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RESULTS OF GEOPHYSICS DYMENT LAKE PROPERTY, (PATRIE OPTION) DENYES TWP., PORCUPINE MINING DIVISION, ONTARIO

for

PLACER DEVELOPMENT LTD.

by

J. B. Boniwell

Exploration Geophysical Consultant

November 4, 1984

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INTRODUCTION

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An old gold prospect in the Swayze greenstone belt south-west from Timmins, Ontario was perceived to offer exploration potential due to the evidence of mineral veining and alteration in the vicinity and the relative lack of sampling in the wider environment. After acquisition through option, the property was mapped in full and surveyed systematically by geophysics.

The obtained geophysical results form the basis to this reporting. Their evaluation however is undertaken in conjunction with the known geology, both to strengthen projections and to arrive at a more realistic understanding of the governing mineral controls.



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DESCRIPTION OF THE PROPERTY

The subject property is composed of fourteen (14) contiguous unpatented claims, all nominally of 40 acres each, forming a coherent block in the north centre of Denyes Township, Dyment Lake area, Porcupine Mining Division, Ontario. Within the context of the current ownership, it is known as the Patrige Option. The specific claims involved are:

P 639629 - 642 inclusive.

They are all registered in the name of Placer Development Ltd., Suite 2600, 401 Bay Street, Toronto, Ontario, M5H 2Y4.

Approximately one third of the property area is covered by one end of Dyment Lake which extends to the north and east. The six claims,

P 639635
P 639636
P 639638
P 639639
P 639640
P 639641

are all affected to a greater or lesser degree, the first almost completely. These water claims are only partially covered by the present geophysics, and the portions that are not are necessarily excluded from the ensuing considerations. These missing sections are to be surveyed in from lake ice during the coming winter.

Around the lake, the encompassed terrain comprises a mixture of



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PLACER DEVELOPMENT LIMITED CLAIMS AND LOCATION SKETCH DYMENT LAKE PROPERTY DENYES TWP., ONTARIO

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a swamp (largely to the east) and dry ground, the latter forested and at times lumpy in its relief (1-5 m). Outcrop and near-outcrop conditions typify the southern half of the property; a scatter of outcroppings also appears in the far north-east.

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Access to the claims is best had by float or ski plane to Dyment Lake from either Chapleau or Folyet. The Chapleau-Timmins road passes by 15 kms to the northwest. The main CP trans-continental rail-line lies 30 kms to the southwest.

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DETAILS OF SURVEY

On a grid of lines prepared for the purpose, V.L.F. (radio) em. and magnetic surveys have been conducted to furnish a primary coverage of all the landward claims. Increased detail was given the sector wherein the old prospects existed.

The linecutting, picketing and chaining essential to the grid preparation was undertaken under contract (by Ingemar Explorations Ltd. of Connaught, Ontario). A base-line oriented 120[°]T with two parallel sub-BLS controlled a suite of orthogonal lines spaced variously 100 m and 50 m apart. For this work, the on-line station interval was set at 25 m throughout.

The V.L.F. surveying was effected utilizing the primary (24.0 kHz) transmission of NAA located at Cutler, Maine. Observations of the in-phase and out-of-phase components of the secondary field were carried out with a Geonics model Em-16 receiver appropriately tuned. The on-line reading interval was 12.5 m and this was maintained for all lines including those outside the detailed sector. Measurements were conducted within $\frac{+}{2}$ 1% accuracies.

The magnetic traversing of these same lines was completed at the same 12.5 m station interval. A Geometrics model G-816 proton precession magnetometer supplying a measure of the total terrestrial field to a sensitivity of 1 gamma was employed for the coverage. Corrections for diurnal change were carried out after a standard looping to a base station during the field operation. Final values (Dwg. No. P200-1A) are estimated to be accurate within $\frac{+}{-}5$ gammas overall.

All data after the necessary processing and editing have been compiled



into plans at a scale of 1:2500. The V.L.F. results are displayed in stacked profiles (Dwg. No. P200-2) and also in the customary contoured form after (in-phase) filtering and conversion to the second derivative to define inflection points (Dwg. No. P200-3). The magnetic values have been contoured at a fundamental interval of 20 gammas as the best way to show spatial change (Dwg. No. P200-1).

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DISCUSSION OF RESULTS

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A. Magnetics (Dwg. No. P200-1)

The magnetic results are clearly dominated by a suite of N-S diabase dykes, these manifestly of Matachewan age. Within the grid, they consistently display a dip to the east of about 60° so that their effects in terms of magnetic response are considerably wider than the dyke itself. This is unfortunate insofar as much of the transgressed geology possesses only a low tenor of magnetic relief and many of the subleties of its expression are masked thereby. There is in addition a diabase dyke bearing NE cutting diagonally across the property virtually from the southwest corner to the northeast. It is however less deleterious in its effects, it being younger and evidently not as magnetic.

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The geologic domain most unaffected by all this dyking occupies the southwest corner of the property. Here there appears a major magnetic system with response levels 1000-2000 gammas above the background norm prevailing elsewhere. This regime can be readily identified with a basalt which in its local exposures is regionally sheared but otherwise unremarkable. The north contact to this unit is fairly sharply delineated and well fits the geologic projections.

Beyond this distinction however the magnetics become tentative in making any further discriminations within the volcanic succession. There emerges no consistency for instance to the contrasts which show up from place to place between the intermediate volcanics and the felsic and between them and the mapped felsic intrusions of the area. All are simply too much alike magnetically, it would seem, for any one of them to separate out with a recognizable signature.

Still it would be inappropriate to dismiss all of the changes



registered as unhelpful. For example, there is a weak lithologic contrast being suggested by the 50 gamma differential which occurs at 2+75N across lines 9E to 13E. This has some geologic support locally. A similar contrast appears at 9N/7E, and while it is within geophysical bounds to connect one to the other through a large, presumably synclinal fold as shown, geology for the moment is diffident about this wider extension.

Again, albeit on another scale, attention is drawn to the magnetic low which lies within the intermediate volcanics immediately north of the basalt contact on line 3+50E. This is the centre to a zone of finite extent which on the evidence is anomalous: it is 200-300 gammas lower than what this lithology furnishes on strike to the northeast, and it is not due to dip, (the adjacent basalts dip north); thus it is the only low of its kind in the area. The zone itself remains open to the southwest. Since there is no other explanation, it is speculated that either a magnetite depletion has occurred here or that there is a sudden overburden deepening due perhaps to heavy shearing locally. Either possibility would be promising to local mineral chances, but bordering outcrop geology does not proffer any immediate encouragement.

The main prospect of the area is located at 3+50E/0+75N or that is approximately 250 m from the centre of this low feature. Intervening is an outcropping massive feldspar porphyry, and the quartz veining and carbonatization documented in the showing vicinity do not appear here, at least not in quantity. It is possible that this porphyry occurrence is an intrusive stock to which the showing mineralization and its alteration are peripheral. This eventuality would then place the noted magnetic low on the opposite flank of the intrusion. However the probability that it is related to the showing locality would be far more credible if a magnetic analogy between these two proposed border zones was obvious. This clearly is not the case.



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The magnetic environment of the showing vicinity in fact is a melange of expression crowded by dyking. The ostensible existence locally of contemporaneous NW-SE off-shoots from the main dyke swarm only adds to the confusion. Nevertheless it would seem that the magnetic levels in background which apply here are consistent with those reigning further afield, as for instance to the property east side where similar felsic rocks have been mapped. Certainly there is no unusual lowering of magnetic response which can be observed to this side.

B. V.L.F. (Dwg. Nos. P200-2,3)

There exists considerable V.L.F. response in the area. This outcome is regarded as fairly typical of a regionally sheared bedrock lying below a broadly thin overbuden. Almost all the anomaly systems obtained are due to structure at one scale or another. There may be a case for pure litholgoic contrast in places but there seems little chance that sulphides or other conducting materials in bedrock have produced any of the V.L.F. anomalies recorded in the area.

This finding is based on the evidence of the mapped outcrop and the intrinsic quality of the V.L.F. results themselves. No major sulphides are known in the area, and the possibility of graphite is largely discounted by the lack of a favouring geology except for the mafic volcanics in the south. Most of the V.L.F. events reveal a mediocre conductivity at least, and thus do not inspire projections of mineral sources as cause.

The one mild exception occurs over lines 13E-15E 150 m north of the BL to the property east side. Here the reversed phase relationship associated with the anomaly axis implies an improved inherent conductance. However all is not copasetic, indeed the tendency for the out-of-phase response not to



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return to zero for more than 400-500 m south of this axis supposes that the main factor involved is a resistivity contrast between the two rock units in contact here, that is to say the intermediate volcanic domain to the south is measurably less resistive than the felsic one to the north. That the intermediate rocks have -- paradoxically -- resisted erosion the better can be put down to the more devastating effects glacial plucking has on a competent rock subjected to a regional shearing than on rocks of less competency.

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As it turns out, most of the V.L.F. anomaly systems line up with the schistosities of the environment. As such they are due to slip faults or shears. The major departures from this circumstance immediately qualify as cross-faults, and at least two of these on ENE headings can be recognized. One near grid centre disrupts the diabase dykes and so is well corroborated by the magnetics. Lateral movement appears to have been in the sense north side east. The other 250 m away to the south while not so strongly cast seems to have wrought no displacement laterally.

These cross-structural breaks, although patently younger than the dyking in their latest reincarnations, are seen to have an older history. The main felsic intrusion in the grid south for instance, itself a dyke, is perceived to have been controlled by at least one of these lines of weakness. Thus it is held to be important that the strongest of the two should extend into the centre of the magnetic low of prior emphasis. In other words these structures appear to have exerted an influence on earlier geologic happenings in the area, and this might well have included the gold mineralizing process here.

It ought be pointed out that the Matachewan dyke direction is not well favoured by the primary V.L.F. transmission utilized. In consequence the dykes



EXGALIBUR INTERNATIONAL GONSULTANTS LTD. as in-fillings of pre-existing fracture alignments on this orientation do not domineer these survey results as they do the magnetics, yet there is hint in the data that the odd member of this obvious structural family is trying to express itself. One of the most evident of these occurs to grid west, and suddenly it becomes significant that it too should transgress the magnetic low of note. A lot of structural preparation therefore appears to focus on this sector, and it is not out of order to infer finally that this is where the mineral probabilities of the property concentrate.

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CONCLUSIONS AND RECOMMENDATIONS

Through the consideration of the present geophysical results in consort with the outcrop geology, it is possible to reach the conclusion that the best gold possibilities in the area reside in the grid south-west quadrant close to the property boundary. Here a combination of intersecting structure, a favouring lithology and indications of alteration provides some sense of exploration convergence of which the known prospect is only part. The one serious reservation is that the true centre of this mineralization may lie off the property to the west.

Such a conclusion however is still only a preliminary one. It is paramount that the lake-covered portions of the claims group be surveyed geophysically and the results tied in with the current data set before any decisions are made about drill testing or property worth. Given the proximity of the showing locality to the lake-shore, the prudence of such a move is self-evident.

It is recommended therefore that the existing grid be extended into the lake at the same line and station intervals as their landward terminations provide, at least to 5N proceeding north. If the returned data by this stage have become orderly and predictable, then the detailed line spacing of 50 m might be abandoned, and the standard 100 m separation reverted to for the rest of the coverage. The V.L.F. em. and magnetic surveys themselves ought be conducted as heretofore.

JBB:sb November 4,1984

J. B. Boniwell Exploration Geophysical Consultant.



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APPENDIX

PROPERTY

Patrie Option, Swayze Area

ASSESSMENT INFORMATION

No. of Claims: 14

Location: Denyes Twp., Porcupine Mining Division, Ontario.

	No. of Stations	Line Kms.				
Line-cutting & chaining		23.0				
Magnetic Survey	1835	23.0				
V.L.F. (radio) em. survey	1655	20.5				
Dates of Field Operations: Sep	tember 10 - 21, 1984					
Contractor: Line-cutting etc	Ingemar Exploratio	Ingemar Explorations Ltd.				
	Connaught, Ontario	0				
Geophysical Surveys: Placer Deve	lopment Ltd.					
Data processing, compilation,	Placer Development	t Ltd.				
presentation:	Ste. 2600,					
	401 Bay St.,					
	Toronto, Ontario					
	M5H 2Y4.					
Interpretation and reporting:	Excalibur Interna	tional Cons. Ltd.				
	10 Hurontario St.	1				
	Mississauga, Onta	rio.				
	L5G 3G7					



Personnel:

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- ii) Magnetic & V.L.F. surveys
 - F. Faulkner
 - D. Andreson
- iii) Data processing, presentation
 - F. Faulkner
 - J. Wilson
 - iv) Interpretation, reporting
 - J. B. Boniwell
 - R. T. Marcroft
 - S. Blunt



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REPORT ON

GEOLOGICAL & GEOCHEMICAL SURVEYS

DYMENT LAKE PROPERTY

DENYES TOWNSHIP, ONTARIO

VENTURE 200

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PLACER DEVELOPMENT LIMITED

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November, 1984 Toronto, Ontario



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SUMMARY

The Dyment Lake Au property consists of 14 unpatented claims, 639629 to 639642 inclusive, located on the southwestern shore of Dyment Lake in Denyes township, Porcupine Mining Division, District of Sudbury, Ontario.

Placer Development Limited completed 23 km of survey line, geological mapping at a scale of 1:25, 23 km of ground magnetics, 20.48 km of V.L.F., 6.6 km of humus sampling, and submitted 39 rock samples for assay as well as 5 samples for whole rock geochemistry.

The results of the Sampling of the main trenches indicate subeconomic values. The highest assay is from a grab sample of quartz vein material with 5% green chlorite filled fractures. This sample was collected during the property examination and assayed, 43.42 grams/tonne (sample No.7327). The sampling of the main trenches gave 2.81 g/t from a chip sample in trench TR#2 (sample No.7555).

The humus survey located the gold showing with a spot high of 350 ppb Au.

