

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GRIDS C-D-E

Geology: No outcrops were found on grids C and D. On the E grid outcrops were located only in the southwest corner of the grid. They consisted of north dipping (45-50°), east-west striking amphibolitized massive to pillowed volcanics.

Mineralization: Trace pyrite and pyrrhotite are present within the volcanics.

Geophysics: On the C grid two conductors of moderate strength were located. A good coincident magnetic anomaly is associated with the more southerly located anomaly. Both conductors extend beyond the grid.

Two conductors were also located on the D grid. Both extend beyond the grid. There is a strong probability that the two conductors identified on the C-D grids are the same and that they join up.

On the E grid one large strong conductor with magnetic association was identified. To the west the conductor extends beyond the grid limits.

Diamond Drilling: The conductor on grid E was drill tested by Nordore Mining. A short 50 m (164') x-ray hole cut between 5% and 20% barren sulphides (py + po) over a core length of 4.9 m (16').

Recommendations: The two conductors located on C and D grids should be drill tested. Drilling should test both conductors with one hole spotted on each grid.

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As mentioned the E grid conductor has been drilled. Given the relative shortness of the x-ray hole and the rather broad geophysical response this conductor is not thought to have been fully drill tested. A second hole is therefore recommended.

GRID F

Geology: The F grid contains a conductive, auriferous, semi-massive stratabound volcanogenic deposit. Geological reserves are estimated at:

650,300 tonnes 14.4 gt Au, 16.1 gt Ag and 0.26% Cu
(717,000 tons 0.42 oz. Au, 0.48 oz. Ag and 0.26% Cu)

The geological characteristics and the mineralization are discussed in a separate report to which the reader is referred. (Report on "F" Grid). In this section, the various gold-copper occurrences found on the grid will be presented.

Mineralization: Table I summarizes the different gold/copper occurrences other than the main gold zone on the F grid. Individual descriptions and discussions follow.

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T A B L E I

Location	Hole	From (m)	To (m)	Width (m)	Au g/t	Ag g/t	Cu %	Zn ppm	Geologic Description
L28+50E	82-3	70.59	70.92	.33	4.89	2.54	.07	-	3-7% py; 15-25% pc 1% cpy. in mafic tuff
L28+00E	82-5	100.74	101.74	1.00	4.46	1.13	.20	-	3-7% py; 10% po, 2-3% cpy. in mafic gabbro(?) a meta pyroxenite
L4+50E	82-24	9.88	10.58	.70	5.15	9.36	.72	-	Tuffaceous basalt; quartz injected, 5-15% py, 1-2% cpy.
L2+00E	82-25	74.00	74.86	.86	3.67	21.98	1.03	77	Cherty rhyolite tuff; 2-3% py, 7-15% po; 3-5% cpy.
L2+50E, 0+75S	Float	-	-	-	2.88	4.46	1.90	-	Non-conductive tabular rhyolite float containing py and cpy.

Holes 82-3 and 82-5: Southeastern Conductors

The mineralization in these two holes form a conductive lens having a maximum strike length in the order of 75 m. The sub economic gold values are encountered in a geological environment similar to the main gold zone. The gold values are found in a sequence of tuffs containing semi-massive sulphides intruded by pyroxenite. Both these holes encountered abundant pyrrhotite stringers throughout. Hole 82-5 contains several garnetiferous tuff bands which are stratigraphically well below the sub economic gold values. From our knowledge of the main gold zone garnets are usually found within the sulphide zones or in close proximity.

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No garnets were found in hole 82-3. These factors suggest possibly more mineralization may be present towards the west.

Hole 82-5 bottomed out in weakly variolitic basalts, the same marker horizon found in the stratigraphic hanging wall of the main gold zone. Hence a stratigraphic continuity between the main gold zone and hole 82-5 seems probable.

It is interesting to note that the results of the pulse e.m. logging indicate that more important sulphide concentrations, than those obtained by drilling, remain to be found. Therefore, more drilling needs to be carried out in this locality at a later date.

Hole 82-24

Gold mineralization was encountered in a tuffaceous basalt very early in the hole whose purpose was to test a magnetic anomaly. There being no electromagnetic conductor, gold-bearing sulphides were not anticipated. The magnetic anomaly was caused by a sill-like pyroxenite body.

The gold mineralization is associated with a quartz veining or injection zone some .25 metres in thickness. Accompanying the quartz is a massive 2 cm thick pyrite band with minor chalcopyrite and some 5% to 10% disseminated pyrite. 10-15% chloritic material is also present.

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The presence of marginal gold values at this locality is judged to be geologically significant as it extends the strike length of the general gold mineralization and also because of a nearby electromagnetic conductor found to the N.W. No further work is currently warranted on this occurrence.

Hole 82-25 (Boniwell Extension Anomaly)

This hole was drilled to test a VLF anomaly having a coincident magnetic high. J. Boniwell had interpreted this anomaly as an offset of the main conductive system hosting the auriferous sulphides. Hence the origin of the name.

The copper-gold mineralization is situated within a cherty rhyolite tuff. Sulphides present include 2-3% pyrite, 7-15% pyrrhotite and 3-5% chalcopyrite.

Geologically this hole has certain similarities to the B gold lense. An 11 cm thick porphyritic basalt (20%, 2-5 mm sized feldspar laths) is present. This unit is similar to the porphyritic marker horizon. Also present are 1-2 mm size amphibole bearing basalts? A garnetiferous unit (dacite in this case) is found in close proximity to the sulphides.

The hole, however, contains no intrusive pyroxenites a unit extensively present in the main gold zones. Also the nature or grade of the mineralization is different. This intersection is relatively speaking copper-rich and gold poor which is in sharp contrast to what has been previously known.

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Nevertheless the presence of gold in a similar geological environment is encouraging and definitely warrants additional exploration efforts. Geophysics indicates that the horizon extends beyond the western limit of the grid. Therefore extending the grid system westward is necessary. This should be followed by ground geophysical surveys (MaxMin, VLF and mag.) which hopefully would locate a large more conductive sulphide body which presumably would have better grades.

Moyle Float

This mineralized float, found by Robert Moyle, is located within a small boulder field on line 2+50E. The float is tabular in shape and its approximate dimensions are about .6 m x .3 m x .3 m. Its composition is rhyolitic and grain size is fine to aphanitic. The mineralization consists of 5% to 10% finely disseminated chalcopyrite roughly forming lensoid patches. Very minor fine graphitic material accompanies the chalcopyrite. The boulder is non-conductive. Glacial striae are 040°.

A limited amount of linecutting is proposed. As the origin of the boulder seems local, it is proposed to prospect, using ground geophysics, the area between the F grid and the baseline of the G grid. VLF anomalies and hopefully a weak MaxMin response in this area would be prime drilling targets.

contd. ...

Geophysics: All MaxMin anomalies within the F grid have been drilled. All except the weak anomaly on lines 30+00 and 30+50E have corresponded to auriferous sulphides. Two VLF and one magnetic anomaly were sampled. These were reconnaissance holes and two (82-24 and 82-25) returned marginal gold values. Several other currently lower priority VLF targets remain to be eventually drill tested.

On the F grid the standard geophysical approach has been successful in outlining several auriferous semi-massive sulphide zones lying very close to the surface. Further geophysical exploration in this immediate area will in future consist of borehole logging and deep penetration ground systems.

On strike airborne anomalies have to be considered high priority targets.

Diamond Drilling: All of the 1982 diamond drilling was performed on the F grid. A total of 4923 metres (16,148') representing 27 holes were drilled between June 15 and August 9. The program involved 2 drills which were entirely helicopter supported. Table II summarizes all the pertinent drilling results and statistics.

The following two statistics may be helpful in the future. A median value of flattening of 1^{o} per 32 metres was present in the 1982 drilling. Of the 20 holes surveyed with a tropari, 18 deviated westward. A median value of 1^{o} per 24 metres was observed.

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Recommendations: Much of the main exploration thrust must continue to be focused upon enlarging the geological reserves within the main gold zone. The remaining marginal gold values encountered in holes 82-3, 82-5, 82-24 and 82-25 do merit further work. Their merit should however be placed in context. Therefore the following recommendations are made.

1) On the F grid further drilling should focus on enlarging the currently outlined main gold zone.

2) The VLF anomaly drill tested by hole 82-25 should be pursued to the west. This implies extending the grid westward (400 metres) and geophysically surveying these new lines. A MaxMin response on these new lines would be considered as a priority target.

3) There is evidence of stratigraphic continuity between the main gold zone and the marginal mineralization outlined by holes 82-3 and 82-5. Pulse e.m. (deep e.m.) surface traversing is recommended between these two areas. Alternate lines could be surveyed.

Also within this area, 1982 ground surveys failed to locate an airborne response. The grid should therefore be extended southward in this same area.

4) It is proposed that an attempt should be made to locate the source of the presumably locally derived copper/gold float. Several lines from the F grid would be extended northwards (by approximately 1.7 km) to intersect the G grid baseline. A MaxMin response on these lines would be considered a favourable target.

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TABLE II 1982 DRILLING SUMMARY - V.116 EASTMAIN

Drill Hole	Grid Co-Ordinates	Dip	Final Depth (m)	Horizontal Projection (m)	Ore Intersection								
					From (m)	To (m)	Width (m)	Au g/t	Ag g/t	Cu %	Vertical Depth (m)	Horizontal Projection (m)	Ore Zone
82-1	18+00E, 3+25S	-60°	158.5	93.5	125.12	128.20	3.08	8.30	10.06	.21	102-104.5	72.5-74.5	B
82-2	18+50E, 4+18S	-50°	96.6	72.5	77.29	80.29	3.00	10.25	7.54	.19	57-61	50-52.5	B
82-3	28+50E, 5+05S	-50°	105.5	73.3	70.59	70.92	.33	4.89	2.54	.07	51-51.5	48-49	
82-4	19+00E, 3+90S	-50°	131.3	69.5	104.97	106.44	1.47	10.98	5.64	.24	90-92	55-56.5	B
82-5	28+00E, 4+40S	-60°	123.7	67.5	100.74	101.74	1.00	4.46	1.13	.20	85-86	53.5-54.5	
82-6	19+50E, 4+90S	-50°	127.7	84.25	38.43	40.36	1.93	5.83	3.60	.20	28-31	24.3-26.1	B
82-7	30+50E, 4+00S	-50°	138.9	94.0				Tr					
82-8	20+00E, 4+15S	-60°	139.3	76.0	89.12	91.44	2.32	2.63	.61	.25	76-79	47.3-48.6	B
82-9	17+00E, 3+20S	-60°	142.2	74.5	116.13	121.21	5.08	18.40	19.79	.38	99.5-102.5	60-63	B
82-10	20+50E, 4+20S	-50°	151.5	98.0	90.28	92.20	1.92	2.07	7.28	-	69-69.5	58.7-59.5	B
82-11	17+50E, 4+10S	-50°	123.4	81.5	62.60	63.61	1.10	1.41	6.17	-	47	41	B
82-12	18+50E, 2+25S	-60°	221.6	132.0	186.11	187.21	1.10	8.47	8.33	.26	154	102	B
82-13	17+50E, 2+25S	-60°	221.3	127.0	169.65	170.08	.43	2.58	6.30	.21	140	95	B
82-14	15+50E, 1+63S	-60°	205.7	113.5	169.68	170.69	1.01	6.48	13.06	.03	143	93	B
82-15	16+50E, 1+95S	-60°	215.5	115.0	178.61	182.11	3.50	14.55	17.05	.27	153.5-154.5	93-94	B
82-16	12+50E, 2+30S	-60°	224.3	124.0	167.80	168.30	0.50	0.59	7.59	.27	142	91	A or C or erratic
82-17	12+00E, 1+96S	-60°	226.2	127.0				Tr					A
82-18	13+00E, 1+50S	-65°	260.9	129.5	224.06	225.06	1.00	63.46	94.10	.22	210	117	C
82-19	16+00E, 2+10S	-55°	199.9	122.5				Tr					B
82-20	14+00E, 1+75S	-85°	318.8	65.0	208.33	208.57	.24	1.85	8.07		207	34	B

TABLE II 1982 DRILLING SUMMARY - V.116 EASTMAIN (contd.)

Drill Hole	Grid Co-Ordinates	Dip	Final Depth (m)	Horizontal Projection (m)	Ore Intersection								
					From (m)	To (m)	Width (m)	Au g/t	Ag g/t	Cu %	Vertical Depth (m)	Horizontal Projection (m)	Ore Zone
82-21	15+00E, 0+75S	-65°	281.6	142.0				Tr					B
82-22	16+00E, 0+60S	-65°	268.8	120.0	225.52	225.77	.25	.55	8.78		221	107	B
82-23	14+00E, 1+75S	-62°	257.8	137.0				Tr					B
82-24	4+50E, 1+15S	-55°	87.5	53.0	9.88	10.58	.70	5.15	9.36	.72	9	6	
82-25	2+00E, 4+28S	-55°	99.7	58.0	74.00	74.86	.86	3.67	21.98	1.03	60	44	Boniwell Extension
82-26	12+50E, 7+60S	-55°	99.0	59.0				Tr					
82-27	13+20E, 1+00S	-70°	303.6	135.0	258.87	259.2	.33	3.26	5.14	.31	233	112.5	C

GRID G

Geology: Fairly abundant outcrop occur on this grid. Massive to pillowed basalts and gabbros account for the vast majority of the rock units. In the central portion of the grid, mineralized, finely bedded rhyolite crystal and lapilli tuffs were mapped. Immediately southwest of the grid rhyolite agglomerates and lapilli tuffs containing sulphide fragments were mapped.

Cross-cutting, mafic feldspar porphyry dykes, possibly feeder dykes for the porphyritic marker basalts found on the F grid, were mapped.

Very well developed grid alteration is present on the grid. Muscovite/biotite is abundant in both the felsic tuffs and the mafic flows. Garnets were observed in one particular locality.

Mineralization: An excellent example of typical volcanogenic sulphide mineralization is found on the grid. Mineralization is found located within a stratabound acid tuff horizon underlain by massive rhyolite and overlain by pillow basalts. The mineralization consists of fine to locally semi-massive pyrite, pyrrhotite and chalcopyrite. As with the F grid, gold accompanies the chalcopyrite. A grab sample containing chalcopyrite mineralization returned 8.26 grams/Au and 2.7% Cu.

No significant values were obtained within the lapilli tuffs or the agglomerates found immediately south of the grid. Both these units contain sulphide fragments or nodules.

contd. ...

Geophysics: The mineralized auriferous tuff band is associated with the only electromagnetic conductor present. The conductor, having a coincident magnetic feature, extends beyond the grid in a southeasterly direction. The strength of the anomaly also intensifies towards the southeast. The maximum amplitude of the anomaly is believed to be outside the current grid.

It is apparent that the conductor remains to be fully defined. Additional lines and geophysical surveying are therefore necessary.

Diamond Drilling: An x-ray drill hole by Nordore Mines lies 120 metres to the southeast of the grid.

The 32.7 m (107') long hole cut .15 m (0.5') of massive pyrrhotite and .45 m (1.5')of massive magnetite. Significantly, copper values of 0.21% and 0.14% are reported. Gold assays, strangely enough, returned trace values at best.

Recommendations: The grid should be extended towards the southeast by 300 metres. This will allow us to fully cover the electromagnetic anomaly and to fully assess the significance of the x-ray hole. In view of past experience one should not hesitate to discount the Nordore hole.

contd. ...

MINERALIZATION OF ECONOMIC INTEREST
NOT GRIDDED IN 1982

Two interesting showings were found during the reconnaissance program. They have been called the Julian Lake and the Michel Lake showings. Both were located by H. Thiboutot. A brief description of each follows:

Julian Lake Showing: The showing was apparently found by Nordore but was not reported. It was subjected to minor blasting and then 'camouflaged'.

The showing consists of a massive sulphide (py, po, cpy) vein with associated quartz and silica. The vein is cross-cutting (striking NE and dipping steeply E) and is approximately .60 m in thickness. It is exposed over a length of 1.2 to 1.8 metres.

The vein is hosted by a massive gabbro. There is evidence of shearing or faulting at the contact of the gabbro and the vein.

Grab samples taken returned between .79 and 27.26 grams Au, 4.1 and 28.87 grams Ag, and .82% to 3.3% Cu.

During the 1983 season this showing will be gridded (lines in two directions) and geophysically surveyed. A weak AEM anomaly is located to the northwest. Provisions have been made for drilling.

Michel Lake Showing: This showing was found late in the field season. The fact that gold was present was confirmed by analysis received after the fieldwork had been terminated.

The showing consists of a zone 5 cm wide consisting of silica and chalcopyrite within a granodiorite intrusive. The silica zone was traced over a distance of 0.9 m before being being lost in overburden. The nature of this mineralization has yet to be determined and examined in a detailed manner.

contd. ...

A grab sample of this material returned 34.46 grams Au and 12.48 grams Ag, as well as 8000 ppm Cu.

This gold occurrence is within a new geological environment. It represents a new target necessitating a different exploration approach which will evolve as a better handle on the geology is obtained.

The occurrence will be gridded during 1983. This will be followed up by routine geophysics (MaxMin, VLF and mag.).

CONCLUSIONS

Gold mineralization, including the A & B zones has been found over a strike length of close to 5 km. The A-B zones consist of a conductive semi-massive auriferous deposit containing over 9364 kg Au (300,000 oz. Au). To date, gold values have only been found in the north half of the area flown. Exploration by diamond drilling has been concentrated in a limited area. Approximately 87% of the total drilling meterage has to-date been concentrated over a narrow strip 850 metres long. A significant, if not enormous amount, remains to be accomplished.

The F grid gold deposit has been only partially defined. The deposit is open at depth and downhole e.m. surveying indicates the presence of other conductive and presumably auriferous lenses. The continuing exploration of the zone will require an important fraction of the total diamond drilling budget.

contd. ...

The Julian and Michel Lake showings both contain high grade gold values in new unworked geological settings. Both will require exploration attention.

Stratabound gold-bearing sulphides have been mapped and sampled on the G grid. Further exploration effort is equally required.

Several airborne targets located by both the Placer Rexhem survey and the Nordore Aerodat survey require a basic evaluation. These conductors are roughtly on strike both to the northwest and to the southeast of the main gold-bearing horizon. These conductors in view of their geological settings are promising targets.

The south band of conductors covered by grids A to E inclusive remain essentially unexplored. A reconnaissance type drill program is needed to determine the nature and the geological setting of the various conductive horizons.

RECOMMENDATIONS

Three main objectives should be pursued in 1983. These objectives are:

i) The continued exploration of the main F grid deposit by diamond drilling accompanied by pulse borehole e.m. surveying.

An initial program consisting of 4 to 6 holes (1200 to 1800 m) is necessary. This will necessitate extending a portion of F grid northward by 400 m (14.1 km).

contd. ...

ii) The evaluation by geology, geophysics and diamond drilling of airborne anomalies and showings (Julian Lake/Michel Lake) on strike with the main gold mineralization.

This recommendation implies a linecutting program in the order of 122 km and a diamond drill program consisting of 6 to 9 holes (750 1125 m) depending upon ground geophysical results.

Surface pulse e.m. (deep e.m.) traversing is also recommended between lines 20+50E and 28+00E on the F grid.

iii) The evaluation by diamond drilling of the different conductive horizons found on grids A to E inclusively.

A minimal linecutting program of 10 km and a 7 to 9 holes (700 to 900 m) drill program are needed.

To attain these objectives a minimal expense of 1.1 to 1.2 million dollars is required.

Respectfully Submitted,

Michel Drouin
Project Geologist

MD/of

REFERENCES

Boldy, G.D.J. and Hilgendorf, C. 1982 — Eastmain River, Quebec: A Potential New Gold District, Internal Report, Placer Development Limited.

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A P P E N D I X I

Drill Hole Data, Grid "F", Eastmain, Quebec
Diamond Drill Logs

DRILL HOLE DATA FOR V.116,GRID"F",EASTMAIN,QUEBEC

HOLE NAME	NORTHING	EASTING	ELEVAT.	TOTAL DEPTH	DATE LOGGED	AZIMUTH (DEG)	DIP (DEG)
82CH001	-325.00	1800.00	491.00	158.50	820600	180.00	-60.00
82CH 02	-418.00	1850.00	495.00	96.62	820700	180.00	-50.00
82CH 03	-505.00	2850.00	.00	105.52	820600	180.00	-50.00
82CH 04	-390.00	1900.00	490.00	131.36	820600	180.00	-50.00
82CH 05	-440.00	2800.00	.00	123.75	820600	180.00	-60.00
82CH 06	-490.00	1950.00	492.00	127.71	820600	180.00	-50.00
82CH 07	-400.00	3050.00	.00	136.99	820600	180.00	-50.00
82CH008	-415.00	2000.00	491.00	139.30	820600	180.00	-60.00
82CH 09	-320.00	1700.00	484.00	142.18	820600	180.00	-60.00
82CH10	-420.00	2050.00	490.00	151.49	820700	180.00	-50.00
82CH11	-410.00	1750.00	488.00	123.44	820700	180.00	-50.00
82CH12	-225.00	1850.00	489.00	221.60	820700	180.00	-60.00
82CH13	-225.00	1750.00	484.00	221.28	820700	180.00	-60.00
82CH 14	-163.00	1550.00	488.00	205.74	820700	180.00	-60.00
82CH15	-195.00	1650.00	484.00	215.50	820700	180.00	-60.00
82CH16	-230.00	1250.00	488.00	224.30	820700	180.00	-60.00
82CH17	-196.00	1200.00	487.00	226.16	820700	180.00	-60.00
82CH 18	-150.00	1300.00	486.00	260.90	820700	180.00	-65.00

HOLE NAME	NORTHING	EASTING	ELEVAT.	TOTAL DEPTH	DATE LOGGED	AZIMUTH (DEG)	DIP (DEG)
82CH19	-210.00	1600.00	486.00	199.90	820700	180.00	-55.00
82CH20	-175.00	1400.00	487.00	318.80	820700	180.00	-85.00
82CH21	-75.00	1500.00	488.00	281.63	820700	180.00	-65.00
82CH 22	-60.00	1600.00	486.00	268.83	820700	180.00	-65.00
82CH23	-175.00	1400.00	487.00	257.86	820800	190.00	-62.00
82CH24	-115.00	450.00	494.00	87.48	820800	180.00	-55.00
82CH25	-428.00	200.00	497.00	99.67	820800	180.00	-55.00
82CH26	-760.00	1250.00	497.00	99.06	820800	180.00	-55.00
82CH27	-100.00	1320.00	485.00	303.58	820800	180.00	-70.00
A9CH001	-460.00	1187.00	493.00	35.00	700803	190.00	-45.00
A9CH001A	-475.00	1183.00	493.00	74.00	700927	190.00	-45.00
A9CH002	-428.00	1130.00	492.00	83.06	810814	190.00	-50.00
A9CH003	-432.00	1187.00	493.00	76.35	810817	195.00	-50.00
A9CH004	-432.00	1248.00	494.00	79.86	810819	194.00	-50.00
A9CH005	-362.00	1260.00	494.00	127.71	810823	190.00	-60.00
A9CH006	-364.00	1198.00	492.00	122.07	810827	190.00	-60.00
A9CH007	-327.00	1140.00	493.00	123.29	810831	190.00	-65.00
A9CH008	-343.00	1064.00	492.00	103.78	810903	190.00	-70.00

HOLE 82CH001
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN
TWP. 2334 ,QUEBEC.
CLAIM NO. 404968-2
GRID NORTH -325.00 GRID EAST 1800.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 158.50mt.

Logged by: M.Drouin on (day/mo/yr)... JUN82
Drilled by: Bradley Bros. Ltd. (mo/yr)...JUN82

FROM 0.00MT. TO 10.97MT.
OVERBURDEN
9.45 10.97 CASING REAMED

FROM 10.97MT. TO 14.94MT.
med. light grey GRANODIORITE with QUARTZ , FELDSPARS, GEN. , and 30% BIOTITE
Textures noted: MASSIVE
2.5% PYRITE as disseminations and scattered crystals
5% CHLORITE as disseminations and scattered crystals
1% EPIDOTE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals
10.97 14.94 WEAK DEVELOPMENT OF EPIDOTE ON FELDSPARS

FROM 14.94MT. TO 60.20MT.
med. dark green PILLOWED BASALT
Textures noted: MASSIVE , PILLOWED , AMYGDALOIDAL
Structures noted: CONTACT dip 40,
2.5% QUARTZ as microveins
5% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
14.94 25.91 BASALTS BECOME BIOTITE RICH NEAR GRANITE CONTACTS AS WELL AS MORE "COOKED"

FROM 16.49MT. TO 16.92MT.
100% of this subinterval is
pale grey GRANODIORITE
Textures noted: MASSIVE

FROM 19.51MT. TO 25.60MT.
50% of this subinterval is
GRANODIORITE with QUARTZ , FELDSPARS, GEN. , and BIOTITIC
Textures noted: MASSIVE
1% PYRITE as disseminations and scattered crystals
5% CHLORITE as disseminations and scattered crystals
1% EPIDOTE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals
27.43 60.20 FROM 27,43M, BASALT BECOMES MORE FRESH,LESSFRACTURED
GRAIN SIZE LOCALLY VARIABLE

FROM 47.09MT. TO 47.61MT.
100% of this subinterval is
pale green GRANODIORITE with QUARTZ , FELDSPARS, GEN. , and 5 %

EPIDOTE
Textures noted: MASSIVE
5% QUARTZ as microveins
2.5% BIOTITE as disseminations and scattered crystals
.1% PYRITE as microveins
5% EPIDOTE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 52.43MT. TO 55.79MT.
90% of this subinterval is
med. dark green GRANODIORITE with QUARTZ , FELDSPARS, GEN. ,
1% CARBONATE as microveins
.3% PYRITE as microveins
.01% CHALCOPYRITE as disseminations and scattered crystals
2.5% CHLORITE as disseminations and scattered crystals
.3% PYRRHOTITE as microveins

FROM 60.20MT. TO 65.53MT.
medium grey GRANODIORITE with QUARTZ , FELDSPARS, GEN. , and BIOTITIC
Textures noted: MASSIVE
Structures noted: CONTACT dip 45,
1% PYRITE as microveins
1% FELDSPAR as disseminations and scattered crystals
5% CHLORITE as disseminations and scattered crystals
.03% PYRRHOTITE as disseminations and scattered crystals
60.20 62.53 WEAK EPIDOTIZATION OF FELDSPARS
65.16 65.29 HEAVILY BIOTIZED BASALTIC ZONE

FROM 65.53MT. TO 69.13MT.
dark green PORPHYRITC BASALT with FELDSPARS, GEN. ,
Textures noted: MASSIVE
.3% PYRITE as microveins
.3% PYRRHOTITE as microveins

FROM 69.13MT. TO 110.34MT.
dark green BASALT
Textures noted: MASSIVE
.3% PYRITE as microveins
.3% CHALCOPYRITE as microveins
1% FELDSPAR as microveins

FROM 78.79MT. TO 87.48MT.
50% of this subinterval is the same as 69.13MT. to 110.34MT. except as noted
dark green BASALT
10% QUARTZ as microveins
1% PYRITE as microveins
.3% CHALCOPYRITE as blebs
10% FELDSPAR as microveins
1% PYRRHOTITE as microveins
86.20 86.32 BRECCIATED QTZ-CARBONATE-KFELDSPAR INFILLING
94.12 94.49 GRANITIC DYKE,MINOR K-FELDSPAR VEINING
96.80 96.96 QTZ/CARBONATE/K-FELDSPAR VEINING
103.02 103.63 GRANITIC DYKE WITH KFELDSPAR FILLED FRACTURES
AT 80 TO CORE NORMAL

FROM 110.34MT. TO 115.00MT.
dark green META GABBRO
Textures noted: MASSIVE
111.71 114.97 K-FELDSPAR/EPIDOTE/CARBONATE VEIN AT 90 TO CORE
NORMAL 1 TO 2 CM THICK

FROM 115.00MT. TO 119.88MT.
dark green BASALT
Textures noted: MASSIVE
5% BIOTITE as laminations, bedded
1% PYRITE as microveins

FROM 119.75MT. TO 119.88MT.
100% of this subinterval is the same as 115.00MT. to 119.88MT. except as noted
BASALT
5% PYRITE as microveins
1% CHALCOPYRITE as disseminations and scattered crystals
2.5% PYRRHOTITE as microveins

FROM 119.88MT. TO 121.22MT.
medium green META TUFF
Structures noted: BANDING dip 10,
5% BIOTITE as disseminations and scattered crystals
1% GARNET as disseminations and scattered crystals
2.5% CARBONATE as disseminations and scattered crystals
5% PYRITE as microveins
1% CHALCOPYRITE as disseminations and scattered crystals
1% SPHALERITE as microveins
119.88 121.22 INTERBANDED DACITIC AND ANDESITIC TUFFS,WITH GARNETS AT
120,24M DISSEMINATED PY AND MM THICK BANDS THROUGHOUT;THIN
< 1MM BANDS OR BEDS OF SPHALERITE AS WELL AS SCATTERED
GRAINS

FROM 121.22MT. TO 124.51MT.
med. light grey RHYOLITIC TUFF
Textures noted: BEDDED
Structures noted: BEDDING dip 10,
.03% QUARTZ as eyes, augen
5% GARNET as spots
1% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
1% GALENA as laminations, bedded
2.5% CHLORITE as laminations, bedded
1% PYRRHOTITE as laminations, bedded
122.19 122.19 QUARTZ EYES

FROM 122.47MT. TO 123.11MT.
100% of this subinterval is
pale green MAFIC TUFF
Structures noted: BANDING dip 10,
5% GARNET as spots
5% PYRITE as disseminations and scattered crystals
1% SPHALERITE as laminations, bedded

FROM 124.51MT. TO 125.12MT.

dark green MAFIC TUFF
Textures noted: BANDED
Structures noted: BANDING dip 00,
10% GARNET as spots
2.5% EPIDOTE as disseminations and scattered crystals
1% SPHALERITE as disseminations and scattered crystals

124.51 125.12 SIZE AND QUANTITY OF GARNETS INCREASES SHARPLY 2 FEET BEFORE THE MINERALIZED ZONE

FROM 125.12MT. TO 128.17MT.

META TUFF
Structures noted: CONTACT dip 00,
5% BIOTITE as laminations, bedded
5% GARNET as spots
10% PYRITE as laminations, bedded
5% CHALCOPYRITE as disseminations and scattered crystals
20% CHLORITE as patches
20% PYRRHOTITE as laminations, bedded
5% MOLYBDENITE as macroveins
1% SPHALERITE as disseminations and scattered crystals

125.12 128.17 3 m OF HEAVY 30% SULPHIDES IN ORDER OF IMPORTANCE: PO,PY,CP. MATRIX IS VARIABLE FROM BASALTIC TO SILICEOUS (METACHERT). 5-10% GARNETS UP TO 5MM IN DIAMETER. IT WOULD APPEAR THAT THE HOST ROCK WAS ORIGINALLY BASALTIC AND THAT THE SULPHIDE PHASE ACCOMPANIED BY SILICA HAS BEEN "SHOT" INTO THIS ZONE

FROM 128.17MT. TO 130.15MT.

light green META TUFF
Textures noted: BEDDED
5% BIOTITE as disseminations and scattered crystals
1% GARNET as spots
5% PYRITE as laminations, bedded
0.5% PYRRHOTITE as laminations, bedded
1% SPHALERITE as laminations, bedded

THIS TUFF CONTAINS SOME MAFIC BANDS AND IS OF INTERMEDIATE COMPOSITION.

FROM 130.15MT. TO 158.50MT.

light green BASALT with AMPHIBOLES , FELDSPARS, GEN. ,
Textures noted: MASSIVE
1% QUARTZ as microveins
1% CARBONATE as microveins
.3% PYRITE as microveins
1% FELDSPAR as microveins
1% EPIDOTE as microveins

145.70 150.27 EPIDOTE,PYRITE FRACTURE FILLING AND ALSO QZ/CB/KF FRACTURE
130.24 142.19 BOX WAS SPILT

FROM 130.79MT. TO 131.00MT.
100% of this subinterval is

dark grey DACITIC TUFF
Textures noted: TUFFACEOUS
Structures noted: CONTACT dip 00,
1% GARNET as patches

1% PYRITE as microveins
1% SPHALERITE as laminations, bedded

FROM 132.74MT. TO 134.11MT.
100% of this subinterval is
med. light green PYROXENITE
Textures noted: FOLIATED
Structures noted: CONTACT dip 05,
0.5% MAGNETITE as disseminations and scattered crystals
1% PYRITE as disseminations and scattered crystals
5% CHLORITE as pervasive mineralization

132.74 134.11 SLIGHTLY MAGNETIC
157.58 158.50 EPIDOTE+ KFELDSPAR FRACTURE FILLING AT 90 TO CORE NORMAL

FROM 134.7 MT. TO 135.3 MT.
100% of this subinterval is
med. light green PYROXENITE
Textures noted: FOLIATED
Structures noted: CONTACT dip 05,
/ MAGNETITE as disseminations and scattered crystals
1% PYRITE as disseminations and scattered crystals
5% CHLORITE as pervasive mineralization

136.20 147.20 WEAKLY VARIOLITIC BASALT
END 158.50 158.50

IN-HOLE SURVEY AT 155.45 MT.
GRID AZIMUTH OF HOLE 190.00 VERTICAL ANGLE -51.0
TRUE AZIMUTH OF HOLE 225

A001
AUNN GTM AUGTM AG PM CU % CU PM ZN % ZN
ALAB CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP H-COR H-COR H-COR H-COR H-COR H-COR
AMTH FA FA AA AA AA

A001	1268	1368	2508	000	0.38				
A001	5379	5479	2509	000	.17				
A001	8473	8573	2510	.17	1.30	680			
A001	11918	11988	2511	01.17	5.49	420			
A001	11988	12128	2512	.17	1.10	316		640	
A001	12128	12248	2513	0.86	3.26	114		600	
A001	12248	12307	2514	.17	3.39	304		2560	
A001	12307	12411	2515	0.38	2.33	77		560	
A001	12411	12451	2516	.17	4.11	152		3600	
A001	12451	12509	2517	.17	0.79	141		3520	
A001	12512	12613	2518	12.99	10.29	2440		2860	
A001	12613	12716	2519	8.47	8.91	1200		2960	
A001	12716	12820	2520	3.57	10.97	2640		2720	
A001	12829	12914	2521	.17	4.11	140		1400	
A001	12914	13015	2522	0.45	7.89	277		116	
A001	13015	13100	2722	0.62	1.03			2240	

RASY NOTE: TRACE= LESS THAN .34G/METRIC TON
RASY TRACE DEFAULT VALUE SET AT 0.17 G/M. TON
/END

HOLE B2CH002
PLACER DEVELOPMENT LTD.,V.116, EASTMAIN
TWP. 2334 ,QUEBEC.
CLAIM NO. 404968-2
GRID NORTH -418.00 GRID EAST 1950.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -50.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 96.62mt.
Logged by: M.Drouin on (day/mo/yr)... JUN82
Drilled by: Bradley Bros. Ltd. (mo/yr)..JUN82

FROM 0.00MT. TO 13.71MT.
OVERBURDEN

FROM 13.71MT. TO 28.34MT.
med. dark green PILLOWED BASALT with AMPHIBOLES , FELDSPARS, GEN. ,
Textures noted: PILLOWED , MASSIVE , AMYGDALOIDAL
.1% PYRITE as microveins
.01% CHALCOPYRITE as microveins
.3% FELDSPAR as macroveins
.1% PYRRHOTITE as microveins

FROM 14.53MT. TO 14.84MT.
100% of this subinterval is the same as 13.71MT. to 28.34MT. except as noted
FORPHYRITC BASALT

FROM 22.89MT. TO 23.07MT.
100% of this subinterval is
medium grey GRANODIORITE with QUARTZ , FELDSPARS, GEN. ,
Textures noted: MASSIVE
Structures noted: CONTACT dip 00,
.01% CHALCOPYRITE as microveins
10% FELDSPAR as macroveins, and veins

FROM 23.93MT. TO 24.47MT.
100% of this subinterval is
medium grey GRANODIORITE with QUARTZ , FELDSPARS, GEN. ,
Textures noted: MASSIVE
Structures noted: CONTACT dip 00,
2.5% FELDSPAR as macroveins, and veins

FROM 16.12MT. TO 16.76MT.
100% of this subinterval is
med. dark green BASALT with AMPHIBOLES , FELDSPARS, GEN. ,
Textures noted: MASSIVE
.01% PYRITE as microveins

FROM 27.98MT. TO 28.34MT.
100% of this subinterval is
GRANODIORITE
.01% CHALCOPYRITE as microveins
.01% PYRRHOTITE as microveins

FROM 28.34MT. TO 46.63MT.

med. dark green BASALT with AMPHIBOLES , FELDSPARS, GEN. ,
Textures noted: MASSIVE , PILLOWED
2.5% FELDSPAR as microveins
2.5% EPIDOTE as microveins

30.48 34.74 PALE YELLOWNISH GREEN PATCHES AT IRREGULAR INTERVALS,
MORE SILICIC MATERIAL,POSSIBLY CONTAINING FINE
GRAINED EPIDOTE

FROM 33.01MT. TO 33.25MT.
100% of this subinterval is
medium grey GRANODIORITE with QUARTZ , FELDSPARS, GEN. ,
Textures noted: MASSIVE

FROM 35.51MT. TO 35.72MT.
100% of this subinterval is
GRANODIORITE
Textures noted: MASSIVE
LOCALLY BASALT BECOME COARSER GRAIN
49.38 49.83 BASALT BECOME MORE DACITIC IN COMPOSITION

FROM 46.63MT. TO 54.40MT.
medium green BASALT; TUFFACEOUS
.3% QUARTZ as microveins
5% BIOTITE as laminations, bedded
1% CARBONATE as laminations, bedded
.3% FELDSPAR as microveins

FROM 54.40MT. TO 58.83MT.
medium grey META-DACITE
Textures noted: TUFFACEOUS
Structures noted: CONTACT dip 10,
1% PYRITE as microveins
.3% CHALCOPYRITE as microveins
.03% PYRRHOTITE as microveins

FROM 57.70MT. TO 58.52MT.
100% of this subinterval is
med. dark green BASALT
5% BIOTITE as laminations, bedded
.3% PYRITE as microveins

FROM 58.83MT. TO 65.60MT.
med. dark green BASALT with AMPHIBOLES , FELDSPARS, GEN. ,
Textures noted: MASSIVE
.3% PYRITE as microveins
1% FELDSPAR as macroveins
59.04 59.13 GRANITIC DYKE
62.60 62,73 CARBONATE/QUARTZ/KFELDSPAR DYKE

FROM 61.02MT. TO 62.94MT.
100% of this subinterval is
dark green BASALT with AMPHIBOLES , FELDSPARS, GEN. ,
Textures noted: MASSIVE
.3% PYRITE as microveins
1% FELDSPAR as macroveins

FROM 65.60MT. TO 69.31MT.
RHYOLITIC TUFF with QUARTZ , FELDSPARS, GEN. ,
Textures noted: TUFFACEOUS
5% QUARTZ as eyes, augen
2.5% BIOTITE as laminations, bedded
1% PYRITE as disseminations and scattered crystals

FROM 69.31MT. TO 75.71MT.
med. light green PYROXENITE with AMPHIBOLES , FELDSPARS, GEN. ,
Textures noted: MASSIVE
1% BIOTITE as laminations, bedded
69.31 75.71 MAGNETIC AND TALCOSE ALONG FRACTURES

FROM 74.31MT. TO 74.92MT.
100% of this subinterval is
RHYOLITIC TUFF
Textures noted: TUFFACEOUS
1% MARIPOSITE as microveins

FROM 75.71MT. TO 77.30MT.
dark green META BASALT; GARNETIFEROUS,TUFFACEOUS
2.5% GARNET as spots
2.5% PYRITE as microveins
.3% CHALCOPYRITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals
.3% SPHALERITE as microveins

FROM 77.30MT. TO 79.98MT.
META CHERT
1% MARIPOSITE as microveins
5% PYRITE as microveins
1% CHALCOPYRITE as disseminations and scattered crystals
10% PYRRHOTITE as microveins
.3% SPHALERITE as disseminations and scattered crystals
77.30 79.98 META CHERT : UNIT CONSIST OF 20 TO 30% BASALTIC TUFF, WHICH IS WEAKLY MINERALISED, LESS THAN 10% TOTAL SULPHIDES AND IS GARNETI-FEROUS. THE REMAINING 70% IS ESSENTIALLY COMPOSED OF 50% SILICA, 40% SULPHIDE AND 10% CHLORITE & MARIPOSITE (PROBABLE). PO OCCURS AS BANDS,SEVERAL CM IN THICKNESS (2 TO 3CM), PY,CP, OCCUR DISSEMINATED THROUGHOUT. MINOR DISSEMINA-TIONS OF SPHALERITE.