The ground geophysical surveys outlined a zone of magnetite depletion on the western portion of the claims, and a weak V.L.F. anomaly on the eastern portion of the claims (Boniwell, 1984).

Recommendations:

- i) The grid to be extended to cover the claims on the lake with magnetic and V.L.F. surveys.
- ii) A test I.P. survey be completed over the main showing and along the shear zone, as well as the zone of magnetic depletion and the weak V.L.F. anomaly.
- iii) A limited amount of diamond drilling (800 m) be completed under the main showing and to test any anomalies located by the I.P. survey.

1.

INTRODUCTION

Location and Access

The Dyment Lake property consists of 14 unpatented claims, 639629 to 639642 inclusive, optioned from Messrs. J. Patrie and C.E. Bye on August 21, 1984. These claims are located in Denyes township on the southwestern shore of Dyment Lake in the Porcupine Mining Division, District of Sudbury, Ontario. (Figure 1)

Access to the property is by fixed wing from Ivanhoe Lake (Theriault's Air Ivanhoe Ltd.) in the summer and by helicopter from Timmins or fixed wing from Cochrane in the winter. The Ivanhoe Park road, Sultan road or Kormack road allow access to within 10 km of the claims.

Topography

The property is covered by water to the north and by large cedar swamp to the east. The southern portion is a spruce, birch and pine forest. There is approximately 10-15% outcrop exposed on the property. Outcrop on the eastern portion of the property forms low ridges and is covered by 1 to 5 cm of moss. Outcrop on the south and western portions of the claims also form low ridges, but these ridges are well covered by 5 to 20 cm of moss and soil.

PREVIOUS WORK

There has been very little government geological mapping in this area. The most recent mapping was by J.F. Donovan and assistants in 1968. The most recent work was a geophysical airborne survey released by the government in 1980.

The Dyment Lake gold showing was visited by H.C. Rickaby (1932) and his report represents the only record of the original work on the Dyment Lake gold showing.

This gold showing was staked in the summer of 1932 by Joseph Beaumont for Dyment Mining and Investments Limited. This company held a group of 31 claims from 1932 to 1934. They completed numerous trenches and a series of short drill holes with an aggregate total of 1000 ft. of drilling, underneath and along strike of the main showing.

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PLACER DEVELOPMENT LIMITED CLAIMS AND LOCATION SKETCH DYMENT LAKE PROPERTY DENYES TWP., ONTARIO

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The Ontario Department of Mines (Rickaby, 1935) reported that native gold was visible along fractures within a milky-white quartz. Galena, specularite and chalcopyrite were also noted in the vein material. According to the same report work was discontinued because the diamond drilling results were not encouraging.

In 1968 Umex completed an airborne magnetic survey which illustrates a strong east-west magnetic trend about 1 km south of Dyment Lake. There was no magnetic response from the area of the gold showing.

The next company to work in this area was Scan Exploration who filed ground geophysics, magnetics and E.M.17. This report describes the gold showing from governments reports, but no mention was made of any sampling or assaying by Scan.

The last known company to work in this area was Claw Lake Molybdenum Mines in 1972. A geophysical survey of magnetics was completed over 41 claims (Group 3) in the Dyment Lake area. This work was contracted to Canadore Exploration and no interesting results were obtained. There was no mention of any other work on these claims.

The only diamond drilling in the area since Dyment Mining in 1933 was completed by Mattagami Lake Mines (1960's) who drilled a hole located approximately 3 km northwest of the Dyment Lake property. The hole was drilled to test a geophysical anomaly and intersected dacite tuffs and argillites. There were no economically significant gold values.

CURRENT WORK

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Placer Development Limited completed linecutting, geochemical, geophysical and geological surveys over the Dyment Lake property from September 12 to October 5, 1984.

A total of 23 km of survey line was cut and chained by Ingamar Explorations Ltd. The base line trends at 120° with lines cut 90° to the base line. The grid was cut with lines at 100 m intervals except over the main showing where lines were spaced at 50 metre intervals.

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The geophysical surveys consist of 23.0 km of ground magnetics using a Geometrics G-816 proton magnetometer, and 20.48 km of V.L.F. with a Geonics E.M.16 using station NAA (24.0 khz), Cutler, Maine. Readings were taken at 12.5 metre intervals for both surveys.

The geology was mapped at 1:2500 scale with the outcrops tied to the survey grid. Most of the outcrops on the property required hand stripping because of the 2-5 cm moss cover.

The geochemistry consists of a humus survey and assay samples from trenches. The humus survey was completed over the main showing (263 samples) 6.6 km of the grid. These samples were assayed by neutron activation for Au and As (Appendix II). The old Dyment Mining trenches were blasted and sampled, also two new trenches were established.

Five samples from different lithologies were submitted for whole rock analysis.

GEOLOGY

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Denyes township is located on the west central portion of the Swayze-Deloro Metavolcanic-Metasedimentary Belt. This area is underlain by both metavolcanics and metasediments of Archean Age.

The northern portion of Denyes township near Denyes Lake is underlain by metasediments, chiefly polymitic conglomerates intermixed with felsic metavolcanics (tuffs, lapilli tuffs).

The central portion of Denyes township is underlain by mafic metavolcanics (massive basalts) and felsic metavolcanics (tuffs and crystal tuffs).

The southern portion of Denyes township is underlain dominantly by intermediate metavolcanics (tuffs, felsic metavolcanics and minor metasediments).

There is evidence from the airborne magnetics of a fold structure with an east-west trending axis which cuts the middle of Dyment Lake. There also appears to be a N-S fault which parallels the southeastern bay of Dyment Lake. This proposed fault has offset magnetic basalt which was observed south of Dyment Lake. There is also a strong NE-SW trending magnetic feature which is interpreted to be a diabase dyke which is located north of Dyment. The regional geology is illustrated in Figure 2.

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LEGEND

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Metasediments

Felsic metavolcanics

Intermediate metavolcanics

Mafic metavolcanics

Lithological contact

- Diabase dyke

------- Syncline

Compiled by D.D.D. & C.K., 1984

PLACER DEVELOPMENT LIMITED REGIONAL GEOLOGY DENYES TWP., ONTARIO

V 195 October,1984

NTS 41-0-15

Figure 2

PROPERTY GEOLOGY

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The Dyment Lake property is underlain by metavolcanic rocks with a range in composition from mafic to felsic. In general, the metavolcanics strike east-west across the property and dip to the north at approximately 60°. These rocks are cut by north-south trending diabase dykes. There were no reliable top indicators observed during the mapping but, based on regional work, the sequence appears to top to the north. The stratigraphic sequence is illustrated in Figure 3.

There is some late stage faulting which has offset the mafic metavolcanics and diabase dykes. It is believed that the intense shearing and carbonatization in the felsic volcanic rocks south of Dyment Lake is the result of a local shear zone which trends eastwest (080°-090°). The quartz and quartz-carbonate veins which host the gold strike at a slight angle to the main foliation. The veins strike 120°. These veins also appear to have an en echelon form across sheared felsic metavolcanics.

The rocks observed during the mapping have been subdivided into five (5) lithologies, i.e. mafic metavolcanics, intermediate metavolcanics,felsic metavolcanics, felsic meta intrusives and diabase dykes. The property geology is illustrated in map Dwg.No.200-4.

Mafic Metavolcanics:

The mafic metavolcanics are massive to strongly sheared basalts. The basalt is fine to medium grained, dark green to black, soft, weakly carbonated, strongly magnetic and may contain 1 to 3% euhedral pyrite crystals (1-3 mm). The basalts form a good marker unit because of their strong magnetic character. The basalts appear to strike 110-120°. The foliation appears to strike 90-120° and dip to the north at approximately 60°. The basalts are found on the southwestern portion of the claim group.

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PRECAMBRIAN (ERA)

Figure 3

Intermediate Metavolcanics:

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The intermediate metavolcanics appear to be pyroclastic rocks from agglomerate to lapilli tuff. The agglomerate is green to light green, soft, weakly carbonatized, locally silicified, non-magnetic, contains fragments of feldspar porphyry, 5-40% fragments from 1 to 25 cm in size. The matrix of the agglomerate contains 10-20% feldspar crystals (1-3 mm) with 5-10% chlorite clots. There were no quartz "eyes" observed in this rock type. The tuff is the same composition as the agglomerate except no fragments larger than 1 cm were observed in this rock type. Well developed banding was not observed in the tuffs.

The pyroclastic unit appears to thin and become fine grained to the west. The unit varies from weakly to strongly foliated and foliation strikes 080°/60° N. Narrow quartz veins have been observed near the contact between the diabase dyke and this unit on the eastern side of the property. No sulphides were observed in these veins, but representative samples were selected for assay.

Felsic Metavolcanics:

The felsic metavolcanics can be subdivided into a massive, feldspar porphyry and a strongly sheared and carbonatized feldspar porphyry. The massive feldspar porphyry is light green to grey, 20-40%, 1-4 mm feldspar phenocrysts in an aphanitic matrix. Some outcrops show weak carbonate, chlorite or sericite alteration along with 1% pyrite as euhedral crystals.

The strongly sheared and carbonatized feldspar porphyry varies from weakly porphyritic to aphanitic where the shearing is intense. This rock type weathers brownish-orange (pale green on fresh surface) is fine grained to porphyritic, soft with some sections containing 1-3% euhedral pyrite as disseminations. This unit is also the host for the quartz and quartz carbonate veins which contain the gold.

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Felsic Meta-Intrusives:

The felsic meta-intrusives appear to only cross-cut the basalts and are similar in composition to the overlying pryoclastic rocks. These rocks are interpreted as subvolcanic feeder dykes for the intermediate to felsic volcanism. This porphyry is dark grey to grey, hard, in sharp contact with the basalt, 20-30% quartz and feldspar phenocrysts (1-2 mm), and 5% chloritized mafic mineral. This unit does not appear to contain any sulphides.

Diabase Dykes:

The diabase dykes cross-cut all of the lithologies observed on the property. The dykes trend NW to SE, but some have been offset by faulting. The diabase is dark to black weathering to a chocolate brown, medium to find grained with well developed chilled margins. These dykes are all strongly magnetic and almost all contain 1% or less pyrite as disseminated crystals.

ECONOMIC GEOLOGY

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The quartz veins are situated in a highly sheared and altered felsic metavolcanic (feldspar porphyry). The quartz veins trend approximately 120°/85° N. There does not appear to be any significant plunge to the veins. The veins also appear to form an en echelon pattern across the shear zone. Quartz veins have been observed over a strike length of 350 m. These veins are discontinuous but appear to be on strike. The shear zone is approximately 150 metres in width.

The quartz vein material is a milky-white with 1-5% chlorite along fractures and up to 1% pyrite as disseminations and up to 15% patches of carbonate. The vein with the most abundant carbonate was observed in the pit located at L1+10E,0+70N. The quartz vein material from the main pit (L3+50E, 0+75N) contains very little carbonate.

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GEOCHEMISTRY

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Trenching and Sampling:

The Dyment Mining Company carried out a large amount of trenching in the Dyment Lake area. The old trenches which exposed quartz veins were drilled and blasted so that the bulk samples could be taken. Chip samples were also taken from the main trenches. A total of 21 samples of various widths were taken from the old pits and trenches. The main showing sample locations are illustrated in Dwg.No.200-5.

The geological mapping located a series of 1-3 cm parallel quartz veins with microveins of dark green chlorite. This trench is located on L9+00E, 0+50S. These veins were observed for a width of 3 m, but appeared to only strike about 0.5 m. Three samples were taken from this trench, 3 m wide bulk sample, 3 m wide chip and a grab sample of the quartz vein material.

A trench was cut into the sheared and carbonatized porphyry to test its gold potential. This trench is located 15 m east of L4+00, 0+75N and is on strike with the main showing. Fifteen, one metre chip samples were collected from this trench.

Results of Sampling

The results of the samples taken from the old and new trenches is contained in Table I. The best assay results were obtained from samples of quartz vein material from the main gold showing. Samples 7555 assayed 1926 ppb (1.93 g/t) average of 3 pulps. The highest assay value 2810 ppb Au(2.81 g/t) from pulp number 2. The other anomalous gold assay is from sample 7576. This sample of quartz vein material assayed 1448 ppb Au(1.45 g/t).

All the samples of altered feldspar porphyry assayed less than 1000 ppb Au. This even includes the altered porphyry samples which contain 2-3% disseminated feldspar. The assay results are summarized in Table 1, and all of the results are contained in Appendix I.

contd. ...

DYMENT LAKE SAMPLE LOCATION AND ASSAY DATA								
Sample No.	Location	Trench	Sample Type	Width Netres	yn Yn	ybw Yd	Cu ppm	λs ppa
7551	L3+75E 0+70N	Tr #1	Bulk qv	1.0	10	•	-	-
7552	L3+68E 0+69N	Tr #2	Bulk fpqv	3.0	142	-	-	-
7553	L3+70E 0+69N	Tr #2	Chip qv	0.5	10	Níl	9	7
7554	L3+70E 0+68N	Tr #2	Chip fp	1.5	522	-	-	
7555	L3+70E 0+67N	Tr #2	Chip qv	0.5	1926	1.1	24	37
7556	L3+70E 0+69N	Tr #3	Bulk qv	3.0	310	=	-	-
7557	L3+69E 0+69N	Tr #4	Bulk fpqv	3.0	307	-	-	-
7558	L3+75E 0+70N	Tr #1	Chip qv	1.0	40	N11	11	4
7559	L3+09E 0+69N	TF #4	Chip qv	1.0	835	N11	12	8
7560	L4+15E 0+65N	PDL Tr #1	Chip fp	1.0	10	N11	69	4
7561	L4+15E 0+66	PDL Tr #1	Chip Ip	1.0	NIL	NIL	54	10
7562	L4+15E 0+67	PDL Tr #1	Chip fp	1.0	N11	N11	6	
7563	L4+15E 0+68	PDL Tr #1	Chip fp	1.0	NIL	NII	, y	
7504	1 744T2E 040A	PDL TF #1	Chip Ip	1.0	NII	NIT.		3
7565	L4+15E 0+70	PDL TF #1	Chip ip	1.0	NIL	NIT		
7566	L4+15E 0+71	PDL Tr #1	Chip fp	1.0	10	NIL	13	
7567	L4+15E 0+72	PDL Tr #1	Chip fp	1.0	NII	NIL	13	
7568	L4+15E 0+73	PDL TT #1	Chip fp	1.0	NII	NII	14	
7569	L4+158 U+74	PDL TF #1	Chip Ip	1.0	NII	N11	10	14
7570	L4+15E 0+75	PDL Tr #1	Chip fp	1.0	NII	NII	10	15
7571	L4+15E 0+76	PDL TE #1	Chip Ip	1.0	N11 .	NIL	12	
7572	L4+15E U+77	PDL TT #1	Chip Ip	1.0	13	NII	14	
15/3	L4+155 0+78	PDL TP #1	Chip ip	1.0	NII	NII	10	
7574	L4+15E 0+79N	PDL TT #1	Chip fp	1.0	NII	NII	10	11
7575	LJ+JUE U+DON	TF #3	Bulk fpqv	3.0	1440	~~ =	-	
10/0	L3+305 0+33N	TE #3	Chip dv	1.0	1440	V.5 N41	27	13
12//	134305 0400N	TE 93	Chip Ip	2.0	33	111	31	51
7570	134405 0470N	TE #0	Chip ip	0.25	15	-		
73/3	11,150 0,07N	36 9 7	BUIK QV	0.25	N41	N11	22	-
7580	TT4125 040\U	11 #0	DULK YV	0.3			~~	3
7581	L3+57E 0+74N	GB. #1	Grab qv	-	350		-	10
7582	L3+57E 0+74N	GB. #2	Grab qv	-	80	NII	N	4
7583	L3+55E 0+79N	GB. #3	Grab qv	-	10	NIL		8
7574	L3+48E 0+80N	GB. #4	Grab qv	-	NIL	NIL	12	
7585	L3+47E 0+82N	GB. #5	Grab gv	-	NIL	NIT		3
7586	L3+47E 0+89N	GB. #6	grap dv	· •	72	NTT -		11
7587	L9+00E 0+508	PDL Tr #2	Chip qv	3.0	NIL	NII	13	2
7588	L9+00E 0+508	PDL Tr #2	BUIK QV	3.0	10	NII	11	
7589	L9+00E 0+508	PDL Tr #2	areb da	•	20	NII	U	2

TABLE 1 YMENT LAKE SAMPLE LOCATION AND ASSAY DATA

HUMUS SURVEY

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A humus survey was completed over the main showing area and on strike to the east to try and better define the gold potential of the property. A test survey of 262 samples were collected on the 50 m line with sample sites at 25 m intervals.

The sampling procedure was to scrape away living vegetation using a plastic spoon and collect the dark grey to dark brown humus, excluding twigs. In most cases the humus material consisted of decaying moss and pine or spruce needles. The sample was then placed into a cotton gauze bag and the station and line number recorded on the bag. The gauze bags were chosen because they allow the humus material to dry faster and there is no breakdown of the humus material.

Results of Humus Sampling:

The humus survey confirmed the known gold zone, but did not detect any new ones. There was only a spot high of 350 ppb from a sample located at the site of the main trenches. (L3+50E, 0+75E). The results of the humus survey are illustrated on maps Dwg.No.200-6 & 7. From the completed survey there does not appear to be any correlation between gold and arsenic. The results and method of analysis flow chart are contained in Appendix II.

LITHOGEOCHEMICAL SAMPLES

Three samples of felsic metavolcanics, sample nos.7331, 7332, 7334, and two samples of intermediate metavolcanics, sample nos.7333, 7336 were selected for and analyzed for standard oxides and trace elements.

A Jensen cation plot of these samples indicates that these rocks are all very similar in composition. These rocks fall into the calcalkaline rhyolite-dacite group. The Jensen plot and the whole rock analysis data are contained in Appendix III.

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RECOMMENDATIONS

It is recommended that the grid lines be extended to cover the water claim. Lines should be extended to the T.L. 9+00N, and lines be 100 m apart. Both magnetic and V.L.F. should be completed over the grid and the surveys be tied into the existing geophysical surveys.

A limited I.P. survey should be completed over the proposed strike of the shear zone and also test zone of magnetite depletion, and weak V.L.F. response. The I.P. survey should cover approximately 10 km of the grid. The survey should cover the area of interest on 100 m with an n = 25 m and a = 1, 2, 3, 4.

A limited amount of diamond drilling (800 m) in four or five holes be completed - three over the Au showing and two for testing any I.P. or other geophysical anomalies of interest.

Respectfully Submitted,

C.G. Keech, Geologist

CGK/of

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REFERENCES

Assessment file data from Timmins, Ontario T-2157 Claw Lake Moly Mines T-2071 Scan Exploration T-1732 Umex T-1709 Mattagami Lake Mines, Group VII Boniwell, J.B. 1984 Results of Geophysics Dyment Lake Property (Patrie Option) Denyes Twp., Porcupine Mining Division, Ontario for Placer Development Ltd. accompanied by Maps P.200-1A, 1,2,3, scale 1:2500 Donovan, J.F. Geology of Holcrow-Ridout Lakes Area; District 1968 of Sudbury; Ontario Dept.of Mines; GR.63, 45 p. Accompanied by Maps 2120 and 2121, scale $1''=\frac{1}{2}$ mile Ontario Geological Survey Airborne Total Intensity Magnetic Survey, Swayze 1982 Area, Vice Lake Sheet, District of Sudbury; by Questor Surveys Ltd. for the Ontario Geological Survey, Map 80-540, Geophysical/Geochemical Series, Scale 1:20,000 Ontario Geological Survey 1982 Airborne Total Intensity Magnetic Survey, Swayze Area, Cree Lake Sheet, District of Sudbury; by Questor Survey Ltd. for Ontario Geological Survey, Map 80-541, Geophysical/Geochemical Series, Scale 1:20,000 Rickaby, H.C. Geology of the Swayze Gold Area, in Forty Third 1934 Annual Report, Ontario Department of Mines, Vol.43, Pt.3, pp.1-36 (published 1935) accompanied by map 43b, scale l'' = l mile. Thurston, P.C., Siragusa, G.M., Sage, R.P. Geology of the Chapleau Area, Districts of Algoma, 1977

Sudbury and Cochrane, Ontario, Division of Mines, Geoscience Report 157, accompanied by map 2221, Scale 1" = 4 miles.

APPENDIX I

Geochemical Analyses

	Øer	TICAL CHEMIST	s • Assayers • nalysis	CONSULTANTS	
Certificate No5	8854		Date: Oct.	.12, 1984	
Received Oct.6	, 19848	Samples o	f_ore		
Submitted by	Placer Development	Ltd., Toronto,	Ontario	·	
	-	· · · · · · · · · · · · · · · · · · ·	,	Proi#198	
	SAMPLE NO.	GOLD PPB	GOLD PPB "A"	GOLD PPB "B"	
	7551	10	10		
	7552	155	130		
	7554	1010 755	230	275 340	
	7556	310 400	220		
	7557	325 295	300		
	7575	20	25		
	7578	5	Nil		
	7579	10	20		

NOTE: The above samples were assayed in duplicate.

Ebel Per_ G. Lebel, Manager

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SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1TO TELEPHONE: (705) 642-3244 ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 58853 Date: Oct. 15. 1984						
Received	Oct. 6, 1984	31	Samples	of <u>one</u>		
Submitted b	yPlacer Deve	logment. Ltd	Toronto,	Ontario	Att: C. Keech	proj#198
					Deg.	elof2
	SAMPLE NO.	GOLD PPB	SILVER PPM	COPPER PPM		
	7553	10	Nil	9	· ·	
:	7555 second pulp	1340 1300 2400 2810	1.1	24	•	
	third pulp	1/80				
	/558	40	NIL	11		
	7559	850 820	Nil	12	·	
	7560	10	Nil	69		
	7561	Nil	Nil	54	•	
	7562	Nil	Nil	6		
	7563	Nil	Nil	9		
	7564	Nil	Nil	6		
	7565	Nil	Nil	5		
	7566	10	Nil	13		
	7567 ·	Nil	Nil	13		
	7568	Nil	Nil	14		
	7569	Nil	Nil	18		
	7570	Nil	Nil	10		

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Per. G. Lebel, Manager

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SWASTIKA LABORATORIES LIMITED P.O. BOX 10, SWASTIKA, ONTARIO POK 1TO TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. <u>58853</u>			Date: <u>Oc</u>	t. 15, 198	4
Received6, 1984	31	Samples of	_ ore		
Submitted by	ent Ltd.,	Toronto, Onta	rioAtt:	C. Keech	proj#198
		an a	page	2 of 2	
SAMPLE NO.	GOLD PPB	SILVER PPM	COPPER PPM		
7571	Nil	Nil	15		
7572	15	Nil	12		
7573	Nil	Nil	8	-	
_7574	Nil	Nil	10		
7576	1370	0.5	9		
second pulp	1645 1510 1270				
7577	95	Nil	37		
7580	Nil	Nil	22		
7581	350	Nil	15		
7582	80	Nil	8		
7583	10	Nil	6		
7584	Nil	Nil	12		
7585	Nil	Nil	7		
7586	90 100	Nil	6		
7587	Nil	Nil	13		
7588	10	Nil	11		
7589	20	Nil	8		

NOTE: Arsenic results to follow.

NOTE: The above samples were assayed using a 1 A.T. portion with results as shown.

Per.

G. Lebel, Manager

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TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No.	58853-A		Date:	November 9	1984	
Received Oct	t. 6/84	31	Samples of Ore			
Submitted by	Placer Developm	ent Ltd., Tor	onto, Ontario	Proj. V198	Att'n: Mr. (<u>C.</u> Keec

SAMPLE NO.	ARSENIC PPM	SAMPLE NO.	ARSENIC PPM	
7553	7	7577	51	
27755	37	~7580	3	
7758	4	7581,	10	
7559	8	7582	4	
7560	. 4	7583	8	
7561	10	7584	. 7	
7562	5	7585	3	
7563	2	7586	11	
7564	5	758 7	2	•
7565	4	7588	1	
7566	4	7589	2	
7567	13 .			
7568	14			`
7569	14			
7570	15			
7571	17			
7572	21			
7573	12			
7574	11		•	
> 7576	13			

Per G. Lebel -- Manager

ESTABLISHED 1928

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SWASTIKA LABORATORIES LIMITED P.O. BOX 10, SWASTIKA, ONTARIO POK 1TO TELEPHONE: (705) 642-3244 ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS Uprtificate of Analysis					
Certificate No. <u>57935</u> Received June 12, 1984 <u>5</u> Submitted by <u>Placer Development Lt</u>	Sam d., Toronto	Dataples of <u>ore</u>	e:June 20. 1984 per: C. Keech		
SAMPLE NO.	GOLD PPB	SILVER PPM			
· 7327	43610 43235	11.8	DYMENT LAKE Grab sample from main trenches		

NOTE: Arsenic results to follow.

m Per G. Lebel, Manager

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APPENDIX II

Humus Survey Analyses

Figure 1 - Humus material and briquettes suitable for irradiation and analysis by INAA

Figure 2 - Flow chart for biogeochemical analysis by INAA

X-RAY ASSAY LABORATORIES

RECEIVED NOV - 2 1984

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX 06-986947

CERTIFICATE OF ANALYSIS

TD: PLACER DEVELOPMENT LIMITED ATTN: CHRISTOPHER KEECH P.O. BOX 66 401 BAY STREET, SUITE 2600 TORONTO, ONTARIO M5H 2Y4

CUSTOMER NO. 474

DATE SUBMITTED 9-0CT-84

REPURT 22815

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REF. FILE 18383-

262 HUMUS PROJ. V-200

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	NA	1.000
AS PPM	NA	1.000

DATE 29-0CT-84

X-RAY ASSAY LABORATORIES LIMITED CERTIFIED BY

X-RAY ASSAY LABORATORIES 29-OCT-84 REPORT 22815 REF.FILE 18383- PAGE 1 OF 6

••••		27 001 01		
	SAMPLE	AU PPB	AS PPM	
L0+	00-0+43N	2	6	
L0+(00-0+25N	3	5	
10.	0.0.000	•	•	

L0+00-0+00N	3	3
L0+50E-0+75N	4	5
L0+50E-0+50N	2	5
L0+50E-0+25N	7	4
L0+50E-0+00	2	3
L0+50E-0+25S	2	3
L0+50E-0+50S	<1	4
L0+50E-0+75S	1	3
L0+50E-0+96S	2	5
L1+00E-1+25N	2	5
L1+00E-1+00N	3	4
L1+00E-0+75N	1	6
L1+00E-0+50N	3	6
L1+00E-0+25N	5	7
L1+00E-0+00	2	6
L1+00E-0+25S	<1	3
L1+00E-0+50S	1	3
L1+00E-0+75S	1	3
L1+00E-1+00S	<1	4
L1+00E-1+25S	1	3
L1+00E-1+51S	<1	2
L1+50E-1+75N	2	6
L1+50E-1+50N	1	4
L1+50E-1+25N	<1	3
L1+50E-1+00N	2	4
L1+50E-0+75N	1	4
L1+50E-0+50N	2	3
L1+50E-0+25N	2	1
L1+50E-0+00	1	3
L1+50E-0+25S	4	8
L1+50E-0+50S	3	5
L1+50E-0+75S	2	3
L1+50E-1+00S	1	3
L1+50E-1+25S	3	4
L1+50E-1+50S	7	3
L1+50E-1+755	4	5
L1+50E-2+00S	<1	3
L1+50E-2+25S	<1	3
L2+00E-1+75N	4	6
L2+00E-1+30N	3	
	2	4 5
12+000-1+000	с Э	2
	د ۲	5
	د ۲	2 A
	2	יד ג
L 2+00E-0+05	د ج	ر ۲
1 2+00E=0+50C	ر د	e D
LE: 00L 01/03	т	0