FROM 79.98MT. TO 85.50MT.
light grey DACITIC TUFF
5% QUARTZ as microveins
10% BIOTITE as pervasive mineralization
2.5% GARNET as spots
5% CARBONATE as microveins
5% PYRITE as laminations, bedded
1% CHALCOPYRITE as disseminations and scattered crystals
.3% FELDSPAR as microveins
20% CHLORITE as microveins

.3% PYRRHOTITE as disseminations and scattered crystals
2.5% SPHALERITE as microveins

FROM 80.80MT. TO 81.69MT.
100% of this subinterval is
dark green META BASALT; TUFFACEOUS
5% BIOTITE as disseminations and scattered crystals
1% CARBONATE as laminations, bedded
1% SPHALERITE as microveins

83.51 83.58 10CM THICK BAND CONTAINING 15% SPHALERITE AND 5% PY

81.69 85.50 SEVERAL(4) QUARTZ VEINS MINERALISED WITH DISSEMINATED PYRITE AND CONTAINING CHLORITIC MATERIAL

FROM 85.50MT. TO 96.62MT.
medium green BASALT
Textures noted: MASSIVE
1% QUARTZ as microveins
1% CARBONATE as microveins

FROM 87.57MT. TO 88.12MT.
100% of this subinterval is
QUARTZ VEIN
100% QUARTZ as massive

FROM 85.60MT. TO 90.50MT.
100% of this subinterval is
medium green PYROXENITE
Textures noted: SCHISTOSE
1% PYRITE as microveins
1% PYRRHOTITE as microveins

88.12 88.70 PROBABLE FAULT ZONE

93.57 96.60 BASALT BECOMING WEAKLY VARIOLITIC

END 96.62 96.62

IN-HOLE SURVEY AT 95.40 MT.
GRID AZIMUTH OF HOLE 188.00 VERTICAL ANGLE -47.00
TRUE AZIMUTH OF HOLE 223

A001										
AUMM			GTM	AVGTM	AGPPM	CU %	CUPPM	ZN %	ZN	
ALAB			CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC							
ATYP			H-COR	H-COR	H-COR	H-COR	H-COR	H-COR		
AMTH			FA	FA	AA					
A001	5611	5711	2723	.17	1.37	600		117		
A001	5843	5943	2724	0.41	3.43	800				
A001	7571	7671	2725	.17	4.46		.094		.12	
A001	7729	7829	2476	19.20	8.23		.28		.17	
A001	7829	7929	2477	10.22	5.14		.11		.049	
A001	7929	8029	2478	1.34	9.26		.20		.13	
A001	8029	8129	2479	.17	.17	47		860		
A001	8129	8229	2480	.17	.17	31		1040		
A001	8229	8329	2481	.17	.17		.034		.077	
A001	8329	8429	2482	.17	.17		.027		1.22	
A001	8429	8529	2483	.17	.17		.022		.35	
A001	8529	8629	2484	.17	.17		.022		.16	

RASY
RASY
/END

NOTE: TRACE = LESS THAN .34G/METRIC TON
TRACE VALUE = 0.17 G/METRIC TON

HOLE B2CH003
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN
TWP. 2334, QUEBEC.
CLAIM NO. 404976-1
GRID NORTH -505.00 GRID EAST 2850.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -50.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 105.52mt.
Logged by: M.Drouin on (day/mo/yr)... JUN82
Drilled by: Bradley Bros. Ltd. (mo/yr).. JUN82

FROM 0.00MT. TO 12.52MT.
OVERBURDEN

FROM 12.52MT. TO 37.06MT.
dark green PILLOWED BASALT with AMPHIBOLES , PLAGIOCLASE ,
Textures noted: MASSIVE ,PILLOWED
Structures noted: PILLOW SELVAGES dip 40,
2.5% QUARTZ as microveins
1% BIOTITE as interstitial fillings
2.5% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
2.5% PYRRHOTITE as individual crystals
16.15 17.68 GOOD PILLOW RIMS WITH DISSEMINATED AND VEINLETS OF PO IN RIMS.CPY ASSOCIATED WITH PO. MAXIMUM 5% PO. LESS THAN 1% CPY. SAMPLE TAKEN.

FROM 13.65MT. TO 13.89MT.
100% of this subinterval is
light grey RHYOLITIC TUFF with QUARTZ , ,
Textures noted: MASSIVE
Structures noted: CONTACT dip 10,
.3% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals
13.65 13.89 COULD BE JUST A SILICIFIED ZONE IN METABASALT. SAMPLE TAKEN.

FROM 37.06MT. TO 40.23MT.
dark green BASALT with AMPHIBOLES , PLAGIOCLASE ,
Textures noted: MASSIVE
1% BIOTITE as disseminations and scattered crystals
.01% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals
37.06 40.23 COARSE GRAINED BASALT

FROM 40.23MT. TO 56.45MT.
med. dark green BASALT with AMPHIBOLES , PLAGIOCLASE ,
Textures noted: MASSIVE
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
1% PYRITE as disseminations and scattered crystals
1% CHALCOPYRITE as disseminations and scattered crystals

5% PYRRHOTITE as microveins
40.23 56.45 FG TENDS TO OCCUR AS BANDS AVERAGING 1CM AT 0 DEGREES TO CORE NORMAL AND AS MINOR DISSEMINATIONS. CPY&PY FOLLOW.

FROM 51.60MT. TO 52.21MT.
100% of this subinterval is the same as 40.23MT. to 56.45MT. except as noted
BASALT
10% BIOTITE as laminations, bedded

FROM 42.06MT. TO 42.24MT.
100% of this subinterval is
RHYOLITE PORPHYRY with QUARTZ , FELDSPARS, GEN. ,
Textures noted: FOLIATED
Structures noted: CONTACT dip 15,
5% QUARTZ as eyes, augen

FROM 53.90MT. TO 56.45MT.
100% of this subinterval is
med. light grey PYROXENITE with AMPHIBOLES , PLAGIOCLASE ,
Textures noted: FOLIATED

FROM 56.08MT. TO 56.45MT.
100% of this subinterval is the same as 40.23MT. to 56.45MT. except as noted
PYROXENITE
2.5% BIOTITE as laminations, bedded

FROM 56.45MT. TO 58.70MT.
META-RHYOLITE with QUARTZ , FELDSPARS, GEN. , and BIOTITIC
Textures noted: FOLIATED
Structures noted: CONTACT dip 10, FOLIATION dip 10
5% BIOTITE as laminations, bedded
.01% PYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals

FROM 58.70MT. TO 64.00MT.
PYROXENITE with AMPHIBOLES , FELDSPARS, GEN. , and TALCOSE
Textures noted: FOLIATED
Structures noted: CONTACT dip 00, FOLIATION
/ MAGNETITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals
58.70 64.00 STRONGLY MAGNETIC. SCHISTOSE,TALCOSE
60.65 61.26 POSSIBLE FAULT ZONE

FROM 61.26MT. TO 63.09MT.
100% of this subinterval is the same as 58.70MT. to 64.00MT. except as noted
PYROXENITE
20% BIOTITE as laminations, bedded

FROM 63.31MT. TO 63.52MT.
100% of this subinterval is
QUARTZ VEIN

FROM 64.00MT. TO 72.85MT.
med. dark green PYROXENITE with AMPHIBOLES , FELDSPARS, GEN. , and BIOTITIC
Textures noted: MASSIVE

20% BIOTITE as laminations, bedded
.1% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
5% PYRRHOTITE as laminations, bedded

70.59 72.93 20 TO 25 % SULPHIDE,MOSTLY PO WITH 3% PY AND POSSIBLE CP

FROM 70.59MT. TO 70.93MT.
100% of this subinterval is
MAFIC TUFF
5% PYRITE as disseminations and scattered crystals
1% CHALCOPYRITE as disseminations and scattered crystals
20% PYRRHOTITE as laminations, bedded

FROM 70.93MT. TO 72.85MT.
100% of this subinterval is
medium green PYROXENITE with AMPHIBOLES , FELDSPARS, GEN. , and TALCOSE
Textures noted: MASSIVE
.07% MAGNETITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as blebs

FROM 72.85MT. TO 74.68MT.
dark grey META-RHYOLITE with QUARTZ , FELDSPARS, GEN. , and BIOTITIC
Textures noted: MASSIVE
Structures noted: CONTACT dip 05,
5% BIOTITE as laminations, bedded
.01% PYRITE as microveins

FROM 74.68MT. TO 76.20MT.
medium green PYROXENITE with AMPHIBOLES , FELDSPARS, GEN. ,
Textures noted: MASSIVE
5% BIOTITE as laminations, bedded
.01% PYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 76.20MT. TO 78.64MT.
medium green RHYOLITIC TUFF; SILICIOUS
Textures noted: BEDDED
Structures noted: CONTACT dip 05,
2.5% BIOTITE as laminations, bedded
.01% PYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals

FROM 77.57MT. TO 78.18MT.
100% of this subinterval is
dark green BASALT;BIOTITIC
30% BIOTITE as laminations, bedded

FROM 78.64MT. TO 105.52MT.
medium green BASALT; BIOTITIC
Textures noted: MASSIVE
5% BIOTITE as laminations, bedded
1% PYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

FROM 81.60MT. TO 82.10MT.
100% of this subinterval is
PYROXENITE
Textures noted: MASSIVE

89.61 94.18 BASALT BECOMES MORE FELSIC IN COMPOSITION,GRADUAL CHANGE

FROM 84.10MT. TO 84.60MT.
100% of this subinterval is
PYROXENITE
Textures noted: MASSIVE

FROM 94.18MT. TO 95.25MT.
100% of this subinterval is
dark grey META-DACITE
Textures noted: MASSIVE
Structures noted: CONTACT dip 10,
2.5% BIOTITE as laminations, bedded
1% PYRITE as disseminations and scattered crystals

FROM 98.21MT. TO 101.19MT.
100% of this subinterval is
dark grey META-DACITE
Textures noted: FOLIATED
5% BIOTITE as disseminations and scattered crystals
1% PYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

96.62 97.54 PROBABLE GRID ALTERATION
100.00 100.00 MASSIVE BIOTITE = 2 INCHES
CONDUCTOR CAUSED BY PO BANDS THROUGHOUT HOLE AND IN PAR-
TICULAR BY PO IN SECTION ^82.47 TO 82.58
END OF HOLE AT 105.52 METRES
END 105.52 105.52

IN-HOLE SURVEY AT 103.60 MT.
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -44.0
TRUE AZIMUTH OF HOLE 215

A001
AUMM GTM AUGTM AGPPM CU
ALAB CHIMTCCHIMTCCHIMTC
ATYP H-COR H-COR H-COR
AMTH FA FA AA
A001 1366 1390 2501 000 0.34
A001 1610 1710 2502 000 .17 230
A001 3010 3110 2503 000 0.82 420
A001 4349 4450 2504 000 1.05 420
A001 4513 4603 2505 000 .17 400
A001 6462 6562 2506 .17 .17 36
A001 7059 7092 2507 4.89 2.54 740
RASY NOTE : TRACE = LESS THAN .34G/METRIC TON
RASY TRACE VALUE = 0.17 G/METRIC TON.
/END

HOLE 82CH 04
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN
TWP. 2334 ,QUEBEC.
CLAIM NO. 404968-2
GRID NORTH -390.00 GRID EAST 1900.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -50.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 131.36mt.
Logged by: M.Drouin (day/mo/yr)... JUN82
Drilled by: Bradley Bros. Ltd. (mo/yr)..JUN82

FROM 0.00MT. TO 9.14MT.
OVERBURDEN

FROM 9.14MT. TO 19.35MT.
dark grey GRANODIORITE with FELDSPARS, GEN. , QUARTZ ,
Textures noted: MASSIVE
Structures noted: CONTACT dip 10,
2.5% QUARTZ as microveins
5% BIOTITE as disseminations and scattered crystals
.3% PYRITE as microveins
.3% CHALCOPYRITE as microveins
.3% FELDSPAR as microveins
5% CHLORITE as disseminations and scattered crystals
5% EPIDOTE as disseminations and scattered crystals
9.14 19.35 MINOR EPIDOTISATION OF FELDSPARS

FROM 9.44MT. TO 19.35MT.
30% of this subinterval is
med. dark green BASALT
Textures noted: MASSIVE

FROM 19.35MT. TO 38.89MT.
med. dark green BASALT
Textures noted: MASSIVE
1% QUARTZ as microveins
.3% FELDSPAR as microveins
21.03 21.30 FINE GRAINED GRANITIC DYKE
28.62 29.65 ACID TUFF BANDS_____CONTAINS 20 %
FINE BIOTITE
30.57 30.84 FINE GRAINED GRANITIC DYKE
32.00 38.89 BASALT IS PROBABLY PILLOWED

FROM 38.89MT. TO 41.54MT.
light grey GRANODIORITE
Structures noted: DYKE ,
10% QUARTZ as macroveins
38.89 41.54 THIS SECTION CONSISTS OF METABASALT INTRUDED BY GRAND-
DIORITE WHICH IN TURN HAS BEEN INTRUDED BY QUARTZ.
ONLY ABOUT 30% OF THIS SECTION CONSISTS OF BASALTIC
MATERIAL

FROM 41.54MT. TO 42.97MT.
med. dark green PORPHYRITC BASALT

Textures noted: PORPHYRITIC , MASSIVE

FROM 42.97MT. TO 73.58MT.
med. dark green PILLOWED BASALT
Textures noted: PILLOWED , MASSIVE , AMYGDALOIDAL
2.5% QUARTZ as microveins
1% BIOTITE as laminations, bedded
5% CARBONATE as microveins
47.85 51.51 BASALT IS PILLOWED
56.39 66.14 GOOD PILLOW RIMS

FROM 43.58MT. TO 46.63MT.
70% of this subinterval is
med. light grey GRANODIORITE
Textures noted: , MASSIVE

FROM 57.08MT. TO 58.20MT.
100% of this subinterval is the same as 42.97MT. to 73.58MT. except as noted
PILLOWED BASALT
Textures noted: PILLOWED
57.08 58.20 10% PO IN PILLOW RIMS TRACE CPY.
66.14 73.58 BASALT IS ESSENTIALLY MASSIVE.

FROM 69.18MT. TO 72.23MT.
100% of this subinterval is the same as 42.97MT. to 73.58MT. except as noted
BASALT
.3% QUARTZ as microveins
5% FELDSPAR as microveins
5% EPIDOTE as microveins

FROM 73.58MT. TO 76.81MT.
pale grey RHYOLITIC TUFF;CHERTY,AND SERICITIC
Structures noted: BEDDING dip 10,
5% GARNET as laminations, bedded
.1% PYRITE as disseminations and scattered crystals

FROM 76.81MT. TO 85.86MT.
BASALT
Textures noted: MASSIVE , BANDED
2.5% QUARTZ as microveins
10% GARNET as laminations, bedded
1% CARBONATE as microveins
? EPIDOTE as interstitial fillings
76.80 85.86 FOLIATED NON-MAGNETIC

FROM 84.40MT. TO 84.50MT.
100% of this subinterval is the same as 76.81MT. to 85.86MT. except as noted
BASALT
5% GARNET as disseminations and scattered crystals

FROM 85.40MT. TO 85.86MT.
100% of this subinterval is
DYKE
60% QUARTZ as disseminations and scattered crystals
5% GARNET as disseminations and scattered crystals

30% CHLORITE as parvasive mineralization

85.40 85.86 QUARTZ INJECTION IN BASALT UNIT CONSISTS OF QUARTZ CHLORITE AMPHIBOLS AND SOME GARNETS.

FROM 85.86MT. TO 89.30MT.
dark green BASALT; BIOTITIC
Structures noted: BANDING ,
30% BIOTITE as laminations, bedded
1% CARBONATE as microveins

FROM 86.47MT. TO 86.86MT.
100% of this subinterval is
light grey RHYOLITIC TUFF; CHERTY
Structures noted: BANDING ,
2.5% BIOTITE as disseminations and scattered crystals
20% SERICITE as laminations, bedded

FROM 87.47MT. TO 88.23MT.
100% of this subinterval is
light grey RHYOLITIC TUFF; CHERTY
Structures noted: BANDING ,
2.5% BIOTITE as disseminations and scattered crystals
5% SERICITE as laminations, bedded

FROM 89.30MT. TO 98.75MT.
medium green BASALT
Textures noted: MASSIVE
MAGNETIC---(PYRX??)

FROM 90.83MT. TO 92.66MT.
100% of this subinterval is the same as 89.30MT. to 98.75MT. except as noted
BASALT
5% QUARTZ as laminations, bedded
5% BIOTITE as laminations, bedded
5% CARBONATE as laminations, bedded
1% PYRITE as laminations, bedded

FROM 98.75MT. TO 104.97MT.
med. light grey META-DACITE; TUFFACEOUS
1% PYRITE as laminations, bedded

FROM 101.50MT. TO 104.97MT.
100% of this subinterval is the same as 98.75MT. to 104.97MT. except as noted
META-DACITE
1% GARNET as disseminations and scattered crystals

FROM 104.97MT. TO 106.40MT.
META CHERT with SILLIMANITE,
Structures noted: BANDING ,
5% GARNET as laminations, bedded
10% PYRITE as laminations, bedded
2.5% CHALCOPYRITE as disseminations and scattered crystals
10% PYRRHOTITE as laminations, bedded

105.00 106.40 A DEFINITE METAL ZONING.UP TO 347 PY IS PREDOMINATE AFTER 347 PO IS DOMINANT. NO SPHALERITE SEEN

THIS HOLE IS SIGNIFICANTLY DIFFERENT FROM 82-1 AND 82-2
ONE CAN REALLY SAY THAT THE HOST ROCK IS A META-CHERT.

FROM 100.00MT. TO 100.40MT.
100% of this subinterval is
dark green PYROXENITE
Textures noted: MASSIVE
5% BIOTITE as disseminations and scattered crystals
.07 MAGNETITE as disseminations and scattered crystals

FROM 106.40MT. TO 131.36MT.
med. dark green BASALT
Textures noted: MASSIVE
1% QUARTZ as microveins
1% BIOTITE as laminations, bedded
1% CARBONATE as laminations, bedded
.01% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.03% PYRRHOTITE as microveins

FROM 115.80MT. TO 118.10MT.
100% of this subinterval is
med. light green META GABBRO
Textures noted: MASSIVE
.07 MAGNETITE as disseminations and scattered crystals

115.20 116.10 POSSIBLE FAULT 20 WE.
126.70 131.36 BASALT BECOMING WEAKLY VARIOLITIC.
END 131.36 131.36 END OF HOLE.

IN-HOLE SURVEY AT 128.60 MT.
GRID AZIMUTH OF HOLE 188.00 VERTICAL ANGLE -47.00
TRUE AZIMUTH OF HOLE 223

A001
AUMM GTM AUGTM AGPPM CU % CUPPM ZN % ZN
ALAB CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP H-COR H-COR H-COR H-COR H-COR H-COR
AMTH FA FA AA

A001	1798	1847	2485	.17	.17		213	
A001	5709	5822	2486	000	.17		1960	
A001	8541	8586	2487	.17	.17			
A001	9086	9187	2488	.17	.17			
A001	9187	9287	2489	.17	.17			
A001	10055	10156	2490	.17	.17			
A001	10299	10408	2491	.17	.17			
A001	10408	10497	2492	.17	.17		248	
A001	10497	10604	2493	6.75	4.80		.26	440
A001	10604	10644	2494	22.29	7.89		.19	
A001	10644	10744	2495	.17	.17		222	

RASY NOTE: TRACE = LESS THAN .346/METRIC TON
RASY TRACE VALUE = 0.17 G/METRIC TON
/END

HOLE B2CH 05
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN
TWP. 2334 ,QUEBEC .
CLAIM NO. 404976-1
GRID NORTH -440.00 GRID EAST 2800.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 123.75mt.
Logged by: H.Thibeutot on (day/mo/yr)... JUN82
Drilled by: Bradley Bros. Ltd. (mo/yr)... JUN82

FROM 0.00MT. TO 13.41MT.
OVERBURDEN

FROM 13.41MT. TO 30.75MT.
med. dark green PILLOWED BASALT with AMPHIBOLES , PYROXENE ,
Textures noted: MASSIVE , PILLOWED
2.5% BIOTITE as laminations, bedded
.1% PYRITE as disseminations and scattered crystals
.1% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals
24.53 25.60 BIOTISED ZONE ^ 7 TO 15%
25.51 26.73 FOLIATED

FROM 15.15MT. TO 15.76MT.
100% of this subinterval is
medium green GRANODIORITE with QUARTZ , FELDSPARS, GEN. ,
Structures noted: CONTACT dip 05, VEIN QUARTZ dip 30

FROM 19.05MT. TO 22.70MT.
100% of this subinterval is
medium grey RHYOLITIC TUFF with QUARTZ , FELDSPARS,and is
SERICITIC, GARNETIFEROUS.
Textures noted: BEDDED
Structures noted: CONTACT dip 10, BEDDING dip 20
1% GARNET as disseminations and scattered crystals
.01% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals
19.05 20.42 GARNET AND SPHALERITE ARE ASSOCIATED IN THE FIRST METER

FROM 22.70MT. TO 23.17MT.
100% of this subinterval is
dark green PYROXENITE with AMPHIBOLES , PYROXENES,and BIOTITE
Structures noted: CONTACT dip 05,

FROM 28.01MT. TO 30.75MT.
100% of this subinterval is
medium green GRANODIORITE with QUARTZ , FELDSPARS, GEN. ,
Structures noted: CONTACT dip 05,
1% PYRITE as microveins
.3% CHALCOPYRITE as microveins
2.5% FELDSPAR as microveins
5% PYRRHOTITE as microveins

FROM 30.75MT. TO 39.32MT.
dark green PILLOWED BASALT with AMPHIBOLES , FELDSPARS,
Textures noted: MASSIVE , PILLOWED
5% BIOTITE as laminations, bedded
.3% PYRITE as microveins
.1% CHALCOPYRITE as microveins
.3% PYRRHOTITE as microveins

FROM 35.14MT. TO 35.51MT.
100% of this subinterval is
medium green GRANODIORITE
Textures noted: MASSIVE
Structures noted: CONTACT dip 10,
2.5% as microveins and veins
1% PYRRHOTITE as microveins

FROM 35.51MT. TO 37.73MT.
100% of this subinterval is the same as 30.75MT. to 39.32MT. except as noted
BASALT
Structures noted: VEIN QUARTZ dip 10,
10% BIOTITE as laminations, bedded

FROM 37.73MT. TO 39.32MT.
100% of this subinterval is the same as 30.75MT. to 39.32MT. except as noted
pale green BASALT
1% PYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

FROM 37.80MT. TO 39.30MT.
100% of this subinterval is
PYROXENITE
Textures noted: MASSIVE

FROM 39.32MT. TO 39.93MT.
pale green DACITIC TUFF
Textures noted: SCHISTOSE , BEDDED
Structures noted: SCHISTOSITY , VEIN QUARTZ
1% GARNET as spots
5% PYRITE as microveins
1% PYRRHOTITE as disseminations and scattered crystals

FROM 39.93MT. TO 50.17MT.
dark green MAFIC TUFF with AMPHIBOLES , FELDSPARS,and BIOTITE
GARNETIFEROUS
Structures noted: VEIN QUARTZ ,
20% BIOTITE as laminations, bedded
2.5% GARNET as spots
1% PYRITE as microveins
1% CHALCOPYRITE as microveins
2.5% PYRRHOTITE as microveins

FROM 50.17MT. TO 64.40MT.
med. dark green PILLOWED BASALT with AMPHIBOLES , PYROXENE ,
Textures noted: MASSIVE , AMYGDALOIDAL
.3% BIOTITE as laminations, bedded

.3% PYRITE as microveins
.3% CHALCOPYRITE as microveins
1% PYRRHOTITE as microveins

50.17 59.74 GRID ALTERATION

54.86 62.79 PILLOWS, WITH ASSOCIATED MINERALISATION (PO,PY,CP)

FROM 49.22MT. TO 49.62MT.
100% of this subinterval is
QUARTZ VEIN
Structures noted: CONTACT dip 50,
.01% PYRITE as microveins
.07% CHALCOPYRITE as microveins
1% FELDSPAR as microveins

FROM 52.58MT. TO 53.46MT.
100% of this subinterval is
GRANODIORITE

FROM 64.40MT. TO 66.66MT.
medium green BASALT with AMPHIBOLES , PYROXENE ,
Textures noted: MASSIVE
Structures noted: CONTACT dip 05,
.3% PYRITE as microveins
.01% CHALCOPYRITE as microveins
.03% FELDSPAR as microveins

64.40 66.66 COARSE GRAINED BASALT

FROM 66.66MT. TO 89.58MT.
med. dark green PILLOWED BASALT with AMPHIBOLES , PYROXENE ,
Textures noted: MASSIVE , PILLOWED , FLOW BRECCIA
.3% QUARTZ as microveins
.3% PYRITE as microveins
.1% CHALCOPYRITE as microveins
.1% FELDSPAR as microveins
1% PYRRHOTITE as microveins

67.97 68.88 WEAK GRID ALTERATION

67.36 68.58 PILLOWED

72.08 72.85 FRACTURED ZONE WITH PY,CP TRACE

74.98 83.21 PILLOWED WITH MINERALISATION IN RIMS AND IN FRACTURES AT 81.53

FROM 89.58MT. TO 90.68MT.
META-RHYOLITE
Textures noted: MASSIVE
Structures noted: CONTACT ,
1% GARNET as disseminations and scattered crystals
.3% PYRITE as microveins

FROM 90.68MT. TO 96.32MT.
light green PYROXENITE with AMPHIBOLES , FELDSPARS, GEN. , and TALCOSE
Textures noted: FOLIATED
20% QUARTZ as macroveins
.07 MAGNETITE as laminations, bedded

91.44 91.54 SLIGHTLY BIOTISED ZONE * .1 M

91.44 95.09 STRONGLY MAGNETIC

95.00 95.00 FAULT ZONE

FROM 96.32MT. TO 98.82MT.
medium grey META-RHYOLITE with BIOTITE
Textures noted: MASSIVE
Structures noted: VEIN QUARTZ dip 10, CONTACT dip 00
5% BIOTITE as laminations, bedded
.3% PYRITE as microveins
.1% CHALCOPYRITE as microveins
1% PYRRHOTITE as microveins

FROM 98.82MT. TO 104.82MT.
medium green PYROXENITE with AMPHIBOLES , FELDSPARS, GEN. , and BIOTITE
Textures noted: MASSIVE
10% BIOTITE as laminations, bedded
.07 MAGNETITE as laminations, bedded
2.5% PYRITE as microveins
2.5% CHALCOPYRITE as microveins
5% PYRRHOTITE as microveins

FROM 100.40MT. TO 101.65MT.
100% of this subinterval is the same as 98.82MT. to 104.82MT. except as noted
META GABBRO
5% PYRITE as microveins
2.5% CHALCOPYRITE as microveins
10% PYRRHOTITE as microveins

FROM 102.40MT. TO 103.60MT.
100% of this subinterval is
DACITIC TUFF
5% PYRITE as microveins
2.5% CHALCOPYRITE as microveins
30% MUSCOVITE as pervasive mineralization
10% PYRRHOTITE as microveins

FROM 104.82MT. TO 107.14MT.
med. light grey RHYOLITIC TUFF with QUARTZ , FELDSPARS,
Structures noted: CONTACT dip 05,
20% BIOTITE as pervasive mineralization

FROM 107.14MT. TO 120.70MT.
dark green BASALT with AMPHIBOLES , FELDSPARS
Textures noted: MASSIVE
Structures noted: VEIN QUARTZ dip 00,
2.5% BIOTITE as laminations, bedded
.01% PYRITE as microveins
.01% CHALCOPYRITE as microveins
.03% PYRRHOTITE as microveins

FROM 109.27MT. TO 110.34MT.
100% of this subinterval is
med. light grey QUARTZ-FELDSPAR PORPHYRY with QUARTZ , FELDSPARS, GEN.
,
Textures noted: MASSIVE
Structures noted: CONTACT dip 05,

CONDUCTOR CAUSED BY PO BANDS THROUGHOUT HOLE AND PARTICULARLY
BY PO IN SECTION 100.4 TO 101.65 M
END OF HOLE 123.75 M

FROM 113.80MT. TO 114.00MT.
100% of this subinterval is
medium green PYROXENITE
Textures noted: MASSIVE

FROM 114.80MT. TO 115.60MT.
100% of this subinterval is
medium green PYROXENITE
Textures noted: MASSIVE

FROM 120.70MT. TO 123.75MT.
med. dark green VARIOLITIC BASALT
END 123.75 123.75

IN-HOLE SURVEY AT 123.75 MT.
GRID AZIMUTH OF HOLE 181.00 VERTICAL ANGLE -53.00
TRUE AZIMUTH OF HOLE 216

A001
AUMM GTM AUGTM AGPPM CU % CUPPM ZN % ZN
ALAB CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP H-COR H-COR H-COR H-COR H-COR H-COR
AMTH FA FA AA

A001	1905	2005	2523	.17	1.10			.026	
A001	2700	2800	2524	.17	.17		.11		
A001	3124	3224	2525	.17	.55	440			
A001	3670	3770	2705	.17	000	1560			
A001	3872	3972	2706	.34	2.54	216			
A001	3972	4072	2707	.34	1.79	400			
A001	4374	4474	2708	.17	.17	640			
A001	4474	4574	2709	.17	.17	460			
A001	4868	4968	2710	.17	.17	560			
A001	5087	5187	2711	1.06	3.26	520			
A001	5438	5538	2712	.17	.17	440			
A001	5761	5861	2713	.17	.17	296			
A001	5910	6010	2714	.17	.17	500			
A001	6010	6110	2715	.17	.51	342			
A001	7989	8089	2716	.41	8.91	2000			
A001	8108	8208	2717	.17	2.64	2080			
A001	9022	9122	2718	.17	.17	120		2580	
A001	10074	10174	2719	4.46	1.13	2000			
A001	10208	10308	2720	.17	000	480			
A001	10308	10408	2721	.65	.17	22			

RASY NOTE: TRACE = LESS THAN .34G/METRIC TON
RASY TRACE VALUE=0.17 G/METRIC TON.
/END

HOLE 82CH 06
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN
TWP. 2334 ,QUEBEC.
CLAIM NO. 404966-3
GRID NORTH -490.00 GRID EAST 1950.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -50.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 127.71mt.
Logged by: M.Drouin on (day/mo/yr)... JUN82
Drilled by: Bradley Bros. Ltd. (mo/yr)...JUN82

FROM 0.00MT. TO 7.32MT.
OVERBURDEN

FROM 7.32MT. TO 17.68MT.
med. dark green BASALT
Textures noted: MASSIVE
5% QUARTZ as microveins
5% CARBONATE as microveins
7.32 17.68 COARSE GARINED BASALT WITH A DIORITIC DYKE AT10,97TO 11,13

FROM 17.68MT. TO 28.84MT.
med. dark grey MAFIC TUFF BIOTITIC,SILICIOUS
Structures noted: BANDING dip 00,
5% QUARTZ as microveins
40% BIOTITE as pervasive mineralization
5% GARNET as disseminations and scattered crystals
5% CARBONATE as microveins
1% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals
17.68 28.84 HEAVILY BIOTISED MAFIC TUFFS TO INTERMEDIATE WITH SECTIONS
UP TO 1 FOOT
THICK OF QUARTZ INJECTED (SILICIFIED) MATERIEL ASSOCIATED
WITH MINOR PO,PY,CPY CHLORITE IS FOUND WITH THE QUARTZ
VEINING

FROM 28.84MT. TO 37.12MT.
med. dark green PYROXENITE
Textures noted: MASSIVE
1% QUARTZ as microveins
1% CARBONATE as microveins
.3% FELDSPAR as microveins

FROM 34.20MT. TO 35.99MT.
100% of this subinterval is the same as 28.84MT. to 37.12MT. except as noted
med. dark green PYROXENITE; TALCOSE
1% QUARTZ as microveins
1% CARBONATE as microveins
.07 MAGNETITE as pervasive mineralization
34.20 35.99 TALCOSE STRONGLY MAGNETIC PYROXENITE,

FROM 37.12MT. TO 37.43MT.
med. dark green META BASALT
10% QUARTZ as pervasive mineralization

10% PYRITE as disseminations and scattered crystals
5% MUSCOVITE as microveins
1% PYRRHOTITE as disseminations and scattered crystals

FROM 37.43MT. TO 39.11MT.
med. dark green META BASALT
10% QUARTZ as macroveins
2.5% BIOTITE as microveins
2.5% PYRITE as disseminations and scattered crystals
.03% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as blebs
.01% SPHALERITE as disseminations and scattered crystals

FROM 38.22MT. TO 38.44MT.
100% of this subinterval is
QUARTZ VEIN
.3% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
1% CHLORITE as microveins
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 39.11MT. TO 40.36MT.
med. dark green META CHERT
30% QUARTZ as macroveins
20% PYRITE as microveins
1% CHALCOPYRITE as disseminations and scattered crystals
10% PYRRHOTITE as microveins
1% SPHALERITE as disseminations and scattered crystals
39.11 40.36 ORE ZONE META-CHERT : 35% TOTAL SULPHIDES
IN ORDER OF IMPORTANCE PY PO CPY SPHALERITE

FROM 40.36MT. TO 78.33MT.
med. dark green VARIOLITIC BASALT
Textures noted: AMYGDALOIDAL , BANDED
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
1% FELDSPAR as microveins
.1% PYRRHOTITE as microveins
.3% SPHALERITE as microveins
40.36 78.33 VARIOLITIC ABOVE FLOWS ARE WEAKLY VARIOLITIC,VARIOLITE
OCCUR AS CLUSTERS AT IRREGULAR INTERVALS
51.96 52.12 3 X 5MM THICK ZNS BANDS TO 30 TO CORE NORMAL
56.02 56.05 2 X 2MM THICK ZNS BANDS

FROM 60.96MT. TO 72.54MT.
100% of this subinterval is the same as 40.36MT. to 78.33MT. except as noted
BASALT
Textures noted: MASSIVE

FROM 78.33MT. TO 93.27MT.
med. dark green BASALT
Textures noted: MASSIVE , BANDED
5% QUARTZ as macroveins
5% BIOTITE as microveins

FROM 79.55MT. TO 85.30MT.
100% of this subinterval is
medium green PYROXENITE
Textures noted: MASSIVE
93.29 94.18 HIGHLY,AMYGDALOIDAL

FROM 93.27MT. TO 104.82MT.
med. dark green PILLOWED BASALT
Textures noted: AMYGDALOIDAL , PILLOWED
5% PYRRHOTITE as disseminations and scattered crystals

FROM 104.82MT. TO 108.20MT.
light grey CHERTY TUFF; SERICITIC
Structures noted: BEDDING dip 10, BANDING
.3% BIOTITE as disseminations and scattered crystals
.03% PYRITE as disseminations and scattered crystals
.03% SPHALERITE as disseminations and scattered crystals
105.00 105.00 THREAD OF PO+ZNS
107.89 108.20 VERY HEAVILY SERICITIZED

FROM 108.20MT. TO 109.30MT.
medium green PYROXENITE
Textures noted: MASSIVE
.07 MAGNETITE as disseminations and scattered crystals

FROM 109.30MT. TO 127.71MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
.1% CHALCOPYRITE as disseminations and scattered crystals
.3% FELDSPAR as microveins
97.54 97.54 FEW SPECKS CPY IN AMYGDULES
END 127.71 127.71