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K-RAY ASSAY LABORATORIES 29-OCT-84 REPORT 22815 REF.FILE 18383- PAGE 2 OF 6

ASSAY	LABORATORIES	29-0CT-84	REPORT 22
	SAMPLE	AU PPB	AS PPM
L2+	00E-0+75S	1	 6
L 2+	00E-1+00S	- 3	4
L2+	00E-1+25S	4	7
L2+	00E-1+5US	4	4
L2+	00E-1+75S	2	8
L 2+	00E-2+00S	2	5
L2+	0UE-2+25S	5	7
L 2+	00E-2+50S	1	5
L2+	00E-2+75S	5	6
L2+	00E-2+935	5	6
L2+	50E-1+50N	9	4
L2+	50E-1+25N	3	5
L2+	50E-1+00N	12	4 -
L2+	50E-0+75N	2	3
L2+	50E-0+50N	2	7
L2+	50E-0+25N	2	5
L2+	50E-0+00	4	4
L2+	50E-0+25S	3	5
L2+	508-0+505	<1	4
L2+	50E-0+75S	3	5
L2+	50E-1+00S	3	3
L2+	505-1+25S	3	6
L2+	50E-1+50S	1	7
L2+	50E-1+75S	2	- 4
L 2+	50E-2+005	4	5
L2+	50E-2+255	2	2
L2+	505-2+505	3	1
1.2+	505-2+755	1	2
13+	00E-2+003	2	1
131	00E-2+00N	2	0
13+	00E=1+50N	2	2
13+	00E-1+25N	<1	1
13+	00E-1+00N	<1	4
L3+	00E-0+75N		4
L3+	00E-0+50N	2	5
L3+	00E-0+25N	2	4
L3+	00E-0+00	3	7
L3+	00E-0+25S	3	6
L3+	00E-0+50S	2	4
L3+	00E-0+75S	4	10
L3+	00E-1+00S	4	7
L3+	00E-1+25S	1	6
L3+	00E-1+50S	2	6
L3+	00E-1+75S	3	6
L3+	00E-2+00S	2	2
L 3+	002-2+255	1	2
L3+	00E-2+50S	6	5
L3+	00E-2+75S	2	5
L 3+	00E-3+00S	3	2

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SAMPLE	AU PPB	AS PPM
L3+50E-1+96N	2	3
L3+50E-1+75N	1	7
L3+50E-1+50N	2	2
L3+50E-1+25N	3	4
L3+50E-1+00N	7	2
L3+50E-0+50N	7	2
L3+50E-0+25N	3	6
L3+50E-0+00	2	4
L3+50E-0+25S	2	4
	1	4
L3+50E-0+758N	350	13
L3+50E-0+75A-5	3	5
	4	4
	4	4
		3
L3+50E=1+725 13+50E=2+00S	2	5
13+505-2+255	2	3
13+505-2+505	4	3
13+50E-2+755	1	3
13+50E-3+00S	1	3
L4+00E-1+50N	2	6
L4+00E-1+25N	ĩ	6
L4+00E-1+00N	2	3
L4+00E-0+75N	2	6
L4+00E-0+50N	8	7
L4+00E-0+25N	1	3
L4+00E-0+00	2	3
L4+00E-0+25S	2	5
L4+00E-0+50S	<1	6
L4+00E-0+75S	3	6
L4+00E-1+00S	2	5
L4+00E-1+25S	<1	7
L4+00E-1+50S	2	5
	2	6
L4+90E-2+90S	1	6
L4+00E=2+255	2	2
		2
	2	2
L 4+50E-1+75N	2	6
L4+50E-1+50N	3	ž
L4+50E-1+25N	2	6
L4+50E-1+00N	6	6
L4+50E-0+75N	1	2
L4+50E-0+50N	1	3
L4+50E-0+25N	1	6
L4+50E-0+00	1	4
L4+50E-0+25S	1	5
L4+50E-0+50S	3	3

X-RAY ASSAY LABORATORIES 29-OCT-84 REPORT 22815 REF.FILE 18383- PAGE 4 DF 6

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AJJAI	LABORATORIES	29-001-04	ACPUNI 2201
	SAMPLE	AU PPB	AS PPM
L4+5	08-0+755	1	4
L4+5	0E - 1 + 0 0 S	1	5
L 4+5	0E-1+255	<1	4
L4+5	0E-1+50S	17 -	2
L4+5	0E-1+75S	1	3
L 4+5	0E-2+00S	3	7
L4+5	0E-2+25S	2	4
L4+5	0E-2+50S	1	2
L4+5	0E-2+755	3	3
L4+5	50E-3+00S	2	6
L5+0	00E-2+00N	2	4
1.5+0	0E-1+75N	20 2	7
1.5+0	0E - 1 + 5 0 N	1	2
15+0	05-1+25N		4
1.5±0	DE-1+00N	1	т 6
1510	000-1700N	1	5
		1	5
10+0	000-0+00N	1	2
L 5+0	DUE-0+2 DN	1	
L5+0	00E-0+00	L	4
L 5+0	002-0+255	L	5
L5+0	00E-0+50S	1	3
L5+0	DOE-0+755	1	7
L5+0	00E-1+00S	1	7
L5+0)0E-1+25S	1	4
L5+0	00E-1+50S	1	6
L5+0) OE -1 +7 5 S	<1	6
L5+0)UE-2+00S	2	5
L5+0)0E-2+25S	1	3
L5+0) OE - 2 + 5 OS	1	5
L5+0	08-2+755	2	4
L5+0) 0E - 3 + 0 0 S	1	5
L 5+5	50E-2+00N	2	8
L 5+5	50E-1+75N	1	10
L5+5	50E-1+50N	1	8
L 5+5	50E-1+25N	1	4
L 5+5	50E-1+00N	1	7
L5+5	0E-0+75N	1	5
15+5	50E-0+50N	1	3
L5+5	50E-0+25N	5	4
L 5+5	50E-0+00	1	6
L 5+5	50E-0+25S	1	5
L 5+5	50E-0+50S	1	4
L5+5	0E-0+755	3	4
L 5+5	50E-1+00S	ī	3
L5+5	50E-1+255	2	6
15+5	50F-1+50S	1	R
1545	50E-1+75S	2	4
1 545	SOF-2+005	÷)	5
1616	502-2+003 505-2+255	2	ر ہ
1.515	506-27233 506-27233	۲ ۱	0 2
ビリモン	0 C - C - 7 0 3	1	۲

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	SAMPLE	ΑIJ ΡΡΒ	AS PPM
L 6+00E - 2+300N15L 6+00E - 1+75N15L 6+00E - 1+25N15L 6+00E - 1+25N15L 6+00E - 0+75N24L 6+00E - 0+75N24L 6+00E - 0+25N23L 6+00E - 0+25N13L 6+00E - 0+25S13L 6+00E - 0+25S14L 6+00E - 1+25S23L 6+00E - 1+25S23L 6+00E - 1+75S59L 6+00E - 1+75S59L 6+00E - 1+75S23L 6+00E - 2+00S34L 6+00E - 2+50S18L 6+00E - 2+75S25L 6+00E - 1+75N215L 6+50E - 1+75N215L 6+50E - 1+75N23L 6+50E - 1+75N23L 6+50E - 1+75N23L 6+50E - 1+75N23L 6+50E - 0+75N23L 6+50E - 0+75N23L 6+50E - 0+75N22L 6+50E - 0+75N22L 6+50E - 0+75N22L 6+50E - 1+75S14L 6+50E - 1+75S14L 6+50E - 1+75S13L 6+50E - 1+75S13L 6+50E - 1+75S13L 6+50E - 1+75S13L 6+50E - 2+7544L 6+50E - 2+7544L 6+50E - 2+7544L 6+50E - 2+75<	L5+50E+3+00S	1	7
L 6+ 0 0 E - 1 + 7 5 N15L 6+ 0 0 E - 1 + 2 5 N15L 6+ 0 0 E - 0 + 7 5 N24L 6+ 0 0 E - 0 + 7 5 N24L 6+ 0 0 E - 0 + 2 5 N21L 6+ 0 0 E - 0 + 2 5 N25L 6+ 0 0 E - 0 + 2 5 N13L 6+ 0 0 E - 0 + 2 5 N13L 6+ 0 0 E - 0 + 2 5 N23L 6+ 0 0 E - 1 + 0 0 S14L 6+ 0 0 E - 1 + 7 5 S22L 6+ 0 0 E - 1 + 7 5 S59L 6+ 0 0 E - 2 + 2 0 S34L 6+ 0 0 E - 2 + 7 5 S26L 6+ 0 0 E - 2 + 7 5 S25L 6+ 0 0 E - 2 + 7 5 S25L 6+ 0 0 E - 2 + 7 5 S25L 6+ 0 0 E - 2 + 7 5 S25L 6+ 0 0 E - 2 + 7 5 S25L 6+ 5 0 E - 1 + 7 5 N11L 6+ 5 0 E - 1 + 7 5 N23L 6+ 5 0 E - 1 + 2 5 N14L 6+ 5 0 E - 0 + 7 5 N22L 6+ 5 0 E - 1 + 2 5 N14L 6+ 5 0 E - 1 + 2 5 N14L 6+ 5 0 E - 1 + 7 5 N11L 6+ 5 0 E - 1 + 2 5 N14L 6+ 5 0 E - 1 + 7 5 N11L 6+ 5 0 E - 1 + 7 5 N11L 6+ 5 0 E - 1 + 7 5 N11L 6+ 5 0 E - 1 + 7 5 N11L 6+ 5 0 E - 1 + 7 5 N11L 6+ 5 0 E - 1 + 7 5 N11L 6+ 5 0 E - 2 + 7 544 <td>L6+00E-2+00N</td> <td>1</td> <td>5</td>	L6+00E-2+00N	1	5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	L6+00E-1+75N	1	5
L6+00E-1+25N 1 5 L6+00E-1+00N 2 4 L6+00E-0+75N C1 2 L6+00E-0+25N 2 3 L6+00E-0+25N 1 3 L6+00E-0+25N 2 3 L6+00E-0+25N 2 3 L6+00E-0+25N 1 3 L6+00E-1+25S 2 3 L6+00E-1+70S 1 4 L6+00E-1+75S 5 9 L6+00E-2+00S 3 4 L6+00E-2+25S 2 6 L6+00E-2+25S 2 6 L6+00E-2+25S 2 6 L6+00E-2+25S 2 6 L6+00E-2+75S 2 5 L6+00E-2+75N 2 15 L6+50E-1+75N 2 15 L6+50E-1+75N 2 3 L6+50E-1+25N 2 3 L6+50E-1+25N 2 3 L6+50E-0+25N 1 6 L6+50E-0+25N 1 4 L6+50E-1+25S 2 4 <	L6+00E-1+50N	2	3
L6+00E-0+75N < 1 2 L6+00E-0+75N < 1 2 L6+00E-0+50N 2 5 L6+00E-0+25N < 1 3 L6+00E-0+25N < 1 3 L6+00E-0+25N 2 3 L6+00E-0+25S 1 3 L6+00E-1+75S 2 2 L6+00E-1+75S 2 3 L6+00E-1+75S 2 3 L6+00E-2+25S 2 6 L6+00E-2+75S 2 6 L6+00E-2+75S 2 5 L6+00E-2+75S 2 5 L6+00E-2+75S 2 5 L6+50E-1+75N 2 15 L6+50E-1+75N 2 3 L6+50E-1+75N 2 3 L6+50E-1+75N 2 3 L6+50E-1+75N 2 3 L6+50E-0+75N 1 4 L6+50E-0+75N 1 4 L6+50E-0+75N 1 4 L6+50E-1+75S 1 4	L6+00E=1+25N	1	5
Lot 00E - 0+75NC12L6+00E - 0+55N23L6+00E - 0+25N13L6+00E - 0+25S13L6+00E - 1+25S22L6+00E - 1+25S23L6+00E - 1+75S59L6+00E - 1+75S59L6+00E - 1+75S26L6+00E - 2+50S18L6+00E - 2+50S18L6+00E - 2+75S25L6+00E - 2+75S25L6+00E - 2+75N215L6+50E - 1+75N215L6+50E - 1+75N23L6+50E - 1+75N23L6+50E - 1+75N23L6+50E - 0+75N23L6+50E - 0+75N23L6+50E - 0+75N23L6+50E - 0+75N22L6+50E - 0+75N24L6+50E - 0+75N22L6+50E + 025S6L6+50E + 075S22L6+50E - 1+75S11L6+50E - 1+75S14L6+50E - 2+00S113L6+50E - 2+7544L6+50E - 2+7513L7+00E - 1+75N <td></td> <td>()</td> <td>4</td>		()	4
L6+90E-0+25N 2 3 L6+00E-0+25S 1 3 L6+00E-0+25S 1 3 L6+00E-1+00S 1 4 L6+00E-1+25S 2 3 L6+00E-1+25S 2 3 L6+00E-1+75S 2 3 L6+00E-1+75S 5 9 L6+00E-2+00S 3 4 L6+00E-2+5S 2 6 L6+00E-2+75S 2 5 L6+00E-2+75S 2 5 L6+00E-2+75S 2 5 L6+00E-1+75N 2 15 L6+50E-1+75N 2 15 L6+50E-1+75N 2 3 L6+50E-1+75N 2 3 L6+50E-1+75N 2 3 L6+50E-0+75N 1 4 L6+50E-0+75N 2 2 L6+50E-0+75S 2 4 L6+50E-1+75S 1 4 L6+50E-1+75S 1 4 L6+50E-1+75S 1 4 L6+50E-2+75			2
L6+00E-0+25NC13L6+00E-0+25S13L6+00E-1+00S14L6+00E-1+25S23L6+00E-1+75S59L6+00E-1+75S59L6+00E-2+25S26L6+00E-2+25S26L6+00E-2+75S25L6+00E-2+75S25L6+00E-2+75S22L6+00E-2+75N215L6+50E-1+75N215L6+50E-1+75N215L6+50E-1+75N23L6+50E-1+25N14L6+50E-1+25N14L6+50E-0+75N23L6+50E-0+75N22L6+50E-0+25N14L6+50E-0+25N14L6+50E-0+25N14L6+50E-1+25S37L6+50E-1+25S37L6+50E-1+75S11L6+50E-1+75S14L6+50E-1+75S14L6+50E-2+2544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L7+00E-1+75N12<		<u> </u>	*
L6+00E-0+25S 1 3 L6+00E-0+25S 1 3 L6+00E-1+00S 1 4 L6+00E-1+25S 2 2 L6+00E-1+25S 2 3 L6+00E-1+75S 5 9 L6+00E-2+00S 3 4 L6+00E-2+00S 3 4 L6+00E-2+50S 1 8 L6+00E-2+75S 2 6 L6+00E-2+75S 2 5 L6+00E-2+75N 2 15 L6+50E-1+75N 2 15 L6+50E-1+75N 2 3 L6+50E-1+75N 2 3 L6+50E-1+75N 2 3 L6+50E-0+75N 2 3 L6+50E-0+75N 2 3 L6+50E-0+50N 1 6 L6+50E-0+50S 2 2 L6+50E-0+50S 2 2 L6+50E-1+25S 3 7 L6+50E-1+25S 4 4 L6+50E-1+75S 1 1 L6+50E-2+25 4 4 <tr< td=""><td></td><td></td><td>5</td></tr<>			5
L6+00E-0+50S23L6+00E-0+50S23L6+00E-1+00S1L6+00E-1+75S2L6+00E-1+75S59L6+00E-2+00S16+00E-2+75S216+00E-2+75S216+00E-2+75S216+00E-2+75S216+50E-1+75N216+50E-1+75N216+50E-1+75N216+50E-1+75N216+50E-1+75N216+50E-1+75N216+50E-1+75N216+50E-0+75N22316+50E-0+75N23116+50E-0+75N23116+50E-0+75N22316+50E-0+75N22316+50E-0+75S22416+50E-1+25S33716+50E-1+75S11116+50E-2+7541416+50E-2+7541316+50E-2+7541416+50E-2+7541316+50E-2+7541316+50E-2+7541316+50E-2+7541316+50E-2+7541317+00E-1+75N33517+00E-1+75N317+00E-1+75N317+00E-1+75N113517+00E-1+75N </td <td></td> <td>2</td> <td>2</td>		2	2
L6+00E-1+00S14L6+00E-1+25S22L6+00E-1+75S59L6+00E-2+00S34L6+00E-2+25S26L6+00E-2+75S25L6+00E-2+75S25L6+00E-2+75S22L6+50E-1+75N215L6+50E-1+75N215L6+50E-1+75N215L6+50E-1+75N23L6+50E-1+75N23L6+50E-1+75N23L6+50E-1+75N23L6+50E-0+75N23L6+50E-0+75N23L6+50E-0+75N23L6+50E-0+75N14L6+50E-0+75N22L6+50E-0+75S24L6+50E-0+75S24L6+50E-1+75S11L6+50E-1+75S14L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-2+7544L6+50E-1+75N35L7+00E-1+75N35L7+00E-1+75N13L7+00E-1+75N13L7+00E-1+75N13L7+00E-1+75N13L7+00E-0+75N26 <td></td> <td>1</td> <td>2</td>		1	2
L 6 + 00E - 1 + 25S22L 6 + 00E - 1 + 75S23L 6 + 00E - 2 + 00S34L 6 + 00E - 2 + 25S26L 6 + 00E - 2 + 75S25L 6 + 00E - 2 + 75S22L 6 + 00E - 2 + 75S22L 6 + 50E - 1 + 75N215L 6 + 50E - 1 + 75N215L 6 + 50E - 1 + 75N23L 6 + 50E - 1 + 75N23L 6 + 50E - 1 + 75N23L 6 + 50E - 0 + 75N22L 6 + 50E - 0 + 0035L 6 + 50E - 0 + 0035L 6 + 50E - 1 + 00S12L 6 + 50E - 1 + 25S37L 6 + 50E - 1 + 75S11L 6 + 50E - 2 + 7544L 6 + 50E - 2 + 7544<		2	5 4
L6+00E-1+50S 2 3 L6+00E-1+75S 5 9 L6+00E-2+25S 2 6 L6+00E-2+75S 2 5 L6+00E-2+75S 2 5 L6+00E-2+75S 2 5 L6+00E-2+75S 2 5 L6+00E-2+75S 2 2 L6+50E-1+75N 2 15 L6+50E-1+75N 2 3 L6+50E-1+75N 2 3 L6+50E-1+75N 2 3 L6+50E-0+75N 2 2 L6+50E-0+75N 2 2 L6+50E-0+75S 2 2 L6+50E-1+75S 1 1 L6+50E-1+75S 1 1 L6+50E-2+75 4 4 L6+50E-2+75 4 4 L6+50E-2+75 4 4 L6+50E-2+70N 2 5	1.6+0.0E = 1+2.55	2	2
Lot order 1 +7 5559L6+00E - 1 +7 5559L6+00E - 2 +00S34L6+00E - 2 +5 0S18L6+00E - 2 +7 5S225L6+00E - 3 +00S222L6+50E - 1 +7 5N216+50E - 1 +7 5N225L6+50E - 1 +2 5N225L6+50E - 1 +2 5N225L6+50E - 0 +7 5N23L6+50E - 0 +5 0N16L6+50E - 0 +2 5N14L6+50E - 0 +2 5N14L6+50E - 0 +2 5N122L6+50E + 0 +2 5S666L6+50E - 0 +7 5S222L6+50E - 1 +2 5S337L6+50E - 1 +2 5S111L6+50E - 1 +2 5S111L6+50E - 1 +7 5S114L6+50E - 2 +2 5S444L6+50E - 2 +50131L6+50E - 2 +50131121314L6+50E - 2 +5013511121314152617+00E - 1 +2 5N413151<	16+005-1+505	2	2
L6+00E - 2+00S 3 4 L6+00E - 2+50S 1 8 L6+00E - 2+50S 1 8 L6+00E - 2+75S 2 5 L6+00E - 2+75S 2 15 L6+00E - 2+75S 2 15 L6+50E - 1+75N 2 15 L6+50E - 1+75N 2 5 L6+50E - 1+25N 2 5 L6+50E - 0+75N 2 3 L6+50E - 0+50N 1 6 L6+50E - 0+50N 1 6 L6+50E - 0+25N 1 4 L6+50E - 0+25S 6 6 L6+50E - 1+00S 1 2 L6+50E - 1+00S 1 1 L6+50E - 1+75S 1 1 L6+50E - 2+00S 11 3 L6+50E - 2+50 1 3 L6+50E - 2+50 1 3 L6+50E - 2+50 1 3 L6+50E - 2+50	16+00E-1+75S	5	0
L6+00E - 2+25S 2 6 L6+00E - 2+50S 1 8 L6+00E - 2+75S 2 5 L6+00E - 2+75S 2 2 L6+50E - 1+75N 2 15 L6+50E - 1+75N 2 15 L6+50E - 1+25N 2 5 L6+50E - 1+25N 2 3 L6+50E - 0+75N 2 2 L6+50E - 0+75N 2 2 L6+50E - 0+75S 2 4 L6+50E - 1+00S 1 2 L6+50E - 1+75S 1 1 L6+50E - 1+75S 1 1 L6+50E - 2+75 4 4 L6+50E - 2+75N	L6+00E-2+00S	á	4
Lord DE C + 2+50S 1 8 Lord DE C + 2+50S 1 8 Lord DE C + 2+75S 2 5 Lord DE C + 1+75N 2 15 Lord DE C + 1+75N 2 5 Lord DE C + 1+75N 2 3 Lord DE C + 0+75N 2 3 Lord DE C + 0+75N 2 3 Lord DE C + 0+75N 2 2 Lord DE C + 0+75N 2 2 Lord DE C + 0+00S 1 4 Lord DE C + 0+00S 1 2 Lord DE C + 1+25N 1 1 Lord DE C + 1+25N 1 1 Lord DE C + 1+75N 1 3 Lord DE C + 1+75N 1 3 Lord DE C + 2+5ON 1 3 Lord DE C + 2+5ON <td< td=""><td>16+00E-2+25S</td><td>2</td><td>6</td></td<>	16+00E-2+25S	2	6
Lord DeleterLord Deleter<	16+00E-2+50S	1	8
L6+00E-3+00S 2 2 $L6+50E-1+75N$ 2 15 $L6+50E-1+25N$ 2 5 $L6+50E-1+25N$ 2 5 $L6+50E-1+25N$ 2 3 $L6+50E-1+25N$ 2 3 $L6+50E-0+75N$ 2 3 $L6+50E-0+25N$ 1 6 $L6+50E-0+25N$ 1 4 $L6+50E-0+25S$ 6 6 $L6+50E+025S$ 6 6 $L6+50E+075S$ 2 2 $L6+50E-1+00S$ 1 2 $L6+50E-1+25S$ 3 7 $L6+50E-1+25S$ 1 1 $L6+50E-1+75S$ 1 1 $L6+50E-2+25S$ 4 4 $L6+50E-2+75$ 4 4 $L6+50E-2+75$ 4 4 $L6+50E-2+75$ 4 4 $L6+50E-2+75$ 4 4 $L6+50E-2+75N$ 2 6 $L7+00E-1+75N$ 3 5 $L7+00E-1+75N$ 3 5 $L7+00E-1+25N$ <	L6+00E-2+75S	2	5
L $6+50E-1+75N$ 215L $6+50E-1+50N$ 12L $6+50E-1+25N$ 25L $6+50E-1+25N$ 23L $6+50E-0+75N$ 23L $6+50E-0+75N$ 23L $6+50E-0+75N$ 16L $6+50E-0+25N$ 14L $6+50E-0+00$ 35L $6+50E+025S$ 66L $6+50E+075S$ 22L $6+50E+075S$ 24L $6+50E-1+25S$ 37L $6+50E-1+25S$ 11L $6+50E-1+75S$ 14L $6+50E-2+25S$ 44L $6+50E-2+25S$ 13L $6+50E-2+75S$ 44L $6+50E-2+75S$ 13L $6+50E-2+75S$ 44L $6+50E-2+75S$ 13L $7+00E-1+75N$ 35L $7+00E-1+75N$ 12L $7+00E-1+25N$ 45L $7+00E-0+75N$ 13L $7+00E-0+75N$ 13L $7+00E-0+25N$ 26L $7+00E-0+25N$ 26L $7+00E-0+25N$ 26L $7+00E-0+25N$ <td>L6+00E-3+00S</td> <td>2</td> <td>2</td>	L6+00E-3+00S	2	2
L $6+50E-1+50N$ 12L $6+50E-1+25N$ 25L $6+50E-1+00N$ 303L $6+50E-0+75N$ 23L $6+50E-0+75N$ 16L $6+50E-0+75N$ 16L $6+50E-0+25N$ 14L $6+50E+0+25S$ 66L $6+50E+0+25S$ 66L $6+50E+0+75S$ 24L $6+50E+0+75S$ 24L $6+50E-1+25S$ 37L $6+50E-1+25S$ 11L $6+50E-1+75S$ 14L $6+50E-2+25S$ 44L $6+50E-2+75$ 45L $7+00E-1+75N$ 35L $7+00E-1+75N$ 12L $7+00E-1+75N$ 45L $7+00E-1+25N$ 45L $7+00E-1+25N$ 45L $7+00E-0+75N$ 13L $7+00E-0+50N$ 135L $7+00E-0+50N$ 135L $7+00E-0+25N$ 26L $7+00E-0+25N$ 26L $7+00E-0+25N$ 26L $7+00E-0+00$ 13	L6+50E-1+75N	2	15
L $6+50E-1+25N$ 25L $6+50E-1+00N$ 303L $6+50E-0+75N$ 23L $6+50E-0+50N$ 16L $6+50E-0+25N$ 14L $6+50E+0+25N$ 14L $6+50E+0+25N$ 22L $6+50E+0+25N$ 22L $6+50E+0+25N$ 12L $6+50E+0+75S$ 24L $6+50E-1+2+25N$ 11L $6+50E-1+7+5S$ 11L $6+50E-2+0+0S$ 113L $6+50E-2+1+7+5S$ 14L $6+50E-2+1+7+5S$ 13L $6+50E-2+1+7+5S$ 44L $6+50E-2+1+7+5S$ 13L $6+50E-2+1+7+5S$ 13L $6+50E-2+1+7+5S$ 44L $6+50E-2+1+7+5S$ 35L $7+00E-1+7+5N$ 35L $7+00E-1+7+5N$ 12L $7+00E-1+1+7+5N$ 45L $7+00E-1+1+2+5N$ 45L $7+00E-1+1+2+5N$ 59L $7+00E-0+7+5N$ 13L $7+00E-0+7+5N$ 13L $7+00E-0+7+5N$ 26L $7+00E-0+7+5N$ 13L $7+00E-0+7+5N$ 26L 7	L6+50E-1+50N	ī	2
L 6+50E-1+00N 30 3 $L 6+50E-0+75N$ 2 3 $L 6+50E-0+50N$ 1 6 $L 6+50E-0+25N$ 1 4 $L 6+50E-0+00$ 3 5 $L 6+50E+025S$ 6 6 $L 6+50E+025S$ 2 2 $L 6+50E+075S$ 2 4 $L 6+50E-1+00S$ 1 2 $L 6+50E-1+00S$ 1 2 $L 6+50E-1+25S$ 3 7 $L 6+50E-1+75S$ 1 1 $L 6+50E-2+00S$ 11 3 $L 6+50E-2+75S$ 4 4 $L 6+50E-2+75S$ 2 6 $L 7+00E-1+75N$ 3 5 $L 7+00E-1+75N$ 1 2 $L 7+00E-1+75N$ 1 3 $L 7+00E-1+75N$ 13 5 $L 7+00E-0+75N$ 1 3 $L 7+00E-0+75N$ 1 3 $L 7+00E-0+75N$ 2 6 $L 7+00E-0+25N$ 2 6 $L 7+00E-0+25N$ 2 6 $L 7+00E-0+25N$ 2 6 $L 7+00E-0+00$ 1	L6+50E-1+25N	2	5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	L6+50E-1+00N	30	3
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L 6+50E-0+25N14 $L 6+50E+0+00$ 35 $L 6+50E+025S$ 6 $L 6+50E+075S$ 2 $L 6+50E+075S$ 2 $L 6+50E-1+00S$ 1 $L 6+50E-1+25S$ 3 $T L 6+50E-1+25S$ 3 $L 6+50E-1+75S$ 1 $L 6+50E-2+00S$ 1 $L 6+50E-2+25$ 4 $L 6+50E-2+25$ 4 $L 6+50E-2+25$ 4 $L 6+50E-2+75$ 4 $L 6+50E-2+75$ 4 $L 6+50E-2+75$ 4 $L 6+50E-2+00S$ 1 $L 7+00E-1+75N$ 3 $L 7+00E-1+75N$ 3 $L 7+00E-1+75N$ 1 $L 7+00E-1+75N$ 4 $L 7+00E-1+25N$ 4 $L 7+00E-1+25N$ 4 $L 7+00E-1+25N$ 5 $L 7+00E-0+75N$ 5 $L 7+00E-0+50N$ 13 $L 7+00E-0+50N$ 13 $L 7+00E-0+25N$ 2 $L 7+00E-0+25N$ 2 $L 7+00E-0+25N$ 2 $L 7+00E-0+00$ 1	L6+50E-0+50N	1	6
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L6+50E+050S22 $L6+50E+075S$ 24 $L6+50E-1+00S$ 12 $L6+50E-1+25S$ 37 $L6+50E-1+75S$ 11 $L6+50E-2+00S$ 113 $L6+50E-2+25$ 44 $L6+50E-2+75$ 45 $L7+00E-1+75N$ 35 $L7+00E-1+75N$ 12 $L7+00E-1+75N$ 45 $L7+00E-1+75N$ 45 $L7+00E-1+75N$ 59 $L7+00E-1+75N$ 59 $L7+00E-1+75N$ 13 $L7+00E-0+75N$ 13 $L7+00E-0+75N$ 26 $L7+00E-0+75N$ 26 $L7+00E-0+25N$ 26 $L7+00E-0+00$ 13	L6+50E+025S	6	6
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L6+50E-1+25S37 $L6+50E-1+75S$ 11 $L6+50E-1+75S$ 14 $L6+50E-2+00S$ 113 $L6+50E-2+25$ 44 $L6+50E-2+75$ 44 $L6+50E-2+75$ 44 $L6+50E-2+75$ 44 $L6+50E-2+75$ 44 $L6+50E-2+75$ 44 $L6+50E-2+70N$ 25 $L7+00E-2+70N$ 25 $L7+00E-1+75N$ 35 $L7+00E-1+75N$ 12 $L7+00E-1+25N$ 45 $L7+00E-1+00N$ 59 $L7+00E-0+75N$ <1	L6+50E-1+00S	1	2
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L 6+50E-1+75S 1 4 L 6+50E-2+00S 11 3 L 6+50E-2+25 4 4 L 6+50E-2+50 1 3 L 6+50E-2+75 4 4 L 6+50E-2+75 2 6 L 7+00E-2+70N 2 5 L 7+00E-1+75N 3 5 L 7+00E-1+75N 1 2 L 7+00E-1+25N 4 5 L 7+00E-1+25N 5 9 L 7+00E-0+75N 1 3 L 7+00E-0+50N 13 5 L 7+00E-0+50N 13 5 L 7+00E-0+25N 2 6 L 7+00E-0+00 1 3	L6+50E-1+50S	1	1
L6+50E-2+00S 11 3 L6+50E-2+25 4 4 L6+50E-2+50 1 3 L6+50E-2+75 4 4 L6+50E-2+75 2 6 L7+00E-2+00N 2 5 L7+00E-1+75N 3 5 L7+00E-1+75N 4 5 L7+00E-1+25N 4 5 L7+00E-1+00N 5 9 L7+00E-0+75N 3 5 L7+00E-0+50N 13 5 L7+00E-0+50N 13 5 L7+00E-0+25N 2 6 L7+00E-0+00 1 3	L6+50E-1+75S	1	4
L 6+50E-2+25 4 4 L 6+50E-2+50 1 3 L 6+50E-2+75 4 4 L 6+50E-2+75 2 6 L 7+00E-2+70N 2 5 L 7+00E-1+75N 3 5 L 7+00E-1+75N 1 2 L 7+00E-1+25N 4 5 L 7+00E-1+00N 5 9 L 7+00E-0+75N <1	L6+50E-2+00S	11~	3
L 6+50E-2+50 1 3 L 6+50E-2+75 4 4 L 6+50E-3+00S 2 6 L 7+00E-2+00N 2 5 L 7+00E-1+75N 3 5 L 7+00E-1+75N 3 5 L 7+00E-1+50N 1 2 L 7+00E-1+25N 4 5 L 7+00E-1+00N 5 9 L 7+00E-0+75N <1	L6+50E-2+25	4	4
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L7+00E-0+25N 2 6 L7+00E-0+00 1 3	17+00E-0+50N	12	5
L7+00E-0+00 1 3	L 7+00F-0+25N		~ ~
	L7+00E-0+00	ĩ	3