IN-HOLE SURVEY AT 126.19 MT.
GRID AZIMUTH OF HOLE 177.00 VERTICAL ANGLE -48.00
TRUE AZIMUTH OF HOLE 212

A001										
AUMM				GTM	AUGTM	AGPPM	CU %	CUPPM	ZN %	ZN
ALAB				CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC						
ATYP				H-COR	H-COR	H-COR	H-COR	H-COR	H-COR	
AMTH				FA	FA	AA		AA		
A001	1887	1957	2580	.17	000	75				
A001	2002	2103	2581	.17	000	73				
A001	2582	2682	2582	.17	.17	39				
A001	2682	2783	2583	.17	000	880				
A001	2783	2883	2584	.17	.17	400				
A001	3615	3713	2585	.17	000		.006			
A001	3713	3743	2586	1.34	.17		.046		.40	
A001	3743	3843	2587	.17	000		.048		.021	
A001	3843	3911	2588	6.72	1.03		.023		.027	
A001	3911	4011	2589	5.79	5.14		.33		.037	
A001	4011	4036	2590	3.57	4.46		.15		.072	

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A001  4036  4136      2591 .17   .17          .002      .007
A001  5111  5243      2592 .17   000                    .24
A001  9698  9799      2593 .17   000
A001  9976 10077      2594 .17   .17
RASY                       NOTE: TRACE = LESS THAN .34G/METRIC TON
RASY                  NOTE: TRACE DEFAULT = 0.17 G/METRIC TON
RASY                  NOTE: NIL DEFAULT = 000 G/METRIC TON
/END
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HOLE B2CH 07
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2334 ,QUEBEC.
CLAIM NO. 404976-1
GRID NORTH -400.00 GRID EAST 3050.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -50.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 138.99mt.
Logged by: M.Drouin on (day/mo/yr)... JUN82
Drilled by: Bradley Bros. Ltd. (mo/yr)...JUN82

FROM 0.00MT. TO 7.62MT.
OVERBURDEN

FROM 7.62MT. TO 52.73MT.
med. dark green PILLOWED BASALT; BIOTITIC
Textures noted: MASSIVE , PILLOWED , AMYGDALOIDAL
Structures noted: BANDING ,
2.5% QUARTZ as microveins
5% BIOTITE as laminations, bedded
.01% GARNET as disseminations and scattered crystals
10% CARBONATE as microveins
.03% CHALCOPYRITE as microveins
.3% PYRRHOTITE as microveins

FROM 7.62MT. TO 10.67MT.
100% of this subinterval is the same as 7.62MT. to 52.73MT. except as noted
BASALT
Textures noted: MASSIVE
7.62 10.67 COULD EITHER BE MASSIVE COARSE GRAINED FLOW OF A METAGABBRO

FROM 17.31MT. TO 17.83MT.
100% of this subinterval is the same as 7.62MT. to 52.73MT. except as noted
BASALT
50% BIOTITE as pervasive mineralization
25.48 25.51 A FEW GARNET CRYSTALS
26.51 26.51 A FEW GARNETS
30.78 30.94 1 TO 2% CPY IN CARBONATE BAND

FROM 17.89MT. TO 18.20MT.
100% of this subinterval is
med. dark grey META-RHYOLITE; BIOTITIC
10% BIOTITE as pervasive mineralization
5% MUSCOVITE as disseminations and scattered crystals
5% CHLORITE as laminations, bedded
2.5% PYRRHOTITE as microveins
7.62 52.70 MOST OF THIS SEQUENCE APPEAR TO BE PILLOWED
29.14 29.35 GRANODIORITE DYKE
50.60 52.70 INTERMERIATE TO MAFIC TUFF

FROM 52.73MT. TO 55.26MT.
light grey RHYOLITIC TUFF; CHERTY
Structures noted: CONTACT dip 00, BEDDING dip 00
5% QUARTZ as eyes, augen

5% BIOTITE as rosettes & crystal clusters
52.73 55.26 PATCHES OF DISSEMINATED BIOTITE GIVING LOCALLY A REDDISH TINT
53.68 53.80 BASALTIC MATERIAL

FROM 55.26MT. TO 105.30MT.
med. dark green BASALT
Textures noted: MASSIVE , BANDED
2.5% QUARTZ as microveins
2.5% BIOTITE as laminations, bedded
2.5% CARBONATE as microveins
.3% CHALCOPYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as laminations, bedded
61.02 61.02 POSSIBLE GARNETS
79.25 87.48 BASALT IS PROBABLY PILLOWED
84.25 85.19 PO + MINOR CPY BANDS POSSIBLY IN PILLOW RIMS;4 BANDS IN ALL TOTAL SULPHIDE CONTENT <5%
86.87 87.33 AS ABOVE
89.92 105.30 MASSIVE FAIRLY COARSE GRAIN BASALT

FROM 89.92MT. TO 105.30MT.
100% of this subinterval is the same as 55.26MT. to 105.30MT. except as noted
BASALT
Textures noted: MASSIVE

FROM 101.00MT. TO 103.00MT.
100% of this subinterval is
PORPHYRITC BASALT with FELDSPARS, GEN. ,
Textures noted: PORPHYRITIC , MASSIVE
101.00 103.00 PORPHYRY BASALT WITH 2-3% FELDSPAR PORPHYRY+15-20% AMPHIP. FE

FROM 105.30MT. TO 113.00MT.
medium green PYROXENITE; TALCOSE
Textures noted: MASSIVE
5% CARBONATE as microveins
.07% MAGNETITE as disseminations and scattered crystals
105.30 113.00 TALCOSE HIGHLY MAGNETIC;PYROXENITE
108.94 109.21 FAULT ZONE IN TALCOSE MAGNETIC PYROXENITE

FROM 113.00MT. TO 123.80MT.
dark green DACITIC TUFF; BIOTITIC
Textures noted: BANDED
1% QUARTZ as microveins
40% BIOTITE as pervasive mineralization
2.5% CARBONATE as microveins
INTERMEDIATE TO MAFIC TUFF

FROM 114.15MT. TO 115.61MT.
100% of this subinterval is
pale grey RHYOLITIC TUFF; CHERTY
Structures noted: CONTACT dip 00, BANDING
2.5% QUARTZ as eyes, augen
2.5% BIOTITE as disseminations and scattered crystals
.3% PYRITE as disseminations and scattered crystals
.1% CHALCOPYRITE as microveins

114.15 115.61 LAST 3 FEET OF UNIT MAY BE A RHYOLITE FLOW.ONLY FIRST
FOOT IS DEFINITELY TUFFACEOUS
112.53 119.18 HIGHLY BIOTITE RICH UNIT-UNCERTAIN ABOUT ROCK TYPE

FROM 119.18MT. TO 120.70MT.
100% of this subinterval is
med. dark green PYROXENITE
Textures noted: MASSIVE
2.5% BIOTITE as microveins
2.5% GARNET as microveins
.07 MAGNETITE as disseminations and scattered crystals
119.18 120.70 MODERATELY MAGNETIC
120.55 120.70 MASSIVE BLACK BIOTITE PATCHES

FROM 123.80MT. TO 125.60MT.
med. dark green PYROXENITE
Textures noted: MASSIVE
5% BIOTITE as disseminations and scattered crystals
.07 MAGNETITE as disseminations and scattered crystals

FROM 125.60MT. TO 126.19MT.
med. dark brown RHYOLITIC TUFF; BIOTITIC
Structures noted: BANDING , MICROVEINS dip 00
10% BIOTITE as pervasive mineralization
.3% PYRITE as disseminations and scattered crystals
5% MUSCOVITE as pervasive mineralization
125.60 126.19 DACITIC TO RHYOLITIC TUFF

FROM 126.19MT. TO 138.99MT.
med. dark green BASALT with BIOTITIC
Textures noted: MASSIVE
1% PYRRHOTITE as laminations, bedded
128.02 129.24 HIGHLY BIOTITIC
131.06 131.07 A FEW GARNETS

FROM 131.2 MT. TO 134.2 MT.
100% of this subinterval is
PYROXENITE
Textures noted: , MASSIVE
5% BIOTITE as pervasive mineralization

FROM 134.36MT. TO 134.84MT.
100% of this subinterval is
medium grey QUARTZ-FELDSPAR PORPHYRY with SERICITE , and BIOTITIC
10% BIOTITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
2.5% PYRRHOTITE as disseminations and scattered crystals
135.79 135.85 CHERTY TUFF BAND
END 138.99 138.99

IN-HOLE SURVEY AT 113.08 MT.
GRID AZIMUTH OF HOLE 191.00 VERTICAL ANGLE -43.00
TRUE AZIMUTH OF HOLE 226

A001

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AUMM                        GTM AUGTM AGPPM CU %  CUPPM ZN %  ZN
ALAB                        CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP                        H-COR H-COR H-COR H-COR H-COR H-COR
AMTH                        FA    FA    AA
A001  1789  1819      2497 000   .17     260
A001  2064  2164      2496 .17   .17    1440
A001  4907  5005      2498 000   000     840
A001  5054  5124      2499 .17   000     560
A001  5124  5224      2500 .17   000     460
A001  8425  8519      2576 .17   .17     800
A001  8687  8733      2577 .17   000    1420
A001  9717  9818      2578 .17   .17     440
A001 13436 13484      2579 .17   .17      89
RASY             NOTE: TRACE DEFAULT = 0.17 G/METRIC TON
RASY             NOTE: NIL DEFAULT = 000 G/METRIC TON
/END
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HOLE 82CH00B
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2334, QUEBEC.
CLAIM NO. 404968-3
GRID NORTH -415.00 GRID EAST 2000.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 139.30mt.
Logged by: M.Drouin on (day/mo/yr)... JUN82
Drilled by: Bradley Bros. Ltd. (mo/yr).. JUN82

FROM 0.00MT. TO 7.16MT.
OVERBURDEN

FROM 7.16MT. TO 16.37MT.
medium green PILLOWED BASALT
Textures noted: PILLOWED
5% QUARTZ as microveins
5% CARBONATE as microveins

FROM 10.73MT. TO 11.43MT.
100% of this subinterval is
medium grey GRANITE DYKE
Textures noted: BANDED

FROM 11.98MT. TO 12.89MT.
100% of this subinterval is the same as 7.16MT. to 16.37MT. except as noted
GRANITE DYKE
10% QUARTZ as microveins

FROM 15.24MT. TO 16.25MT.
100% of this subinterval is the same as 7.16MT. to 16.37MT. except as noted
pale green GRANITE DYKE
Textures noted: BANDED
.1% PYRRHOTITE as disseminations and scattered crystals

FROM 16.37MT. TO 18.59MT.
PORPHYRITC BASALT with FELDSPARS, GEN. ,
Textures noted: PORPHYRITIC
1% FELDSPAR as microveins

FROM 18.59MT. TO 20.24MT.
BASALT
Textures noted: BRECCIATED
5% QUARTZ as microveins
10% CARBONATE as microveins
2.5% FELDSPAR as microveins

FROM 20.24MT. TO 28.96MT.
GRANODIORITE with PLAGIOCLASE , BIOTITE AND HORNBLENDE ,
Textures noted: MASSIVE
5% QUARTZ as microveins
2.5% FELDSPAR as microveins

FROM 28.96MT. TO 40.84MT.

med. dark green PILLOWED BASALT
Textures noted: PILLOWED , AMYGDALOIDAL
2.5% QUARTZ as microveins
5% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

FROM 40.72MT. TO 40.78MT.
100% of this subinterval is
med. light grey DACITIC TUFF
Structures noted: BEDDING ,
.3% PYRRHOTITE as microveins

FROM 40.84MT. TO 49.53MT.
medium green GABBRO with AMPHIBOLES , FELDSPARS,
Textures noted: MASSIVE
.3% QUARTZ as microveins

40.84 49.53 MEDIUM GRAINED MASSIVE GABBRO UNCERTAIN ABOUT LAST 10 FEET,CONTACT WITH OVERLYING BASALTS IS GRADUAL,NON-MAGNETIC

FROM 49.53MT. TO 51.60MT.
med. light green MAFIC TUFF; SILICIOUS
Textures noted: , BANDED
20% QUARTZ as microveins
5% CARBONATE as microveins
.3% PYRRHOTITE as disseminations and scattered crystals

49.07 50.07 METACHERT BAND

FROM 51.60MT. TO 54.56MT.
dark green META TUFF; BIOTITIC
Textures noted: , BANDED , BEDDED
Structures noted: BEDDING ,
2.5% QUARTZ as microveins
10% BIOTITE as laminations, bedded
10% CARBONATE as microveins

51.60 54.56 UNCERTAIN ABOUT ROCK TYPE-GOOD BANDING,POSSIBLE BEDDING, SOME COMPOSITIONAL VARIATIONS,BIOTITE BANDS ARE SUGGESTIVE OF A TUFFACEOUS NATURE,THIS UNIT COULD BE CALLED META-INTERMEDIATE TO BASIC TUFFS.

FROM 54.56MT. TO 74.68MT.
med. dark green BASALT
Textures noted: , MASSIVE
2.5% QUARTZ as microveins
10% BIOTITE as laminations, bedded
2.5% CARBONATE as microveins

56.84 57.15 FINE GRAINED,SERICITIC ACID(RHYOLITIC?) DYKE

FROM 68.49MT. TO 69.95MT.
100% of this subinterval is
very dark grey META SEDIMENT
Textures noted: , BANDED
Structures noted: BANDING ,
5% BIOTITE as disseminations and scattered crystals
.07 PYRRHOTITE as disseminations and scattered crystals

68.49 69.95 PROBABLE METAGRAYWACKE (69.2M-THIN SECTION)

FROM 72.08MT. TO 72.90MT.
100% of this subinterval is
META SEDIMENT
Textures noted: , BANDED
Structures noted: BANDING ,
5% BIOTITE as disseminations and scattered crystals
.07 PYRRHOTITE as disseminations and scattered crystals

FROM 74.68MT. TO 77.63MT.
light grey META TUFF
Textures noted: , BANDED
2.5% PYRITE as microveins
10% MUSCOVITE as laminations, bedded
2.5% CHLORITE as disseminations and scattered crystals
5% EPIDOTE as microveins
5% PYRRHOTITE as laminations, bedded
74.68 77.63 INTERBEDDED INTERMEDIATE TO ACID TUFFS
MINOR SULPHIDE TOTAL 5-7%;GARNETS PRESENT
CONTAINS SOME BASALTIC MATERIAL.

FROM 77.63MT. TO 79.31MT.
medium green BASALT
Textures noted: , MASSIVE
5% BIOTITE as disseminations and scattered crystals
2.5% CARBONATE as microveins

FROM 79.31MT. TO 80.83MT.
medium grey PYROXENITE; TALCOSE
Textures noted: MASSIVE
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
.07 MAGNETITE as pervasive mineralization
79.31 80.83 TALCOSE META-PYRX -STRONGLY MAGNETIC
72.26 75.56 MAGNETIC BASALT FOR 3 METERS BEFORE TALCOSE PYRX

FROM 80.83MT. TO 82.91MT.
medium green BASALT
Textures noted: , MASSIVE
5% QUARTZ as microveins
5% BIOTITE as disseminations and scattered crystals
5% GARNET as microveins
1% PYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

FROM 82.91MT. TO 86.10MT.
med. light grey RHYOLITIC TUFF;CHERTY
Textures noted: , BEDDED
Structures noted: BEDDING ,
.3% PYRITE as laminations, bedded
1% FELDSPAR as microveins
.3% PYRRHOTITE as laminations, bedded
.3% SPHALERITE as microveins
83.30 83.30 3 MM THICK ZNS BAND

84.22 84.22 1 MM THICK PY BAND
84.37 84.40 2 2MMTHICK PO BANDS

FROM 86.10MT. TO 88.15MT.
MAFIC TUFF
1% QUARTZ as microveins
10% BIOTITE as laminations, bedded
5% GARNET as patches
1% SPHALERITE as laminations, bedded
86.10 86.78 WELL BANDED,GARNETIFEROUS,5 TO 10% SULPHIDES
86.78 88.15 MASSIVE BASALT.

FROM 88.15MT. TO 89.12MT.
BASALT with BIOTITIC
Textures noted: MASSIVE
2.5% GARNET as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as laminations, bedded
1% SPHALERITE as laminations, bedded
88.15 89.12 MASSIVE BASALT;HEAVILY BIOTIZED, 3 TO 5% GARNETS
MM THICK BANDS OF ZINC, TRACE CPY
1 1CM THICK PO BAND

FROM 89.12MT. TO 91.50MT.
med. dark grey RHYOLITIC TUFF; SILICIOUS
Structures noted: BEDDING ,
5% QUARTZ as microveins
2.5% CHALCOPYRITE as patches
20% PYRRHOTITE as blebs
89.12 91.50 HOST ROCK IS RHYOLITIC TO CHERTY TUFF
25 TO 30% TOTAL SULPHIDES,NICE SPLASHES OF CPY
PYRITE NOT PRESENT
80% TO 90% OF MINERALISATION IS PO

FROM 91.50MT. TO 119.88MT.
BASALT
Textures noted: , MASSIVE
10% BIOTITE as laminations, bedded
1% PYRRHOTITE as disseminations and scattered crystals

FROM 91.50MT. TO 94.80MT.
100% of this subinterval is
PYROXENITE;TALCOSE
Textures noted: , MASSIVE
.07 MAGNETITE as pervasive mineralization
91.50 94.80 TALCOSE MAGNETIC PYRX

FROM 102.78MT. TO 105.00MT.
100% of this subinterval is
medium green PYROXENITE;TALCOSE
Textures noted: , MASSIVE
.07 MAGNETITE as pervasive mineralization
102.87 105.00 TALCOSE MAGNETIC MASSIVE PYRX

FROM 114.39MT. TO 116.74MT.

100% of this subinterval is
dark green META TUFF
Structures noted: BANDING ,
20% BIOTITE as pervasive mineralization
1% GARNET as disseminations and scattered crystals
1% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
2.5% PYRRHOTITE as laminations, bedded
1% SPHALERITE as microveins

114.39 116.74 DARK GREY GREEN INTERMEDIATE TO BASIC TUFFS
LOCALLY GARNETIFEROUS, SEVERAL 1MM THICK SPHALERITE STRINGERS
SEVERAL PO STRINGERS,MINOR DISSEMINATED PY AND CPY

FROM 119.88MT. TO 133.35MT.
medium green VARIOLITIC BASALT
Textures noted: , PILLOWED , AMYGDALOIDAL
.03% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

FROM 133.35MT. TO 138.53MT.
medium green BASALT
Textures noted: , MASSIVE
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
1% PYRRHOTITE as disseminations and scattered crystals

FROM 138.53MT. TO 139.30MT.
light grey RHYOLITIC TUFF
Textures noted: , BANDED
Structures noted: BANDING ,
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins

END 139.30 139.30 END OF HOLE.

IN-HOLE SURVEY AT 131.67 MT.
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -54.00
TRUE AZIMUTH OF HOLE 215

A001												
AUMM			GTM	AUGTM	AGPPM	CU %	CUPPM	ZN %	ZN			
ALAB			CHIMTC	CHIMTC	CHIMTC	CHIMTC	CHIMTC	CHIMTC	CHIMTC			
ATYP			H-COR	H-COR	H-COR	H-COR	H-COR	H-COR				
AMTH				FA	FA	AA						
A001	3337	3438	2563	.17	000							
A001	4913	5014	2564	.17	000							
A001	5102	5160	2565	.17	3.39							
A001	6900	6995	2566	.17	000							
A001	7468	7568	2567	.17	000		.053					
A001	7568	7669	2568	.17	3.43		.034					
A001	7669	7763	2569	.17	.17		.045					
A001	8190	8290	2570	.17	000		.014					
A001	8412	8513	2571	.17	000	14		25				
A001	8610	8677	2572	.17	.17		.067		.090			
A001	8769	8815	2573	.17	000		.038		.047			
A001	8815	8912	2574	.17	.17		.066		.22			

A001	8912	9012	2575	4.30	.17	.18	.021
A001	9012	9113	2526	1.06	.96	.19	.011
A001	9113	9144	2527	2.35	1.54	.73	.032
A001	9144	9244	2528	.17	.17	.22	.025
A001	11440	11540	2529	.17	000	0.065	.14
A001	11540	11640	2530	.17	000	.11	.075
A001	11640	11710	2531	.17	.17	0.037	.008

RASY TRACE VALUE = 0.17 G/METRIC TON.
RASY NIL VALUE = 000
/END

HOLE 82CH 09
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2334 , QUEBEC.
CLAIM NO. 404968-1
GRID NORTH -320.00 GRID EAST 1700.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 142.18mt.
Logged by: M.Drouin on (day/mo/yr)... JUN82
Drilled by: Bradley Bros. Ltd (mo/yr).. JUN82

FROM 0.00MT. TO 6.71MT.
OVERBURDEN

FROM 6.71MT. TO 24.78MT.
med. dark green PILLOWED BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , PILLOWED
5% QUARTZ as microveins
5% CARBONATE as microveins
1% FELDSPAR as microveins

FROM 7.62MT. TO 9.45MT.
100% of this subinterval is
pale red GRANITE DYKE with QUARTZ , FELDSPARS, GEN. ,
Textures noted: MASSIVE
2.5% FELDSPAR as microveins
10% MUSCOVITE as pervasive mineralization
15.24 15.54 GRANITIC DYKE AS ABOVE
19.93 20.21 GRANITIC DYKE AS ABOVE
23.07 23.26 GRANITIC DYKE

FROM 24.78MT. TO 25.90MT.
med. light grey GRANITE DYKE with QUARTZ , FELDSPARS, GEN. ,
Textures noted: MASSIVE
5% BIOTITE as disseminations and scattered crystals
.3% PYRITE as disseminations and scattered crystals
5% MUSCOVITE as disseminations and scattered crystals
2.5% PYRRHOTITE as disseminations and scattered crystals

FROM 25.90MT. TO 34.53MT.
dark grey GRANODIORITE with FELDSPARS, GEN. , AMPHIBOLES ,
Textures noted: MASSIVE
1% PYRRHOTITE as disseminations and scattered crystals
27.43 27.74 SEVERAL XENOLITHS OF BASALT WITH FO BLEDS

FROM 28.40MT. TO 31.60MT.
100% of this subinterval is
med. dark green BASALT
Textures noted: MASSIVE
1% QUARTZ as microveins
1% CARBONATE as microveins

FROM 34.53MT. TO 102.53MT.
med. dark green PILLOWED BASALT

Textures noted: AMYGDALOIDAL , MASSIVE , PILLOWED
2.5% QUARTZ as microveins
1% BIOTITE as laminations, bedded
2.5% CARBONATE as microveins

38.68 39.31 GRANODIORITE

34.53 102.53 MASSIVE TO COARSE AND PILLOWED SEQUENCE INTERBEDDED

FROM 52.46MT. TO 52.97MT.
100% of this subinterval is
medium green PORPHYRITC BASALT with FELDSPARS, GEN. ,
Textures noted: PORPHYRITIC

FROM 79.49MT. TO 80.44MT.
100% of this subinterval is
pale grey ACID DYKE with QUARTZ , FELDSPARS, GEN. ,
Textures noted: , MASSIVE
.3% PYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals

79.49 80.44 ROCK COMPOSED OF 95% QUARTZ AND FELDSPAR AND ONLY
5% BIOTITE AND/OR HORNBLENDE ROCK IS VERY FINE GRAINED.

FROM 102.53MT. TO 103.32MT.
medium brown DACITIC TUFF; BIOTITIC
Structures noted: BEDDING ,
30% BIOTITE as pervasive mineralization
10% GARNET as pervasive mineralization
10% PYRITE as disseminations and scattered crystals

FROM 103.32MT. TO 103.94MT.
medium grey RHYOLITIC TUFF;SILICICUS
Structures noted: BEDDING ,
5% BIOTITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals
1% SPHALERITE as laminations, bedded

FROM 103.94MT. TO 107.41MT.
med. dark green PYROXENITE
Textures noted: MASSIVE
2.5% PYRRHOTITE as disseminations and scattered crystals

103.94 107.41 UNIT CONTAINS SOME INTERBEDS OF INTERMEDIATE TO
BASIC TUFF

FROM 107.41MT. TO 109.42MT.
medium green META TUFF;SILICIOUS
5% BIOTITE as laminations, bedded

107.41 109.42 THIS UNIT CONSISTS OF FELSIC FINE GRAINED TUFFS WITH
MINOR INTERBEDDED BASALT; TRACE SULPHIDES

FROM 109.42MT. TO 110.80MT.
medium grey PYROXENITE;TALCOSE
Structures noted: BANDING , BEDDING
.07% MAGNETITE as pervasive mineralization
2.5% PYRRHOTITE as disseminations and scattered crystals

FROM 110.80MT. TO 111.37MT.

med. dark green BASALT
Textures noted: MASSIVE
2.5% PYRRHOTITE as disseminations and scattered crystals

FROM 111.37MT. TO 112.23MT.
med. dark green BASALT
Textures noted: MASSIVE
5% GARNET as blebs
2.5% PYRITE as disseminations and scattered crystals
1% CHALCOPYRITE as disseminations and scattered crystals
2.5% PYRRHOTITE as laminations, bedded
2.5% SPHALERITE as laminations, bedded
111.37 115.56 MINOR SILIFICATION;PO,PY,CPY,
111.37 112.23 GARNETIFEROUS METABASLT WITH SEVERAL MM THICK STRINGERS OF SPHALERITE

FROM 112.23MT. TO 112.96MT.
medium grey RHYOLITIC TUFF
Textures noted: BEDDED
5% BIOTITE as pervasive mineralization
2.5% GARNET as disseminations and scattered crystals
1% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
5% CHLORITE as disseminations and scattered crystals
20% PYRRHOTITE as laminations, bedded
.3% SPHALERITE as laminations, bedded
112.23 112.96 FINELY BEDDED RHYOLITE TUFFS WITH FINE DISSEMINATIONS AND THREADS OF SPHALERITE; 2 BANDS OF MASSIVE PO TOTALISING 10 CM IN WIDTH

FROM 112.96MT. TO 116.13MT.
med. dark green BASALT;SILICIFIED
20% QUARTZ as macroveins
5% GARNET as disseminations and scattered crystals
1% MARIPOSITE as disseminations and scattered crystals
.3% PYRITE as disseminations and scattered crystals
1% SERICITE as disseminations and scattered crystals
1% MOLYBDENITE as laminations, bedded
113.23 114.24 80% QUARTZ(QTZ INJECTION) 10% CHLORITIC MATERIAL 3% PO,PY,CPY.
114.30 114.60 3% TO 5% DISSEMINATIONS AND MM THICK ZNS STRINGERS GENERAL NOTE ZNS SEEMS TO FOLLMW THE GARNETS
115.37 115.58 GARNETS AND DISSEMINATED ZNS.

FROM 116.13MT. TO 120.27MT.
light grey META CHERT
10% PYRITE as pervasive mineralization
1% CHALCOPYRITE as microveins
20% PYRRHOTITE as massive
116.13 119.08 META-CHERT : SECTION CONSITS OF 50 TO 60% QUARTZ OR SILICA,10 TO 35% SULPHIDES; PO IS MOST ABUNDANT; AND OF 5 TO 10% BASALTIC MATERIAL.
117.04 117.65 0.6 FEET OF CORE GROUND, SOME GARNETS; 2% SULPHIDES ONLY.
117.65 118.96 HEAVY SULPHIDE ZONE IN A SILICEOUS MATRIX

25 TO 30% PO, 10% PY, 1 TO 3% CPY
118.96 119.57 ESSENTIALLY MASSIVE BASALTIC; MINOR SULPHIDES ONLY
119.57 120.27 60% PO, 3 TO 5% CPY IN A SILICEOUS MATRIX,MINOR BASALTIC MATRIX

FROM 120.27MT. TO 134.42MT.
med. dark green PILLOWED BASALT
Textures noted: MASSIVE , PILLOWED
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
120.27 134.42 WEAKLY PILLOWED

FROM 134.42MT. TO 142.18MT.
VARIOLITIC BASALT
Textures noted: PILLOWED , AMYGDALOIDAL
1% QUARTZ as microveins
5% CARBONATE as microveins
134.42 142.18 WELL PILLOWED VARIOLITIC AMYGDOLOIDAL BASALTS
END 142.18 142.19 END OF HOLE.

IN-HOLE SURVEY AT 128.32 MT.
GRID AZIMUTH OF HOLE 195.00 VERTICAL ANGLE -57.00
TRUE AZIMUTH OF HOLE 230

A001
AUMM GTM AUGTM AGPPM CU % CUPPM ZN % ZN
ALAB CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP H-COR H-COR H-COR H-COR H-COR H-COR
AMTH FA FA AA AA

A001	2487	2588	2595	.17	.17			
A001	2737	2838	2596	.17	000			
A001	7949	8044	2597	.17	1.10			
A001	10253	10363	2598	4.11	0.41	364	180	
A001	10363	10387	2562	.17	.17			.014
A001	11037	11137	2599	.17	000			
A001	11137	11223	2600	0.45	0.86	0.048		.39
A001	11223	11296	2551	1.44	000	0.061		.07
A001	11296	11323	2552	.17	.17			
A001	11323	11424	2553	000	000	0.037		.02
A001	11424	11524	2554	.17	.17	0.030		.26
A001	11524	11613	2555	000	000	0.055		.18
A001	11613	11704	2556	16.80	40.80	0.51		.015
A001	11704	11765	2557	13.03	6.86	0.032		.003
A001	11765	11896	2558	16.11	17.83			
A001	11896	11957	2559	3.26	5.14	.33		0.17
A001	11957	12027	2561	55.20	40.80	.84		.022
A001	12027	12121	2560	.02	4.46	.21		.015

RASY TRACE VALUE = 0.17 G/METRIC TON.
/END

HOLE 82CH10
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2334 , QUEBEC.
CLAIM NO. 404968-3
GRID NORTH -420.00 GRID EAST 2050.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -50.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 151.49mt.
Logged by: M.Drouin on (day/mo/yr)... JUL82
Drilled by: Bradley Bros. Ltd (mo/yr).. JUL 82

FROM 0.00MT. TO 7.31MT.
OVERBURDEN

FROM 7.31MT. TO 21.95MT.
med. dark green PILLOWED BASALT
Textures noted: PILLOWED , FLOW BRECCIA
5% QUARTZ as microveins
5% CARBONATE as microveins
.1% FELDSPAR as microveins

FROM 11.61MT. TO 11.91MT.
100% of this subinterval is
medium green PORPHYRITC BASALT with FELDSPARS, GEN. ,
Textures noted: PORPHYRITIC

FROM 12.92MT. TO 14.02MT.
100% of this subinterval is the same as 7.31MT. to 21.95MT. except as noted
PORPHYRITC BASALT

FROM 21.95MT. TO 27.74MT.
GRANODIORITE with FELDSPARS, GEN. , BIOTITE AND HORNBLENDE ,
Textures noted: MASSIVE

FROM 22.50MT. TO 23.00MT.
100% of this subinterval is
med. dark green PILLOWED BASALT
Textures noted: PILLOWED , FLOW BRECCIA
5% QUARTZ as microveins
5% CARBONATE as microveins
.1% FELDSPAR as microveins

FROM 27.74MT. TO 40.08MT.
BASALT
Textures noted: AMYGDALOIDAL
1% CARBONATE as microveins

FROM 40.08MT. TO 40.41MT.
pale red GRANITE
Textures noted: MASSIVE
10% FELDSPAR as microveins

FROM 40.41MT. TO 45.75MT.
dark green GABBRO with AMPHIBOLES ,

Textures noted: MASSIVE
.3% FELDSPAR as microveins
.07% EPIDOTE as disseminations and scattered crystals

40.41 45.75 35% AMPHIBOLE PHENOCRYSTS;ROCK COULD BE A BASALT

FROM 45.75MT. TO 50.47MT.
med. dark green BASALT
Textures noted: MASSIVE
1% CARBONATE as microveins
1% FELDSPAR as microveins

FROM 50.47MT. TO 52.27MT.
med. dark green MAFIC TUFF; BIOTITIC
Textures noted: BANDED , BEDDED
Structures noted: BEDDING dip 15,
5% BIOTITE as microveins

50.47 52.27 A FEW BANDS 2 TO 3 CM THICK OF INTERMEDIATE TUFFS

FROM 52.27MT. TO 55.23MT.
med. dark green BASALT
Textures noted: MASSIVE , BANDED
10% BIOTITE as microveins
10% CARBONATE as microveins

FROM 55.23MT. TO 61.42MT.
med. dark green MAFIC TUFF; BIOTITIC
Textures noted: BANDED , BEDDED
Structures noted: BANDING dip 15,
20% BIOTITE as microveins
10% CARBONATE as laminations, bedded

55.23 61.42 MAFIC TUFFS,GENERALL, WELL BEDDED;CHARACTERIZED BY THE PRESENCE OF BIOTITE RICH BANDS

56.51 56.69 FELSIC TUFF BAND

FROM 61.42MT. TO 64.43MT.
medium grey DACITE
Textures noted: MASSIVE
20% BIOTITE as pervasive mineralization
5% CARBONATE as microveins
20% MARIPOSITE as patches
1% PYRITE as disseminations and scattered crystals
.03% CHALCOPYRITE as disseminations and scattered crystals
2.5% PYRRHOTITE as microveins

61.42 64.43 PERVASIVE BIOTITE

FROM 64.43MT. TO 72.39MT.
dark green BASALT
Textures noted: MASSIVE
10% CARBONATE as microveins
1% PYRRHOTITE as disseminations and scattered crystals
ALTERED BASALT

FROM 72.39MT. TO 74.37MT.
medium grey RHYOLITIC TUFF;BIOTITIC
Textures noted: BANDED , BEDDED

20% BIOTITE as pervasive mineralization
5% CHLORITE as microveins

FROM 74.37MT. TO 75.74MT.
med. dark green BASALT
Textures noted: MASSIVE
5% CARBONATE as microveins
ALTERED BASALT

FROM 75.74MT. TO 80.37MT.
MAFIC TUFF;BIOTITIC
Textures noted: BANDED
30% BIOTITE as pervasive mineralization
5% CARBONATE as microveins
1% PYRITE as disseminations and scattered crystals

FROM 77.11MT. TO 78.03MT.
100% of this subinterval is
medium grey DACITE
Textures noted: MASSIVE

FROM 78.43MT. TO 79.55MT.
100% of this subinterval is
dark green BASALT
Textures noted: MASSIVE
2.5% CARBONATE as microveins

FROM 80.04MT. TO 80.37MT.
100% of this subinterval is
BASALT

FROM 80.37MT. TO 85.43MT.
medium green PYROXENITE; TALCOSE
.07% MAGNETITE as pervasive mineralization
80.37 85.43 TALCOSE HIGHLY MAGNETIC METAGABBRO;LAST TWO FEET ARE NOT TALCOSE
81.38 81.38 POSSIBLE FAULT

FROM 85.43MT. TO 90.28MT.
medium grey RHYOLITIC TUFF; CHERTY
20% BIOTITE as pervasive mineralization

FROM 87.57MT. TO 88.09MT.
100% of this subinterval is
med. dark green BASALT
Textures noted: , BANDED
20% BIOTITE as microveins
5% CARBONATE as microveins

FROM 88.57MT. TO 88.70MT.
100% of this subinterval is
med. light green PYROXENITE;TALCOSE
Textures noted: , BANDED

FROM 88.70MT. TO 89.92MT.
100% of this subinterval is
med. light green BASALT
Textures noted: , BANDED
20% BIOTITE as microveins
10% CARBONATE as microveins

FROM 90.07MT. TO 90.28MT.
100% of this subinterval is the same as 85.43MT. to 90.28MT. except as noted
BASALT

FROM 90.28MT. TO 91.26MT.
med. dark grey DACITIC TUFF
Textures noted: , BANDED
10% QUARTZ as microveins
.07 BIOTITE as pervasive mineralization
1% GARNET as disseminations and scattered crystals
5% CARBONATE as microveins
.1% MARIPOSITE as disseminations and scattered crystals
2.5% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
10% PYRRHOTITE as disseminations and scattered crystals
.3% SPHALERITE as laminations, bedded
90.29 91.26 HOST ROCK IS A METADACITIC TO RHYODACITIC BIOTITIC TUFF
1-3% VERY MINISCULE GARNETS PRESENT;10 TO 15%
DISSEMINATED PO AS WELL AS A FEW THIN BANDS
MINOR QTZ-CARBONATE VEINING.