X-RAY ASSAY LABORATORIES 29-OCT-84 REPORT 22815 REF.FILE 18383- PAGE 6 DF 6

SAMPLE	AU PPB	AS PPM
L7+00E-0+25S	2	3
L7+00E-0+50S	2	5
L7+00E-0+75S	1	3
L7+00E-1+00S	<1	3
L7+00E-1+25S	2	2
L7+00E-1+50S	2	3
L7+00E-1+75S	23	3
L7+00E-2+00S	2	6
L7+00E-2+25S	3	6
L7+00E-2+50S	2	5
L7+00E-2+75S	1	3
L7+00E-3+00S	1	5



Figure 1. Humus material and briquettes suitable for irradiation and analysis by INAA.



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INAA ANALYSIS OF BIOGEOCHEMICAL SAMPLES



APPENDIX III

Lithogeochemical Sample Analyses

Jensen Cation Plot

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X-RAY ASSAY L	Aboratories	; ;	23- JU8 4	١	R	eport 214	36 R E	FERENCE	FILE 170	22	l	PAGE 1	
SAMPLE	SI02	AL 203	CAO	MGO	NA20	K2 0	FE203	MNO	T102	P205	CR203	LOI	sum
31	65.5	15. 9	2. 58	1. 10	3. 91	2. 26	3. 04	0. 04	0. 37	0. 14	(0. 01	4. 31	99 . 2
7332	60. 4	19. 0	2. 51	1. 87	5. 42	2.09	4. 37	0. 05	0. 49	0. 14	CO. 01	3. 85	100. 3
7333	66. 6	14. 9	2. 53	1. 37	6. 36	1. 25	2.94	0. 06	0. 36	0. 14	(0. 01	3. 70	100. 4
7334	66. 9	15.5	1. 77	1. 36	6. 54	1. 36	3. 27	0. 05	0. 38	0. 15	(0. 01	2.93	100. 3
7336	68.7	15. 0	2. 02	1. 30	4. 39	2. 45	2.79	0. 03	0. 36	0. 15	(0 . 01	2.93	100. 2
X-RAY ASSAY L	ABORATORIE	\$	23-JU-8	4	F	eport 214	136 RE	FERENCE	FILE 170	22		PAGE 2	
SAPPLE	RB	SR	Y	ZR	NB								
7331	. 60	490	10	110	10								
7332	50	450	C10	120	20								
7333	50	1050	<10	100	20								
7334	30	580	<10	110	20								
7336	70	210	10	110	30								
• .					· ••·	• •		e.		. ,	•••		
RAY ASSAY	LABORAT	ORIE	S 03-	JUL-8	4 REP	PORT 2	1436	REF.	ILE	17022	-T3 P	AGE	2 OF
5A M	PLE	CU PI	PM	Z N	PPM 	AS	PPM		AG PP	M			

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7331	38.0	41.0	10.0	0.5
7332	13.0	46.0	11.0	2.5
7333	19.0	34.0	5.0	0.5
7334	3.5	63.0	0.5	3.5
7336	8.0	43.0	0.9	4.0
	· · · ·			

X-RAY ASSAY LABORATORIES 03-JUL-84 REPORT 21436 REF.FILE 17022-T3 PAGE 1 OF

SAMPLE	AU PPB	B PPM	FEO X	NI PPH
7331	<2	50	2•2	19
7332	<2	50	3.2	23
7333	<2	30	1.9	21
7334	<2	30	1.7	22
7336	3	40	1.4	18

JENSER CATION CLASSIFICATION with ANHYDROUS LITHOGEOCHEM VALUES computed using LOI SAM 8-SID2 -AL203-CAD -N60 -NA20 -K20 -FE203-NND -T102 -P205 -7331 68.5 16.6 2.7 1.15 4.09 2.36 3.2 0.04 0.39 0.15 CALC-ALKALINE RHYDLITE 2.6 1.94 5.64 2.17 7332 62.8 19.8 4.5 0.05 0.51 0.15 CALC-ALKALINE DACITE 3.1 0.06 0.37 0.15 CALC-ALKALINE RHYDLITE 3.4 0.05 0.39 0.15 CALC-ALKALINE RHYDLITE 7333 69.2 15.5 2.6 1.42 6.60 1.30 7334 68.9 16.0 1.8 1.40 6.74 1.40 -7336 70.8 15.5 2.1 1.34 4.52 2.52 2.9 0.03 0.37 0.15 CALC-ALKALINE RHYOLITE



XRAL INVOICE TO:	X-RA	Y ASSA E STREET • DON COPY TO:	Y LABO LIMIT MILLS ONTARIO	RATORIE TED M3B 3J4 • (416) 445	ES 5-5755
PLACER DEVELOPMENT LIMITED ATTN: CHRISTOPHER KEECH P. O. BOX 66 401 BAY STREET, SUITE 2600 TORONTO, ONTARIO M5H 2Y4					
SUBMITTED TO: PLACER REVELOPMENT LIMITED ATTN: CHRISTOPHER KEECH P. O. BOX 66 401 BAY STREET, SUITE 2600		INVOICE NO. 22815	CUSTONER NO. INVOICE DATE 29-0CT-84	474 WORK ORDER NO 18383 TERMS	DATE SUBMITTED 9-0CT-84
TORONTO, ONTARIO M5H 2Y4 CLIENT PROJECT NO. V~200 CLIENT PROJECT NO. V~200 CLIENT PROJECT NO. CLIENT PROJECT PROJECT NO. CLIENT PROJECT PROJECT NO. CLIENT PROJECT PROJ	HINU:	TERMS NET 30 1. 5% PER MON AMPLES BOBUILTED S WAY BUC NO.	Days Th interest on a	CCOUNT OVER 30 DAY	/S
5 BOXES SELF OUANTITY DESCRIPTION METHOD 1. 262 AU, AS, BIOGEOCHEMISTRY, REGULAR DETECTION 1 2. 262 HUMUS, DRYING & BLENDING	LIMIT	XRAL CO 13, 2,20, 0 99, 2, 0, 0	DE , 0, 0 , 0, 0	UNIT COST 7. 50 0. 70	amount 1965. 00 183. 40
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MISC. CHARGES OTHER	TELEX		MINIMUM OHARG BURCHARGE - RU	SUB-TOTAL	\$ 2148.40
			OTAL IN		\$ 2148.40