FROM 91.26MT. TO 94.12MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL

FROM 94.12MT. TO 96.99MT.
medium grey RHYOLITIC TUFF
Textures noted: BANDED , BEDDED
Structures noted: CONTACT dip 00, BEDDING dip 00
10% BIOTITE as pervasive mineralization
.3% MARIPOSITE as laminations, bedded
95.16 95.16 1MM THICK BAND OF SPHALERITE
94.12 96.99 SECTION CONTAINS ABOUT 20% MAFIC TUFF MATERIAL

FROM 96.99MT. TO 128.02MT.
med. dark green BASALT
Textures noted: MASSIVE
2.5% QUARTZ as microveins
5% BIOTITE as microveins
104.24 104.33 METADACITE VERY SHARP CONTACTS
123.96 123.96 MASSIVE PO BAND

FROM 128.02MT. TO 133.11MT.
pale grey CHERTY TUFF; SERICITIC
Textures noted: , BEDDED
.3% GARNET as disseminations and scattered crystals
.3% SPHALERITE as laminations, bedded

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FROM  133.11MT.  TO  151.49MT.
                     med. dark green  BASALT
                     Textures noted: MASSIVE , AMYGDALOIDAL
                     2.5% QUARTZ  as microveins
                     2.5% CARBONATE  as microveins
     149.96 151.49     BASL WEAKLY PORPHYRITIC-10%-WHITE,FELDSPAR PHENOCRYSTS,
                       2-3MM SIZED
END  151.49 151.49   END OF HOLE

IN-HOLE SURVEY AT  121.49 MT.
GRID AZIMUTH OF HOLE 183.00 VERTICAL ANGLE -47.00
TRUE AZIMUTH OF HOLE  218

IN-HOLE SURVEY AT  149.96 MT.
GRID AZIMUTH OF HOLE 183.00 VERTICAL ANGLE -48.00
TRUE AZIMUTH OF HOLE  218

A001
AUMM                    SMT AUGMT AGPPM CU %  CUPPM ZN %  ZN
ALAB                    CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP                    H-COR H-COR H-COR H-COR H-COR H-COR
AMTH                    FA    FA    AA
A001  6276  6376      2543   .17   .17
A001  7608  7708      2544   .17  0.48
A001  8927  9028      2545   .17   .17
A001  9028  9125      2546  2.08  5.65
A001  9125  9220      2547  2.06  8.78
A001 12116 12216      2548  0.62  4.46  1880
A001 12426 12436      2549  1.06  3.77   328
RASY                  NOTE: TRACE DEFAULT = 0.17 G/METRIC TON
/END
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HOLE 82CH11
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2334 ,QUEBEC.
CLAIM NO. 404968-2
GRID NORTH -410.00 GRID EAST 1750.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -50.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 123.44mt.
Logged by: M.Drouin on (day/mo/yr)... JUL82
Drilled by: Bradley Bros. Ltd (mo/yr) .. JUL82

FROM 0.00MT. TO 9.75MT.
OVERBURDEN

FROM 9.75MT. TO 10.21MT.
medium green PORPHYRITC BASALT with FELDSPARS, GEN. ,
Textures noted: PORPHYRITIC
9.75 10.21 PORPHYRITIC BASALT-20% FELDSPAR PHENOCRYSTS

FROM 10.21MT. TO 15.54MT.
med. dark green BASALT
Textures noted: MASSIVE
13.56 14.02 GRANODIORITE DYKE
15.08 15.24 FINE GRAINED PINKISH COLORED GRANITIC DYKE

FROM 15.54MT. TO 28.59MT.
extremely dark green PILLOWED BASALT
Textures noted: PILLOWED , BRECCIATED
5% QUARTZ as microveins
5% CARBONATE as microveins
15.54 28.59 PILLOWED BASALTS WITH FREQUENT FLOW BRECCIA OR
PILLOW BRECCIA SECTIONS UP TO 1 FOOT IN CORE LENGTH

FROM 28.59MT. TO 47.12MT.
medium green PILLOWED BASALT
Textures noted: MASSIVE , PILLOWED , AMYGDALOIDAL
5% QUARTZ as microveins
5% CARBONATE as microveins
.01% CHALCOPYRITE as blebs
.01% PYRRHOTITE as blebs
31.39 31.52 BLEBS AND DISSEMINATIONS OF CPY AND PO
3% TO 5% TOTAL SULPHIDES
37.00 37.15 FINE GRAINED GRANITIC DYKE
37.55 37.70 FINE GRAINED GRANITIC DYKE
46.60 47.12 BLEBS AND DISSEMINATIONS OF PO AND CPY

FROM 47.12MT. TO 52.88MT.
PORPHYRITC BASALT with AMPHIBOLES ,
Textures noted: PORPHYRITIC
.01% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals
47.12 52.88 PORPHYRITIC BASALT----------ROCK CHARACTERIZED

BY 7 TO 15% MAFIC PHENOCRYSTS (METACRYSTS)

FROM 52.88MT. TO 53.22MT.
medium grey RHYOLITIC TUFF
Textures noted: BANDED
Structures noted: CONTACT dip 05,
1% PYRITE as amydaloids, cavity fillings
5% FELDSPAR as microveins

FROM 53.22MT. TO 61.6 MT.
med. dark green BASALT
Textures noted: MASSIVE
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
1% PYRITE as microveins
5% FELDSPAR as microveins
.3% EPIDOTE as microveins

FROM 54.25MT. TO 54.53MT.
100% of this subinterval is
med. dark grey RHYOLITIC TUFF
Textures noted: BANDED , BEDDED
Structures noted: BEDDING dip 10,
2.5% PYRITE as microveins

FROM 61.6 MT. TO 64.31MT.
medium grey DACITIC TUFF
Textures noted: BANDED
.3% GARNET as disseminations and scattered crystals
10% CARBONATE as microveins
1% PYRITE as microveins
.3% FELDSPAR as microveins

FROM 64.31MT. TO 64.92MT.
med. light green META GABBRO
20% CARBONATE as macroveins
5% PYRITE as disseminations and scattered crystals

FROM 64.92MT. TO 78.58MT.
med. dark green BASALT
Textures noted: MASSIVE
5% QUARTZ as microveins
5% CARBONATE as microveins
2.5% FELDSPAR as microveins
2.5% EPIDOTE as microveins
66.84 66.96 RHYOLITIC TUFF BAND

FROM 72.8 MT. TO 76.8 MT.
100% of this subinterval is
med. dark green PYROXENITE; TALCOSE
Textures noted: MASSIVE
1% CARBONATE as microveins
.07% MAGNETITE as disseminations and scattered crystals
72.80 76.80 WEAKLY TALCOSE AND WEAKLY MAGNETIC PYROXENITE

```
FROM   78.58MT.  TO   84.12MT.
                     med. light green VARIOLITIC BASALT
                     Textures noted: PILLOWED , BANDED , AMYGDALOIDAL
                     2.5% QUARTZ  as microveins
                     2.5% CARBONATE  as microveins
                     1% FELDSPAR  as microveins
                     .3% EPIDOTE  as microveins
     78.58  84.12   VARIOLITIC BASALT

FROM   84.12MT.  TO  123.44MT.
                     med. dark green  BASALT
                     Textures noted: MASSIVE , AMYGDALOIDAL
                     2.5% QUARTZ  as microveins
                     2.5% CARBONATE  as microveins
                     .3% FELDSPAR  as microveins
                     .3% EPIDOTE  as spots
     85.59  86.75   BRECCIATED BASALT;HEAVY CARBONATE AND K-FELDSPAR
                  INFILLING ALONG WITH MINOR EPIDOTE(5 TO 10%) AND
                  PYRITE 3%

         FROM   87.17MT.  TO   90.22MT.
         100% of this subinterval is
                              med. light green VARIOLITIC BASALT
                              Textures noted: , BANDED
                              2.5% QUARTZ  as microveins
                              2.5% CARBONATE  as microveins
                              .3% FELDSPAR  as microveins
     93.26  93.85   BASALT GRADES INTO DACITE
    100.28 109.27   BASALT BECOMES COARSER GRAINED METAGABBRO
    109.27 111.25   BASALT IS VARIOLITIC
END 123.44 123.44   END OF HOLE

IN-HOLE SURVEY AT  120.09 MT.
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -49.0
TRUE AZIMUTH OF HOLE  215

A001
AUMM                    GTM AUGTM AGPPM CU % CU PPM ZN %  ZN
ALAB                    CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP                    H-COR H-COR H-COR H-COR H-COR H-COR
AMTH                    FA    FA    AA
A001  4660  4712      2537  .17    .17
A001  5779  5879      2538  .17    000
A001  6260  6361      2539 1.41   6.17
A001  6361  6431      2540 0.34   3.32
A001  6431  6492      2541  .17    .17
A001  8559  8675      2542  .17    .17
RASY                   NOTE: TRACE VALUE =0.17 G/METRIC TON.
RASY                   NOTE: NIL VALUE = 000
/END
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HOLE 82CH12
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2334 ,QUEBEC.
CLAIM NO. 404968-1
GRID NORTH -225.00 GRID EAST 1850.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 221.60mt.
Logged by: M.Drouin on (day/mo/yr)... JUL82
Drilled by: Bradley Bros. Ltd (mo/yr).. JUL82

FROM 0.00MT. TO 4.88MT.
OVERBURDEN

FROM 4.88MT. TO 65.90MT.
med. dark green PORPHYRITC BASALT with AMPHIBOLES ,
Textures noted: MASSIVE , PORPHYRITIC
4.88 65.40 UNIT CHARACTERIZED BY 1 TO 2 MM SIZED AMPHIBOLES. MINOR FINE GRAINED GRANITIC AND GRANODIORITIC MATERIAL

FROM 20.42MT. TO 23.01MT.
90% of this subinterval is
medium grey GRANODIORITE with BIOTITE ,
Textures noted: MASSIVE
20.42 23.01 CONTAINS BASALTIC XENOLITHS AS WELL AS A FINE GRAINED GRANITIC DYKE

FROM 23.01MT. TO 26.12MT.
100% of this subinterval is
med. dark green BASALT
Textures noted: MASSIVE

FROM 26.12MT. TO 26.82MT.
100% of this subinterval is
light grey GRANODIORITE
Textures noted: MASSIVE
26.12 26.82 FINE GRAINED GRANITIC DYKE
40.23 45.11 SEVERAL FINE GRAINED GRANITIC DYKES

FROM 51.66MT. TO 53.79MT.
100% of this subinterval is
medium grey GRANODIORITE with BIOTITE ,
Textures noted: MASSIVE
20% QUARTZ as macroveins

FROM 65.90MT. TO 72.27MT.
med. dark green PORPHYRITC BASALT with AMPHIBOLES ,
Textures noted: MASSIVE , PORPHYRITIC
5% QUARTZ as macroveins
5% CARBONATE as macroveins

FROM 72.27MT. TO 96.93MT.
medium grey GRANODIORITE with BIOTITE ,

Textures noted: MASSIVE
5% QUARTZ as macroveins
2.5% FELDSPAR as disseminations and scattered crystals

FROM 78.02MT. TO 80.16MT.
100% of this subinterval is
PORPHYRITC BASALT with AMPHIBOLES ,
Textures noted: , PORPHYRITIC

FROM 81.38MT. TO 81.9 MT.
100% of this subinterval is
PORPHYRITC BASALT with AMPHIBOLES ,
Textures noted: PORPHYRITIC

FROM 93.26MT. TO 94.03MT.
100% of this subinterval is
PORPHYRITC BASALT with AMPHIBOLES ,
Textures noted: PORPHYRITIC

FROM 95.09MT. TO 95.4 MT.
100% of this subinterval is
PORPHYRITC BASALT with AMPHIBOLES ,
Textures noted: PORPHYRITIC

FROM 95.70MT. TO 96.16MT.
100% of this subinterval is
PORPHYRITC BASALT with AMPHIBOLES ,
Textures noted: PORPHYRITIC

FROM 96.93MT. TO 119.72MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
1% FELDSPAR as microveins
96.93 102.70 PORPHYRITIC BASALT

FROM 108.44MT. TO 110.43MT.
100% of this subinterval is the same as 96.93MT. to 119.72MT. except as noted
BASALT
20% QUARTZ as laminations, bedded
20% CARBONATE as laminations, bedded
2.5% PYRITE as microveins
108.44 110.43 HEAVILY EPIDOTIZED AND K-FELDSPAR ALTERED;
EPIDOTE OCCURS IN BANDS UP TO 1CM THICK,K-FELDSPAR OCCURS
IN BANDS SEVERAL CM IN THICKNESS
2-3% PY ASSOCIATED WITH THE EPIDOTE OCCURS AS DISSEMINA-
TIONS, IN VUGS, IN FRACTURES;

FROM 111.40MT. TO 114.30MT.
100% of this subinterval is the same as 96.93MT. to 119.72MT. except as noted
BASALT
0% PYRITE
10% FELDSPAR as microveins
0% EPIDOTE

111.40 114.30 ABUNDANT FRACTURES ALL FILLED WITH EPIDOTE
115.37 118.26 SEVERAL PINKISH COLORED FINE GRAINED GRANITIC DYKES UP TO 0.3 METRES WIDE

FROM 119.72MT. TO 120.76MT.
dark green PORPHYRITC BASALT with FELDSPARS, GEN. ,
Textures noted: PORPHYRITIC
119.72 120.76 PORPHYRITIC BASALT -FELDSPAR PHENOCRYSTS

FROM 120.76MT. TO 123.16MT.
pale red GRANITE DYKE
Textures noted: MASSIVE
5% QUARTZ as microveins
5% FELDSPAR as microveins

FROM 123.16MT. TO 125.80MT.
med. dark green BASALT
Textures noted: MASSIVE
1% QUARTZ as microveins
2.5% CARBONATE as microveins
1% EPIDOTE as microveins
123.24 125.50 GREY GRANODIORITE DYKE

FROM 125.80MT. TO 126.70MT.
medium green PORPHYRITC BASALT with FELDSPARS, GEN. ,
Textures noted: PORPHYRITIC

FROM 126.70MT. TO 158.00MT.
med. dark green BASALT
Textures noted: MASSIVE
1% QUARTZ as microveins
5% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
.1% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals
LOCALLY PILLOWED-POSSIBLY
144.78 144.96 MINOR BIOTITE BANDING & TUFFACEOUS ASPECT
148.13 148.28 MINOR BIOTITE BANDING & TUFFACEOUS ASPECT

FROM 155.70MT. TO 157.60MT.
100% of this subinterval is
PYROXENITE
Textures noted: MASSIVE
.1% CARBONATE as disseminations and scattered crystals

FROM 158.00MT. TO 164.30MT.
META TUFF
Textures noted: BANDED
5% QUARTZ as microveins
10% BIOTITE as laminations, bedded
5% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
.1% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals
158.00 164.30 MAFIC TO INTERMEDIATE TUFFS LOCALLY QUARTZ INJECTED

BANDS OF CHLORITIC OR AMPHIBOLITIC MATERIAL, LOCAL SPECKS
OF CPY

FROM 164.30MT. TO 179.40MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
5% QUARTZ as microveins
1% CARBONATE as microveins
.3% FELDSPAR as microveins

FROM 175.00MT. TO 178.40MT.
100% of this subinterval is
PYROXENITE
Textures noted: MASSIVE
.1% CARBONATE as disseminations and scattered crystals
172.12 172.40 PROBABLE BIOTISED ACID TUFF INTERMIXED WITH BASALTIC
MATERIAL

FROM 179.40MT. TO 180.14MT.
RHYOLITIC TUFF;BIOTITIC
Textures noted: BANDED
20% BIOTITE as laminations, bedded
10% PYRITE as laminations, bedded
10% PYRRHOTITE as laminations, bedded
179.40 180.14 NO GARNETS BEFORE THE SULPHIDE ZONE
NO CPY SEEN IN THE SULPHIDE ZONE
HOST ROCKS APPEARS TO BE HEAVILY BIOTITIC ACID TUFF

FROM 180.14MT. TO 186.17MT.
med. dark green BASALT
Textures noted: MASSIVE

FROM 181.05MT. TO 181.40MT.
100% of this subinterval is
medium green PYROXENITE
.07% MAGNETITE as disseminations and scattered crystals

FROM 186.17MT. TO 187.20MT.
med. dark grey META CHERT
Textures noted: , BANDED
10% PYRITE as microveins
2.5% CHALCOPYRITE as microveins
.07 GALENA as microveins
20% PYRRHOTITE as microveins
1% SPHALERITE as microveins
186.11 187.20 NO GARNETS PRIOR TO ZONE
HOST ROCK IS A METACHERT WHICH SEEMS TO HAVE BEEN BRECCIA-
TED. PO,PY,SPH,CPY,GL OCCURS ESSENTIALLY AS FRACTURE FIL-
LING MATERIAL, PIECES OF CHERT SURROUNDED BY SULPHIDES
GALENA SEEN AT BEGINNING OF MINERALIZED ZONE.

FROM 187.20MT. TO 201.00MT.
med. dark green BASALT
Textures noted: MASSIVE
187.20 201.00 CORE GENERALLY BADLY BROKEN UP IN THIS SECTION

FROM 201.00MT. TO 206.60MT.
med. dark green PYROXENITE; TALCOSE
.07% MAGNETITE as pervasive mineralization
TALCOSE & MAGNETIC

FROM 206.60MT. TO 221.60MT.
med. dark green BASALT
Textures noted: MASSIVE
5% FELDSPAR as microveins
5% EPIDOTE as microveins

FROM 218.80MT. TO 221.60MT.
100% of this subinterval is the same as 206.60MT. to 221.60MT. except as noted
VARIOLITIC BASALT

FROM 210.00MT. TO 210.60MT.
100% of this subinterval is
medium green PYROXENITE
Textures noted: MASSIVE
.07% MAGNETITE as disseminations and scattered crystals

END 221.60 END OF HOLE

IN-HOLE SURVEY AT 119.48 MT.
GRID AZIMUTH OF HOLE 189.0 VERTICAL ANGLE -54.0
TRUE AZIMUTH OF HOLE 224

IN-HOLE SURVEY AT 217.00 MT.
GRID AZIMUTH OF HOLE 195.0 VERTICAL ANGLE -51.0
TRUE AZIMUTH OF HOLE 230

A001
AUMM BTM AUGTM AGPPM CU% CU PPM ZN % ZNPPM PB
ALAB CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP H-COR H-COR H-COR H-COR H-COR H-COR H-COR
AMTH FA FA AA AA

A001	10835	10936	2376	.17	000			
A001	10936	11043	2377	.17	.17			
A001	13689	13789	2378	.17	.17			
A001	9809	9909	2379	000	000			
A001	9967	10067	2380	000	.17			
A001	16334	16435	2381	.17	000			
A001	17840	17941	2382	.17	.17			
A001	17941	18014	2383	0.68	0.90	0.11	0.017	
A001	18014	18114	2384	2.11	6.30			
A001	18511	18611	2385	.17	2.40			
A001	18611	18721	2386	9.47	8.33	0.26	0.18	395
A001	18721	18821	2387	.17	.17			

RASY TRACE VALUE = 0.17 G/METRIC TON.
RASY NIL VALUE = 000
/END

HOLE 82CH13
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2334 , QUEBEC.
CLAIM NO. 404968-1
GRID NORTH -225.00 GRID EAST 1750.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 221.28mt.
Logged by: M.Drouin on (day/mo/yr)... JUL82
Drilled by: Bradley Bros. Ltd (mo/yr) .. JUL82

FROM 0.00MT. TO 5.18MT.
OVERBURDEN

FROM 5.18MT. TO 8.99MT.
med. dark green BASALT
Textures noted: MASSIVE
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins

FROM 8.99MT. TO 25.36MT.
PORPHYRITC BASALT with AMPHIBOLES ,
Textures noted: MASSIVE , PORPHYRITIC
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
8.99 25.36 MT BASALT.CHARACTERIZED BY 30%1-3MM SIZED AMPHIBOLES(PORPHYRY)
13.50 13.93 GRANODIORITE DYKE
11.76 12.68 BASALT MASSIVE

FROM 25.36MT. TO 26.70MT.
med. dark green BASALT
Textures noted: MASSIVE , FLOW BRECCIA
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
25.36 26.70 FB---FLOW BRECCIA

FROM 26.70MT. TO 66.96MT.
medium grey GRANODIORITE with BIOTITE , ,
Textures noted: MASSIVE
Structures noted: CONTACT dip 45,
26.70 34.44 UNIT CONTAINS MINOR BASALTIC BANDS AND XENOLITHS

FROM 34.44MT. TO 41.76MT.
90% of this subinterval is
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
1% QUARTZ as microveins
1% CARBONATE as microveins

FROM 46.42MT. TO 50.29MT.
100% of this subinterval is
dark green BASALT
Textures noted: BRECCIATED
46.42 50.29 HEAVILY BRECCIATED BASALT; CONTAINS 10 TO 20% BLEACHED

PALE GREEN FRAGMENTS UP TO 4CM IN SIZE AS WELL ABUNDANT
MAFIC AND CARBONATED FRAGMENTS
54.86 63.09 SEVERAL BANDS UP TO 1.5 FEET OF BASALT CAUGHT UP IN THE
GRANODIORITE

FROM 66.96MT. TO 74.98MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , BRECCIATED
1% CHALCOPYRITE as microveins
2.5% FELDSPAR as microveins
5% EPIDOTE as microveins

FROM 74.98MT. TO 106.40MT.
med. dark green PORPHYRITC BASALT with AMPHIBOLES ,
Textures noted: MASSIVE , PORPHYRITIC
.1% CHALCOPYRITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals
82.48 82.75 FINE GRAINED GRANITIC DYKE
93.12 94.00 FINE GRAINED GRANITIC DYKE
72.28 106.40 BASALT CHARACTERIZED: 1 TO 2MM SIZED AMPHIBOLE GIVING
A WEAKLY PORPHYRITIC TEXTURE

FROM 106.40MT. TO 114.60MT.
medium grey GRANODIORITE with BIOTITE ,
Textures noted: MASSIVE
.1% PYRRHOTITE as disseminations and scattered crystals

FROM 107.47MT. TO 110.34MT.
70% of this subinterval is
med. dark green BASALT
Textures noted: MASSIVE
5% CARBONATE as microveins
107.47 110.34 A FEW BLEACHED SPOTS-FRAGMENTS?

FROM 114.60MT. TO 119.76MT.
med. dark green PORPHYRITC BASALT with AMPHIBOLES ,
Textures noted: MASSIVE , PORPHYRITIC
5% CARBONATE as microveins
114.60 119.76 BASALT CHARACTERIZED BY 1 TO 2MM SIZED AMPHIBOLE GIVING
A WEAKLY PORPHYRITIC TEXTURE

FROM 119.76MT. TO 120.57MT.
medium green PORPHYRITC BASALT with FELDSPARS, GEN. ,
Textures noted: PORPHYRITIC , MASSIVE

FROM 120.57MT. TO 150.54MT.
med. dark green PILLOWED BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , PILLOWED
2.5% QUARTZ as microveins
5% CARBONATE as microveins
1% PYRRHOTITE as disseminations and scattered crystals

FROM 150.54MT. TO 150.85MT.
PORPHYRITC BASALT with FELDSPARS, GEN. ,

FROM 150.85MT. TO 153.30MT.
medium green PORPHYRITC BASALT with AMPHIBOLES ,
Textures noted: MASSIVE
2.5% CARBONATE as microveins
150.85 153.30 FINE GRAINED BASALT,PORPHYRITIC ASPECT DUE MAFIC PHENOCRYSTS

FROM 153.30MT. TO 157.60MT.
dark green BASALT;BIOTITIC
Textures noted: MASSIVE
10% QUARTZ as macroveins
153.30 157.60 FINE GRAINED BIOTITIC BASALTS

FROM 157.60MT. TO 161.50MT.
med. dark green BASALT;TUFFACEOUS
Textures noted: , BANDED
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
157.60 161.50 TUFFACEOUS MODERATELY BANDED BASALTS -POSSIBLY SOME MAFIC
TUFF BANDS

FROM 161.50MT. TO 169.10MT.
med. dark green BASALT
Textures noted: , MASSIVE
1% QUARTZ as macroveins
1% CARBONATE as microveins
161.50 169.10 FAIRLY COARSE GRAINED FLOW

FROM 169.10MT. TO 169.65MT.
med. dark green MAFIC TUFF
Textures noted: , BANDED
5% BIOTITE as disseminations and scattered crystals
5% PYRITE as microveins
.3% SPHALERITE as disseminations and scattered crystals

FROM 169.65MT. TO 170.10MT.
med. light green META CHERT
Textures noted: , BANDED
40% QUARTZ as microveins
5% GARNET as microveins
5% PYRITE as microveins
.3% CHALCOPYRITE as disseminations and scattered crystals
20% PYRRHOTITE as microveins
169.65 170.10 METACHERT, 10 TO 20% PO, 1% CPY 2 TO 3% PY,
40% SILICA OF QTZ; 30 TO 35% MAFIC TUFFACEOUS MATERIAL

FROM 170.10MT. TO 171.45MT.
med. dark grey META TUFF
Textures noted: , BANDED
Structures noted: BANDING ,
1% GARNET as microveins
1% CARBONATE as microveins
170.10 171.45 WEAKLY BEDDED INTERMEDIATE--------->FINE GRAINED TUFFS

FROM 171.45MT. TO 174.30MT.
medium green PYROXENITE

Textures noted: MASSIVE
.07% MAGNETITE as disseminations and scattered crystals

FROM 174.30MT. TO 175.87MT.
med. dark green BASALT
Textures noted: MASSIVE
5% BIOTITE as microveins

FROM 175.87MT. TO 187.76MT.
medium green MAFIC TUFF
Textures noted: , BANDED
Structures noted: BEDDING ,
2.5% QUARTZ as microveins
2.5% SPHALERITE as microveins

FROM 182.50MT. TO 182.70MT.
100% of this subinterval is the same as 175.87MT. to 187.76MT. except as noted
MAFIC TUFF
2.5% GARNET as disseminations and scattered crystals

FROM 175.87MT. TO 176.50MT.
100% of this subinterval is
medium grey META-DACITE
Textures noted: MASSIVE
20% BIOTITE as disseminations and scattered crystals
182.70 183.48 GOOD ZINC 2 TO 3% SPHALERITE OCCURING AS MM THICK BANDS
176.80 178.10 RHYOLITIC TUFFS

FROM 186.50MT. TO 187.00MT.
100% of this subinterval is
PYROXENITE
Textures noted: MASSIVE
.07% MAGNETITE as disseminations and scattered crystals

FROM 187.76MT. TO 192.11MT.
med. dark grey DACITIC TUFF
Structures noted: BANDING ,
5% BIOTITE as microveins
1% PYRRHOTITE as disseminations and scattered crystals
187.70 192.11 DARK GREY FINE GRAINED, BIOTITIC, INTERMEDIATE TUFFS

FROM 189.60MT. TO 190.40MT.
100% of this subinterval is
med. light green PYROXENITE; TALCOSE
Textures noted: , MASSIVE
.07% MAGNETITE as pervasive mineralization
189.60 190.40 TALCOSE MAGNETIC(FAIRLY) PYROXENITE

FROM 192.11MT. TO 221.28MT.
med. dark green BASALT
Textures noted: , MASSIVE
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
.03% PYRITE as disseminations and scattered crystals
.03% PYRRHOTITE as disseminations and scattered crystals

FROM 200.10MT. TO 218.23MT.
100% of this subinterval is the same as 192.11MT. to 221.28MT. except as noted
VARIOLITIC BASALT

FROM 214.00MT. TO 214.60MT.
100% of this subinterval is the same as 192.11MT. to 221.28MT. except as noted
BASALT
1% EPIDOTE as macroveins

FROM 219.80MT. TO 220.60MT.
100% of this subinterval is
med. dark grey DACITIC TUFF; BIOTITIC
Textures noted: , BANDED
Structures noted: BANDING ,
10% BIOTITE as pervasive mineralization

FROM 220.60MT. TO 221.28MT.
100% of this subinterval is
medium green PYROXENITE
Textures noted: , MASSIVE

END 221.28 END OF HOLE

IN-HOLE SURVEY AT 219.76 MT.
GRID AZIMUTH OF HOLE 189.00 VERTICAL ANGLE -49.00
TRUE AZIMUTH OF HOLE 224

A001

AUMM			GTMAU	GTM AGPPM	CU %	CU PPM	ZN %	ZN
ALAB			CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC					
ATYP			H-COR	H-COR	H-COR	H-COR	H-COR	H-COR
AMTH			FA	FA	AA			
A001	8717	8817	2388	000	000			
A001	12527	12617	2389	000	.17			
A001	14054	14155	2390	.17	000			
A001	15682	15782	2391	.17	.17			
A001	16807	16907	2392	.17	.17			
A001	16907	16965	2393	.17	.17	0.064	0.048	
A001	16965	17008	2394	2.58	6.30	0.211	0.032	
A001	17008	17108	2395	.17	.17			
A001	18142	18242	2396	.17	000		.73	
A001	18242	18352	2397	.17	.17		.53	

RASY NOTE: TRACE VALUE = 0.17 G/METRIC TON.
RASY NOTE: NIL VALUE = 000 G/METRIC TON.
/END

HOLE 82CH 14
PLACER DEVELOPMENT LTD,V.116,EASTMAIN.
TWP. 2334, QUEBEC.
CLAIM NO. 404988-1
GRID NORTH -163.00 GRID EAST 1550.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 205.74mt.
Logged by: M.Drouin on (day/mo/yr)... JUL82
Drilled by: Bradley Bros. Ltd (mo/yr).. JUL82

FROM 0.00MT. TO 7.01MT.
OVERBURDEN

FROM 7.01MT. TO 41.85MT.
med. dark green BASALT
Textures noted: MASSIVE
10% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
.1% CHALCOPYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals
27.70 30.78 HIGHLY CARBONATED
32.37 34.05 GRANODIORITE DYKE
36.09 36.97 FINE GRAINED

FROM 41.85MT. TO 68.46MT.
med. dark grey GRANODIORITE with FELDSPARS, GEN. ,
Textures noted: MASSIVE
41.85 68.46 GRANODIORITE CONTAINS UP TO 35% BASALT AS XENOLITH AND AS THICK INCLUSIONS AS WELL AS 10% FINE GRAINED LIGHT GREY GRANITIC DYKES

FROM 68.46MT. TO 95.55MT.
med. dark green BASALT
Textures noted: MASSIVE
1% QUARTZ as microveins
5% CARBONATE as microveins
68.46 95.55 VERY FRESH LOOKING

FROM 95.55MT. TO 98.48MT.
med. dark grey GRANODIORITE with FELDSPARS, GEN. ,
Textures noted: MASSIVE

FROM 98.48MT. TO 99.91MT.
med. dark green BASALT
Textures noted: MASSIVE
5% BIOTITE as laminations, bedded
10% CARBONATE as microveins

FROM 99.91MT. TO 103.42MT.
light grey GRANITE with QUARTZ , FELDSPARS, GEN. ,
2.5% QUARTZ as laminations, bedded
2.5% BIOTITE as disseminations and scattered crystals
2.5% MUSCOVITE as disseminations and scattered crystals

1% EPIDOTE as disseminations and scattered crystals

FROM 103.42MT. TO 119.09MT.
med. dark green BASALT
Textures noted: MASSIVE
2.5% CARBONATE as microveins
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 119.09MT. TO 120.60MT.
medium green PORPHYRITC BASALT with FELDSPARS, GEN. ,
Textures noted: PORPHYRITIC
1% QUARTZ as microveins
1% CARBONATE as microveins

FROM 120.60MT. TO 161.23MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
2.5% QUARTZ as microveins
.03% CARBONATE as microveins
.1% EPIDOTE as microveins
146.24 146.45 A FEW BLEACHED FRAGMENTS OR PATCHES

FROM 149.65MT. TO 161.23MT.
100% of this subinterval is the same as 120.60MT. to 161.23MT. except as noted
BASALT; TUFFACEOUS
Textures noted: BANDED
10% CARBONATE as laminations, bedded
.3% PYRRHOTITE as disseminations and scattered crystals
149.65 161.23 BASALT MORE ALTERED IN THIS SECTION-ABUNDANT CARBONATE BANDS WITH DISS. PO+PY. GRAIN SIZE AS WELL AS TEXTURES ARE VARIABLE. IN GENERAL UNIT HAS AN OVERALL TUFFACEOUS ASPECT WITH GOOD BANDING. LOCALLY WE HAVE 1MM SIZED AMPHIBOLES

FROM 161.23MT. TO 169.68MT.
PORPHYRITC BASALT
Textures noted: MASSIVE , PORPHYRITIC , PILLOWED
10% CARBONATE as microveins
161.50 162.40 BASALT IS WEAKLY PORPHYRITIC
161.23 169.68 1 TO 2% SCATTERED FELDSPAR PHENOCRYSTS
167.00 169.68 BASALT HAS A WEAKLY TUFFACEOUS ASPECT
169.46 169.68 5 TO 10% FINELY DISSEMINATED PY IN BASALT

FROM 169.68MT. TO 171.54MT.
med. light white META CHERT
2.5% PYRITE as disseminations and scattered crystals
.1% CHALCOPYRITE as disseminations and scattered crystals
2.5% PYRRHOTITE as disseminations and scattered crystals
169.68 171.54 META-CHERT 85 TO 95% SILICA,10% BASALTIC AND OR CHLORITIC MATERIAL, MAXIMUM 5% SULPHIDES CONSISTING OF EQUAL AMOUNTS OF PO AND PY WITH VERY MINOR CPY

FROM 171.54MT. TO 172.39MT.
med. dark green BASALT
Textures noted: MASSIVE , FOLIATED
1% QUARTZ as microveins

5% PYRITE as disseminations and scattered crystals

FROM 172.39MT. TO 172.54MT.
medium grey MAFIC TUFF
Structures noted: BEDDING ,
20% BIOTITE as pervasive mineralization
.3% PYRITE as disseminations and scattered crystals
.07% PYRRHOTITE as disseminations and scattered crystals

FROM 172.54MT. TO 174.43MT.
med. light green BASALT; SILICIFIED
2.5% PYRITE as disseminations and scattered crystals
172.54 174.43 30% QUARTZ MINERALIZED WITH 3% PY IN BASALT

FROM 174.43MT. TO 185.13MT.
med. dark green BASALT
Textures noted: MASSIVE , FOLIATED
2.5% PYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

FROM 185.13MT. TO 185.93MT.
med. dark white GRANITE DYKE; EPIDOTIZED
5% GARNET as microveins
1% PYRITE as disseminations and scattered crystals
10% FELDSPAR as microveins
20% EPIDOTE as microveins
185.13 185.93 APHANITIC,HIGHLY EPIDOTIZED(30%) K-FELDSPAR BANDED,
WHITISH COLORED ACID DYKE. LIGHT BLUISH GREEN CLAY.
LITE MINERAL ALONG FRACTURES

FROM 185.93MT. TO 189.59MT.
medium green PYROXENITE
Textures noted: MASSIVE
2.5% CARBONATE as microveins
.07% MAGNETITE as pervasive mineralization
187.66 189.59 SLIGHT MAGNETIC FINE GRAINED PYRX: NOT TALCOSE

FROM 189.59MT. TO 195.99MT.
med. dark green BASALT
Textures noted: MASSIVE , FOLIATED
2.5% QUARTZ as microveins
5% BIOTITE as microveins

FROM 192.60MT. TO 194.30MT.
100% of this subinterval is
medium green PYROXENITE
Textures noted: MASSIVE
193.09 193.15 DACITIC TUFF BAND

FROM 194.80MT. TO 195.16MT.
100% of this subinterval is
med. dark grey DACITIC TUFF
Textures noted: BANDED
1% QUARTZ as microveins
1% CARBONATE as microveins

.3% CHALCOPYRITE as disseminations and scattered crystals
2.5% PYRRHOTITE as disseminations and scattered crystals

FROM 195.99MT. TO 198.43MT.
RHYOLITIC TUFF; BIOTITIC, CHERTY
Structures noted: BANDING ,
20% BIOTITE as microveins
.3% PYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 198.43MT. TO 205.74MT.
med. dark green BASALT
Textures noted: MASSIVE
2.5% BIOTITE as microveins
1% CARBONATE as microveins
1% FELDSPAR as microveins

FROM 205.13MT. TO 205.74MT.
100% of this subinterval is the same as 198.43MT. to 205.74MT. except as noted
BASALT

END 205.74 END OF HOLE

IN-HOLE SURVEY AT 204.22 MT.
GRID AZIMUTH OF HOLE 189.00 VERTICAL ANGLE -54.00
TRUE AZIMUTH OF HOLE 224

A001

AUMM			GTM AUGTM AGPPM CU % CU PPM ZN % ZN					
ALAB			CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC					
ATYP			H-COR H-COR H-COR H-COR H-COR H-COR					
AMTH			FA	FA	AA			
A001	1494	1594	2426	.17	.17			
A001	2783	2883	2427	.17	.17			
A001	16846	16947	2428	.17	000			
A001	16947	16968	2429	.17	0.95	0.007	0.001	
A001	16968	17069	2430	6.48	13.06	0.027		
A001	17069	17154	2431	.17	5.31	0.008		
A001	17154	17239	2432	.17	.17			
A001	17239	17254	2433	1.10	5.42			
A001	17254	17355	2434	1.61	2.95	0.009		
A001	17355	17444	2435	.17	0.35	0.040		
A001	18187	18319	2436	1.17	2.88			
A001	19483	19529	2413	000	000			

RASY NOTE: TRACE VALUE = 0.17 G/METRIC TON.
RASY NOTE: NIL VALUE = 000 G/METRIC TON.
/END

HOLE B2CH15
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2334 , QUEBEC.
CLAIM NO. 404968-1
GRID NORTH -195.00 GRID EAST 1650.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 215.50mt.
Logged by: M.Drouin on (day/mo/yr)... JUL82
Drilled by: Bradley Bros. Ltd (mo/yr).. JUL82

FROM 0.00MT. TO 4.88MT.
OVERBURDEN

FROM 4.88MT. TO 8.80MT.
med. dark green PILLOWED BASALT
Textures noted: PILLOWED , MASSIVE

FROM 8.80MT. TO 21.60MT.
medium grey GRANODIORITE with BIOTITE ,
880 2160 WEAKLY EPIDOTIZED FELDSPARS

FROM 21.60MT. TO 31.80MT.
BASALT
Textures noted: , MASSIVE
Structures noted: CONTACT dip 05,
5% CARBONATE as microveins

FROM 28.30MT. TO 30.00MT.
100% of this subinterval is
BASALT
Textures noted: , BRECCIATED
28.30 30.00 BASALT IS BRECCIATED-FRAGMENTS ARE LIGHT GREY IN COLOUR,
MORE FELCIC IN COMPOSITION. BRECCIATION IS PROBABLY RELA-
TED TO THE GRANODIORITE

FROM 31.80MT. TO 61.80MT.
med. light grey GRANODIORITE with BIOTITE ,
31.80 61.80 GRANODIORITE CONTAINS NUMEROUS XENOLITHS AND BANDS A FEW CM
TO 1 METER IN LENGTH OF BASALT

FROM 61.80MT. TO 127.00MT.
med. dark green PILLOWED BASALT
Textures noted: PILLOWED , MASSIVE , PILLOW BRECCIATED
.3% QUARTZ as microveins
2.5% CARBONATE as microveins

FROM 61.90MT. TO 62.50MT.
100% of this subinterval is the same as 61.80MT. to 127.00MT. except as noted
BASALT
Structures noted: MICROVEINS dip 90,
20% EPIDOTE as microveins
61.50 61.90 HEAVY EPIDOTE BOTH AS VEINS " TO CORE AXIS AND DISSEMINATIONS
MINOR QUARTZ AND SOME ASSOCIATED PY

FROM 78.00MT. TO 78.80MT.
100% of this subinterval is the same as 61.80MT. to 127.00MT. except as noted
BASALT
Textures noted: FLOW BRECCIA
10% PYRRHOTITE as selvages

78.00 78.80 PROBABLE FLOW BRECCIA WITH 7 TO 15% PO IN MATRIX
79.00 80.00 FLOW BRECCIA
83.00 86.00 SEVERAL CM THICK FLOW BRECCIAS

FROM 89.00MT. TO 93.30MT.
100% of this subinterval is the same as 61.80MT. to 127.00MT. except as noted
PILLOWED BASALT
Textures noted: PILLOWED
2.5% PYRRHOTITE as selvages

89.00 93.30 PILLOWED BASALTS WITH 2-3% PO IN PILLOW RIMS
97.40 100.30 SEVERAL 1MM THICK PO-CPY VEINLETS AT VARIOUS ANGLES TO CORE AXIS
102.00 103.20 GRANODIORITE DYKE
105.80 106.10 QUARTZ VEIN
107.60 108.00 FLOW TOP BRECCIA
110.80 111.00 FINE GRAINED GRANITIC DYKE WITH EPIDOTE FRACTURE FILLING
111.80 115.00 PILLOWED
118.00 120.40 VERY HEAVY CARBONATE AND MINOR EPIDOTE AND K-FELDSPARS FRACTURE FILLING FRACTURING IS " TO CORE AXIS
123.60 125.30 HEAVY CARBONATE EPIDOTE K-FELDSPAR(IN ORDER OF IMPORTANCE) FRACTURE FILLING " TO CORE AXIS

FROM 127.00MT. TO 128.30MT.
medium green PORPHYRITC BASALT with FELDSPARS, SEN. ,
Textures noted: , PORPHYRITIC
Structures noted: CONTACT dip 45,
127.10 127.40 VERY HIGHLY EPIDOTIZED AND K-FELDSPAR ALTERED. FINE GRAINED GRANITIC DYKE

FROM 128.30MT. TO 155.00MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , PILLOWED , FLOW BRECCIA
5% QUARTZ as microveins
.1% CARBONATE as microveins
1% EPIDOTE as microveins
128.30 155.00 ESSENTIALLY MASSIVE TO LOCALLY PILLOWED BASALTS;AMYGDALOIDAL IN PLACES. A FEW THIN HORIZONS OF FLOW BRECCIA.

FROM 155.00MT. TO 164.90MT.
medium green PILLOWED BASALT
Textures noted: , PILLOWED , AMYGDALOIDAL , FLOW BRECCIA
155.00 164.90 THIS SEQUENCE CONSISTS ALMOST ENTIRELY OF FLOW BRECCIA AND/OR PILLOW BRECCIA
155.40 157.80 SIGNIFICANT BLEACHING OF FRAGMENTS

FROM 164.90MT. TO 168.80MT.
medium green BASALT
Textures noted: MASSIVE
5% CARBONATE as microveins

FROM 169.80MT. TO 171.30MT.
med. dark green MAFIC TUFF
Textures noted: BANDED
.07% QUARTZ as macroveins
1% BIOTITE as disseminations and scattered crystals
2.5% CARBONATE as microveins
5% PYRITE as disseminations and scattered crystals
.03% CHALCOPYRITE as disseminations and scattered crystals
1% EPIDOTE as microveins
1% PYRRHOTITE as microveins
.1% SPHALERITE as microveins
164.60 169.65 MASSIVE PO BAND

FROM 171.30MT. TO 171.70MT.
med. dark grey RHYOLITIC TUFF
Textures noted: BEDDED
Structures noted: BEDDING dip 10,
5% QUARTZ as microveins
2.5% BIOTITE as disseminations and scattered crystals
.1% SPHALERITE as disseminations and scattered crystals

FROM 171.70MT. TO 172.10MT.
medium green DACITIC TUFF
Textures noted: BANDED
10% QUARTZ as microveins
1% PYRITE as disseminations and scattered crystals

FROM 172.10MT. TO 174.20MT.
med. light green PYROXENITE
Textures noted: MASSIVE
.07% MAGNETITE as disseminations and scattered crystals
172.10 174.20 PYROXENITE MODERATELY MAGNETIC;NOT TALCOSE IN THIS CASE

FROM 174.20MT. TO 175.00MT.
medium green BASALT; TUFFACEOUS
5% BIOTITE as disseminations and scattered crystals
1% PYRITE as disseminations and scattered crystals
1% PYRRHOTITE as microveins
.1% SPHALERITE as disseminations and scattered crystals
SPHALERITE IN THIS HOLE IS DISTINCTLY LIGHTER-MORE RED-
DISH BROWN

FROM 175.00MT. TO 178.00MT.
medium green PYROXENITE; CHLORITIC
Textures noted: MASSIVE
.07% MAGNETITE as disseminations and scattered crystals
175.00 178.00 SLIGHTLY MAGNETIC-VERY CHLORITIC PYROXENITE

FROM 178.00MT. TO 178.60MT.
medium green MAFIC TUFF
Textures noted: BEDDED , BANDED
Structures noted: BANDING ,
2.5% GARNET as disseminations and scattered crystals
2.5% PYRRHOTITE as microveins

2.5% SPHALERITE as microveins
178.00 178.60 THIS SECTION CONSISTS OF MAFIC GARNETIFEROUS,ZINC BEARINGS TUFFS WITH RHYOLITE TUFFS LIGHT GREY IN COLOUR FROM 178.3 - 179.49

FROM 178.60MT. TO 179.19MT.
CHERTY TUFF; CHERTY
Textures noted: , BEDDED
Structures noted: BEDDING ,
1% QUARTZ as microveins
2.5% PYRITE as microveins
1% CHALCOPYRITE as microveins
5% PYRRHOTITE as microveins
178.60 179.19 MINERALIZED CHERTY TUFF- CPY POSSIBLY REMOBILIZED IN FRACTURES.MINERALIZATION IS CONCENTRATED IN THE LAST .21METERS

FROM 179.19MT. TO 179.50MT.
med. dark brown BASALT; TUFFACEOUS
20% BIOTITE as pervasive mineralization
.07% PYRITE as disseminations and scattered crystals

FROM 179.50MT. TO 180.44MT.
dark green MAFIC TUFF
Textures noted: , BANDED
10% CARBONATE as laminations, bedded
.07% PYRITE as disseminations and scattered crystals
10% EPIDOTE as laminations, bedded
.07% PYRRHOTITE as disseminations and scattered crystals

FROM 180.44MT. TO 180.65MT.
medium grey DACITIC TUFF
Textures noted: BANDED
.3% CHALCOPYRITE as disseminations and scattered crystals
2.5% PYRRHOTITE as disseminations and scattered crystals

FROM 180.65MT. TO 181.11MT.
medium green MAFIC TUFF
Textures noted: BANDED
10% QUARTZ as microveins
5% PYRITE as microveins
10% CHALCOPYRITE as patches
10% PYRRHOTITE as microveins
180.65 181.11 HEAVILY MINERALIZED QUARTZ INJECTED MAFIC TUFFS
30% TOTAL SULPLIDES;EQUAL QUANTITIES OF PO-CPY (15%)
10% PY

FROM 181.11MT. TO 182.11MT.
medium green MAFIC TUFF
Textures noted: BANDED
2.5% PYRRHOTITE as disseminations and scattered crystals

FROM 182.11MT. TO 189.28MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
1% CARBONATE as microveins

183.70 184.00 WEAKLY PORPHYRITIC -FELDSPAR PHENOCRYSTS

FROM 189.28MT. TO 191.84MT.
medium green RHYOLITE; CHLORITIC, SERICITIC
Textures noted: BANDED
1% CARBONATE as microveins
1% SERICITE as eyes, augen

FROM 191.84MT. TO 196.41MT.
med. dark green BASALT
Textures noted: MASSIVE , FOLIATED
5% BIOTITE as laminations, bedded
1% CARBONATE as microveins

FROM 196.41MT. TO 197.57MT.
PYROXENITE; TALCOSE
10% EPIDOTE as pervasive mineralization
.07% HEMATITE as pervasive mineralization
196.41 197.57 MODERATELY MAGNETIC-TALCOSE ALONG FRACTURES PYROXENITE
197.14 197.21 POSSIBLE FAULT ZONE

FROM 197.57MT. TO 215.50MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
2.5% QUARTZ as microveins
1% CARBONATE as microveins

FROM 215.18MT. TO 215.50MT.
100% of this subinterval is the same as 197.57MT. to 215.50MT. except as noted
VARIOLITIC BASALT
215.18 215.50 VARIOLITIC BASALT
END 215.50 END OF HOLE

IN-HOLE SURVEY AT 204.80 MT.
GRID AZIMUTH OF HOLE 184.00 VERTICAL ANGLE -54.00
TRUE AZIMUTH OF HOLE 219

A001									
AUMM			GTM	AUGTM	AGPPM	CU %	CU PPM	ZN %	ZN
ALAB			CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC						
ATYP			H-COR	H-COR	H-COR	H-COR	H-COR	H-COR	
AMTH			FA	FA	AA				
A001	6187	6248	2398	000	000				
A001	7797	7876	2399	000	.17				
A001	8953	9052	2400	.17	000				
A001	9741	9841	2401	.17	000	1880			
A001	16883	16983	2402	.17	000		0.035		0.008
A001	16983	17084	2403	.17	.17		0.034		0.010
A001	17084	17133	2404	.17	.17		0.034		0.19
A001	17133	17209	2405	.17	000		0.017		0.012
A001	1780	17861	2406	0.72	2.57		0.14		0.15
A001	17861	17919	2407	64.28	58.97		0.38		0.025
A001	17919	18044	2408	.17	.17		0.076		0.014
A001	18044	18065	2409	0.51	0.75		0.13		0.010
A001	18065	18111	2410	20.40	23.42		0.71		0.021

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A001 18111 18211      2411  4.15 14.71
A001 18211 18236      2412   .17   .17
RASY                       NOTE: TRACE VALUE = 0.17 G/ METRIC TONNE
RASY                       NOTE: NIL VALUE = 000 G/ METRIC TONNE
/END
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HOLE 82CH16
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN
TWP. 2334 , QUEBEC .
CLAIM NO. 399291-5
GRID NORTH -230.00 GRID EAST 1250.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 224.30mt.
Logged by: M.Drouin on (day/mo/yr)... JUL82
Drilled by: Bradley Bros. Ltd (mo/yr).. JUL82

FROM 0.00MT. TO 6.71MT.
OVERBURDEN

FROM 6.71MT. TO 28.40MT.
med. dark green BASALT with FELDSPARS, GEN. ,
Textures noted: MASSIVE
1% BIOTITE as laminations, bedded
2.5% CARBONATE as microveins
1% PYRITE as disseminations and scattered crystals
.1% CHALCOPYRITE as disseminations and scattered crystals
10.60 11.10 PORPHYRITIC BASALT -FELDSPAR PHENOCRYSTS

FROM 28.40MT. TO 35.00MT.
PORPHYRITC BASALT with FELDSPARS, GEN. ,
Textures noted: PORPHYRITIC

FROM 35.00MT. TO 72.20MT.
med. dark green PILLOWED BASALT
Textures noted: MASSIVE , FLOW BRECCIA , PILLOWED , AMYGDALOIDAL
5% CARBONATE as microveins
1% FELDSPAR as microveins
1% EPIDOTE as microveins
45.30 46.40 15% 2MM AMPHIBOLE PHENOCRYSTS
35.00 55.20 VERY FRESH MASSIVE V7
55.20 72.20 VERY FRESH PILLOWED BASALTS-LOCAL FLOW TOP OR PILLOW BRECCIA
59.30 59.50 PORPHYRITIC(BOTH FELDSPAR 5% AND AMPHIBOLE 10%)PHENOCRYSTS
FLOW OR DYKE

FROM 72.20MT. TO 76.50MT.
pale grey RHYOLITIC TUFF; SERICITIC
Textures noted: , BEDDED
1% GARNET as disseminations and scattered crystals
1% FELDSPAR as microveins
2.5% CHLORITE as laminations, bedded
.3% MOLYBDENITE as laminations, bedded
72.20 76.50 UP TO 1% MINISCULE GARNETS
76.20 76.50 SERICITIC-LIGHT APPLE GREEN BANDS OF SERICITE.

FROM 76.50MT. TO 153.20MT.
medium green PILLOWED BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , PILLOWED , FLOW BRECCIA
1% QUARTZ as microveins
1% GARNET as microveins

65.60 67.10 BASALT IS LOCALLY FLOW BRECCIATED
76.50 153.20 BASALT IS LOCALLY PILLOWED AND FLOW BRECCIATED

FROM 153.20MT. TO 158.40MT.
medium green MAFIC TUFF
Textures noted: BANDED
Structures noted: BANDING ,
20% BIOTITE as laminations, bedded
.1% CHALCOPYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals
153.20 158.40 MAFIC TUFF WITH SOME INTERBEDDED MASSIVE BASALT-SECTION CHARACTERIZED BY ABUNDANT BIOTITE BANDING

FROM 158.40MT. TO 164.30MT.
med. dark green BASALT
Textures noted: MASSIVE
1% BIOTITE as laminations, bedded

FROM 164.30MT. TO 166.30MT.
med. light green RHYOLITIC TUFF;CHERTY
Textures noted: , BEDDED
Structures noted: BEDDING dip 10,
1% QUARTZ as eyes, augen
5% BIOTITE as laminations, bedded
20% MUSCOVITE as laminations, bedded

FROM 166.30MT. TO 167.20MT.
medium green BASALT
Textures noted: FOLIATED
2.5% BIOTITE as microveins
2.5% PYRRHOTITE as disseminations and scattered crystals

FROM 167.20MT. TO 170.80MT.
light grey CHERTY TUFF
Textures noted: , BEDDED
Structures noted: BEDDING dip 05,
1% QUARTZ as eyes, augen
1% EPIDOTE as microveins

FROM 167.80MT. TO 168.30MT.
100% of this subinterval is the same as 167.20MT. to 170.80MT. except as noted
·CHERTY TUFF
10% GARNET as laminations, bedded
1% PYRITE as disseminations and scattered crystals
2.5% CHALCOPYRITE as microveins
2.5% PYRRHOTITE as microveins
.3% SPHALERITE as disseminations and scattered crystals
167.80 168.30 MINERALIZED CHERTY TUFF-VERY GOOD FUCHSITE BANDING
167.82-167.94; 167.94-168.16: CPY-PO BANDS 2-4MM THICK.
TOTAL SULPHIDES <10%

FROM 170.80MT. TO 178.40MT.
med. dark green BASALT
Textures noted: MASSIVE
5% BIOTITE as laminations, bedded

FROM 174.00MT. TO 176.20MT.
100% of this subinterval is the same as 170.90MT. to 178.40MT. except as noted
PYROXENITE
Textures noted: MASSIVE
10% QUARTZ as microveins
5% SERICITE as disseminations and scattered crystals
5% PYRRHOTITE as disseminations and scattered crystals

FROM 173.30MT. TO 173.80MT.
100% of this subinterval is
BASALT;SILICIFIED
40% QUARTZ as pervasive mineralization
20% BIOTITE as pervasive mineralization
5% PYRITE as disseminations and scattered crystals
1% SPHALERITE as disseminations and scattered crystals

FROM 178.40MT. TO 183.50MT.
RHYOLITIC TUFF; BIOTITIC,CHERTY
Textures noted: , BANDED
Structures noted: BANDING dip 10,
1% QUARTZ as eyes, augen
20% BIOTITE as pervasive mineralization
.1% PYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

FROM 180.90MT. TO 181.80MT.
100% of this subinterval is
med. dark green BASALT
Textures noted: , MASSIVE
.3% CHALCOPYRITE as disseminations and scattered crystals

FROM 183.50MT. TO 185.90MT.
med. dark green BASALT
Textures noted: , MASSIVE
1% QUARTZ as microveins
2.5% CARBONATE as microveins

FROM 185.90MT. TO 188.50MT.
medium grey RHYOLITIC TUFF with FELDSPAR, QUARTZ , BIOTITE.
Textures noted: PORPHYRITIC , FOLIATED
20% BIOTITE as pervasive mineralization

FROM 188.50MT. TO 203.00MT.
med. dark green PILLOWED BASALT
Textures noted: , PILLOWED
1% QUARTZ as microveins
5% BIOTITE as microveins
1% CARBONATE as macroveins
.1% CHALCOPYRITE as blebs
1% PYRRHOTITE as disseminations and scattered crystals
195.00 198.40 PYROXINITE, MASSIVE

FROM 203.00MT. TO 219.60MT.
med. dark green VARIOLITIC BASALT

Textures noted: , PILLOWED

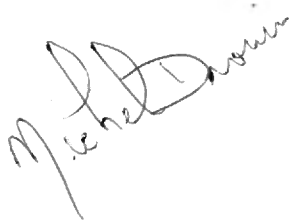
FROM 219.60MT. TO 224.30MT.
med. dark green BASALT
Textures noted: AMYGDALOIDAL , MASSIVE
END 224.30 224.30 END OF HOLE

IN-HOLE SURVEY AT 213.66 MT.
GRID AZIMUTH OF HOLE 185.0 VERTICAL ANGLE -53.00
TRUE AZIMUTH OF HOLE 220

A001
AUMM GTM AUGTM AGPPM CU CU% PPM ZN ZN % PPM AGPPB AU
ALAB CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP H-COR H-COR H-COR H-COR H-COR H-COR H-COR
AMTH FA AA AA

A001	2210	2310	2414	.17	.17					
A001	7550	7650	2415			11		34	0.1	5
A001	8630	8660	2416	.17	.17					
A001	15020	15120	2417	.17	000					
A001	15530	15630	2418	.17	.34					
A001	15730	15830	2419	.17	000					
A001	16630	16720	2420	.17	000					
A001	16720	16780	2421	.17	.17	22		53		
A001	16780	16830	2422	0.59	7.59		.27		.015	
A001	16830	16930	2423	.17	.34	520		11		
A001	17230	17330	2424	.17	.17	274		44		
A001	17330	17380	2425	61.47	4.97	287		760		
A001	18090	18190	2466	.17	000	1080				
A001	18227	18350	2467	.17	000					
A001	19300	19380	2468	.17	.17	3320				
A001	21800	21900	2469	.17	.17					

RASY TRACE VALUE = 0.17 G/METRIC TON.
RASY NIL VALUE = 000
/END



HOLE B2CH17
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2334 , QUEBEC.
CLAIM NO. 399291-5
GRID NORTH -196.00 GRID EAST 1200.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 226.16mt.
Logged by: M.Drouin on (day/mo/yr)... JUL82
Drilled by: Bradley Bros. Ltd. (mo/yr).. JUL82

FROM 0.00MT. TO 1.22MT.
OVERBURDEN

FROM 1.22MT. TO 9.75MT.
medium green PORPHYRITC BASALT with FELDSPARS, GEN. ,
Textures noted: PORPHYRITIC
.3% CARBONATE as microveins

FROM 9.75MT. TO 42.82MT.
med. light green PILLOWED BASALT; SILICIFIED
Textures noted: MASSIVE , BANDED , AMYGDALOIDAL , PILLOWED
20% QUARTZ as pervasive mineralization
2.5% BIOTITE as microveins
2.5% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
1% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as microveins

11.15	11.30	1-2% CPY AS BLEBS
11.95	12.07	3% CPY,2% PY IN FRACTURES BETWEEN EPIDOTE/K-FELDSPARS BANDS
23.68	23.86	FINE GRAINED GRANITIC DYKE
9.75	42.82	CORE HAS AN OVERALL HEAVILY CARBONATED APPEARANCE
		HOWEVER VERY LITTLE CARBONATE WAS DETECTED BY HCL
		THE HEAVY CARBONATE APPEARANCE IS DUE ESSENTIALLY TO
		SILICIFICATION - ALTERED BASALT
		VERY FINE SILICA IN AMYGDULES,SILICA RICH BANDS AND GENERAL
		PERVASIVE SILICIFICATION
		SULPHIDES PO-CPY OCCUR AS BLEBS,DISSEMINATIONS,BANDS IN THE
		MAFIC RICH DARK GREEN ZONES.
		SEVERAL REPRESENTATIVE SAMPLES OF
		-UNIQUE ROCK TYPE-HAVE BEEN TAKEN.
41.51	42.82	CORE HAS A FRAGMENTAL APPEARANCE,POSSIBLE "FRAGMENTS"
		HAVE BEEN ALL SILICIFIED -FRAGMENTAL BASALT
		-VISUALLY APPEARS AS ACID "FRAGMENTS" IN A BASIC MATRIX

FROM 42.82MT. TO 46.94MT.
med. dark green BASALT
Textures noted: MASSIVE
2.5% CARBONATE as microveins

FROM 46.94MT. TO 55.29MT.
med. dark green META BASALT with AMPHIBOLES ,
Textures noted: MASSIVE
BASALT IS COARSE GRAINED

FROM 55.29MT. TO 100.34MT.
med. dark green PILLOWED BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , FLOW BRECCIA , PILLOWED
Structures noted: CONTACT dip 00,
1% QUARTZ as microveins
2.5% CARBONATE as microveins
55.29 100.34 VERY FRESH LOOKING BASALTS
58.44 59.74 FLOW TOP BRECCIA
73.55 73.61 FLOW TOP BRECCIA
75.30 100.30 PILLOWED AND MASSIVE BASALT

FROM 100.34MT. TO 113.00MT.
light grey RHYOLITE; CHERTY
Textures noted: , BANDED
Structures noted: BANDING ,
.3% GARNET as microveins
.3% PYRITE as disseminations and scattered crystals
.3% FELDSPAR as microveins
.3% EPIDOTE as microveins
5% SPHALERITE as microveins

FROM 113.00MT. TO 121.71MT.
med. dark green BASALT
Textures noted: MASSIVE
2.5% CARBONATE as microveins
.1% FELDSPAR as microveins
.1% EPIDOTE as microveins

FROM 121.71MT. TO 124.36MT.
med. dark grey RHYOLITIC TUFF
Textures noted: , BANDED
Structures noted: BANDING ,
1% QUARTZ as microveins
5% FELDSPAR as microveins
121.71 124.36 ALTERED TUFF

FROM 124.36MT. TO 131.00MT.
med. dark green BASALT
Textures noted: , MASSIVE
2.5% CARBONATE as microveins
2.5% PYRRHOTITE as disseminations and scattered crystals
125.27 125.58 VERY EPIDOTIZED SECTION

FROM 131.00MT. TO 134.00MT.
med. dark red BASALT
40% CARBONATE as pervasive mineralization
20% FELDSPAR as pervasive mineralization
131.00 139.00 ALTERED BASALT COMPOSED ESSENTIALLY OF FINE K-FELDSPAR AND FINE EPIDOTE IN A FE SIC MATRIX-CONTAINS MINOR BASALTIC MATERIAL

FROM 134.00MT. TO 171.42MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL

10% QUARTZ as amydaloids, cavity fillings
5% BIOTITE as laminations, bedded
5% CARBONATE as microveins
1% CHALCOPYRITE as blebs
2.5% PYRRHOTITE as disseminations and scattered crystals

134.00 171.42 AMYGDULAR BASALT(MG-CG)-ABUNDANT SILICA FILLED AMYGDULES SIMILAR TO BEGINNING OF HOLE-CPY OCCURS AT IRREGULAR INTERVALS IN MAFIC RICH BANDS WHERE NO AMYGDULES ARE PRESENT-USUALLY ASSOCIATED WITH PO [MG: MEDIUM GRAINED-CG: COARSE GRAINED]

153.62 155.75 WEAKLY TUFFACEOUS

FROM 171.42MT. TO 173.10MT.
med. light grey RHYOLITIC TUFF
Textures noted: BEDDED
Structures noted: BEDDING ,
5% BIOTITE as laminations, bedded
.3% CHALCOPYRITE as microveins

172.52 173.00 DRAG FOLDING PRESENT

172.30 173.10 BASALT

FROM 173.10MT. TO 176.51MT.
med. dark green PYROXENITE; BIOTITIC
Textures noted: MASSIVE
10% BIOTITE as laminations, bedded

FROM 176.51MT. TO 177.39MT.
medium green RHYOLITIC TUFF; BIOTITIC
Textures noted: , BEDDED
Structures noted: CONTACT dip 00, BEDDING
10% BIOTITE as pervasive mineralization
.3% CHALCOPYRITE as disseminations and scattered crystals

FROM 177.39MT. TO 178.31MT.
med. dark green PYROXENITE
Textures noted: MASSIVE

FROM 178.31MT. TO 180.26MT.
medium grey RHYOLITIC TUFF
Textures noted: BEDDED
Structures noted: CONTACT dip 10, BEDDING
.1% MARIPOSITE as microveins
.1% CHALCOPYRITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals

179.50 179.50 2 MM GREEN CARBONATE (MARIPOSITE/FUCHSITE) BAND

FROM 180.26MT. TO 182.27MT.
med. dark green PYROXENITE
Textures noted: MASSIVE
2.5% BIOTITE as laminations, bedded
.07% MAGNETITE as pervasive mineralization

180.26 182.27 SLIGHTLY MAGNETIC-NOT TALCOSE,

180.29 180.62 FAULT ZONE.

FROM 182.27MT. TO 183.49MT.

RHYOLITIC TUFF
Textures noted: BEDDED
Structures noted: BEDDING ,
5% BIOTITE as pervasive mineralization

FROM 183.49MT. TO 185.50MT.
medium green PYROXENITE
Textures noted: MASSIVE
5% BIOTITE as laminations, bedded
184.43 184.62 BIOTITIC INTERMEDIATE TO BASIC TUFF BAND WITH 1-3% FINE DISSEMINATED PY.

FROM 184.00MT. TO 185.50MT.
100% of this subinterval is
BASALT
Textures noted: MASSIVE

FROM 185.50MT. TO 187.60MT.
medium grey RHYOLITIC TUFF; BIOTITIC
Textures noted: BEDDED
Structures noted: BEDDING ,
5% BIOTITE as pervasive mineralization

FROM 187.60MT. TO 202.51MT.
medium green BASALT; TUFFACEOUS,SILICIFIED
Textures noted: BANDED , AMYSDALOIDAL , MASSIVE
1% CHALCOPYRITE as disseminations and scattered crystals
187.60 202.51 BASALT MASSIVE TO TUFFACEOUS;VARIES FROM VERY FRESH TO "SILICIFIED",CHALCOPYRITE OCCURS AS DISSEMINATIONS AND BLEBS.
-LOCALLY INCLUDES SOME DACITIC MATERIAL.

FROM 195.89MT. TO 196.72MT.
100% of this subinterval is
medium grey QUARTZ-FELDSPAR PORPHYRY with QUARTZ , FELDSPARS, GEN. ,
Textures noted: MASSIVE
5% BIOTITE as disseminations and scattered crystals
1% CARBONATE as disseminations and scattered crystals

FROM 202.51MT. TO 203.88MT.
med. dark grey PYROXENITE
Textures noted: MASSIVE
.07% MAGNETITE as disseminations and scattered crystals
2.5% PYRRHOTITE as disseminations and scattered crystals
202.51 203.88 MODERATLY TO HIGHLY MAGNETIC

FROM 203.88MT. TO 221.59MT.
medium green BASALT
Textures noted: MASSIVE
2.5% QUARTZ as microveins
5% BIOTITE as microveins

FROM 211.00MT. TO 217.30MT.
100% of this subinterval is
PYROXENITE

Textures noted: MASSIVE
.07% MAGNETITE as pervasive mineralization
2.5% PYRRHOTITE as disseminations and scattered crystals

211.00 217.30 HIGHLY MAGNETIC

FROM 217.50MT. TO 220.10MT.
100% of this subinterval is
med. dark green MAFIC TUFF
Textures noted: BANDED
Structures noted: BANDING ,
2.5% QUARTZ as microveins
20% BIOTITE as microveins
5% CARBONATE as microveins

217.78 218.24 BIOTITIC DACITIC TUFFS TO BASALTIC TUFFS

FROM 221.59MT. TO 226.16MT.
med. dark green VARIOLITIC BASALT
Textures noted: MASSIVE , FOLIATED , AMYGDALOIDAL
1% PYRRHOTITE as disseminations and scattered crystals

221.59 226.16 WEAKLY TO MODERATELY VARIOLITIC BASALT

END 226.16 END OF HOLE

IN-HOLE SURVEY AT 224.63 MT.
GRID AZIMUTH OF HOLE 189.00 VERTICAL ANGLE -52.00
TRUE AZIMUTH OF HOLE 224

A001
AUMM GTM AUGTM AGPPM CU CU % PPM ZN ZN %
ALAB CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP H-COR H-COR H-COR H-COR H-COR
AMTH FA AA AA

A001	1115	1207	2437	.17	000	1680
A001	2804	2904	2438	.17	.17	1600
A001	2999	3099	2439	.17	000	440
A001	3432	3532	2440	.17	.17	372
A001	3718	3818	2441	.17	.17	234
A001	4023	4124	2442	.17	000	230
A001	12588	12689	2443	.17	000	
A001	15148	15274	2444	.17	.17	1040
A001	16063	16081	2445	.17	.17	
A001	16398	16499	2447	.17	000	400
A001	16511	16611	2448	.17	.17	500
A001	17142	17243	2449	.17	000	420
A001	17648	17739	2450	.17	.17	20
A001	17852	17953	2451	.17	000	164
A001	1869	18791	2452	.17	000	1030
A001	19337	19437	2453	.51	8.67	3560
A001	19437	19538	2454	.17	.17	1800
A001	19711	19812	2455	.17	000	3680
A001	19812	19913	2456	.17	.34	6480
A001	20041	20141	2457	.17	.17	400

RASY NOTE: TRACE VALUE = .17 G/ METRIC TONNE
RASY NOTE: NIL VALUE = 000 G/METRIC TONNE
/END

HOLE 82CH 18
PLACER DEVELOPMENT LTD,V.116,EASTMAIN.
TWP. 2334 ,QUEBEC.
CLAIM NO. 404968-1
GRID NORTH -150.00 GRID EAST 1300.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -65.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 260.90mt.
Logged by: M.Drouin on (day/mo/yr)... JUL82
Drilled by: Bradley Bros. Ltd (mo/yr).. JUL82

FROM 0.00MT. TO 1.22MT.
OVERBURDEN
1.22 25.30 MEGA-AMYGDULAR BASALT

FROM 1.22MT. TO 49.07MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
10% QUARTZ as amydaloids, cavity fillings
2.5% CARBONATE as amydaloids, cavity fillings
.3% CHALCOPYRITE as disseminations and scattered crystals
.03% FELDSPAR as microveins
1% EPIDOTE as microveins
1% PYRRHOTITE as disseminations and scattered crystals
1.22 49.07 CPY OCCURS AS STRINGERS -VERY FINE DISSEMINATIONS (FILLING AMYGDULES) AND AS BLEBS -ABUNDANCE OF CPY IS ABNORMALLY HIGH
6.89 7.41 BASALT BECOMES MORE SILICEOUS -ALMOST DACITIC
25.30 26.21 BASALT HAS A FRAGMENTAL APPEARANCE, HOWEVER ALL "PSEUDO" FRAGMENTS HAVE BEEN REPLACED AND ARE COMPOSED OF SILICA
26.30 26.39 FELDSPAR PORPHYRY DYKE
54.77 54.80 THIN GARNETIFEROUS BAND 3CM THICK

FROM 49.07MT. TO 96.51MT.
med. dark green BASALT
Textures noted: MASSIVE
1% QUARTZ as microveins
1% CARBONATE as microveins
.1% CHALCOPYRITE as disseminations and scattered crystals
.03% PYRRHOTITE as disseminations and scattered crystals

FROM 76.51MT. TO 96.10MT.
100% of this subinterval is the same as 49.07MT. to 96.51MT. except as noted
PILLOWED BASALT
Textures noted: PILLOWED
10% BIOTITE as laminations, bedded
BIOTITIC BASALT, PILLOW RIMS ARE HIGHLY BIOTITIC

FROM 96.51MT. TO 99.12MT.
med. dark green LAPILLI TUFF
961 9912 PROBABLY EQUIVALENT TO FRAGMENTAL BASALT
LAPILLI TUFF IN THIS CASE

FROM 99.12MT. TO 126.92MT.

med. dark green BASALT
Textures noted: PILLOWED , FLOW BRECCIA , AMYGDALOIDAL
.3% QUARTZ as microveins
2.5% CARBONATE as microveins

99.12 126.92 VERY FRESH LOOKING LOCALLY FLOW BRECCIATED BASALTS

FROM 126.92MT. TO 135.02MT.
medium green RHYOLITIC TUFF;SERICITIC,CHERTY
Textures noted: , BANDED
.1% GARNET as pervasive mineralization
.3% PYRITE as disseminations and scattered crystals

FROM 135.02MT. TO 209.70MT.
med. dark green PILLOWED BASALT
Textures noted: MASSIVE , AMYSDALOIDAL , FLOW BRECCIA , PILLOWED
2.5% CARBONATE as microveins
.01% CHALCOPYRITE as disseminations and scattered crystals

FROM 209.70MT. TO 224.06MT.
medium green MAFIC TUFF; TUFFACEOUS
Textures noted: BANDED
Structures noted: BANDING dip 05,
2.5% QUARTZ as microveins
5% BIOTITE as microveins
2.5% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
.1% FELDSPAR as microveins
2.5% PYRRHOTITE as disseminations and scattered crystals

FROM 210.62MT. TO 211.59MT.
100% of this subinterval is
medium grey RHYOLITIC TUFF; CHERTY
Textures noted: BEDDED
Structures noted: BEDDING ,
2.5% BIOTITE as disseminations and scattered crystals
.03% FELDSPAR as microveins

FROM 219.76MT. TO 220.46MT.
100% of this subinterval is
medium grey RHYOLITIC TUFF; CHERTY
Textures noted: BEDDED
Structures noted: BEDDING dip 05,
10% BIOTITE as disseminations and scattered crystals

FROM 221.86MT. TO 222.96MT.
100% of this subinterval is
medium grey RHYOLITIC TUFF
Textures noted: BEDDED
Structures noted: BEDDING dip 05,
10% BIOTITE as disseminations and scattered crystals

224.06 225.06 SULPHIDE ZONE CONSISTS OF SILICA RICH BANDS WITH A BARREN BASALTIC BAND FROM 224.70 TO 224.85 (MINERALIZED METACHERT ABOVE AND BELOW). SULPHIDE CONTENT VARIES FROM 5 TO 30% AVERAGING 20% IN ORDER OF IMPORTANCE WE HAVE PY/PO/CPY

FROM 224.06MT. TO 225.06MT.
medium grey META CHERT
30% QUARTZ as pervasive mineralization
20% PYRITE as microveins
2.5% CHALCOPYRITE as microveins
1% PYRRHOTITE as microveins

FROM 225.06MT. TO 225.58MT.
med. dark brown META-DACITE TUFFACEOUS
10% BIOTITE as pervasive mineralization
5% GARNET as disseminations and scattered crystals
1% PYRITE as disseminations and scattered crystals
225.06 225.58 ALTERED DACITE (?) CONTAINS 3-5% 2 TO 3MM GARNETS AS WELL AS CONTORTED "STRINGERS" OF BASALTIC MATERIAL. MATRIX IS LIGHT BROWN COLORED AND BIOTITE RICH

FROM 225.58MT. TO 226.49MT.
med. dark brown META-DACITE; TUFFACEOUS
10% BIOTITE as pervasive mineralization
5% EPIDOTE as disseminations and scattered crystals
225.58 226.49 SIMILAR TO PREVIOUS -EXCEPT NO GARNETS AND THE PRESENCE OF DISSEMINATED EPIDOTE

FROM 226.49MT. TO 227.99MT.
med. light grey DACITIC TUFF; TUFFACEOUS
Textures noted: , BANDED
5% BIOTITE as disseminations and scattered crystals
5% MUSCOVITE as microveins

FROM 227.99MT. TO 229.00MT.
PYROXENITE
Textures noted: , MASSIVE

FROM 229.00MT. TO 229.82MT.
medium green BASALT; TUFFACEOUS
Textures noted: , BANDED
Structures noted: BANDING dip 10,
5% BIOTITE as microveins

FROM 229.82MT. TO 234.69MT.
med. light grey RHYOLITIC TUFF
Textures noted: , BANDED
2.5% QUARTZ as eyes, augen
5% BIOTITE as microveins
2.5% MUSCOVITE as microveins
229.82 234.69 QUARTZ-EYE TUFFS -RHYOLITE -MINOR BIOTITIC BANDING

FROM 234.69MT. TO 260.90MT.
medium green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
2.5% QUARTZ as microveins
2.5% BIOTITE as disseminations and scattered crystals
2.5% CARBONATE as microveins
.3% FELDSPAR as microveins

260.29 260.60 A FEW BLEBS OF CPY

FROM 248.70MT. TO 256.00MT.
100% of this subinterval is
med. dark green PYROXENITE
Textures noted: MASSIVE
.07% MAGNETITE as disseminations and scattered crystals

END 260.90 END OF HOLE

IN-HOLE SURVEY AT 250.20 MT.
GRID AZIMUTH OF HOLE 190.00 VERTICAL ANGLE -59.00
TRUE AZIMUTH OF HOLE 225

A001								
AUMM				GTM AUGTM AGPPM CU CU % PPM ZN ZN %				
ALAB				CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC				
ATYP				H-COR H-COR H-COR				
AMTH				FA FA AA				
A001	530	631	2606	.17	1.37	5480		
A001	1493	1646	2607	.17	.34	600		
A001	3371	3472	2608	.17	000	4300		
A001	3472	3572	2609	.17	000	1920		
A001	3572	3673	2610	.17	000	3360		
A001	3673	3773	2611	.17	000	1760		
A001	3993	4115	2612	.17	000	560		
A001	4115	4215	2613	.17	000	1740		
A001	4560	4660	2614	.17	000	560		
A001	4712	4813	2615	.17	000	2740		
A001	5440	5541	2616	.36	1.76	270		
A001	17483	17584	2617	.17	000			
A001	21665	21766	2618	.41	1.44	3450		
A001	21766	21863	2619	.17	000	1280		
A001	21976	22046	2620	.17	000			
A001	22305	22406	2621	.17	.17			
A001	22406	22506	2622	63.46	94.10		0.22	
A001	22506	22558	2623	.17	.17			
A001	22558	22650	2624	.17	000			
RASY				NOTE: TRACE VALUE = 0.17 G/METRIC TONNE				
RASY				NOTE: NIL VALUE = 000 G/METRIC TONNE				
/END								

HOLE 82CH19
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2334 , QUEBEC.
CLAIM NO. 404968-1
GRID NORTH -210.00 GRID EAST 1600.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -55.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 199.90mt.
Logged by: M.Drouin on (day/mo/yr)... JUL82
Drilled by: Bradley Bros. Ltd (mo/yr).. JUL82

FROM 0.00MT. TO 5.80MT.
OVERBURDEN

FROM 5.80MT. TO 74.80MT.
BASALT
Textures noted: MASSIVE
2.5% QUARTZ as microveins
.3% BIOTITE as disseminations and scattered crystals
5% CARBONATE as microveins

FROM 10.00MT. TO 13.30MT.
100% of this subinterval is the same as 5.80MT. to 74.80MT. except as noted
PORPHYRITC BASALT with AMPHIBOLES ,
Textures noted: PORPHYRITIC

10.00	13.30	20%, 1-2MM SIZED AMPHIBOLES -WEAKLY PORPHYRITIC TEXTURE
13.30	14.20	10-15% 1-2MM FELDSPAR PHENOCRYSTS -WEAK PORPHYRITIC TEXTURE
5.80	74.80	MEDIUM TO COARSE GRAINED BASALTS
25.00	25.40	WHITE QUARTZ VEIN
42.70	135.40	QUARTZ CARBONATE VEIN " TO CORE AXIS
91.40	94.20	PILLOWED BASALT
120.70	123.40	PILLOWED BASALT

FROM 74.80MT. TO 75.10MT.
very pale white QUARTZ VEIN

FROM 75.10MT. TO 86.40MT.
medium grey GRANODIORITE with FELDSPARS, GEN. , BIOTITE ,
Textures noted: MASSIVE
5% QUARTZ as microveins