DEVELOPMENT LIMITED CHRISTOPHEN KEECH ON 66 V STREET, SUITE 2600 0. ONTARIO KEE 200 0. ONTARIO KEE 200 0. ONTARIO KEE 200 V 200	VS	474 WORK ORDER NO. 18383 TERMS COUNT OVER 30 DAYS SHIPPED FROM VUNIT COST 2, 2 BS 2 7, 50 0, 70	CUSTOMER NO. 474 INVOIGE DATE 3 VIORA 29-OCT-84 DAYS TH INTEREST ON ACCOUNT O 8HIPPE DE 4222 A 44 44 100 7.5 0,0 7.5 0.7	CUS DICE NO	TYPE OF SAMPL HUMUS WAY	D States States States	ED 00 Y4 CLIENT PROJECT NO. V-200 YESCRIPTION METHOD	LOPHENT LIMITEI TOPHER KEECH EET, SUITE 260X TARIO M5H 2Y4	DEVEL CHRIST OX 66 Y STRE O, ON
EVELOPENT LIMITED Involue Rol I - Involue Rate - Work Order Roo Or	AMOUNE SUBMITE 9-0CT-84	WORK ORDER NO. 18383 TERMS COUNT OVER 30 DAYS SUNIL COST 2.5 M C 7. 50 0. 70	DE COLOR OF	22815 21 22815 21 2315 <t< th=""><th>TYPE OF SAMPL HUMUS WAY</th><th>D さんしたTeiの名称 TECTION LIMIT</th><th>ED 20 24 CLIENT PROJECT NO. V-200 JESCRIPTION METHOL</th><th>LOPHENT LIMITEI TOPHER KEECH EET, SUITE 260X TARIO M5H 2Y4 SHIPPED VIA SELF</th><th>DEVEL CHRIST OX 66 Y STRI O, ONT</th></t<>	TYPE OF SAMPL HUMUS WAY	D さんしたTeiの名称 TECTION LIMIT	ED 20 24 CLIENT PROJECT NO. V-200 JESCRIPTION METHOL	LOPHENT LIMITEI TOPHER KEECH EET, SUITE 260X TARIO M5H 2Y4 SHIPPED VIA SELF	DEVEL CHRIST OX 66 Y STRI O, ONT
OR 66 V STREET. SUITE 2600 G. ONTARIO KSH 274 CUEHT PROACT HO V-200 INFO CHARGE BUILTING SELF RANSAGE AND EXCEPTION AND HOLD AND AND ADDREED AND ALL HO HARDS UNASSIGNATION AND HOLD AND AND ADDREED AND ALL COLLING AND ALL HO RANSAGE AND ALL HO REPORT AND A BUENDING AND ALL HOLD AND ADDREED AND ALL HO RANSAGE AND ALL HO REPORT AND A BUENDING AND ALL HOLD AND ADDREED AND ALL HO RANSAGE AND ALL HO REPORT AND A BUENDING AND ALL HOLD AND ADDREED AND ALL HO RANSAGE AND ALL HO REPORT AND A BUENDING RANSAGE AND ALL HOLD AND ADDREED AND ALL HOLD AND ADDREED AND ALL HO RANSAGE AND ALL HOLD AND ADDREED AND ALL HOLD AND ADDREED AND ALL HO RANSAGE AND ALL HOLD AND ADDREED AND ALL HOLD ADD	IVS AMOUNT 5 1965.00 183.40	TERMS COUNT OVER 30 DAYS SHIPPED FROM SUNIL COST 200 PROV 7. 50 0. 70	TERMS DAYS TH INTEREST ON ACCOUNT O SHIPPE DECOMPOSISON OF 7.5 , 0, 0 , 0, 0 , 0, 0 , 0, 0	RMS NET 30 DAYS 5% PER MONTH INTI UBMITTED NO. 34 2.20, 0. 0. 0. 0 9, 2, 0, 0, 0, 0	TYPE OF BAMPL HUMUS WAY	Designment of the second se	00 Y4 CLIENT PROJECT NO. V-200 PESCRIPTION METHOD	EET, SUITE 260X TARIO MSH 2Y4	OX 66 Y Stre 0, ON
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	• •		-		18	85 LESL	IE STREET . D	ON MIL	LS ONTA	RIO M3B 3J4 • (416)	445-5755
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1 BOX			SMALL FRY		···		0839	•			•
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MISC MARGI	S	DTHER	5. 00	CUSIOM BHOK					SURCHARG	IE · RUSM SERVICE	\$ 5.00
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OICE TO:				184	85 LESL	E STREET • DON COPY TO:	LIN MILLS ONTAR	MITED 10 M3B 3J4 • (416)	445-5755
	PLAC ATTN P. 0. 401 TORO	ER DEVELOPHENT LIMITE : CHRISTOPHER KEECH BOX 66 BAY STREET, SUITE 260 NTO, ONTARIO M5H 2Y	D 0 '4						
BMITTED	TO:		'n				CUSTOMER N	0. 474 WARK ORDER N	
	ATTN P. O.	ER DEVELOPMENT EINTTE CHRISTOPHER KEECH BOX 66				21436	03-JUL-84	17022 TERMS	11-JUN-84
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						TOTAL \$23	94:00	SUB-TOTAL	\$ 1278.90
MISC. SHARGI	S	SHIPPING CHARGES 5. 00 OTHER	CUSTOM BROK	ERAGE	TELEX		SURCHARGE	RUSH SERVICE	\$ 5.00
TRIP	LIC	ATE COPY							¢ 1283. 90





SWASTIKA LABORATORIES LIMITED P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0 TELEPHONE: (705) 642-3244

SOLD TO	Placer Development Limited
	2600 - 401 Bay ST.
	Toronto, Ontario
	M5H 2Y4



1.5% late charge over 30 days (annual rate 18%)

多人 國主

DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS	SALESMAN
Oct.17	7/84		-	Proj198		30 davs	
ST QUAN	VTITY 22		DESCRIPTION			UNIT PRICE	AMOUNT :
16	5 Au Assa	vs PPB				\$ 8.50	\$ 136.00
16	5 Sample Cert.	handling No. 58854 Oc	ct. 12/84	C. Keech	· · · · · · · · · · · · · · · · · · ·	2.75	44.00
31	l Au Assa	vs PPB				8,50	263.50
31 31	l l A.T. Cu Assa	fusions vs PPM				1.00	31.00 130.20
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MOORE BUS	SINESS FORMS 3 7060E	······		7	3 8.4 TOTAL	<u></u>	689.95
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SWASTIKA LABORATORIES LIMITED P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0 TELEPHONE: (705) 642-3244

CSOLD TO'S	Placer Deve	elopment Limit	ted	4	S 2 2 1		
	2600 - 401 Toronto, Or	Bay SI. ntario			H 1.5% lat % (annual	ce charge o	ver 30 days
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PAID Cet 22/04 BY CHEQUE NO. 1699

BOLD TO P	P.O. BOX 10, SWASTIKA Placer Development Limite 2600 - 401 Bay ST. Toronto, Ontario 15H 2Y4	d	POK 1TO TELEPHO	DNE: (705) 642-3244 1.5% late charge (annual rate 18%)	over 30 days
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Ontario Geol		iones, A						
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Placer D	evelopment L	imited]			Т.8	37	
2600, 40	l Bay Street	, Tord	onto, O	ntario. MS	5H 2Y4			-
Survey Company				Date of Survey	(from & to)	10 04 T	otal XIXeX of line	Cut
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Dr. J.B. E	Soniwell, 10	Huront	tario S	t., Missis	ssauga,	Ontari	0	
Credits Requested per Each (Claim in Columns at r	ight	Mining C	laims Traversed (List in num	erical sequen	ce)	
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Marchan	Geochemical			639634			. 0 1304	
Man Days	Geophysical	Days per Claim		639637	M	INING LAN	IDS SECTION	·
and enter total(s) here	Electromagnetic			639638				
	- Magnetometer			639641				
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Y V. 22/84	2	Ale	alm	ised a	tatenach	it		
Certification Verifying Repo	ort of Work	J	••••••••••••••••••••••••••••••••••••••	·····				
I hereby certify that I have a or witnessed same during and	i personal and intimate k d/or after its completion	nowledge of and the ann	the facts set exed report is	forth in the Report strue.	of Work ann	exed hereto, h	aving performed t	he work
Name and Postal Address of Per	son Certifying			······································				
Mr. F.H. Faul	kner, 2600,	401 Ba	y Stree	t, Toro	nto, Or	itario	(Signatura)	
M5H 2Y4				Sale Certified	22/84	J	Joulton	~ ·
1362 : 21/0)				1000				_ <u></u>)

Ontario Ministry of Natural Resources Geo	Report of Work (Geophysical, Geological, Geochemical and Expenditures)			Instructions:				Please type or print. If number of mining claims traversed exceeds space on this form, attach a list. Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns. Do not use shaded areas below.			
Type of Survey(s) Geoch	emical,Assay	ing Ex	xp	enditu	ures,Trer	Townsh nching	nip O	r Area De	enyes		
Claim Holder(s)	r Developmen	+ Limi		പ	•			Prospecto	or's Licence No. R 3 7		
Address		<u>с пти</u>		<u>.</u>			<u></u>				
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Survey Company Place	r Developmen	t Limi	i t.	ed	12 09	84 05	0) 	LO 84	23.05 km	Cut	
Name and Address of Author (of Geo-Technical report)								20100 ///		
Mr. C.G. Keech	<u>, 2600, 401</u>	Bay St	t.	Toro	nto, Onta	ario. M	5 <u>H</u>	2Y4			
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and enter total(s) here	- Magnetometer		1		639636	40	1				
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Nov. 22/84	scorded Holder or Agent (Signature)		1251		le herr	-1/	Branch D	Toto A Dan ta		
Certification Verifying Rep	ort of Work		J	L		~ 101	vs	11.11	u winxmi		
I hereby certify that I have	a personal and intimate k	nowledge o	of th	ne facts set	forth in the Rep	ort of Work a	nnex	ed hereto,	, having performed t	he work	
or witnessed same during an Name and Postal Address of Pe	nu/or atter its completion rson Certifying	and the an	inex	eu report i	s true.						
Mr. F.H. Faul	(ner, 2600, 4	401 Ba	У	Stree	t						
Toronto. Ontai	cio. M5H 2Y4				Date Certif	ied la r		Certified	by (Signature)	,	
252 (01/0)					MW	22/84		\mathcal{A}	4 tank	ner .	

Ontario Ministry of Rep Natural Resources Geo	oort of Work ophysical, Geological, chemical and Expend	itures) (ppy		Instructions: Note:	Please type If number exceeds spa Only days "Expenditu	or print. of mining clai ice on this form credits calcul res" section ma	ms traverse , attach a list ated in th v be antered
			The Mining	Act	-	in the "E Do not use a	kpend. Days C shaded areas belo	r." columns
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Placer 1	Development I	imite	đ			Т.8	137	
Address 2600, 40	01 Bay Street	. Tor	onto. Or	ntario. M	15H 2Y4			
Survey Company				Date of Surve	y (from & to)	Ť	otal Man of lin	e Cut
Placer I	Development I	Jimite	a 	Day Mo.	84 05 Vr. Day	10 84 Mo. 84	23.05 k	(M
Name and Address of Author (Dr. J.B. I	of Geo-Technical report) Boniwell. 10	Huron	tario Si	t Missi	ssauga.	Ontari	0	
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intrado inte corring,	- Magnetometer	20		639630				
For each additional survey:	- Radiometric			639631				
Enter 20 days (for each)	- Other			639632]		
	Geological	20		620622				
	Geochemical			622622				
Man Days	Coordination	Days per		639634				····
Complete reverse side	Geophysical	Claim		639637				
and enter total(s) here	- Electromagnetic			639638				
	- Magnetometer			639641				
	- Radiometric			639642				
	- Other							
	Geological				-}		· · · · · · · · · · · · · · · · · · ·	
Airborne Credite	Geochemical	Dave por						
		Claim						
Note: Special provisions	Electromagnetic							
to Airborne Surveys.	Magnetometer							
	Radiometric			*************			•	
Expenditures (excludes pow	er stripping)							
Type of Work Performed						Ⅰ		
Performed on Claim(s)								
			~					

Calculation of Expenditure Dev	s Credits			· · · · · · · · · · · · · · · · · · ·				
Total Expenditures	T Days	otal Credits						
\$] + [15] = [hanii ya a			Total numb	er of mining [
						claims cove	red by this	10
Total Days Credits may be ap	portioned at the claim h	older's	[]	For Office Use	Only	1		
in columns at right.	s credits per claim selecte	ia in the second s	Total Days Becorded	Cr. Date Recorde	d	Mining Reco	order	
				Data Arrest		Branch D'		
Date 1	corded Nolder o r Agent (S	signature)		Date Approve	a as Hecorded	Branch Dire	CTOP	
Certification Verifying Repo	ort of Work		L	_1			<u></u>	
I hereby certify that I have a	personal and intimate kn	owledge of	the facts set fo	orth in the Report	t of Work anne»	ed hereto, ha	wing performed	the work
or witnessed same during and Name and Postal Address of Peri	l/or after its completion a son Certifying	and the ann	exed report is t	rue	······································			
Hr. P.H. Faulk	ner, 2600, 4	01 Bay	Street	, Toro	nto, Ont	ario		
M5H 2Y4				Date Certified	37.181	Certified by	(Signature)	
262 (91/0)				1 1/.00	ry:*	J.H.	authin	m

Min'stryof Rep Natural Resources Geo	oort of Work ophysical, Geological, chemical and Expend	itures		ρΥ	Instructions: - Note:	Please type If number exceeds spa Only days "Expenditu in the "Expenditu	or print. of mining claim ce on this form, credits calcula res" section mai kpend, Days Ca	ns traverse attach a list ated in the y be entered w columns
Type of Survey(s)					Township	Do not use a	haded areas bein	
Geochi Claim Holder(s)	Bmical, Assay	ing Ex	penaiti	ures, Tren	cning	Protostor		
Place	r Developmen	t Limi	ted			T.8	37	
Address 2600.	401 Bay Str	eet, T	oronto	. Ontario	. M5H 2Y	4		
Survey Company				Date of Surve	9 (from & to) 84 05	10 84	otal 2003 of line	Cut
Place: Name and Address of Author (c	r Developmen of Geo-Technical report)	t Limi	ted	Day Mo.	Yr. Day I	Mo. Yr.	23.05 ki	n
Mr. C.G. Keech	, 2600, 401	Bay St	. Toro	nto, Ontai	rio. M5H	2¥4		
Credits Requested per Each	Claim in Columns at r	ight	Mining C	laims Traversed	(List in nume	rical sequer	ice)	
Special Provisions	Geophysical	Days per Claim	Prefix	Vining Claim Number	Expend. Days Cr.	Mir Prefix	Number	Expend. Days Cr.
For first survey:	- Electromagnetic		D	639629				
Enter 40 days. (This includes line cutting)	- Mannetometer			633027				
	magneterneter		an a	639630				
For each additional survey:	- Radiometric			639631	10			
Enter 20 days (for each)	- Other			639632				
	Geological			620622				
	Geochemical			039033				
Man Days		Davs per		639634	<u>y</u>		······································	
On malata sources side	Geophysical	Claim		639635	40			
and enter total(s) here	- Electromagnetic			639636	40		_	
	- Magnetometer	·		639637	10			
	- Badiometric			039037			···. ····	
	- nationietric			639638	20			
	- Other			639639	40			
	Geological			639640	40			
·	Geochemical	3		639641				
Airborne Credits		Days per	2	039041				
•		Claim		639642				
Note: Special provisions credits do not apply	Electromagnetic							
to Airborne Surveys.	Magnetometer							
	Radiometric							
Expenditures (excludes pow	er stripping)							
Type of Work Performed		•					· · · · · · · · · · · · · · · · · · ·	
Assays of Rock	6 Humus Samp	168						
Performed on Claim(s)	633 D 63063							
P.039031, P.039	033, 2+03903	•						
Calculation of Expenditure Days	s Credits							
Total Expenditures	ן Day:	otal Credits						
\$ 3,142.85	÷ 15 =	209	.	4		Total numb	er of mining	
Instructions						claims cove report of w	red by this ork.	44
Total Days Credits may be ap	portioned at the claim h	older's		For Office Use	Only]		
in columns at right.	Greate per claim selecte	~	Total Day Becorded	s Cr. Date Recorde	d	Mining Reco	order	
						L		
Date //01 . 22/34	J.H. Juller or Agent (S	Signature)		Date Approve	a as Hecorded	Branch Dire	CTOF	
Certification Verifying Repo	rt of Work		t <u> </u>					
I hereby certify that I have a	personal and intimate kr	nowledge of t	the facts set	forth in the Repor	t of Work annex	ed hereto, ha	ving performed	the work
Name and Postal Address of Pers	ion Certifying	01 RAV	Stree	t				<u></u>
Toronto. Ontar	10. N5H 2Y4	~~ ~~!	~~~~~	- Date Certified	a la la r	Certified by	(Signature)	
				1.150	21/24	1.de	Jaulo	en.