.3% PYRRHOTITE as disseminations and scattered crystals

75.10	86.40	UNIT CONTAINS ABOUT 20% BASALTIC XENOLITHS UP TO .3M IN LENGTH

FROM 86.40MT. TO 145.70MT.
med. dark green BASALT
Textures noted: MASSIVE
2.5% QUARTZ as microveins
5% CARBONATE as microveins
.3% PYRRHOTITE as blebs

143.60	143.80	TUFFACEOUS BASALT

FROM 145.70MT. TO 160.70MT.

medium green BASALT; TUFFACEOUS,SILICIFIED
Textures noted: MASSIVE , BANDED
10% QUARTZ as microveins
2.5% BIOTITE as laminations, bedded
5% CARBONATE as microveins
1% PYRITE as disseminations and scattered crystals
5% PYRRHOTITE as laminations, bedded

145.70 160.70 BANDED BASALT TYPIFIED BY ABUNDANT QUARTZ CARBONATE BANDS FROM 1" TO 1.5' IN LENGTH; PO BANDS FROM A FEW MM TO 20M THICK OCCUR THROUGHOUT AT IRREGULAR INTERVALS; UP TO 2% FINELY DISSEMINATED PY. RECRYSTALLIZED AMPHIBOLE NEEDLES (UP TO 3MM LENGTH) OCCUR THROUGHOUT

152.60 153.00 WEAKLY PORPHYRITIC BASALT-5-10%-2 TO 3MM SIZED FELDSPAR PHENOCRYSTS

159.30 159.30 A FEW GARNETS AVERAGING 3MM IN DIAMETER

FROM 159.60MT. TO 160.00MT.
100% of this subinterval is
med. dark brown DACITIC TUFF
Textures noted: , BANDED
Structures noted: BANDING ,
20% BIOTITE as pervasive mineralization
2.5% PYRITE as disseminations and scattered crystals
1% PYRRHOTITE as microveins

FROM 160.50MT. TO 160.70MT.
100% of this subinterval is
medium grey RHYOLITIC TUFF
Textures noted: , BEDDED
Structures noted: BEDDING ,
10% BIOTITE as disseminations and scattered crystals
.1% PYRITE as disseminations and scattered crystals

FROM 160.70MT. TO 165.80MT.
med. light green PYROXENITE; TALCOSE
Textures noted: , MASSIVE
.07% MAGNETITE as disseminations and scattered crystals

160.70 165.80 WEAKLY TO MODERATELY TALCOSE AND WEAKLY TO MODERATELY MAGNETIC

FROM 165.80MT. TO 170.70MT.
med. dark green BASALT
Textures noted: , MASSIVE
20% BIOTITE as laminations, bedded

FROM 165.80MT. TO 170.70MT.
30% of this subinterval is
medium green DACITIC TUFF
Textures noted: , BEDDED
Structures noted: BEDDING ,
5% BIOTITE as disseminations and scattered crystals

165.80 170.70 INTERBEDDED DACITIC TO LOCALLY RHYOLITIC TUFFS AND BASALTIC FLOWS AND SOME MAFIC TUFF MATERIAL. BIOTITE BANDING IS PREVALENT

166.40 170.70 DRILLING THROUGHOUT SMALL FOLD. CORE ANGLES FROM 90 TO

CORE NORMAL TO 0 TO CORE NORMAL

FROM 169.00MT. TO 169.20MT.
100% of this subinterval is
PYROXENITE
Textures noted: , MASSIVE

FROM 170.70MT. TO 198.90MT.
med. dark green BASALT
Textures noted: , MASSIVE
1% QUARTZ as microveins
2.5% BIOTITE as microveins
2.5% CARBONATE as microveins
.01% PYRITE as disseminations and scattered crystals
1% FELDSPAR as microveins
182.00 182.10 PROBABLE FAULT ZONE

FROM 182.00MT. TO 185.00MT.
100% of this subinterval is
medium grey PYROXENITE; TALCOSE
Textures noted: , MASSIVE
.07% MAGNETITE as pervasive mineralization
182.00 185.00 HIGHLY TALCOSE AND STRONGLY MAGNETIC META-GABBRO
193.20 193.70 CARBONATE, K-FELDSPAR, QUARTZ, CHLORITE, PYRITE FRACTURE
FILLING SUB-PARALLEL TO CORE AXIS

FROM 189.20MT. TO 191.70MT.
100% of this subinterval is
PYROXENITE
Textures noted: , MASSIVE

FROM 194.20MT. TO 196.70MT.
100% of this subinterval is
light green RHYOLITE
Textures noted: , MASSIVE
.01% PYRITE as disseminations and scattered crystals
.3% EPIDOTE as microveins

FROM 198.90MT. TO 199.90MT.
med. dark green VARIOLITIC BASALT;
Textures noted: MASSIVE
END 199.90 199.90 END OF HOLE

IN-HOLE SURVEY AT 192.33 MT.
GRID AZIMUTH OF HOLE 187.00 VERTICAL ANGLE -49.00
TRUE AZIMUTH OF HOLE 222

A001
AUMM GTM AUGTM AGPPM CU CU % PPM ZN ZN %
ALAB CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP H-COR H-COR H-COR H-COR H-COR H-COR
AMTH FA FA AA
A001 7476 7507 2470 .17 000
A001 7507 7610 2471 .17 .69
A001 7610 7711 2472 .17 1.62

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A001 14569 14670      2473   .17   000
A001 14825 14926      2474   .17   000
A001 15136 15236      2475   .17   .17
A001 15557 15657      2601   .17   000
A001 15825 15926      2602   .17   .17
A001 15926 16026      2603   .17   .34
A001 19321 19370      2604   .17   .17
A001 19675 19718      2605   .17   .34
RASY                       NOTE: TRACE VALUE = 0.17 G/METRIC TONNE
RASY                       NOTE: NIL VALUE = 000 G/METRIC TONNE
/END
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HOLE 82CH20
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2334 , QUEBEC.
CLAIM NO. 404968-1
GRID NORTH -175.00 GRID EAST 1400.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -85.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 318.80mt.
Logged by: M.Drouin on (day/mo/yr)... JUL82
Drilled by: Bradley Bros. Ltd (mo/yr).. JUL82

FROM 0.00MT. TO 4.88MT.
OVERBURDEN

FROM 4.88MT. TO 98.82MT.
medium green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , FOLIATED
Structures noted: CONTACT dip 55,
1% QUARTZ as microveins
1% BIOTITE as microveins
10% CARBONATE as microveins
1% CHALCOPYRITE as disseminations and scattered crystals
.03% FELDSPAR as microveins
.03% EPIDOTE as microveins
.1% PYRRHOTITE as disseminations and scattered crystals

18.90	58.20	ZONES OF MEGA-AMYGDULES THROUGHOUT
37.18	60.35	BEGINNING OF BLEBS AND DISSEMINATIONS OF CPY OCCURRING AT IRREGULAR INTERVALS. LOCALLY INTERVALS UP TO .3M IN CORE LENGTH CONTAIN UP TO 3% CPY
46.18	48.16	BASALT HAS A FRAGMENTAL APPEARANCE. HOWEVER ALL "PSEUDO-FRAGMENTS" HAVE BEEN REPLACED BY OR ARE COMPOSED OF BRIGHT WHITE SILICA -SIMILAR TO HOLE 82-18(25.3M-26.21M)
55.63	58.22	ABUNDANT "MEGA" AMYGDULES AVERAGING IN SIZE FROM 5 TO 10MM OCCURING IN CLUMPS
59.89	62.94	VERY FRESH UNCARBONATED -UNFRACTURED BASALTS
76.20	97.23	BASALT IS WELL FOLIATED; FREQUENT 1-4CM THICK MAFIC BANDS WITH RECRYSTALLIZED AMPHIBOLE BLADES -PERVASIVE CARBONATIZATION AND POSSIBLE SILICIFICATION.
76.00	98.80	PROBABLY PILLOWED & BIOTIZED RIMS (IE. RIM COMPOSED OF ONLY BIOTITE)

FROM 98.82MT. TO 103.57MT.
medium green PORPHYRITC BASALT with FELDSPARS, GEN. ,
Textures noted: PORPHYRITIC
Structures noted: CONTACT dip 40,
.3% QUARTZ as microveins
1% BIOTITE as microveins
1% CARBONATE as microveins

FROM 103.57MT. TO 114.60MT.
med. dark green PILLOWED BASALT
Textures noted: PILLOWED
5% BIOTITE as microveins
2.5% CARBONATE as microveins
.3% PYRITE as disseminations and scattered crystals

.3% CHALCOPYRITE as disseminations and scattered crystals
.1% FELDSPAR as microveins
.1% EPIDOTE as microveins
103.57 114.60 PILLOWED BASALT,BIOTIZED RIMS

FROM 114.60MT. TO 122.77MT.
pale grey RHYOLITIC TUFF; CHERTY,SERICITIC
Textures noted: , BEDDED
Structures noted: BEDDING dip 30,
2.5% QUARTZ as microveins

FROM 122.77MT. TO 129.84MT.
med. dark green BASALT with AMPHIBOLES ,
Textures noted: MASSIVE
5% CARBONATE as microveins
122.77 123.75 ABUNDANT EPIDOTE FILLED FRACTURES

FROM 128.02MT. TO 129.84MT.
100% of this subinterval is
med. light grey RHYOLITIC TUFF
Textures noted: BEDDED , BANDED
Structures noted: BEDDING ,
1% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
10% CHLORITE as disseminations and scattered crystals
.01% EPIDOTE as disseminations and scattered crystals
.03% PYRRHOTITE as disseminations and scattered crystals

FROM 129.84MT. TO 142.07MT.
med. dark green BASALT with AMPHIBOLES ,
Textures noted: MASSIVE
2.5% CARBONATE as microveins
133.80 135.50 WELL BEDDED CRYSTAL TUFFS WITH 1% DISSEMINATED PY
129.84 142.07 UNIT CHARACTERIZED BY UP TO 10% AMPHIBOLE PHENOCRYSTS (1 TO 3MM IN SIZE)
141.40 141.49 FELDSPAR PORPHYRITIC BASALT -10% 4-5MM FELDSPAR PHENOCRYSTS

FROM 142.07MT. TO 158.65MT.
DIORITE
Textures noted: MASSIVE , FOLIATED
1% BIOTITE as microveins
.3% PYRITE as microveins
.3% EPIDOTE as microveins

FROM 158.65MT. TO 187.30MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , FLOW BRECCIA
10% CARBONATE as microveins

FROM 160.00MT. TO 160.30MT.
100% of this subinterval is
PYROXENITE
Textures noted: MASSIVE
183.70 187.30 VERY FRESH LOOKING MASSIVE TO FLOW BRECCIATED AMYGDULAR FLOWS; CPY -PO STRINGER AT 183.7

FROM 187.30MT. TO 199.10MT.
medium green BASALT; TUFFACEOUS
Textures noted: , BANDED
Structures noted: BANDING dip 30,
5% QUARTZ as microveins
5% CARBONATE as microveins
.3% PYRRHOTITE as blebs

186.93 186.99 BEIGE COLORED PORCELANITE TUFF BAND; 10% DISS. PO,RY,TRCPY

FROM 191.72MT. TO 193.24MT.
100% of this subinterval is
med. dark grey META TUFF
Textures noted: BEDDED , BANDED
Structures noted: BEDDING dip 30,
2.5% BIOTITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

191.72 193.24 INTERMEDIATE TO RHYOLITIC APHANITIC TUFFS

FROM 196.90MT. TO 199.10MT.
100% of this subinterval is
med. dark grey META TUFF
Textures noted: , BANDED
Structures noted: CONTACT dip 30,
5% BIOTITE as disseminations and scattered crystals

196.90 199.10 DACITIC TUFFS WITH 10% INTERBANDED BASALTIC TUFFS

FROM 199.10MT. TO 208.33MT.
med. dark green BASALT
Textures noted: , MASSIVE
.3% CARBONATE as microveins

FROM 208.33MT. TO 208.57MT.
med. light grey CHERTY TUFF
Textures noted: , BANDED
1% PYRRHOTITE as disseminations and scattered crystals

FROM 208.57MT. TO 213.21MT.
med. dark green MAFIC TUFF
Textures noted: , BANDED
1% CARBONATE as microveins
2.5% FELDSPAR as microveins
5% EPIDOTE as microveins

208.57 213.21 ALTERED MAFIC TUFFS,FREQUENT EPIDOTE AND K-FELDSPAR PATCHES AND FRACTURE FILLING

FROM 211.65MT. TO 212.26MT.
100% of this subinterval is
pale green RHYOLITIC TUFF
Textures noted: , BANDED
Structures noted: CONTACT dip 30,

FROM 213.21MT. TO 217.32MT.
light grey DACITIC TUFF; CHERTY
5% QUARTZ as microveins

5% CARBONATE as microveins
2.5% PYRITE as disseminations and scattered crystals
1% PYRRHOTITE as blebs
213.21 217.32 UNIT CONTAINS UP TO 10% MAFIC(BASALTIC) BANDS

FROM 217.32MT. TO 220.19MT.
medium grey ALTERED TUFF
Textures noted: BRECCIATED , VUGGY
5% CARBONATE as breccia fillings
1% FELDSPAR as microveins
2.5% CHLORITE as microveins
5% EPIDOTE as microveins
217.32 220.19 AL=ALTERED
217.32 220.19 VERY ALTERED INTERMEDIATE TUFFS -CORE IS VERY CRUMBLY THIS ZONE IS CHARACTERIZED BY SECONDARY IN FILLING OF CALCITE,EPIDOTE,K-FELDSPAR AND CHLORITE. THIS ZONE PROBABLY REPRESENTS A FAULT ZONE, WHERE THE CORE HAS BEEN BADLY BRECCIATED, FOLLOWED BY SECONDARY INFILLING OF ABOVE MATERIAL.

FROM 220.19MT. TO 220.67MT.
medium grey MAFIC TUFF
Textures noted: , BANDED
1% FELDSPAR as microveins
1% CHLORITE as microveins
1% EPIDOTE as microveins
220.19 220.67 SIMILAR TO PREVIOUS BUT UNALTERED

FROM 220.67MT. TO 227.07MT.
med. dark green BASALT
Textures noted: MASSIVE
5% BIOTITE as disseminations and scattered crystals
2.5% FELDSPAR as microveins
2.5% EPIDOTE as microveins

FROM 227.07MT. TO 232.87MT.
med. dark grey PYROXENITE; TALCOSE
.07% MAGNETITE as pervasive mineralization
227.07 232.87 MAGNETIC;(MODERATELY MAGNETIC), WEAKLY TALCOSE, GREY GREEN METAGABBRO

FROM 232.87MT. TO 279.19MT.
med. dark green BASALT
Textures noted: MASSIVE , FOLIATED
1% CARBONATE as microveins
1% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as blebs
1% PYRRHOTITE as disseminations and scattered crystals

FROM 264.00MT. TO 273.00MT.
100% of this subinterval is
PYROXENITE
Textures noted: , MASSIVE

FROM 279.19MT. TO 301.70MT.

med. green VARIOLITIC BASALT
Textures noted: , MASSIVE , AMYGDALOIDAL
1% QUARTZ as microveins
2.5% CARBONATE as microveins
1% PYRRHOTITE as disseminations and scattered crystals

279.19 301.70 VARIOLITIC BASALT

FROM 301.70MT. TO 312.81MT.
med. dark green BASALT
Textures noted: , MASSIVE
2.5% CARBONATE as microveins
.01% FELDSPAR as microveins

FROM 312.81MT. TO 317.36MT.
pale grey RHYOLITIC TUFF
Textures noted: , BEDDED
1% QUARTZ as microveins
1% CARBONATE as microveins
.01% PYRITE as disseminations and scattered crystals
.1% FELDSPAR as microveins

312.81 317.36 CORE NORMALS VARY FROM 25 TO 30 TO BECOME 80 TO 90 AT 316.1 AND THEN BACK TO 30 AT 317.3

FROM 317.36MT. TO 318.80MT.
med. dark green BASALT
Textures noted: , MASSIVE
1% CARBONATE as microveins

END 318.80 END OF HOLE

IN-HOLE SURVEY AT 134.11 MT.
GRID AZIMUTH OF HOLE 178.00 VERTICAL ANGLE -80.00
TRUE AZIMUTH OF HOLE 213

IN-HOLE SURVEY AT 307.05 MT.
GRID AZIMUTH OF HOLE 178.00 VERTICAL ANGLE -76.00
TRUE AZIMUTH OF HOLE 213

A001
AUMM GTM AUGTM AGPPM CU CU % PPM ZN ZN %
ALAB CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP H-COR H-COR H-COR H-COR H-COR H-COR
AMTH FA FA AA

A001	3718	3767	3701	.17	0.52		.47	
A001	3841	3941	3702	.17	1.75		.30	
A001	5099	5199	3703	.17	1.47		.17	
A001	5718	5818	3704	.17	0.34		.40	
A001	5818	5919	3705	.17	0.88		.45	
A001	5919	6020	3706	.17	.17		.30	
A001	8368	8397	3707	.17	1.10		.30	
A001	8742	8772	3708	.17	1.03		.54	
A001	9472	9577	3709	.17	1.42		.038	
A001	9668	9769	3710	.17	2.33		.088	
A001	9769	9869	3711	.17	.17		.026	
A001	1280	12884	3712	.17	1.92	56		
A001	12884	12984	3713	.17	1.46	64		

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A001 17937 18038      3714   .17   000
A001 17287 17343      3715   .17   000
A001 19172 19273      3716   .17   000
A001 20833 20957      3717  1.85  8.07
A001 21458 21518      3718  1.24   .34
A001 21518 21619      3719   .69   .17
A001 21619 21720      3720   .17   .17
A001 23863 23979      3721   .17   000
A001 24588 24704      3722   .17   000
A001 25064 25164      3723   .17   000
A001 25402 25554      3724   .17   000
A001 28682 29782      3725   .17   .17
RASY                    TRACE VALUE = 0.17 G/METRIC TON.
RASY                    NIL VALUE = 000
/END
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HOLE 82CH21
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2334 , QUEBEC.
CLAIM NO. 404968-1
GRID NORTH -75.00 GRID EAST 1500.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -65.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 281.63mt.
Logged by: M.Drouin on (day/mo/yr)... JUL82
Drilled by: Bradley Bros. Ltd (mo/yr).. JUL82

FROM 0.00MT. TO 5.48MT.
OVERBURDEN

FROM 5.48MT. TO 17.83MT.
med. dark green BASALT
Textures noted: MASSIVE

FROM 17.83MT. TO 38.00MT.
very dark green DIORITE with FELDSPARS, GEN. ,
Textures noted: MASSIVE
Structures noted: CONTACT dip 00,
.3% PYRITE as disseminations and scattered crystals
2.5% PYRRHOTITE as disseminations and scattered crystals
17.83 38.00 DIORITE SIMILAR TO OUTCROP ON ISLAND CHARLIE LAKE
WEAK OPHITIC TEXTURE-DISS PO/PY(2-4%) THROUGHOUT
23.77 27.74 SEVERAL WEAKLY PORPHYRITIC (FELDSPARS) WHITISH COLORED
FINE GRAINED ACID DYKES

FROM 38.00MT. TO 40.23MT.
pale green RHYOLITIC TUFF with FELDSPARS, QUARTZ
Textures noted: FOLIATED ,
1% BIOTITE as laminations, bedded
38.00 40.23 RHYOLITIC TUFF------>: 7-15% FELDSPAR PHENOCRYSTS,
1-3% QUARTZ PHENOCRYSTS ALL IN A PALE GREY GREEN APHA-
NITIC MATRIX OF RHYOLITIC COMPOSITION. THIS ROCK UNIT
HAS A DEFINITE TUFFACEOUS ASPECT

FROM 40.23MT. TO 50.17MT.
med. dark green BASALT
Textures noted: MASSIVE
1% CARBONATE as microveins
.3% FELDSPAR as microveins

FROM 42.91MT. TO 46.36MT.
100% of this subinterval is
medium brown RHYOLITIC TUFF; BIOTITIC
Textures noted: BANDED , BEDDED
Structures noted: BEDDING dip 30,
20% BIOTITE as pervasive mineralization
42.91 46.36 HEAVILY BIOTITIC RHYOLITE TUFFS FROM 147; PROBABLE CRYS-
TAL TUFFS 5-10% 1MM SIZED QUARTZ AND FELDSPAR "GRAINS".
OCCASIONAL PALE GREEN SERICITE BAND.

FROM 50.17MT. TO 51.05MT.

ALTERED BASALT; GRANODIORITIZED
Textures noted: , BANDED

50.17 51.05 ALTERED BASALTS-BASALTS APPEAR TO HAVE BEEN "GRANODIORITISED. BASALT SEEMS TO HAVE GRANODIORITE MATERIAL "SHOT" INTO IT.

FROM 51.05MT. TO 51.35MT.
medium brown CRYSTAL TUFF with FELDSPARS, GEN. , and BIOTITIC
Textures noted: , BANDED
10% BIOTITE as pervasive mineralization

FROM 51.35MT. TO 51.85MT.
med. dark green FRAGMENTAL BASALT
Textures noted: , FLOW BRECCIA

51.35 51.85 BASALT HAS A FRAGMENTAL APPEARANCE -HOWEVER "FRAGMENTS" HAVE BEEN REPLACED OR ARE COMPOSED UNIQUELY OF SILICA

FROM 51.85MT. TO 52.73MT.
med. dark green BASALT
Textures noted: MASSIVE , FOLIATED

51.85 52.73 FRESH UNALTERED BASALTS

FROM 52.73MT. TO 54.86MT.
med. dark green GRANODIORITE
Textures noted: BANDED , FOLIATED

FROM 54.86MT. TO 60.72MT.
medium brown CRYSTAL TUFF with FELDSPARS, GEN. , and BIOTITIC
Textures noted: , BANDED
20% BIOTITE as pervasive mineralization

54.86 60.72 CRUDELY BANDED BIOTITIC CRYSTAL TUFFS OR LAPILLI STONES -UNIT IS TYPIFIED BY A VERY HIGH (40-50%) CONTENT OF FELDSPAR GRAINS WITH THE OCCASIONAL QUARTZ EYE.

56.81 57.30 VERY FRESH UNALTERED BASALTS

57.52 58.16 WEAKLY PORPHYRITIC, UNALTERED, VERY FRESH LOOKING BASALTS. CONTAINS 5 TO 10% 1MM SIZED FELDSPAR PHENOCRYSTS

58.16 58.55 FRAGMENTAL BASALT-AS PREVIOUS

FROM 60.72MT. TO 74.10MT.
light grey RHYOLITIC TUFF with FELDSPARS; CHERTY,and BIOTITIC
Textures noted: BEDDED , BANDED
Structures noted: BANDING dip 20,
5% QUARTZ as macroveins
10% BIOTITE as pervasive mineralization
2.5% EPIDOTE as disseminations and scattered crystals

60.72 65.53 UNIT CONTAINS BETWEEN 10 AND 20% FELDSPAR CRYSTALS AND UP TO 1% QUARTZ EYES. FRAGMENT CONTENT DECREASES STEADILY TOWARDS 0% AT 65.5M

69.49 74.10 BETWEEN 5 AND 10% FELDSPAR CRYSTALS

FROM 74.10MT. TO 80.65MT.
med. dark green BASALT
Textures noted: MASSIVE
5% CARBONATE as laminations, bedded

74.10 75.16 FRESH UNALTERED BASALTS

FROM 78.33MT. TO 80.65MT.
100% of this subinterval is
ALTERED BASALT
Textures noted: , AMYGDALOIDAL

78.33 80.65 BASALT CONTAINS NUMEROUS DIORITIC DYKES UP TO 0.8 ft. THICK SEQUENCE CONTAINS BETWEEN 60-70% DIORITIC MATERIAL -THE REST BEING AMYGDULAR BASALTS.

FROM 80.65MT. TO 95.83MT.
light grey CRYSTAL TUFF
Textures noted: , BANDED
10% BIOTITE as pervasive mineralization

80.65 95.83 RHYOLITIC CRYSTAL TUFFS: UNIT CONTAINS UP TO 20% FELDSPAR CRYSTALS AND 1-3% QUARTZ EYES IN RHYOLITIC MATRIX.

86.25 90.22 TUFFS HAVE BEEN CONTAMINATED BY GRDR MATERIAL.

FROM 95.83MT. TO 137.86MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
5% CARBONATE as microveins

95.83 125.60 UNIT CONTAINS MEGAAMYGDULES AND IS POSSIBLY PILLOWED

FROM 110.80MT. TO 112.32MT.
100% of this subinterval is
medium green DACITE
Textures noted: MASSIVE
.3% PYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

131.50 133.80 COMPLETELY ALTERED BASALTS

131.50 132.07 ROCK IS COMPOSED OF 70-80% EPIDOTE WITH CARBONATE/K-FELDSPAR BANDS WITH 1-2% DISSEMINATED PO,PY AND TRACES OF CPY

132.07 132.83 SECTIONS CONSISTS OF CARBONATE/K-FELDSPAR AND QUARTZ WITH TRACE SULPHIDES

132.83 133.81 SIMILAR TO 131.5-132.07

FROM 133.81MT. TO 136.70MT.
100% of this subinterval is the same as 95.83MT. to 137.86MT. except as noted
BASALT
5% FELDSPAR as microveins
5% EPIDOTE as microveins

136.73 137.86 GRANODIORITE DYKE

FROM 137.86MT. TO 183.79MT.
med. dark green BASALT with AMPHIBOLES ,
Textures noted: MASSIVE
2.5% CARBONATE as microveins
2.5% PYRITE as microveins

142.34 143.25 GRANODIORITE DYKE

144.56 145.60 GRANODIORITE DYKE

151.82 152.03 WEAKLY PORPHYRITIC BASALT-3% FELDSPAR PHENOCRYSTS

156.00 184.00 FRESH MASSIVE BASALT

FROM 157.03MT. TO 157.18MT.
100% of this subinterval is

med. dark green PORPHYRITC BASALT with FELDSPARS, GEN. ,
Textures noted: PORPHYRITIC

FROM 183.79MT. TO 192.00MT.
med. dark green BASALT
Textures noted: MASSIVE , FLOW BRECCIA , AMYGDALOIDAL
178.03 178.85 WHITE QUARTZ VEIN

FROM 181.14MT. TO 182.82MT.
100% of this subinterval is
med. light grey DACITE
Textures noted: MASSIVE
1% QUARTZ as microveins
5% BIOTITE as laminations, bedded
2.5% CARBONATE as microveins
1% PYRRHOTITE as disseminations and scattered crystals

FROM 192.00MT. TO 210.00MT.
med. dark green PORPHYRITC BASALT with FELDSPARS, GEN. , AMPHIBOLES ,
Textures noted: MASSIVE , PORPHYRITIC
1% BIOTITE as disseminations and scattered crystals
2.5% CARBONATE as microveins
192.00 210.00 PORPHYRITIC BASALT CHARACTERIZED BY 5 TO 10% SCATTERED
2 TO 5MM SIZE WHITE FELDSPAR LATHS AS WELL AS 5 TO 10%
1 TO 2MM SIZE ROUNDED DARK GREEN AMPHIBOLES

FROM 210.00MT. TO 213.36MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL

FROM 213.36MT. TO 213.97MT.
med. dark green MAFIC TUFF
Textures noted: BEDDED , BANDED
Structures noted: BEDDING dip 10,
5% BIOTITE as laminations, bedded
1% CARBONATE as microveins
.3% CHALCOPYRITE as disseminations and scattered crystals
5% PYRRHOTITE as microveins
213.45 213.66 MINERALISED WITH 7 TO 10% PO AS DISSEMINATIONS AND
STRINGERS. MAXIMUM 1% CPY; METACHERT BAND FROM 213.48 TO
213.51
MAFIC TO INTERMEDIATE TUFF

FROM 213.97MT. TO 221.07MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
1% BIOTITE as microveins
2.5% CARBONATE as microveins

FROM 221.07MT. TO 221.28MT.
med. light grey CHERTY TUFF
Textures noted: , BEDDED
Structures noted: BEDDING ,
5% PYRITE as disseminations and scattered crystals
1% CHALCOPYRITE as disseminations and scattered crystals

2.5% PYRRHOTITE as disseminations and scattered crystals

FROM 221.28MT. TO 229.21MT.
BASALT
Textures noted: MASSIVE
1% CARBONATE as microveins
221.28 229.21 MEDIUM TO COARSE GRAINED BASALT (GABBRO)
228.60 229.20 FINE GRAINED BASALT

FROM 229.21MT. TO 229.88MT.
med. dark grey RHYOLITIC TUFF
Textures noted: , BEDDED
Structures noted: BEDDING ,
20% BIOTITE as pervasive mineralization
.3% PYRITE as disseminations and scattered crystals
.03% CHALCOPYRITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals

FROM 229.88MT. TO 232.65MT.
med. dark green PYROXENITE
Textures noted: MASSIVE

FROM 232.65MT. TO 233.69MT.
med. dark grey RHYOLITIC TUFF
Textures noted: BEDDED
Structures noted: BEDDING ,
20% BIOTITE as pervasive mineralization

FROM 233.69MT. TO 234.82MT.
med. dark green PYROXENITE
Textures noted: MASSIVE
5% BIOTITE as microveins

FROM 234.82MT. TO 235.82MT.
med. dark grey RHYOLITIC TUFF
Textures noted: BEDDED
Structures noted: BEDDING ,
20% BIOTITE as pervasive mineralization
235.67 235.67 ONE PALE COLORED GARNET.

FROM 235.82MT. TO 238.35MT.
med. dark grey PYROXENITE; TALCOSE
Textures noted: , MASSIVE
5% CARBONATE as microveins
.07% MAGNETITE as disseminations and scattered crystals
235.82 238.35 MODERATELY TO HIGHLY MAGNETIC/WEAKLY TO MODERATELY TALCOSE

FROM 238.35MT. TO 242.35MT.
med. dark green PYROXENITE
Textures noted: , MASSIVE
.07% BIOTITE as microveins

FROM 242.35MT. TO 244.48MT.
med. dark grey RHYOLITIC TUFF

Textures noted: , BEDDED
Structures noted: BEDDING dip 20,
.07% BIOTITE as disseminations and scattered crystals
2.5% PYRITE as disseminations and scattered crystals
2.5% PYRRHOTITE as disseminations and scattered crystals

FROM 242.47MT. TO 242.98MT.
100% of this subinterval is the same as 242.35MT. to 244.48MT. except as noted
RHYOLITIC TUFF
20% GARNET as disseminations and scattered crystals
242.47 242.98 10 +0 20%, 2 TO 5MM SIZED GARNETS

FROM 244.48MT. TO 246.27MT.
med. dark green PYROXENITE
Textures noted: , MASSIVE
5% BIOTITE as disseminations and scattered crystals

FROM 246.27MT. TO 251.76MT.
light grey RHYOLITIC TUFF
Textures noted: , BEDDED
2.5% QUARTZ as amygdaloids, minor microveins, &/or scattered xtals
10% BIOTITE as pervasive mineralization

FROM 251.76MT. TO 277.97MT.
med. dark green BASALT
Textures noted: , MASSIVE , AMYGDALOIDAL
5% BIOTITE as microveins
.3% CARBONATE as microveins
252.07 257.25 BASALT IS HIGHLY FRACTURED, ABUNDANT CARBONATE FILLED FRACTURES.

FROM 272.40MT. TO 274.00MT.
100% of this subinterval is
PYROXENITE
Textures noted: , MASSIVE
.07% MAGNETITE as disseminations and scattered crystals

FROM 277.97MT. TO 281.63MT.
light green VARIOLITIC BASALT
Textures noted: , MASSIVE
277.98 281.63 VARIOLITIC BASALTS
END 281.63 281.63 END OF HOLE

IN-HOLE SURVEY AT 198.00 MT.
GRID AZIMUTH OF HOLE 187.00 VERTICAL ANGLE -59.00
TRUE AZIMUTH OF HOLE 222

A001
AUMM GTM AUGTM CU % CU PPM ZN % ZN
ALAB CHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP H-COR H-COR H-COR H-COR H-COR
AMTH FA FA AA
A001 1969 2069 3726 .17 .17
A001 2261 2362 3727 .17 000
A001 2856 2956 3728 .17 000

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A001 13149 13207      3729   .17  1.99
A001 13207 13283      3730   .17  0.43
A001 13283 13381      3731   .17  1.06
A001 21345 21366      3732   .17  0.96        .063
A001 21366 21397      3733   .17   .17
A001 22107 22128      3734   .17  1.46
A001 22921 22988      3735   .17   000   152
A001 24299 24399      3736   .17  0.41
A001 24399 24448      3737   .17  0.65
RASY                       NOTE: TRACE VALUE = 0.17 G/METRIC TONNE
RASY                       NOTE: NIL VALUE = 000 G/METRIC TONNE
/END
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HOLE 82CH 22
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2334, QUEBEC.
CLAIM NO. 404968-1
GRID NORTH -60.00 GRID EAST 1600.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -65.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 268.83mt.
Logged by: M.Drouin on (day/mo/yr)... JUL82
Drilled by: Bradley Bros. Ltd (mo/yr).. JUL82

FROM 0.00MT. TO 4.87MT.
OVERBURDEN

FROM 4.87MT. TO 102.23MT.
med. dark green PILLOWED BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , PILLOWED
1% QUARTZ as microveins
5% CARBONATE as microveins

FROM 23.47MT. TO 41.75MT.

100% of this subinterval is the same as 4.87MT. to 102.23MT. except as noted
BASALT

41.40	46.30	PILLOWED BASALT
47.80	61.50	PILLOWED BASALT
37.00	37.36	FINE GRAINED WHITE GRANITIC DYKE
77.11	77.94	ABUNDANT MICRO-FRACTURES FILLED WITH EPIDOTE
76.81	102.23	CORE IS SPECKLED-WHITE-DUE TO THE DEVELOPMENT OF A WHITE CLAYLIKE MINERAL(ALTERATION OF FELDSPARS)

FROM 87.99MT. TO 89.55MT.
100% of this subinterval is
medium grey GRANODIORITE with BIOTITE ,
Textures noted: MASSIVE

91.83	92.60	GRANODIORITE AS PREVIOUS
94.06	96.62	GRANODIORITE WITH 15% BASALT

FROM 102.23MT. TO 114.60MT.
medium grey GRANODIORITE with BIOTITE ,
Textures noted: MASSIVE
.01% FELDSPAR as microveins
2.5% EPIDOTE as microveins

111.56	114.60	50% BASALT OVER THIS 3.04 m SECTION

FROM 114.60MT. TO 136.25MT.
BASALT with AMPHIBOLES ,
Textures noted: MASSIVE
5% QUARTZ as microveins
2.5% CARBONATE as microveins

114.60	136.25	CORE HAS A WEAK SPECKLED APPEARANCE DUE TO DEVELOPMENT OF A CLAYLIKE MINERAL(ALTERATION FELDSPAR).BASALT IS FAIRLY COARSE GRAINED BIOTITE BANDS UP TO 2 CM THICK OCCUR AT CONTACTS OF GRANODIORITE DYKES AND BASALT(CONTACT METAMOR

PHISM

FROM 136.25MT. TO 141.00MT.
medium grey GRANODIORITE with BIOTITE ,
Textures noted: MASSIVE
1% QUARTZ as microveins
136.25 141.00 CONTAINS ABOUT 20% BASALTIC XENOLITHS

FROM 141.00MT. TO 147.04MT.
med. dark green PILLOWED BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , PILLOWED
2.5% QUARTZ as microveins
1% CARBONATE as microveins

FROM 147.04MT. TO 152.86MT.
medium grey GRANODIORITE with BIOTITE ,
Textures noted: MASSIVE

FROM 152.86MT. TO 177.69MT.
med. dark green BASALT
Textures noted: MASSIVE
1% QUARTZ as microveins
2.5% CARBONATE as microveins
152.86 177.69 COARSE GRAINED MASSIVE BASALT

FROM 177.69MT. TO 232.26MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
5% QUARTZ as microveins
5% CARBONATE as microveins
.3% FELDSPAR as microveins
2.5% EPIDOTE as microveins
COARSE TO MEDIUM GRAINED BASALT
189.59 191.11 CARBONATE/QUARTZ/K-FELDSPAR/VEINLETS PARALLEL TO CORE AXIS;TRACE PY
192.79 194.31 EPIDOTE/CARBONATE/PYRITE/K-FELDSPAR VEINLET;5MM THICK PARALLEL TO CORE AXIS
225.52 225.77 QUARTZ/CARBONATE/EPIDOTE/CPY GALENA VEIN

FROM 232.26MT. TO 234.85MT.
medium green MAFIC TUFF
Textures noted: BANDED
Structures noted: BANDING dip 10,
10% QUARTZ as microveins
1% BIOTITE as microveins
2.5% CARBONATE as microveins
.3% PYRITE as microveins
.3% PYRRHOTITE as microveins

FROM 234.85MT. TO 252.65MT.
medium green BASALT; TUFFACEOUS
Textures noted: BANDED
Structures noted: BANDING dip 10,
5% QUARTZ as microveins
2.5% BIOTITE as microveins

5% CARBONATE as microveins

FROM 239.88MT. TO 240.85MT.
100% of this subinterval is
med. dark green META TUFF
Textures noted: BEDDED
Structures noted: BEDDING ,
5% PYRITE as disseminations and scattered crystals
5% PYRRHOTITE as microveins

239.88 240.85 GREY GREEN,FINE GRAINED,DACITIC TUFFS WITH DISSIMINATED PO+PY AND WHISPS OF PO

245.18 245.33 MAFIC GARNETIFEROUS BAND. 5% INCH SIZED GARNETS.

FROM 246.52MT. TO 247.38MT.
100% of this subinterval is
medium green RHYOLITIC TUFF, SILICIOUS
Textures noted: , BEDDED
Structures noted: BEDDING dip 10,
10% BIOTITE as pervasive mineralization
.03% GARNET as fresh primary rock
.1% PYRITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals

250.94 251.28 DRAG FOLD HEAVY BIOTITE IN THIS AREA

251.76 252.07 GARNETIFEROUS TUFFACEOUS BASALTS 3-7% TOTAL GARNET CONTENT; GARNETS UP TO 5MM IN DIAMETER UNIT CONTAINS ONE ZNS BAND 1MM THICK AND ONE PO BAND 3 TO 4 MM THICK

FROM 252.65MT. TO 259.40MT.
medium grey PYROXENITE; TALCOSE
Textures noted: , MASSIVE
5% CARBONATE as microveins

252.63 259.40 WEAKLY TALCOSE-MODERATELY MAGNETIC PYROXENITE

FROM 259.40MT. TO 268.83MT.
med. dark green BASALT
Textures noted: , MASSIVE
1% QUARTZ as microveins
2.5% BIOTITE as disseminations and scattered crystals
.3% CARBONATE as microveins

259.99 260.30 BASALT GRADES INTO A FINE GRAINED GREY BROWN MASSIVE DACITE WITH 10% VERY FINE PO IN MATRIX

262.67 262.77 FINE GRAINED BIOTITIC RHYOLITIC TUFFS

263.04 264.87 ALTERED ZONE-ABUNDANT K-FELDSPARTQUARTZ VEINING;CORE BADLY BROKEN UP BASALT APPEARS TO HAVE BEEN-GRANITIZED.

264.87 267.61 SEVERAL EPIDOTE FILLED FRACTURES

END 268.83 END OF HOLE

IN-HOLE SURVEY AT 204.80 MT.
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -57.00
TRUE AZIMUTH OF HOLE 215

IN-HOLE SURVEY AT 252.07 MT.
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -56.00
TRUE AZIMUTH OF HOLE 215

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A001
AUNM                    GTM AUGTM AGPPM CU CU % PPM ZN ZN %
ALAB                    CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP                    H-COR H-COR H-COR
AMTH                    FA    FA    AA
A001 19279 19376      2626   .17   .17
A001 22552 22577      2627   .55  8.78
A001 23283 23384      2628   .17   .17
A001 23384 23484      2629   .17   000
A001 23988 24085      2630   .17   000
A001 24509 24609      2631   .17   000
A001 24652 24738      2632   .17   000
A001 24738 24838      2633   .17   000
A001 25174 25207      2634   .17   000              1880
A001 25999 26030      2635   .17  1.54
RASY                      NOTE: TRACE VALUE = 0.17 G/METRIC TONNE
RASY                      NOTE: NIL VALUE = 000 G/METRIC TONNE
/END
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HOLE 82CH23
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2334 ,QUEBEC.
CLAIM NO. 404968-1
GRID NORTH -175.00 GRID EAST 1400.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -62.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 257.86mt.
Logged by: M.Drouin on (day/mo/yr)... AUG82
Drilled by: Bradley Bros. Ltd (mo/yr).. AUG82

FROM 0.00MT. TO 6.70MT.
OVERBURDEN

FROM 6.70MT. TO 7.53MT.
med. dark green DACITE
Textures noted: MASSIVE
1% QUARTZ as macroveins
1% CARBONATE as macroveins

FROM 7.53MT. TO 87.53MT.
med. dark green PILLOWED BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , PILLOWED
2.5% BIOTITE as laminations, bedded
5% CARBONATE as macroveins
.3% CHALCOPYRITE as disseminations and scattered crystals
.1% EPIDOTE as microveins
.1% PYRRHOTITE as disseminations and scattered crystals

13.40	62.50	BEGINNING OF MEGA-AMYGDULES
28.90	62.48	BEGINNING OF CPY-DISSEMINATIONS
34.28	36.27	BASALT HAS A FRAGMENTAL APPEARANCE-"PSEUDO-FRAGMENTS" ARE WHITE,ANGULAR AND COMPOSED UNIQUELY OF SILICA OR QUARTZ
36.05	36.27	POSSIBLE GRANODIORITE DYKE
44.81	46.67	BIOTITE BANDS 1-3CM IN THICKNESS START TO APPEAR.
46.67	51.82	SEVERAL SECTIONS OF THE CORE HAVE AN OVERALL WHITISH COLOR-POSSIBLY DUE TO "DIORITIZATION" OF BASALT-BASALT IS EATEN AWAY OR INJECTED BY DIORITIC MATERIAL.
52.94	53.25	DIORITE DYKE
54.83	56.78	MAFIC DYKE-OLIVE GREEN COLORED-VERY UNIFORM,FINE GRAINED, MODERATELY MAGNETIC

FROM 63.06MT. TO 63.49MT.
100% of this subinterval is
medium grey DACITIC TUFF
Textures noted: BANDED
5% GARNET as microveins
2.5% PYRITE as disseminations and scattered crystals
5% CHLORITE as microveins
2.5% PYRRHOTITE as disseminations and scattered crystals

70.41	87.54	BASALTS LOCALLY BECOMES TUFFACEOUS IN APPEARANCE

FROM 87.53MT. TO 88.97MT.
medium green PORPHYRITC BASALT with FELDSPARS, GEN. ,

Textures noted: MASSIVE , PORPHYRITIC

FROM 88.97MT. TO 91.40MT.
med. dark green BASALT
Textures noted: MASSIVE
88.97 91.40 VERY FRESH LOOKING ROCK

FROM 91.40MT. TO 103.21MT.
PYROXENITE
Textures noted: MASSIVE

FROM 103.21MT. TO 106.59MT.
med. light grey RHYOLITIC TUFF
Textures noted: BEDDED
5% BIOTITE as disseminations and scattered crystals
.01% PYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals

FROM 106.59MT. TO 120.70MT.
med. dark green BASALT
Textures noted: MASSIVE
2.5% CARBONATE as microveins
1% PYRITE as disseminations and scattered crystals
2.5% PYRRHOTITE as disseminations and scattered crystals
106.59 120.70 VERY FRESH BASALTS
113.29 114.15 RHYOLITE(?) WHITEISH COLORED-MASSIVE UNIT CHARACTERISED BY 5-10% CHLORITE DISSEMINATION AS WELL AS BIOTITE DISSEMINATION AS WELL AS 3-5% FELDSPAR PHENOCRYSTS OR CRYSTALS(<1MM IN SIZE)

FROM 120.70MT. TO 135.69MT.
medium green DIORITE
Textures noted: MASSIVE

FROM 135.69MT. TO 204.80MT.
med. dark green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
Structures noted: CONTACT dip 00,
2.5% CARBONATE as microveins
135.69 204.80 VERY FRESH BASALT
159.72 164.77 GRAIN SIZE INCREASES,3-7% 1MM SIZE AMPHIBOLES, CARBONATE CONTENT INCREASES,BASALT IS MORE AMYGDULAR
164.77 164.89 PORCELLANITIC BAND-APHANITIC,3% DISSEMINATED PO.

FROM 176.72MT. TO 177.33MT.
100% of this subinterval is
medium grey DACITIC TUFF
Textures noted: BEDDED
1% PYRRHOTITE as disseminations and scattered crystals
176.72 177.33 DACITIC TUFFS WITH 15% INTERBEDDED MAFIC BASALTIC BANDS
180.11 181.08 TUFFACEOUS WITH MINOR DACITIC BANDS
183.15 183.95 BASALT GRADES INTO A MASSIVE DARK GREY DACITE

FROM 189.62MT. TO 189.86MT.
100% of this subinterval is

medium grey DACITIC TUFF
Textures noted: BEDDED
Structures noted: CONTACT dip 15,
.1% PYRITE as disseminations and scattered crystals
2.5% PYRRHOTITE as disseminations and scattered crystals

FROM 189.86MT. TO 190.19MT.
100% of this subinterval is
medium grey MAFIC TUFF
Textures noted: BEDDED

FROM 190.65MT. TO 190.95MT.
100% of this subinterval is
medium grey DACITIC TUFF
Textures noted: BEDDED

204.06 204.15 FAULT GOUGE
204.22 204.98 QUARTZ CARBONATE FILLED(HEALED) BRECCIA IN BASALT.

FROM 204.80MT. TO 211.78MT.
PYROXENITE
Textures noted: MASSIVE

FROM 205.44MT. TO 208.15MT.
100% of this subinterval is
med. dark green DACITIC TUFF
Textures noted: , BANDED
2.5% QUARTZ as microveins
5% CARBONATE as microveins
1% PYRITE as disseminations and scattered crystals
2.5% FELDSPAR as microveins

FROM 209.09MT. TO 209.49MT.
100% of this subinterval is
med. light grey DACITIC TUFF
Textures noted: , BANDED
2.5% PYRITE as disseminations and scattered crystals

FROM 211.78MT. TO 213.59MT.
med. light grey RHYOLITIC TUFF
Textures noted: MASSIVE , BANDED
Structures noted: CONTACT dip 40,
2.5% FELDSPAR as microveins

FROM 213.59MT. TO 229.50MT.
BASALT
Textures noted: MASSIVE

FROM 229.50MT. TO 231.95MT.
med. dark green PYROXENITE
Textures noted: MASSIVE
.07% MAGNETITE as disseminations and scattered crystals
229.50 233.48 META-PYROXENITE ;THIS IS THE COARSE GRAINED MODERATELY MAGNETIC NOT TALCOSE SECTION

FROM 231.95MT. TO 236.50MT.

PYROXENITE ; TALCOSE
Textures noted: MASSIVE
.07% MAGNETITE as pervasive mineralization

FROM 236.50MT. TO 243.84MT.
med. dark green BASALT
Textures noted: MASSIVE
2.5% BIOTITE as disseminations and scattered crystals

FROM 243.84MT. TO 257.86MT.
med. dark green VARIOLITIC BASALT
Textures noted: MASSIVE , FOLIATED
1% QUARTZ as microveins
1% CARBONATE as microveins
1% PYRRHOTITE as disseminations and scattered crystals

	243.84	257.86	VARIOLITIC BASALTS
END	257.86	257.86	END OF HOLE

IN-HOLE SURVEY AT 247.20 MT.
GRID AZIMUTH OF HOLE 195.00 VERTICAL ANGLE -53.00
TRUE AZIMUTH OF HOLE 230

A001
AUMM GTM AUGTM AGPPM CU CU % ZN PPMZN %
ALAB CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP H-COR H-COR H-COR
AMTH FA FA AA

A001	4395	4496	3762	.17	.17	3120
A001	5078	5179	3763	.17	.96	2760
A001	6156	6257	3764	.17	.17	2200
A001	8169	8269	3765	.17	000	320
A001	8619	8684	3766	.17	.48	210
A001	12753	12853	3767	.17	.17	
A001	20422	20458	3768	.17	.34	
A001	20677	20791	3769	.17	1.37	
A001	20909	20949	3770	.17	.48	

RASY NOTE: TRACE VALUE = 0.17 G/METRIC TONNE
RASY NOTE: NIL VALUE = 000 G/METRIC TONNE
/END

HOLE S2CH24
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2434 ,QUEBEC.
CLAIM NO. 399289-4
GRID NORTH -115.00 GRID EAST 450.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -55.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 87.48mt.
Logged by: M.Drouin on (day/mo/yr)... AUG82
Drilled by: Bradley Bros. Ltd (mo/yr).. AUG82

FROM 0.00MT. TO 4.27MT.
OVERBURDEN

FROM 4.27MT. TO 37.16MT.
med. dark green BASALT
Textures noted: MASSIVE
5% QUARTZ as microveins
2.5% CARBONATE as microveins
1% FELDSPAR as microveins
.3% EPIDOTE as microveins

FROM 6.09MT. TO 7.16MT.
100% of this subinterval is
light grey RHYOLITE; TUFFACEOUS
1% QUARTZ as amygdaloids, minor microveins, &/or scattered xtals
2.5% BIOTITE as disseminations and scattered crystals
2.5% MARIPOSITE as disseminations and scattered crystals

FROM 8.23MT. TO 10.67MT.
100% of this subinterval is the same as 4.27MT. to 37.16MT. except as noted
BASALT; TUFFACEOUS
8.23 8.53 BASALT CONTAINS 10 TO 15% DISSEMINATED PY 18.44M-8.47M S
QUARTZ INJECTION
10.30 10.57 80% QUARTZ,5-10% PY WITH MINOR CPY AND 10-15% CHLORITIC
MATERIAL. 10.3M- 2 CM THICK MASSIVE PYRITE BAND

FROM 12.58MT. TO 13.47MT.
100% of this subinterval is
light grey RHYOLITE; TUFFACEOUS
1% CARBONATE as microveins
.3% FELDSPAR as microveins
.3% EPIDOTE as microveins

FROM 14.17MT. TO 17.37MT.
100% of this subinterval is
medium grey RHYODACITE
Textures noted: MASSIVE , BANDED
Structures noted: CONTACT dip 30,
5% QUARTZ as disseminations and scattered crystals
.3% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
10% MUSCOVITE as disseminations and scattered crystals
19.51 21.64 BASALT IS TUFFACEOUS; GOOD BANDING IS PRESENT

FROM 37.16MT. TO 51.82MT.
pale grey RHYOLITIC TUFF; CHERTY,and SERICITIC
Textures noted: , BEDDED
Structures noted: BEDDING dip 10,
.01% GARNET as disseminations and scattered crystals
1% PYRITE as laminations, bedded
1% FELDSPAR as microveins
.03% EPIDOTE as microveins
.03% PYRRHOTITE as disseminations and scattered crystals

FROM 48.52MT. TO 49.87MT.
100% of this subinterval is
med. dark green MAFIC TUFF
Textures noted: , BANDED
1% PYRITE as laminations, bedded

FROM 51.82MT. TO 53.50MT.
med. dark green BASALT
Textures noted: , MASSIVE
1% BIOTITE as microveins

FROM 53.50MT. TO 54.47MT.
med. dark green CRYSTAL TUFF with FELDSPARS, GEN. , and RHYOLITIC
Textures noted: , BEDDED
10% BIOTITE as disseminations and scattered crystals
53.50 54.47 RHYOLITIC CRYSTAL TUFF WITH SOME APHANITIC CHERTY BANDS CHARACTERISED BY ABOUT 10% FELDSPAR CRYSTALS

FROM 54.47MT. TO 70.59MT.
dark grey PYROXENITE; TALCOSE
.07% MAGNETITE as pervasive mineralization
54.47 70.59 THIS PYROXENITE IS THE SAME AS THE ONE FOUND IN A+B ZONES; IT APPEARS TO BE DIFFERENTIATED. THE FIRST 1.8M IS DARK GREEN IN COLOR-FAIRLY MAGNETIC AND CHARACTERISED BY ABUNDANT AMPHIBOLES/PYROXENES NEEDLES. THE UNIT THEN GRADES INTO A HIGHLY TALCOSE, STRONGLY MAGNETIC META-PYROXENITE

FROM 64.83MT. TO 65.53MT.
100% of this subinterval is
medium mauve CHERTY TUFF
Structures noted: BEDDING dip 40,
10% BIOTITE as pervasive mineralization
1% CHLORITE as microveins

FROM 70.59MT. TO 87.48MT.
med. dark green BASALT
Textures noted: MASSIVE
2.5% MUSCOVITE as disseminations and scattered crystals
1% EPIDOTE as microveins

FROM 70.81MT. TO 71.59MT.
100% of this subinterval is
medium green MAFIC TUFF; BIOTITIC
Textures noted: BEDDED
Structures noted: BEDDING dip 45,

10% BIOTITE as laminations, bedded

70.81	71.59	DACITIC TO ANDESITIC FINELY BEDDED BIOTITIC FINE GRAINED TUFFS
80.22	83.45	VERY HIGHLY BIOTISED BASALTS. UNIT CONSISTS OF AT LEAST 50 TO 60% FINE BIOTITE FLAKES
END	97.48	END OF HOLE

IN-HOLE SURVEY AT 97.48 MT.
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -49.00
TRUE AZIMUTH OF HOLE 215

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A001
AUMM                        GTM AUGTM AGPPM CU % CU PPM ZN % ZN
ALAB                        CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP                        H-COR H-COR H-COR H-COR H-COR H-COR
AMTH                        FA    FA    AA          AA    AA
A001   823   869      3757   .17   .17
A001   988  1058      3758  5.15  9.36  7200
A001  3630  3734      3759   .17   .17  1600
A001  3904  4017      3760   .17   000
A001  4852  4987      3761   .17   .17
/END
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HOLE 82CH25
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2434 , QUEBEC.
CLAIM NO. 399289-3
GRID NORTH -428.00 GRID EAST 200.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -55.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 99.67mt.
Logged by: M.Drouin on (day/mo/yr)... AUG82
Drilled by: Bradley Bros. Ltd (mo/yr).. AUG82

FROM 0.00MT. TO 8.53MT.
OVERBURDEN

FROM 8.53MT. TO 29.57MT.
med. dark green BASALT
Textures noted: , MASSIVE
1% QUARTZ as microveins
1% CARBONATE as microveins

FROM 24.99MT. TO 25.91MT.
100% of this subinterval is
med. dark grey DACITIC TUFF
Textures noted: BANDED , BEDDED
Structures noted: BEDDING dip 25,
20% BIOTITE as pervasive mineralization
1% PYRRHOTITE as disseminations and scattered crystals

FROM 29.57MT. TO 74.01MT.
med. dark green PORPHYRITC BASALT with AMPHIBOLES ,
Textures noted: PORPHYRITIC , MASSIVE
.3% QUARTZ as microveins
.3% CARBONATE as microveins
.01% FELDSPAR as microveins
29.57 74.01 MASSIVE BASALTS CHARACTERIZED BY 25-35%,1-2MM SIZED AMPHIBOLES-COARSE GRAINED BASALTS
48.16 74.01 APPEARANCE OF A WHITE CLAYLIKE MINERAL(ALTERATION OF FELDSPARS)

FROM 53.19MT. TO 54.65MT.
100% of this subinterval is
DACITIC TUFF; BIOTITIC
Textures noted: BANDED , BEDDED
20% BIOTITE as pervasive mineralization
5% PYRITE as microveins
55.47 55.58 PORPHYRITIC BASALT-20%,2-5MM SIZED FELDSPAR PHENOCRYSTS

FROM 74.01MT. TO 74.13MT.
med. dark green MAFIC TUFF
Textures noted: BANDED
Structures noted: CONTACT dip 10,
.1% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

FROM 74.13MT. TO 74.86MT.
med. light grey RHYOLITIC TUFF; CHERTY
Textures noted: , BEDDED
2.5% PYRITE as disseminations and scattered crystals
5% CHALCOPYRITE as disseminations and scattered crystals
10% PYRRHOTITE as microveins
.1% SPHALERITE as disseminations and scattered crystals

FROM 74.86MT. TO 99.67MT.
med. dark grey DACITE; TUFFACEOUS
Textures noted: MASSIVE , BEDDED
2.5% QUARTZ as microveins
.01% GARNET as disseminations and scattered crystals
2.5% CARBONATE as microveins
1% PYRITE as microveins
5% CHLORITE as microveins
1% PYRRHOTITE as microveins

FROM 86.23MT. TO 88.09MT.
100% of this subinterval is the same as 74.86MT. to 99.67MT. except as noted
DACITE
2.5% GARNET as disseminations and scattered crystals

74.86 79.67 DACITIC ZONE:UNIT CONSISTS OF 70-80% DACITIC FLOWS IN-TERBEDDED WITH 20 TO 30% DACITIC TUFFS.UNIT CHARACTERISED BY ABUNDANT CHLORITE FILLED FRACTURES. UNIT CONTAINS VERY FINE WHISPS AND DISSEMINATION AS WELL AS THIN STRINGERS OF PO,PY

85.03 85.16 PORCELLANITE BAND-VERY HEAVILY DISSEMINATED PO - ABUNDANT MICRO-FRACTURES FILLED WITH PO

FROM 96.23MT. TO 96.77MT.
100% of this subinterval is
CHERTY TUFF
Textures noted: , BEDDED
5% PYRITE as disseminations and scattered crystals
1% FELDSPAR as microveins

96.80 96.80 PROBABLE FAULT GOUGE MATERIAL

END 99.67 END OF HOLE

IN-HOLE SURVEY AT 99.67 MT.
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -52.00
TRUE AZIMUTH OF HOLE 215

A001										
ALMM			GTM	AUGTM	AGPPM	CU %	CUPPM	ZN %	ZN	
ALAB			CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC							
ATYP			H-COR	H-COR	H-COR	H-COR	H-COR	H-COR		
AMTH			FA	FA	AA					
A001	5395	5465	3771	.17	000					
A001	7299	7400	3772	.17	000		.022			
A001	7400	7486	3773	3.67	21.98		1.03		.077	
A001	7486	7553	3774	.17	1.03		0.11			
A001	8443	8544	3775	.17	.41					
A001	8544	8644	3776	.17	000					
A001	8793	8894	3777	.17	.17					

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A001  9101  9202      3778   .17   .17
A001  9202  9303      3779   .17   .93
A001  9623  9677      3780   .17   .69
RASY                      NOTE: TRACE VALUE = 0.17 G/METRIC TONNE
RASY                      NOTE: NIL VALUE = 000 G/METRIC TONNE
/END
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HOLE B2DH26
PLACER DEVELOPMENT LTD,V.116,EASTMAIN.
TWP. 2334 , QUEBEC.
CLAIM NO. 399292-5
GRID NORTH -760.00 GRID EAST 1230.00
GRID AZIMUTH OF HOLE 130.00 VERTICAL ANGLE -55.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 99.06mt.
Logged by: M.Drouin on (day/mo/yr)... AUG82
Drilled by: Bradley Bros. Ltd (mo/yr).. AUG82

FROM 0.00MT. TO 3.05MT.
OVERBURDEN

FROM 3.05MT. TO 81.23MT.
medium green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL
2.5% QUARTZ as laminations, bedded
2.5% CARBONATE as laminations, bedded
3.05 81.23 FRESH BASALT
39.81 39.96 K-FELDSPAR+EPIDOTE FILLED VEINS

FROM 62.03MT. TO 63.22MT.
100% of this subinterval is
med. light grey META TUFF
Textures noted: BANDED
5% BIOTITE as laminations, bedded
5% CARBONATE as laminations, bedded
2.5% PYRRHOTITE as disseminations and scattered crystals
62.03 63.22 INTERMEDIATE TUFFACEOUS ROCKS-MODERATE BANDING ONLY
73.76 75.59 SEVERAL EPIDOTE/CARBONATE FILLED FRACTURES

FROM 76.75MT. TO 79.13MT.
100% of this subinterval is
medium green META TUFF
Textures noted: BANDED
Structures noted: BANDING dip 05,
.3% PYRITE as disseminations and scattered crystals
76.75 79.13 FINE GRAINED INTERMEDIATE TO BASIC TUFFACEOUS SEQUENCE
BANDING IS APPARENT

FROM 81.23MT. TO 84.16MT.
med. dark grey DACITE; TUFFACEOUS
10% BIOTITE as pervasive mineralization
.01% MARIPOSITE as disseminations and scattered crystals
1% CHALCOPYRITE as disseminations and scattered crystals
2.5% PYRRHOTITE as laminations, bedded
81.23 84.16 DARK GREY BROWN,FINE GRAINED TUFFACEOUS DACITE(META-SE-
DIMENT) WITH 2-4% DISSEMINATIONS AND STRINGERS OF PO
AND LOCALLY UP TO 1% DISSEMINATED CPY.

FROM 84.16MT. TO 86.89MT.
medium green VOLCANICLASITIC
Textures noted: FRAGMETAL

.3% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

84.16 86.89 FRAGMENTAL ROCK: RHYOLITIC FRAGMENTS(FINE GRAINED TO FELDSPAR PORPHYRITIC TO CHLORITIC TO BIOTITIC)IN AN INTERMEDIATE TO MAFIC MATRIX.FRAGMENT CONTENT VARIES BETWEEN 15-25% ,MINOR DISSEMINATIONS OF CPY AND PO IN MATRI

FROM 86.89MT. TO 90.16MT.
DACITE
Textures noted: MASSIVE
1% PYRRHOTITE as disseminations and scattered crystals

FROM 90.16MT. TO 99.06MT.
light green VOLCANICLASITIC; AGGLOMERATIC
Textures noted: FRAGMETAL
5% BIOTITE as disseminations and scattered crystals

90.16 99.06 ACID VOLCANICLASTIC:RHYOLITIC FINE GRAINED,TO FELDSPAR PORPHYRITIC TO QUARTZ/FELDSPAR PORPHYRITIC TO LOCALLY CHERTY FRAGMENTS SET IN A FELDSPAR CLAST AND QUARTZ EYE RICH MATRIX

93.60 95.13 FRAGMENTS OF GREEN CARBONATE(FUCHSITE)BANDS UNIT REPRESENTS PROBABLY AN EPICLASTIC UNIT

END 99.06 99.06 END OF HOLE

A001
AUMM GTM AUGTM AGPPM CU % CUPPM ZN % ZN
ALAB CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC
ATYP H-COR H-COR H-COR H-COR H-COR H-COR
AMTH FA FA AA

A001	2448	2591	3751	.17	.17		
A001	6203	6322	3752	.17	.17		
A001	8169	8269	3753	.17	000	1220	
A001	8269	8369	3754	.17	.17	640	
A001	8369	8470	3755	.17	000	1440	
A001	8589	8690	3756	.17	.17	1160	

/END

HOLE B2OH27
PLACER DEVELOPMENT LTD,V.116,EASTMAIN.
TWP. 2334, QUEBEC.
CLAIM NO. 404968-1
GRID NORTH -100.00 GRID EAST 1320.00
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -70.00
TRUE AZIMUTH OF HOLE 215
TOTAL DEPTH OF HOLE: 303.58mt.
Logged by: M.Drouin on (day/mo/yr)... AUG82
Drilled by: Bradley Bros. Ltd (mo/yr)... AUG82

FROM 0.00MT. TO 6.10MT.
OVERBURDEN

FROM 6.10MT. TO 10.36MT.
med. light grey RHYOLITIC TUFF
Textures noted: BANDED
1% QUARTZ as eyes, augen
10% BIOTITE as laminations, bedded

FROM 10.36MT. TO 11.13MT.
dark grey DIORITE
Textures noted: MASSIVE
Structures noted: DYKE ,

FROM 11.13MT. TO 103.63MT.
med. light green BASALT
Textures noted: MASSIVE , AMYGDALOIDAL , PILLOWED
2.5% QUARTZ as laminations, bedded
2.5% CARBONATE as laminations, bedded
.01% CHALCOPYRITE as disseminations and scattered crystals
.03% FELDSPAR as laminations, bedded
.03% EPIDOTE as laminations, bedded

12.19 30.17 A FEW MEGA-AMYGDULES
30.17 72.23 BEGINNING OF MEGA-AMYGDULES
37.79 38.86 20% PERVASIVE EPIDOTE
39.93 40.72 3-5% DISS CPY.

FROM 46.09MT. TO 48.98MT.
100% of this subinterval is
medium grey DACITE
Textures noted: MASSIVE
Structures noted: CONTACT dip 20,
.1% FELDSPAR as laminations, bedded
.1% EPIDOTE as laminations, bedded

FROM 72.33MT. TO 73.76MT.
100% of this subinterval is
med. dark grey FRAGMENTAL BASALT
Textures noted: FRAGMETAL

72.33 73.76 FRAGMENTAL BASALT :FRAGMENTS ARE WHITE APHANITIC
COMPOSED OF SILICA OR QUARTZ
75.29 78.33 COARSE GRAINED BASALTS (GABBRO-SILL)
89.92 103.63 MINOR DISSEMINATIONS AND STRINGERS OF PO-1-2% TOTAL PO

FROM 103.63MT. TO 127.10MT.

medium green BASALT
Textures noted: MASSIVE
.1% CARBONATE as laminations, bedded

103.63 127.10 FRESH LOOKING-MEDIUM TO FINE GRAINED BASALTS WITH CARBONATE BANDS.

FROM 127.10MT. TO 139.39MT.

medium green PORPHYRITC BASALT with FELDSPARS, GEN. , AMPHIBOLES ,
Textures noted: PORPHYRITIC , FOLIATED
10% CARBONATE as laminations, bedded

127.10 139.39 PORPHYRITIC BASALT CHARACTERIZED BY 20%-2-5MM AMPHIBOLES AND 2TO5%- 2-4MM FELDSPAR LATHS

FROM 139.39MT. TO 142.55MT.

FRAGMENTAL BASALT
Textures noted: FRAGMETAL

139.39 142.55 FRAGMENTAL BASALT:35-45% FELSIC FRAGMENTS-GENERALLY FELDSPAR PORPHYRITIC AND WEAKLY BIOTITIC IN A BASALTIC MATRIX THIS UNIT CORRESPONDS TO "FRAGMENTAL BASALT" -WHEN YOU HAVE ANY FINE FRAGMENTS BASALT HAS A DIC-RITIZED LOOK- RECHECK FRAGMENTAL BASALTS

FROM 142.55MT. TO 249.32MT.

med. dark green BASALT
Textures noted: PILLOWED , FLOW BRECCIA , AMYGDALOIDAL
1% CARBONATE as microveins
.01% CHALCOPYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as blebs

142.55 249.32 FRESH AND FINE GRAINED BASALTS
150.57 150.78 SAME AS(417'-457.3')127M-139.4M:AMPHIBOLE PORPHYRY BASALT

FROM 167.94MT. TO 168.58MT.

100% of this subinterval is

light grey RHYOLITIC TUFF; CHERTY,and SERICITIC
Textures noted: , BANDED
.1% BIOTITE as disseminations and scattered crystals
.01% PYRITE as disseminations and scattered crystals

205.37 205.46 BASIC DYKE-CHARACTERIZED BY 20-25%,2-4MM SIZED MAGNETITE GRAINS
231.34 233.17 ABUNDANT EPIPOTE FILLED FRACTURES

FROM 249.32MT. TO 254.17MT.

med. dark green MAFIC TUFF
Textures noted: , BANDED
5% CARBONATE as microveins
1% PYRRHOTITE as blebs

FROM 254.17MT. TO 257.89MT.

med. light grey RHYOLITIC TUFF
Textures noted: , BEDDED
1% MARIPOSITE as laminations, bedded
1% PYRITE as laminations, bedded
.01% CHALCOPYRITE as disseminations and scattered crystals

1% PYRRHOTITE as laminations, bedded

257.71 257.89 TRANSITION TO MAFIC TUFFS-257,8M-D GREEN CARBONATE BAND

FROM 257.89MT. TO 259.20MT.
med. light green MAFIC TUFF
Textures noted: , BANDED
2.5% PYRITE as disseminations and scattered crystals
.1% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

258.75 258.84 FAULT GOUGE

FROM 259.84MT. TO 259.20MT.
100% of this subinterval is the same as 257.89MT. to 259.20MT. except as noted
MAFIC TUFF
10% QUARTZ as pervasive mineralization
5% PYRITE as disseminations and scattered crystals
1% CHALCOPYRITE as disseminations and scattered crystals
10% PYRRHOTITE as microveins

258.84 259.20 ORE ZONE : HOST ROCK IS A MAFIC TUFF. 20-21% TOTAL SULPHIDES-PO MOST ABUNDANT.ORE ZONE IS SILICA RICH WITHIN-SULPHIPHIDE ZONE

FROM 259.20MT. TO 259.64MT.
DACITIC TUFF
Textures noted: FOLIATED
5% QUARTZ as patches
20% BIOTITE as pervasive mineralization
1% GARNET as disseminations and scattered crystals
.1% PYRITE as disseminations and scattered crystals
.1% PYRRHOTITE as disseminations and scattered crystals
5% AMPHIBOLES as patches

FROM 259.64MT. TO 259.96MT.
DACITIC TUFF
Textures noted: BANDED
10% QUARTZ as pervasive mineralization
10% BIOTITE as pervasive mineralization
2.5% PYRITE as disseminations and scattered crystals
1% CHALCOPYRITE as disseminations and scattered crystals
5% PYRRHOTITE as disseminations and scattered crystals

FROM 259.96MT. TO 262.43MT.
med. dark grey META TUFF
Textures noted: BANDED , BEDDED
Structures noted: BEDDING dip 20,
10% BIOTITE as disseminations and scattered crystals
.03% PYRITE as laminations, bedded

259.96 262.43 INTERBEDDED MAFIC AND INTERMEDIATE FINE GRAINED TUFFS INTERMEDIATE TUFFS ARE QUITE BIOTITIC

FROM 262.43MT. TO 266.21MT.
PYROXENITE
Textures noted: MASSIVE
.07% MAGNETITE as disseminations and scattered crystals

262.43 266.21 WEAKLY MAGNETIC,VERY WEAKLY TALCOSE(ALONG FRACTURES)-

POSSIBLE A PYROXENITE ?

FROM 266.21MT. TO 269.39MT.
light grey RHYOLITIC TUFF
Textures noted: BANDED
.07% MUSCOVITE as disseminations and scattered crystals

FROM 269.38MT. TO 270.97MT.
med. dark green BASALT
Textures noted: MASSIVE
5% QUARTZ as laminations, bedded
.1% PYRITE as disseminations and scattered crystals

FROM 270.97MT. TO 273.59MT.
med. light grey RHYOLITIC TUFF; BIOTITIC
Textures noted: BANDED
10% BIOTITE as pervasive mineralization

FROM 273.59MT. TO 274.62MT.
MAFIC TUFF; TUFFACEOUS
Textures noted: BANDED
10% QUARTZ as pervasive mineralization
20% BIOTITE as laminations, bedded

FROM 274.62MT. TO 303.58MT.
med. dark green BASALT
Textures noted: MASSIVE , FOLIATED
2.5% QUARTZ as laminations, bedded
5% BIOTITE as laminations, bedded
2.5% CARBONATE as laminations, bedded
.01% CHALCOPYRITE as blebs

FROM 288.65MT. TO 291.69MT.
100% of this subinterval is the same as 274.62MT. to 303.58MT. except as noted
BASALT

FROM 291.24MT. TO 303.58MT.
100% of this subinterval is the same as 274.62MT. to 303.58MT. except as noted
BASALT
10% BIOTITE as laminations, bedded

299.60 303.58 BASALT BECOMES WEAKLY VARIOLITIC
291.24 303.58 VERY ABUNDANT AND FREQUENT BIOTITIC BANDS
END 303.58 303.58 END OF HOLE

IN-HOLE SURVEY AT 286.50 MT.
GRID AZIMUTH OF HOLE 195.00 VERTICAL ANGLE -57.00
TRUE AZIMUTH OF HOLE 230

A001							
AUMM			GTM AUGTM AGPPM CU CU % PPM ZN ZN %				
ALAB			CHIMTCCHIMTCCHIMTCCHIMTCCHIMTCCHIMTC				
ATYP			H-COR H-COR H-COR H-COR H-COR H-COR				
AMTH			FA FA AA				
A001	3393	4072	3781	.17	1.51	0.52	
A001	6309	6409	3782	.17	0.69	0.12	

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A001  6409  8504      3782  .17   0.34  3280
A001 17282 17383      3784  .17   0.96
A001 25054 25155      3785  .17    000
A001 25417 25688      3786  .17    .17
A001 25688 25789      3787  .17    .17
A001 25789 25832      3788  .17    000
A001 25832 25834      3789  .17    .17        .06
A001 25887 25920      3790 3.26   5.14       0.31
A001 25920 25956      3791  .17    000
A001 25956 25964      3792 1.41  10.35        .28
A001 25996 26100      3793  .17    .17        .008
A001 26975 27097      3794  .17    .17  2280
RASY                      TRACE VALUE = 0.17 G/METRIC TON
RASY                      NIL VALUE = 000
/END
```