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

	Geod	he	m.	ica	1	Sampling								
	Technical Days					Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	6] ×	(7] =	42	+		=	42) +	14] =	3
f Survey	y	i				<u></u>				<u> </u>				
	Technicai Days					Technical Days Credits		Line-cutting Days		Total Credits		No, of Claims		Days per Claim
] ×	(7] =		+		=		+] =	
	Technical					Technical Days Credits		Line-cutting Days		Total Cradite		No. of		Days per
	Days] ×	(7] =		+		=		+] =	Claim
f Survey	Days]×	< 	7] =		+		=		+] =	
f Survey	Days 7 Technical Days] ×	< 	7] =	Technical Days Credits	+	Line-cutting Days] =	Total Credits	+	No. of Claims] =	Claim Days per Claim

D. Andresen - Sept.28,29,30, 1984



Ministry of Natural Resources

File_

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) VLP-EN	i & Magnetometer, G	eological, Geochemical
Township or Area	s Township	MINING CLAIMS TRAVERSED
Claim Holder(s) Place	ar Development Limi	tedList numerically
2600	, 401 Fay St., Toro	nto, Ont.
Survey Company Placer	Development Limit	ed P. 639629 (prefix) (number)
Author of Report <u>Dr.</u> J.	1. Foniwell	P.639630
Address of Author 10 Hun	contario St. Missis	sauga, Ont.
Covering Dates of Survey	(linecutting to office)	4 P,039031
Total MH&syof Mane Cut	23.05 km	P.039032
		P.639633
SPECIAL PROVISIONS		DAYS P.639634
	Geophysical	P.639637
ENTER 40 days (includes	Electromagnetic.	20 P-639636
line cutting) for first	Magnetometer	<u></u>
survey.	Radiometric	P.639641
ENTER 20 days for each	Other	D. 626649
additional survey using	Geological	<u>20</u> P.039542
same grid.	Geochemical	
AIRBORNE CREDITS (Spec	ial provision credits do not apply to ai	rborne surveys)
MagnetometerElectr	omagnetic Radiom (enter days per claim)	etric
DATE:5	SIGNATURE:Author of Re	port or Agent
Res. Geol.	Oualifications	
Previous Surveys		
File No. Type Da	ate Claim Hold	er
•••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •	
•••••••••••••••••••••••••••••••••••••••		••••••••
••••••		
••••••		
••••••••		
		TOTAL CLAIMS

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

ç	<u>GROUND SURVEYS</u> – If more than one survey, specify	y data for each type of survey
N	Magnetometer - 1035 VLP - 923	Hagnetometer - 2070 VLP - 1845
S	tation interval 12.5 m	Line spacing 50 m & 100 m
P	rofile scale $1 \text{ cm} = 10\%$	Dinc spacing
C	ontour interval 20 gamma mag Fraser 1	Pilter - 10
MAGNETIC	Geometrics Model G.816 ProInstrumentI GammaAccuracy - Scale constantI GammaDiurnal correction methodBase stationsBase Station check-in interval (hours)1-1½ hratBase Station location and valueBase stationsproperty + locationand values show	established s established on base lines throughout wn on map
r al	Instrument Geonics VLP EM-16	
ETIC	Coil configuration	
GNI	Coil separation	
MA	Accuracy 12%	
RO	Method:	Shoot back In line Parallel line
ECI	Frequency 24.0 Khz NAA Cutler, Maine	B
E	Parameters measured In-phase and quadrat vertical field as a	ture components of the secondary percentage of horizontal primary field
	Instrument	
ы	Scale constant	
E	Corrections made	
GRA	Base station value and location	
	Elevation accuracy	
	Instrument	
	Method	Frequency Domain
	Parameters – On time	Frequency
겁	— Off time	Range
IX	— Delay time	
SIST	- Integration time	
RE	Power	
	Electrode array	
	Tupo of electrode	
	Type of electrode	

INDUCED POLARIZATION



SELF PUTENTIAL	
Instrument	Range
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	
Overburden	aluda autoron man)
(נעסר, סרטיין) (נעסר, סרט) (נעסר, סרטטיין) (נעסר, סרט) (נ	icide outcrop mapy
OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)	
Type of survey	
Instrument	
Accuracy	
Parameters measured	
Additional information (for understanding results)	
、	
AIRBORNE SURVEYS	
Type of survey(s)	
Instrument(s)	
(specify for each	type of survey)
Accuracy	type of survey)
Aircraft used	··· ···
Sensor altitude	
Navigation and flight path recovery method	

Aircraft altitude	Line Spacing
Miles flown over total area	_Over claims only

Numbers of claims from which samples taken **P.639631**, **P.639632**, **P.639633**, **P.639634**

Total Number of Samples262	ANALYTICAL METHODS
Humus (Nature of Material) Average Sample Weight 75 grams	Values expressed in: per cent p. p. m. p. p. b.
	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)
Soil Horizon Sampled	OthersAu
Horizon Development	Field Analysis (tests)
Sample Depth	Extraction Method
Terrain	Analytical Method
	Reagents Used
Drainage Development	Field Laboratory Analysis
Estimated Range of Overburden Thickness	No. (tests)
	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing) Mesh size of fraction used for analysis	Commercial Laboratory (tests) Name of LaboratoryX-Ray Assay Lab. Extraction Method Analytical MethodNeutron activation Reagents Used
	General
See report for procedure of humus preparation	

January 4, 1985

Our File: 2.7597 Mining Recorders File: 519/84

Placer Development Limited Suite 2600 401 Bay Street Toronto, Ontario M5H 2Y4

Attention: C.G. Keech

Bear Sir:

RE: Geochemical Survey and Data for Assaying under Section 77(19) of the Mining Act RSO 1980, submitted on Mining Claims P 639629 et al in the Township of Denyes

We received invoices for geochemical assaying for the above-mentioned surveys on December 19, 1984.

To complete your submission for assessment wowdit, please provide the following items:

- 1. A technical report with plans for the geochemical survey.
- 2. Receipts or cancelled cheques substantiating the \$3,142.85 in expenditures claimed.

Please forward the above information, in duplicate, to this office quoting file 2.7597.

For further information, please contact Doug Isherwood at (416)965-4888.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone:(415)965-4888

D. Isherwood:mc

1985 02 28

Your Files: 518/84,519/84 Our File: 2.7436

Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

RE: Notice of Intent dated February 7, 1985 Geophysical (Electromagnetic, Magnetometer), Geological and Geochemical Surveys and Data for Assaying on Mining Claims P 639629, et al, in the Township of Denyes

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-4888

D. Isherwood:mc

- cc: Placer Development Limited cc: Resident Geologist Suite 2600 401 Bay Street Toronto, Ontario M5H 2Y4
- cc: Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario

Timmins, Ontario

Encl.


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No. Service . 27 -

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Technical Assessment Work Credits

Date 1985 02 07

File 2.7436 Mining Recorder's Report of Work No. 518/84

Recorded	Holder	
		PLACE

ources

PLACER DEVELOPMENT LIMITED

Township or Area DENYES TOWNSHIP

Type of survey and number of Assessment days credit per claim		Mining Claims Assessed		
Geophysical				
Electromagnetic 40	_ days			
Magnetometer 20	_ days	P 639629 to 634 inclusive 639637 639641-642		
Radiometric	_ days			
Induced polarization	_ days			
Other	_ days			
Section 77 (19) See "Mining Claims Assessed" colu	mn			
Geological 20	_ days			
Geochemical	_ days			
Man days 🗌 🛛 Airborn	e 🗆			
Special provision 🗵 Ground	4 X)			
Credits have been reduced because of coverage of claims.	partial			
Credits have been reduced because of corr to work dates and figures of applicant.	ections			
Second and its under section 77 /16) for the follow		nining alaime		
Special credits under section 77 (16) for the foil	owing i	nining claims		
20 DAYS ELECTROMAGNETIC 10 DAYS MAGNETOMETER 10 DAYS GEOLOGICAL				
P 639638				
No credits have been allowed for the following n	nining o	claims		
not sufficiently covered by the survey				

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical --- 80; Geological --- 40; Geochemical --- 40; Section 77 (19)---60:



Technical Assessment Work Credits

	File	
	2.7436	
Date	Mining Recorder's Report of	
1985 02 07	Work No. 519/84	

Recorded Holder

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PLACER DEVELOPMENT LIMITED

Township or Area
DENYES TOWNSHIP

Type of survey and numb	er of r claim	Mining Claims Assessed
Geophysical		
Electromagnetic	davs	
		P 639631 to 635 inclusive
Magnetometer	days	\$3142.85 SPENT ASSAYING SAMPLES COLLECTED
Radiometric	days	ON THE ABOVE-MENTIONED MINING CLAIMS:
Induced polarization	dave	209 DAYS ASSESSMENT WORK CREDIT ALLOWED WHICH
		MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6)
Other	days	
Section 77 (19) See "Mining Claims	Assessed'' column	
Geological	days	
Geochemical	8 days	
_		
Man days 💹	Airborne	
Special provision	Ground	
Credits have been reduced	because of partial	
coverage of claims.		
Credits have been reduced bec to work dates and figures of ap	ause of corrections plicant.	
Special credits under section 77 (16)	for the following min	ing claims
No credits have been allowed for the	following mining clair	ns
not sufficiently covered by the sur	vey 🗌 ins	ufficient technical data filed
P 639629-630		
639636 to 642 ir	clusive	
The Mining Recorder may reduce the	above credits if necessa	ary in order that the total number of approved assessment days recorded on



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Ministry of Natural Resources

Feb. 22/85

1985 02 07

Your File: 518/84,519/84 Our File: 2.7436

Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

march

S.E. Yundt
 Director
 Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3

ROD. Isherwood:mc

Encls.

- cc: Placer Development Limited Suite 2600 401 Bay Street Toronto, Ontario M5H 2Y4
- cc: Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario

845



Ministry of Natural Resources Notice of Intent for Technical Reports

1985 02 07

2.7436/518/84,519/84

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



PLACER DEVELOPMENT LIMITED

November 22nd, 1984

File: 11-2-200-03

Land Management Branch, Ministry of Natural Resources, Whitney Block, Room 6450, Queen's Park, Toronto. Ontario M7A 1W3

> Re: Mining Claims P.639629 to 639642 inclusive Denyes Township, Porcupine Mining Division

Dear Sir,

Enclosed please find reports and maps in duplicate covering geophysical, geological and geochemical surveys as well as trenching and assaying costs. Report of Work forms have been forwarded to the Mining Recorder in Timmins. Copies of these forms together with the letter are included herein.

The Technical Data Statement is also attached. Geophysical surveys covering the remaining water claims is to be carried out starting in early January. No credits for geophysics on these water claims has been applied for.

Should you have any questions regarding this work please contact the writer or Mr. C. Keech.

Yours truly,

PLACER DEVELOPMENT LIMITED RECEIVED

A. H. Jaulkner Charles [] F.H. Faulkner KOV 2 3 1984 S. E. YETER J. R. e. Starsteil A. C. S. S. L. GOODN

FHF/of encl.

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c.c. Mining Recorder - Timmins

401 BAY STREET

(416) 363-2362



PLACER DEVELOPMENT LIMITED

November 22nd, 1984 File: 11-2-200-03

Mining Recorder, Ministry of Natural Resources, 60 Wilson Avenue, Timmins, Ontario P4N 2S7

Re: Mining Claims P.639629 to 639642 inclusive Denyes Township, Porcupine Mining Division

Dear Sir,

Attached please Report of Work forms covering geophysical, geological and geochemical surveys along with assay expenditures and trenching using a plugger.

Reports in duplicate have been forwarded to the Land Management Branch in Toronto along with a copy of these forms.

If you have any questions regarding this matter please contact the writer.

Yours truly,

F.H. Faulkner

PLACER DEVELOPMENT LIMITED

).H. Faulbren.

FHF/of encl.

/c.c. Land Management Branch

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PLACER DEVELOPMENT LIMITED

January 17th, 1985 File: 11-2-200-03

Your File: 2.7597

2.7436

Attention: Mr. D. Isherwood

Land Management Branch, Whitney Block, Room 6643, Queen's Park, Toronto, Ontario M7A 1W3

Dear Sir,

Attached please find copies of receipts showing cheque numbers for assaying costs submitted as assessment costs.

This letter is also an affidavit confirming these charges have been paid by Placer Development Limited.

As per our telephone conversation of today, my understanding is that you now have the technical reports for geophysics, geology and geochemistry and this letter and the receipts will satisfy your requirements of proof of payment.

Should you require any further information please call me.

Yours truly,

PLACER DEVELOPMENT LIMITED

J. A. Saulbren.

F.H. Faulkner

FHF/of encl.

RECEIVED

JAN 18 1985

MINING LANDS SECTION

Sinting to Report of 1519

Mining Lands Section Control Sheet

File No 27436



MINING LANDS COMMENTS:

lad

Signature of Assessor

1.7/1/85

Date













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410155800052 2.7436 DEWTES