HOLE A9CH001
CANEX AERIAL EXPLORATION,V.116,EASTMAIN.
TWP. 2334 , QUEBEC.
CLAIM NO. 39929:-5
GRID NORTH -460.00 GRID EAST 1197.00
GRID AZIMUTH OF HOLE 190.00 VERTICAL ANGLE -45.00
TRUE AZIMUTH OF HOLE 225
TOTAL DEPTH OF HOLE: 35.00mt.
Logged by: C.Hilgendorf on (day/mo/yr)...03AUG70
Drilled by: Canex Aerial Expl. (mo/yr)..... AUG70

FROM 0.00MT. TO 4.50MT.
OVERBURDEN

FROM 4.50MT. TO 10.35MT.
BASALT
Textures noted: SCHISTOSE , MASSIVE
.01% CHALCOPYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals

FROM 10.35MT. TO 18.60MT.
RHYOLITE
Textures noted: BANDED
.3% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

FROM 12.20MT. TO 14.00MT.
100% of this subinterval is
RHYOLITE; BIOTITIC

FROM 18.60MT. TO 29.50MT.
BASALT; TALCOSE

FROM 29.50MT. TO 33.20MT.
CHERT
10% PYRITE as microveins
5% CHALCOPYRITE as microveins
5% PYRRHOTITE as microveins

FROM 33.20MT. TO 35.00MT.
BASALT

EOF 35.00 35.00 END OF HOLE.

GEOLOGY SIMPLIFIED FROM DDH LOG BY C. HILGENDORF

A001										
AUMM			GT AU	GT AG	PM CU %	CU PM	ZN %	ZN		
ALAB			X-RAY	X-RAY	X-RAY	X-RAY	X-RAY	X-RAY		
ATYP			CORE	CORE	CORE	CORE	CORE	CORE		
A001	3048	3078	5.49	16.46		0.10				
A001	3078	3108	28.80	15.09		0.35				

```
A001  3148  3200          11.66 23.31       0.40
RASY  3048  3200          13.82 20.33       0.33   COMPOSITE SAMPLE
/END
```

HOLE A9CH001A
CANEX AERIAL EXPLORATION,V.116,EASTMAIN.
TWP. 2334 , QUEBEC
CLAIM NO. 399291-5
GRID NORTH -475.00 GRID EAST 1183.00
GRID AZIMUTH OF HOLE 190.00 VERTICAL ANGLE -45.00
TRUE AZIMUTH OF HOLE 225
TOTAL DEPTH OF HOLE: 74.00mt.
Logged by: B.Van Zoost on (day/mo/yr)...27SEP70
Drilled by: Canex Aerial Expl. (mo/yr)... SEP70

FROM 0.00MT. TO 3.95MT.
OVERBURDEN

FROM 3.95MT. TO 4.60MT.
BASALT
.01% PYRITE as disseminations and scattered crystals

FROM 4.60MT. TO 6.00MT.
medium grey RHYOLITE

FROM 6.00MT. TO 19.50MT.
BASALT; BIOTITIC
2.5% QUARTZ as microveins
.01% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals

FROM 19.50MT. TO 22.50MT.
BASALT
1% PYRITE as disseminations and scattered crystals
1% CHALCOPYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals
2 cm QUARTZ-CALCITE VEIN WITH CHALCO. AND
PYRITE AT APPROX. 20.00 METRES.

FROM 22.50MT. TO 24.90MT.
CHERT
10% PYRITE as disseminations and scattered crystals
5% CHALCOPYRITE as disseminations and scattered crystals
10% PYRRHOTITE as disseminations and scattered crystals

FROM 24.90MT. TO 25.60MT.
medium grey RHYOLITE
.3% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 25.60MT. TO 74.00MT.
BASALT
EOF 74.00 74.00 END OF HOLE
GEOLOGY SIMPLIFIED FROM DDH LOG BY B. VAN ZOOST.
A001
AUMM GT AU GT AG PM CU % CU PM ZN % ZN

ALAB			X-RAY	X-RAY	X-RAY	X-RAY	X-RAY	X-RAY	
ATYP			CORE	CORE	CORE	CORE	CORE	CORE	
A001	1980	2012	14.40	16.46		0.04			
A001	2286	2316	12.34	18.51		0.28			
A001	2316	2346	10.28	19.89		0.23			
A001	2346	2377	13.71	22.63		0.38			
A001	2377	2407	4.80	17.14		0.19			
A001	2407	2438	0.34	0.17		0.10			
A001	2439	2468	10.97	8.91		0.10			
A001	2591	2621	6.86	0.17		0.03			
RASY	2296	2468	8.64	14.35		0.21	COMPOSITE SAMPLE		
/END									

HOLE A9CH002
PLACER DEVELOPMENT LTD,V.116,EASTMAIN.
TWP. 2334 , QUEBEC.
CLAIM NO. 399291-S
GRID NORTH -428.00 GRID EAST 1130.00
GRID AZIMUTH OF HOLE 190.00 VERTICAL ANGLE -50.00
TRUE AZIMUTH OF HOLE 225
TOTAL DEPTH OF HOLE: 83.06mt.
Logged by: C.G.Hilgendorf on (day/mo/yr)...14AUG81
Drilled by: Langley Drilling Ltd. (mo/yr).... AUG81

FROM . 0MT. TO 6.10MT.
OVERBURDEN

FROM 6.10MT. TO 18.59MT.
very dark green BASALT with 10%BIOTITE
Textures noted: SCHISTOSE
Structures noted: BANDING dip 60, MACROVEINS dip 60
5% QUARTZ as macroveins
2.5% BIOTITE as microveins
5% CARBONATE as macroveins
60% CHLORITE as pervasive mineralization
.3% PYRRHOTITE as veins
MACRO VEINS TO ONE QUARTER INCH NO SULPHIDES

FROM 18.59MT. TO 21.34MT.
light grey RHYOLITE
Structures noted: BEDDING dip 60,
1% BIOTITE as microveins
.3% PYRITE as disseminations and scattered crystals

FROM 21.34MT. TO 24.38MT.
very dark green BASALT with 5 % BIOTITE
Textures noted: SCHISTOSE
Structures noted: BANDING dip 60, MACROVEINS dip 60
.3% QUARTZ as macroveins
.3% CARBONATE as macroveins
60% CHLORITE as pervasive mineralization
1% EPIDOTE as patches

FROM 24.38MT. TO 30.33MT.
light grey RHYOLITE
Structures noted: BEDDING dip 60,
1% BIOTITE as microveins
.3% PYRITE as disseminations and scattered crystals

FROM 30.33MT. TO 37.34MT.
very dark green BASALT with 5%AMPHIBOLES 5 % BIOTITE
Textures noted: SCHISTOSE
Structures noted: BANDING dip 60,
1% BIOTITE as microveins
.3% PYRITE as disseminations and scattered crystals
60% CHLORITE as pervasive mineralization

FROM 37.34MT. TO 40.69MT.
medium grey CHERT
Textures noted: BRECCIATED
Structures noted: VEIN QUARTZ dip 60,
20% PYRITE as massive
5% CHALCOPYRITE as massive
5% MUSCOVITE as patches
5% PYRRHOTITE as massive

FROM 37.34MT. TO 37.95MT.
30% of this subinterval is
BASALT

FROM 39.62MT. TO 40.69MT.
70% of this subinterval is
BASALT

FROM 40.69MT. TO 73.91MT.
very dark green BASALT with 10%BIOTITE
Structures noted: MACROVEINS dip 45, MACROVEINS dip 60
2.5% QUARTZ as macroveins
1% BIOTITE as microveins
2.5% CARBONATE as macroveins
.3% PYRITE as disseminations and scattered crystals
.3% CHALCOPYRITE as disseminations and scattered crystals
60% CHLORITE as pervasive mineralization
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 46.63MT. TO 47.24MT.
100% of this subinterval is
light grey TALC

FROM 53.64MT. TO 54.86MT.
100% of this subinterval is
med. dark grey RHYOLITE
Structures noted: BEDDING dip 60,
.3% QUARTZ as macroveins

FROM 62.33MT. TO 64.01MT.
100% of this subinterval is the same as 40.69MT. to 73.91MT. except as noted
BASALT with 50%AMPHIBOLES

FROM 73.30MT. TO 73.46MT.
100% of this subinterval is the same as 40.69MT. to 73.91MT. except as noted
light grey BRECCIA
Textures noted: BRECCIATED

FROM 73.91MT. TO 83.06MT.
very dark green BASALT with 10%BIOTITE
Textures noted: VESICULAR , SCHISTOSE
Structures noted: MACROVEINS dip 45, MACROVEINS dip 60
2.5% QUARTZ as macroveins
2.5% CARBONATE as macroveins
.3% PYRITE as disseminations and scattered crystals
60% CHLORITE as pervasive mineralization

.3% PYRRHOTITE as disseminations and scattered crystals
TRACE OF LEUCOXENE

IN-HOLE SURVEY AT 83.06 MT.
GRID AZIMUTH OF HOLE 190.0 VERTICAL ANGLE -46.0?
TRUE AZIMUTH OF HOLE 225

CORE TORONTO WAREHOUSE

A001							
AUMM				OZ	AUCZ	AG %	CU
ALAB				X-RAY	X-RAY	X-RAY	
ATYP				H-COR	H-COR	H-COR	
AMTH				FA	FA	XRF	
A001	610	823	1990	-0.01	0.000		
A001	823	975	1841	0.003	0.00	0.08	
A001	975	1158	1991	-0.01	-0.01		
A001	1158	1341	1992	0.002	0.000		
A001	1341	1524	1993	0.002	-0.01		
A001	1524	1707	1994	-0.01	-0.01		
A001	1707	1859	1995	0.004	-0.01		
A001	1859	2042	1996	0.000	-0.01		
A001	2042	2134	1997	0.000	-0.01		
A001	2134	2316	1998	0.000	-0.01		
A001	2316	2438	1999	0.000	-0.01		
A001	2438	2621	2000	0.000	-0.01		
A001	2621	2804	2001	0.000	-0.01		
A001	2804	3033	2002	0.000	-0.01		
A001	3033	3338	2003	0.000	-0.01		
A001	3338	3642	2004	0.000	-0.01		
A001	3642	3734	1839	0.000	-0.01	-0.01	
A001	3734	3886	1827	0.350	1.17	0.58	
A001	3886	3917	1828	0.094	0.14	0.09	
A001	3917	4069	1829	0.098	0.32	0.19	
A001	4069	4161	1840	0.003	-0.01	0.01	
A001	4161	4343	2005	0.011	-0.01		
A001	4343	4526	2006	0.002	-0.01		
A001	4526	4679	2007	0.000	-0.01		
A001	4679	4724	2008	0.000	-0.01		
A001	4724	4907	2009	0.009	-0.01		
A001	4907	5090	2010	0.000	0.000		
A001	5090	5273	2011	0.002	-0.01		
A001	5273	5364	2012	0.000	0.000		
A001	5364	5486	2013	0.000	0.11		
A001	5486	5669	2014	0.000	-0.01		
A001	5669	5852	2015	0.000	-0.01		
A001	5852	6035	2016	0.001	-0.01		
A001	6035	6218	2017	0.005	-0.01		
A001	6218	6401	2018	-0.01	-0.01		
A001	6401	6584	2019	0.000	0.000		
A001	6584	6736	2020	0.003	-0.01		
A001	6736	6858	1842	0.005	0.00	0.29	
A001	6858	6980	2021	0.000	-0.01		
A001	6980	7041	1843	0.002	0.00	0.20	
A001	7041	7224	2022	0.000	-0.01		
A001	7224	7407	2023	0.000	-0.01		
A001	7407	7590	2024	0.000	0.16		
A001	7590	7772	2025	0.000	-0.01		

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A001  7772  7955      2026 0.000 -0.01
A001  7955  8138      2027 0.000 -0.01
A001  8138  8306      2027 0.000 -0.01
RASY                    0.000 HAS BEEN USED AS AN ASSAY REPORTED NIL OR BLD
RASY                    -0.01 HAS BEEN USED AS AN ASSAY REPORTED TRACE
/END
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HOLE A9CH003
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN.
TWP. 2334 , QUEBEC.
CLAIM NO. 399291-5
GRID NORTH -432.00 GRID EAST 1187.00
GRID AZIMUTH OF HOLE 195.00 VERTICAL ANGLE -50.00
TRUE AZIMUTH OF HOLE 230
TOTAL DEPTH OF HOLE: 76.35mt.
Logged by: C.G.Hilgendorf on (day/mo/yr)...17AUG81
Drilled by Langley Drilling Ltd. (mo/yr) ... AUG81

FROM 0. 0MT. TO 2.74MT.
OVERBURDEN

FROM 2.74MT. TO 30.48MT.
very dark green BASALT with 30% BIOTITE 1% AMPHIBOLES
Textures noted: SCHISTOSE , VESICULAR
Structures noted: MACROVEINS dip 60, MACROVEINS dip 45
2.5% QUARTZ as macroveins
10% BIOTITE as microveins
2.5% CARBONATE as macroveins
.3% PYRITE as disseminations and scattered crystals
60% CHLORITE as pervasive mineralization
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 30.48MT. TO 37.95MT.
light grey RHYOLITE
Structures noted: BEDDING dip 60, BEDDING dip 45
.01% QUARTZ as macroveins
10% BIOTITE as microveins
1% PYRITE as disseminations and scattered crystals
1% PYRRHOTITE as disseminations and scattered crystals

FROM 31.09MT. TO 33.83MT.
10% of this subinterval is
very dark green BASALT

FROM 37.95MT. TO 52.12MT.
very dark green BASALT with 30% BIOTITE 1% AMPHIBOLES
Textures noted: SCHISTOSE
Structures noted: MACROVEINS dip 60, MACROVEINS dip 45
.01% QUARTZ as macroveins
10% BIOTITE as microveins
.01% CARBONATE as macroveins
.3% PYRITE as disseminations and scattered crystals
60% CHLORITE as pervasive mineralization
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 52.12MT. TO 53.34MT.
light grey CHERT
Textures noted: BEDDED
Structures noted: VEIN dip 90,
20% PYRITE as massive

.01% MUSCOVITE as patches

FROM 52.12MT. TO 53.34MT.
10% of this subinterval is
medium grey RHYOLITE
Textures noted: BEDDED
Structures noted: dip 60,

FROM 53.34MT. TO 76.35MT.
very dark green BASALT with 40 % BIOTITE 10 % AMPHIBOLES
Textures noted: SCHISTOSE
Structures noted: MACROVEINS dip 60, MACROVEINS dip 45
.01% QUARTZ as macroveins
20% BIOTITE as microveins
.01% CARBONATE .as macroveins
.3% PYRITE as disseminations and scattered crystals
60% CHLORITE as pervasive mineralization
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 54.56MT. TO 55.47MT.
50% of this subinterval is
medium grey RHYOLITE
Structures noted: BEDDING dip 60,

FROM 56.54MT. TO 57.45MT.
100% of this subinterval is
light grey RHYOLITE
Structures noted: BEDDING dip 60,
CORE AT DRILL SITE

A001						
AUMM			OZ	AUOZ	AG %	CU
ALAB			X-RAY	X-RAY	X-RAY	
ATYP			H-COR	H-COR	H-COR	
AMTH			FA	FA	XRF	
A001	5121	5212	1830	-0.001	0.00	-0.01
A001	5212	5334	1391	1.850	1.14	0.29
A001	5334	5425	1831	0.002	-0.01	-0.01

/END

HOLE A9CH004
PLACER DEVELOPMENT LTD.,V.116,EASTMAIN
TWP. 2334 , QUEBEC.
CLAIM NO. 399291-5
GRID NORTH -432.00 GRID EAST 1248.00
GRID AZIMUTH OF HOLE 194.00 VERTICAL ANGLE -50.00
TRUE AZIMUTH OF HOLE 229
TOTAL DEPTH OF HOLE: 79.86mt.
Logged by: C.G.Hilgendorf on (day/mo/yr)...19AUG81
Drilled by: Langley Drilling Ltd.(mo/yr)..... AUG81

FROM . 0MT. TO 2.13MT.
OVERBURDEN

FROM 2.13MT. TO 79.86MT.
dark green BASALT with 30% BIOTITE 5%AMPHIBOLES
Textures noted: SCHISTOSE , VESICULAR
Structures noted: MACROVEINS dip 60, MACROVEINS dip 45
1% QUARTZ as macroveins
10% BIOTITE as microveins
1% CARBONATE as macroveins
.3% PYRITE as veins
60% CHLORITE as pervasive mineralization
.3% PYRRHOTITE as veins

FROM 23.93MT. TO 27.74MT.
50% of this subinterval is
red green RHYOLITE
Textures noted: BEDDED
Structures noted: MACROVEINS dip 45, MACROVEINS dip 60
1% QUARTZ as macroveins
1% CARBONATE as macroveins
.3% PYRITE as macroveins
.3% PYRRHOTITE as macroveins

FROM 32.16MT. TO 33.22MT.
100% of this subinterval is
very dark grey CHERT
Textures noted: BEDDED
Structures noted: VEIN dip 60,

FROM 32.46MT. TO 32.77MT.
100% of this subinterval is
red green RHYOLITE
Textures noted: BEDDED
Structures noted: BANDING dip 60,

FROM 44.04MT. TO 44.96MT.
80% of this subinterval is
red grey RHYOLITE with QUARTZ , PLAGIOCLASE ,
Textures noted: BEDDED
Structures noted: MACROVEINS dip 60, BEDDING dip 60
.01% QUARTZ as macroveins
.3% PYRITE as macroveins

FROM 46.33MT. TO 47.55MT.
80% of this subinterval is
light grey RHYOLITE
Structures noted: MACROVEINS dip 45, BEDDING dip 60
.01% QUARTZ as macroveins

FROM 48.31MT. TO 50.29MT.
100% of this subinterval is
light grey RHYOLITE
Structures noted: BEDDING dip 60, MACROVEINS dip 60
.01% QUARTZ as macroveins
.01% CARBONATE as macroveins

FROM 57.76MT. TO 66.90MT.
80% of this subinterval is
red green RHYOLITE
Structures noted: BEDDING dip 60, MACROVEINS dip 60
.3% QUARTZ as macroveins
.3% CARBONATE as macroveins

FROM 58.22MT. TO 58.37MT.
100% of this subinterval is
very dark grey CHERT
Textures noted: BEDDED
Structures noted: BANDING dip 60,
30% PYRITE as massive
CORE AT DRILL SITE

IN-HOLE SURVEY AT 79.86 MT.
GRID AZIMUTH OF HOLE 180.00 VERTICAL ANGLE -49.00
TRUE AZIMUTH OF HOLE 215

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A001
AUMM                    OZ  AUOZ  AG %  CU
ALAB                    X-RAY X-RAY X-RAY
ATYP                    H-COR H-COR H-COR
AMTH                    FA    FA    XRF
A001  3216  3322      1392 0.000  0.00  0.00
A     4831  5029      1393 0.000  0.00 -0.01
A     5822  5852      1394 0.090 -0.01  0.02
/END
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HOLE A9CH005
PLACER DEVELOPMENT LTD.,V116,EASTMAIN.
TWP. 2334 , QUEBEC.
CLAIM NO. 399291-5
GRID NORTH -362.00 GRID EAST 1260.00
GRID AZIMUTH OF HOLE 190.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 225
TOTAL DEPTH OF HOLE: 127.71mt.
Logged by: C.G.Hilgendorf on (day/mo/yr)...23AUG81
Drilled by: Langley Drilling Ltd. (mo/yr)... AUG81

FROM . 0MT. TO 4.57MT.
OVERBURDEN

FROM 4.57MT. TO 127.71MT.
very dark green BASALT with 20%AMPHIBOLES 2.5%BIOTITE
Textures noted: SCHISTOSE , VESICULAR
Structures noted: MACROVEINS dip 45, MACROVEINS dip 60
2.5% QUARTZ as macroveins
1% BIOTITE as microveins
2.5% CARBONATE as macroveins
.01% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as blebs
60% CHLORITE as pervasive mineralization
.01% PYRRHOTITE as massive

FROM 7.01MT. TO 7.32MT.
20% of this subinterval is the same as 4.57MT. to 127.71MT. except as noted
BASALT
Structures noted: BEDDING dip 70,
NO SULPHIDE WITH MACRO VEINS

FROM 9.75MT. TO 9.91MT.
100% of this subinterval is
pale grey PEGMATITE
Structures noted: VEIN dip 70,

FROM 41.91MT. TO 42.21MT.
10% of this subinterval is
QUARTZ VEIN
.01% CHALCOPYRITE as blebs
5% PYRRHOTITE as massive

FROM 64.01MT. TO 64.47MT.
100% of this subinterval is
medium grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 60,
.01% CARBONATE as macroveins
.01% PYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals

FROM 86.56MT. TO 87.17MT.
100% of this subinterval is

light grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 60,
.01% CLAY as disseminations and scattered crystals

FROM 91.44MT. TO 97.32MT.
50% of this subinterval is
medium grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 60,
.01% PYRITE as disseminations and scattered crystals
1% PYRRHOTITE as massive

FROM 92.66MT. TO 93.27MT.
100% of this subinterval is
medium grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 60,
.3% CHALCOPYRITE as blebs
10% PYRRHOTITE as massive

FROM 94.18MT. TO 95.10MT.
80% of this subinterval is
medium grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 60,
1% PYRITE as massive
1% PYRRHOTITE as massive

FROM 97.38MT. TO 98.91MT.
100% of this subinterval is
light grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 80,
.01% PYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals

FROM 106.22MT. TO 108.05MT.
100% of this subinterval is
light grey CHERT
Textures noted: BRECCIATED
Structures noted: BEDDING dip 70,
10% PYRITE as massive
2.5% CHALCOPYRITE as massive
5% MUSCOVITE as pervasive mineralization
10% PYRRHOTITE as massive

FROM 108.05MT. TO 109.42MT.
80% of this subinterval is
light grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 70,

FROM 110.64MT. TO 113.08MT.
70% of this subinterval is

light grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 70, MACROVEINS dip 45
.01% QUARTZ as macroveins
.01% CARBONATE as macroveins

FROM 126.80MT. TO 127.71MT.
100% of this subinterval is the same as 4.57MT. to 127.71MT. except as noted
medium grey TALC
CORE AT DRILL SITE

IN-HOLE SURVEY AT 127.71 MT.
GRID AZIMUTH OF HOLE 194.00 VERTICAL ANGLE -58.00
TRUE AZIMUTH OF HOLE 229

A001							
AUMM				OZ	AUOZ	AG	% CU
ALAB				X-RAY	X-RAY	X-RAY	
ATYP				H-COR	H-COR	H-COR	
AMTH				FA	FA	XRF	
A001	4161	4221	1395	0.001	-0.01	0.04	
A	8656	8717	1396	0.000	0.00	-0.01	
A	9266	9327	1397	0.005	-0.01	0.19	
A	9327	9418	1398	0.003	0.00	0.08	
A	9418	9510	1399	0.002	0.00	0.05	
A	10531	10622	1832	0.003	-0.01	0.01	
A	10622	10805	1400	0.120	0.20	0.15	
A	10805	10897	1833	0.002	0.00	0.04	
/END							

HOLE A8CH006
PLACER DEVEOPMENT LTD.,V116,EASTMAIN.
TWP. 2334 , QUEBEC.
CLAIM NO. 399291-5
GRID NORTH -364.00 GRID EAST 1198.00
GRID AZIMUTH OF HOLE 190.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 225
TOTAL DEPTH OF HOLE: 122.07mt.
Logged by: C.G.Hilgendorf on (day/mo/yr)...27AUG81
Drilled by: Langley Drilling Ltd. (mo/yr)... AUG81
FROM . 0MT. TO .91MT.
OVERBURDEN

FROM .91MT. TO 122.07MT.
dark green BASALT with 10 % AMPHIBOLES 5 % BIOTITE
Textures noted: SCHISTOSE , VESICULAR
Structures noted: MACROVEINS dip 80, MACROVEINS dip 45
1% QUARTZ as macroveins
1% CARBONATE as macroveins
.3% PYRITE as microveins
.01% CHALCOPYRITE as blebs
.01% POTASSIUM FELDSPAR as patches
5% MUSCOVITE as microveins
60% CHLORITE as pervasive mineralization
.3% PYRRHOTITE as microveins

FROM 9.10MT. TO 122.07MT.
100% of this subinterval is the same as .91MT. to 122.07MT. except as noted
BASALT
Structures noted: MACROVEINS dip 60,
.01% PYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals

FROM 65.07MT. TO 67.21MT.
50% of this subinterval is
red green RHYOLITE
Structures noted: BEDDING dip 70,
.01% QUARTZ as macroveins
.01% BIOTITE as microveins
.01% CARBONATE as macroveins
.01% PYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals

FROM 72.09MT. TO 75.13MT.
70% of this subinterval is
medium grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 70,
.01% QUARTZ as macroveins
.01% BIOTITE as microveins
.01% CARBONATE as macroveins
.01% PYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals

FROM 77.88MT. TO 81.84MT.

90% of this subinterval is
med. light grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 70,
.01% QUARTZ as macroveins
1% BIOTITE as microveins
.01% CARBONATE as macroveins
.01% PYRITE as disseminations and scattered crystals
.01% MUSCOVITE as microveins
.01% PYRRHOTITE as disseminations and scattered crystals

FROM 86.56MT. TO 90.53MT.
100% of this subinterval is
dark grey CHERT
Textures noted: BRECCIATED
Structures noted: BEDDING dip 70,
5% BIOTITE as pervasive mineralization
5% PYRITE as massive
5% CHALCOPYRITE as massive
.01% MUSCOVITE as patches
20% PYRRHOTITE as massive
4 FEET GROUND CORE 287 - 290 296 - 297

FROM 94.79MT. TO 96.01MT.
100% of this subinterval is
dark grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 70,
.01% QUARTZ as macroveins
.01% CARBONATE as macroveins
1% PYRITE as veins
BI BN FLATENS 301 FEET

FROM 96.62MT. TO 99.06MT.
80% of this subinterval is
medium grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 70,
.01% QUARTZ as macroveins
.01% CARBONATE as macroveins
.01% PYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals
CORE AT DRILL SITE

IN-HOLE SURVEY AT 122.07 MT.
GRID AZIMUTH OF HOLE 195.00 VERTICAL ANGLE -54.00
TRUE AZIMUTH OF HOLE 230

A001

AUMM				OZ	AUOZ	AG %	CU
ALAB				X-RAY	X-RAY	X-RAY	
ATYP				H-COR	H-COR	H-COR	
AMTH				FA	FA	XRF	
A001	8565	8656	1834	0.002	0.00	-0.01	
A001	8656	8748	1835	0.280	0.43	1.24	
A001	8839	9022	1836	0.460	0.37	0.13	

```
A001  9053  9144       1837 0.001  0.00  0.01
A001  9479  9601       1838 0.007 -0.01  0.09
/END
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HOLE A9CH007
PLACER DEVELOPMENT LTD,V.116,EASTMAIN.
TWP. 2334 , QUEBEC .
CLAIM NO. 399291-5
GRID NORTH -327.00 GRID EAST 1140.00
GRID AZIMUTH OF HOLE 190.00 VERTICAL ANGLE -65.00
TRUE AZIMUTH OF HOLE 225
TOTAL DEPTH OF HOLE: 123.29mt.
Logged by: C.G.Hilgendorf on (day/mo/yr)...31AUG81
Drilled by: Langley Drilling Ltd.(mo/yr).... AUG81

FROM . 0MT. TO 72.85MT.
very dark green BASALT with 10%BIOTITE 10 % AMPHIBOLES
Textures noted: VESICULAR , SCHISTOSE
Structures noted: MACROVEINS dip 60, MACROVEINS dip 45
2.5% QUARTZ as macroveins
1% BIOTITE as microveins
2.5% CARBONATE as macroveins
.3% PYRITE as microveins
.01% CHALCOPYRITE as blebs
.01% POTASSIUM FELDSPAR as patches
70% CHLORITE as pervasive mineralization
.01% EPIDOTE as macroveins
.3% PYRRHOTITE as microveins
SOME VUGS WITH IRON STAIN

FROM 39.32MT. TO 45.42MT.
100% of this subinterval is
very pale red GRANITE
Textures noted: PEGMATITIC
Structures noted: CONTACT dip 70,
PROBABLE APLITE DIKE

FROM 70.41MT. TO 72.85MT.
100% of this subinterval is
very dark green BASALT with PLAGIOCLASE , , and 10%BIOTITE 10 %
AMPHIBOLES
Textures noted: PORPHYRITIC , SCHISTOSE
Structures noted: MACROVEINS dip 60, MACROVEINS dip 45
.01% QUARTZ as macroveins
.01% CARBONATE as macroveins
.3% PYRITE as disseminations and scattered crystals
50% CHLORITE as pervasive mineralization
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 72.85MT. TO 123.29MT.
very dark green BASALT with 20%BIOTITE 20%AMPHIBOLES
Textures noted: VESICULAR , SCHISTOSE
Structures noted: MACROVEINS dip 60, MACROVEINS dip 45
2.5% QUARTZ as macroveins
10% BIOTITE as microveins
2.5% CARBONATE as macroveins
.3% PYRITE as microveins
.01% CHALCOPYRITE as blebs

50% CHLORITE as pervasive mineralization
.3% PYRRHOTITE as microveins

FROM 81.25MT. TO 92.30MT.
100% of this subinterval is
med. light grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 70,
30% BIOTITE as microveins
.3% PYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals

FROM 83.92MT. TO 88.70MT.
100% of this subinterval is
med. light grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 70,
30% BIOTITE as microveins
.3% PYRITE as disseminations and scattered crystals
.3% PYRRHOTITE as disseminations and scattered crystals
5 FEET GROUND CORE 278 TO 283

FROM 96.01MT. TO 99.06MT.
100% of this subinterval is
medium grey TALC
Structures noted: MACROVEINS dip 70,
.01% QUARTZ as macroveins
.01% CARBONATE as macroveins
1 FOOT GROUND CORE 313 TO 315

FROM 100.58MT. TO 102.11MT.
40% of this subinterval is
medium grey CHERT
Textures noted: BEDDED
Structures noted: BEDDING dip 70,
1% PYRRHOTITE as massive

FROM 103.02MT. TO 103.33MT.
100% of this subinterval is
CHERT with 20%BIOTITE
Textures noted: BEDDED
Structures noted: BEDDING dip 70,
.01% PYRITE as microveins
.01% PYRRHOTITE as microveins

FROM 107.90MT. TO 109.12MT.
60% of this subinterval is
RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 70,
20% BIOTITE as microveins
.01% PYRITE as microveins
.01% PYRRHOTITE as microveins
CORE AT DRILL SITE
IN-HOLE SURVEY AT 123.29 MT.

GRID AZIMUTH OF HOLE 174.00 VERTICAL ANGLE -59.00
TRUE AZIMUTH OF HOLE 229

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A001
AUMM                          OZ   AUOZ   AG %   CU
ALAB                          X-RAY X-RAY X-RAY
ATYP                          H-COR H-COR H-COR
AMTH                          FA    FA    XRF
A001 10058 10211      1844-0.001 -0.01  0.07
A    10302 10333      1845 0.000  0.00  0.05
A    10790 10912      1846 0.000  0.00  0.02
/END
```

HOLE A9CH008
PLACER DEVELOPMENT LTD,V.116,EASTMAIN.
TWP. 2334 , QUEBEC .
CLAIM NO. 399291-5
GRID NORTH -343.00 GRID EAST 1064.00
GRID AZIMUTH OF HOLE 190.00 VERTICAL ANGLE -70.00
TRUE AZIMUTH OF HOLE 225
TOTAL DEPTH OF HOLE: 103.78mt.
Logged by: C.G.Hilgendorf on (day/mo/yr)...03SEP81
Drilled by: Langley Drilling Ltd (mo/yr)... SEP81

FROM . 0MT. TO 2.13MT.
OVERBURDEN

FROM 2.13MT. TO 103.78MT.
very dark green BASALT with 20%BIOTITE
Textures noted: VESICULAR , SCHISTOSE
Structures noted: MACROVEINS dip 60, MACROVEINS dip 45
1% QUARTZ as macroveins
1% CARBONATE as macroveins
.01% PYRITE as disseminations and scattered crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
.01% POTASSIUM FELDSPAR as macroveins
70% CHLORITE as pervasive mineralization
EPIDOTE as patches
.01% PYRRHOTITE as disseminations and scattered crystals
BLEACHED 10 TO 11 FEET

FROM 14.94MT. TO 20.73MT.
100% of this subinterval is the same as 2.13MT. to 103.78MT. except as noted
medium green BASALT
20% CARBONATE as pervasive mineralization
40% CHLORITE as pervasive mineralization
BLEACHED ZONE

FROM 17.68MT. TO 17.98MT.
100% of this subinterval is
light green BRECCIA with QUARTZ , ,
Textures noted: BRECCIATED
.01% CHALCOPYRITE as blebs
PROBABLE FAULT ZONE

FROM 20.73MT. TO 27.28MT.
100% of this subinterval is
very pale red GRANITE
Textures noted: PEGMATITIC , BRECCIATED
Structures noted: BANDING dip 70,
BASL BLEACHED AT CONTACTS

FROM 49.07MT. TO 49.38MT.
100% of this subinterval is
pale grey CHERT
Textures noted: BANDED
Structures noted: BANDING dip 70,

FROM 50.14MT. TO 58.06MT.
70% of this subinterval is
medium grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 70,
1% BIOTITE as microveins
1% PYRITE as massive
1% PYRRHOTITE as massive

FROM 63.40MT. TO 63.70MT.
100% of this subinterval is
dark grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 70,

FROM 67.97MT. TO 70.10MT.
80% of this subinterval is
med. light grey RHYOLITE
Textures noted: BEDDED
Structures noted: BEDDING dip 70,
.01% QUARTZ as macroveins
1% BIOTITE as microveins
.01% CARBONATE as macroveins

FROM 78.18MT. TO 79.10MT.
60% of this subinterval is
white QUARTZ VEIN
Structures noted: VEIN dip 60,
.01% PYRITE as blebs
1% CHLORITE as macroveins

FROM 79.67MT. TO 79.71MT.
100% of this subinterval is
MASSIVE PYRRHOTITE
Structures noted: VEIN dip 80,
.01% CHALCOPYRITE as blebs

FROM 81.38MT. TO 82.60MT.
70% of this subinterval is
med. dark grey RHYOLITE
Structures noted: BANDING dip 70,
1% BIOTITE as microveins
CORE AT DRILL SITE

IN-HOLE SURVEY AT 103.78 MT.
GRID AZIMUTH OF HOLE 195.00 VERTICAL ANGLE -69.00
TRUE AZIMUTH OF HOLE 230

A001

AUMM				OZ	AUOZ	AG %	CU
ALAB				X-RAY	X-RAY	X-RAY	
ATYP				H-COR	H-COR	H-COR	
AMTH				FA	FA	XRF	
A001	7818	7910	1847	0.000	0.00	0.01	
A	7955	7986	1848	0.016	0.10	0.94	
A	8138	8260	1849	-0.001	-0.01	0.01	

A P P E N D I X II

List of Sections, looking Grid West, Grid "F", Eastmain
Legend for Sections
Diamond Drill Sections

List of Sections, looking Grid West - Grid "F", Eastmain, Quebec

Section	Includes DDH's
2+00E	82CH25
4+50E	82CH24
10+50E	A9CH008
11+50E	A9CH002 & A9CH007
12+00E	A9CH001, A9CH001A, A9CH003 A9CH006, 82CH17
12+50E (in two parts)	A9CH004, A9CH005, 82CH16, 82CH26
13+00E	82CH18, 82CH27
14+00E	82CH20, 82CH23
15+00E	82CH21
15+50E	82CH14
16+00E	82CH19, 82CH22
16+50E	82CH15
17+00E	82CH09
17+50E	82CH11, 82CH13
18+00E	82CH001
18+50E	82CH02, 82CH12
19+00E	82CH04
19+50E	82CH06
20+00E	82CH08
20+50E	82CH10
28+00E	82CH05
28+50E	82CH03
30+50E	82CH07

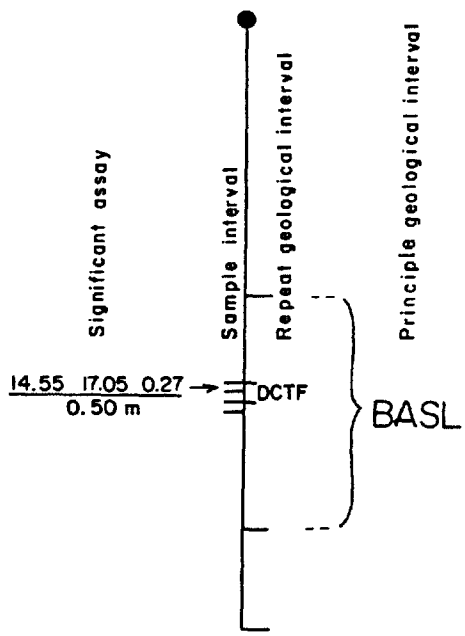
LEGEND FOR SECTIONS , GRID "F", EASTMAIN , QUEBEC

ROCK UNITS (order does not denote age)

			mapped equivalent
INTRUSIVES			
☐	GRAN	Granite	1 G
	GR/D	Granite dyke	1 G dy
☐	GRDR	Granodiorite	1 D
☐	DIOR	Diorite	2D
☐	GABR	Gabbro	3G
	MTGB	Metagabbro	3Gmt
☐	PYRX	Pyroxenite	4Y
☐	PPFQ	Quartz feldspar porphyry	QFP
FLOWS			
☐	RYDC	Rhyodacite	V2
☐	RHYL	Rhyolite	V2
	MTRY	Metarhyolite	V2mt
	PPRY	Rhyolite porphyry	V2p
☐	DACT	Dacite	V4
	MTDC	Metadacite	V4mt
☐	BASL	Basalt	V7
	MTBS	Metabasalt	V7mt
	VABS	Variolitic basalt	V7v
	ALBS	Altered basalt	V7al
	PIBS	Pillowed basalt	V7pi
	FRBS	Fragmental basalt	V7fr
	PPBS	Porphyritic basalt	V7p
TUFFS & SEDIMENTS			
☐	MTSD	Metasediments	
☐	CHER	Chert	
	MTCH	Metachert	
☐	VLCL	Volcanoclastics	VCSX
☐	RYTF	Rhyolitic tuff	V2-T
☐	DCTF	Dacitic tuff	V4-T
☐	MFTF	Mafic tuff	V7-T
	MTTF	Meta tuff	
	ALTF	Altered tuff	
	LPTF	Lapilli tuff	
	CXTF	Crystal tuff	
	CHTF	Cherty tuff	

Additional Descriptive Terms

OVER	Overburden
ACID	Acid dyke
DYKE	Dyke
QZVN	Quartz vein



January, 1983

APPENDIX III

Estimated Expenditures 1982

STATEMENT OF EXPENDITURES FOR 1982 - EASTMAIN RIVER PROJECT. V.116

Camp Operations	$ 22,892.00
Communications	1,839.00
Vehicle Expense	5,695.90
Freight Costs	13,538.68
Travel Costs	22,185.91
Helicopter Costs	96,491.38
Fixed Wing Transportation	83,223.46
Geological Mapping	30,863.83
Core Logging - core splitting, drill supervision	15,775.00
Geological Studies including computer time for drill logs and sections	89,275.03
Assaying	7,877.50
Drilling Costs	377,479.84
Report Preparation	15,767.83
Downhole Geophysics & Deep E.M.	8,075.20
Total	$ 790,980.56

The above figures taken from our records are believed to be an accurate representation of expenditures for drilling, mapping, supervision and report preparation on the Eastmain Project for the year 1982.

PLACER DEVELOPMENT LIMITED

GDJB/of

G.D.J. Boldy
Exploration Manager, Eastern Canada