ASSESSMENT REPORT
on
Phase II
Diamond Drilling

on the **BobCat** Claims
Clinton Mining Division, British Columbia

by

Lexington Resources Limited
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Location: Latitude 51 17 North
Longitude 122 33 West
Camelsfoot Range, approximately 70 km WSW of Clinton, B.C. and about 5 km SW of the Blackdome Mine
NTS 92 O / 7 / SE

Subject: Diamond Drilling conducted on the Bobcat claims from September 1 to 28, 1988

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S7H 0X5

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I. Introduction

Lexington Resources Limited, owners of the Bobcat group of claims in the Clinton Mining Division, British Columbia, undertook a two phase exploration programme, concentrating on the Bobcat II claim. The first phase of this project ran from 23 June to 9 August, and consisted of trenching and trench mapping and sampling. The purpose of this phase was to define and delineate targets for subsequent diamond drill testing.

The second phase consisted of a diamond drilling programme to test the downdip and strike extensions of the targets defined during the first phase.

This report provides a review of previous work completed on these claims, and describes the programme undertaken on the Bobcat II claim during 1988.

II. Personnel

The following Lexington Resources Limited and Severn Explorations Limited personnel were employed during the course of this project:

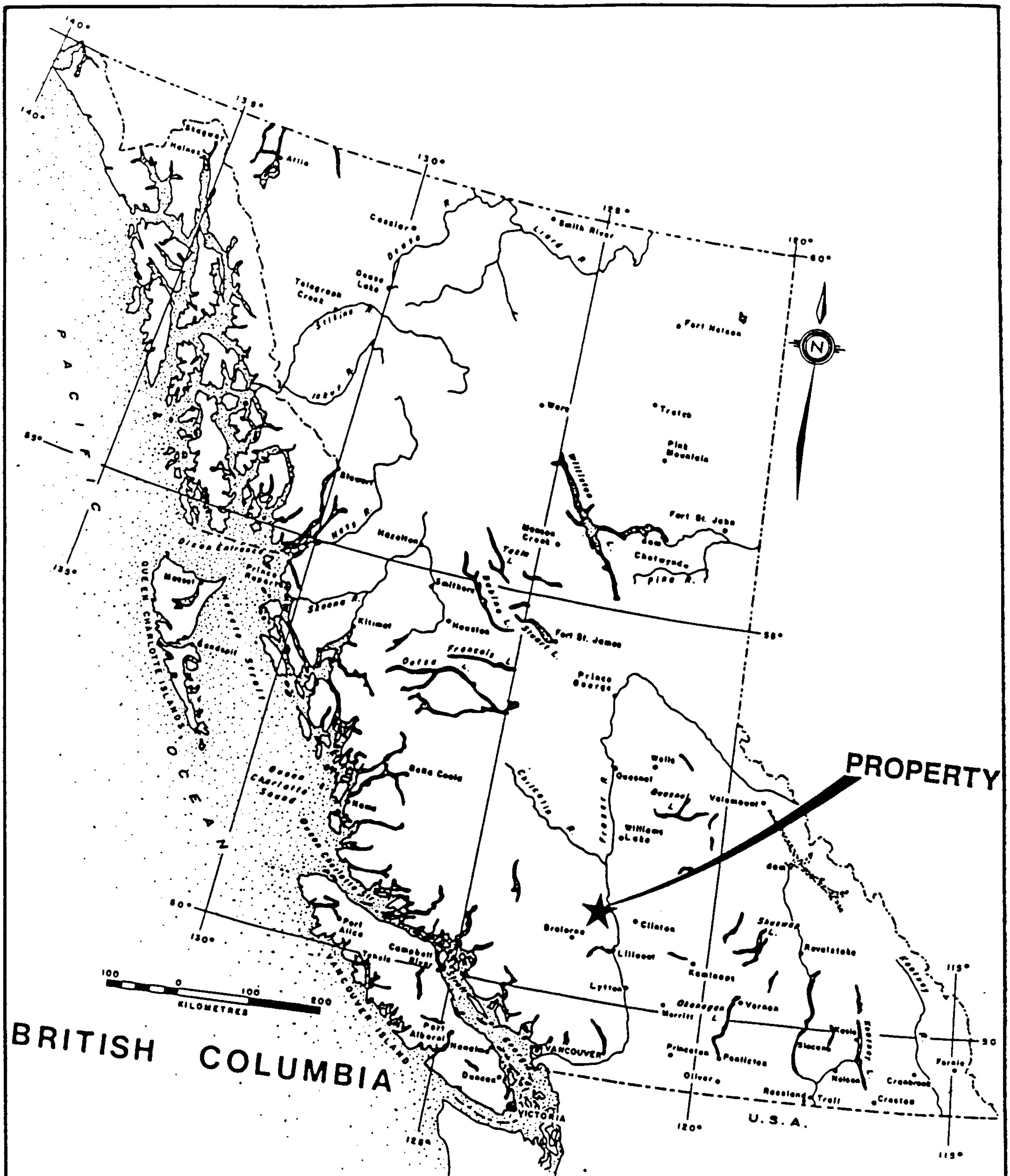
Ms. Karen D. Costello	Diamond Drill Geologist
Ms. Christel Evers	Cook
Mr. Dennis Froc	Camp Technician
Mr. Thomas H. Heine	Project Geologist/Project Manager
Ms. Suzanne Lee	Cook
Ms. Maria Leong	Cook
Mr. Duane Lucas	Project Manager
Ms. Melissa Paulse	Field Assistant
Mr. Donald Sergent	Field Assistant

In addition various personnel were employed from Ashworth Explorations Limited in order to assist with various parts of the project.

III. Location and Access

The Bobcat claims are located in the Camelsfoot Range on the Fraser Plateau, approximately 20 km west of the Fraser River and 70 km WNW of the town of Clinton (Figure 1). The claims are situated between latitudes 51 15' N and 51 19' N, and longitudes 122 31' W and 122 35' W. Their position can be located on N.T.S. map sheet 92 O/7 ("Churn Creek").

The centre of the Bobcat claims is about 5 km southwest of Blackdome Mountain (elevation 2253 m). The Blackdome Mine workings are located approximately 3 km northeast of the eastern boundary of the Bobcat II claim (Figure 2A).



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Property Location Map

Figure 1.

Drafting by T.H. Heine November 1988

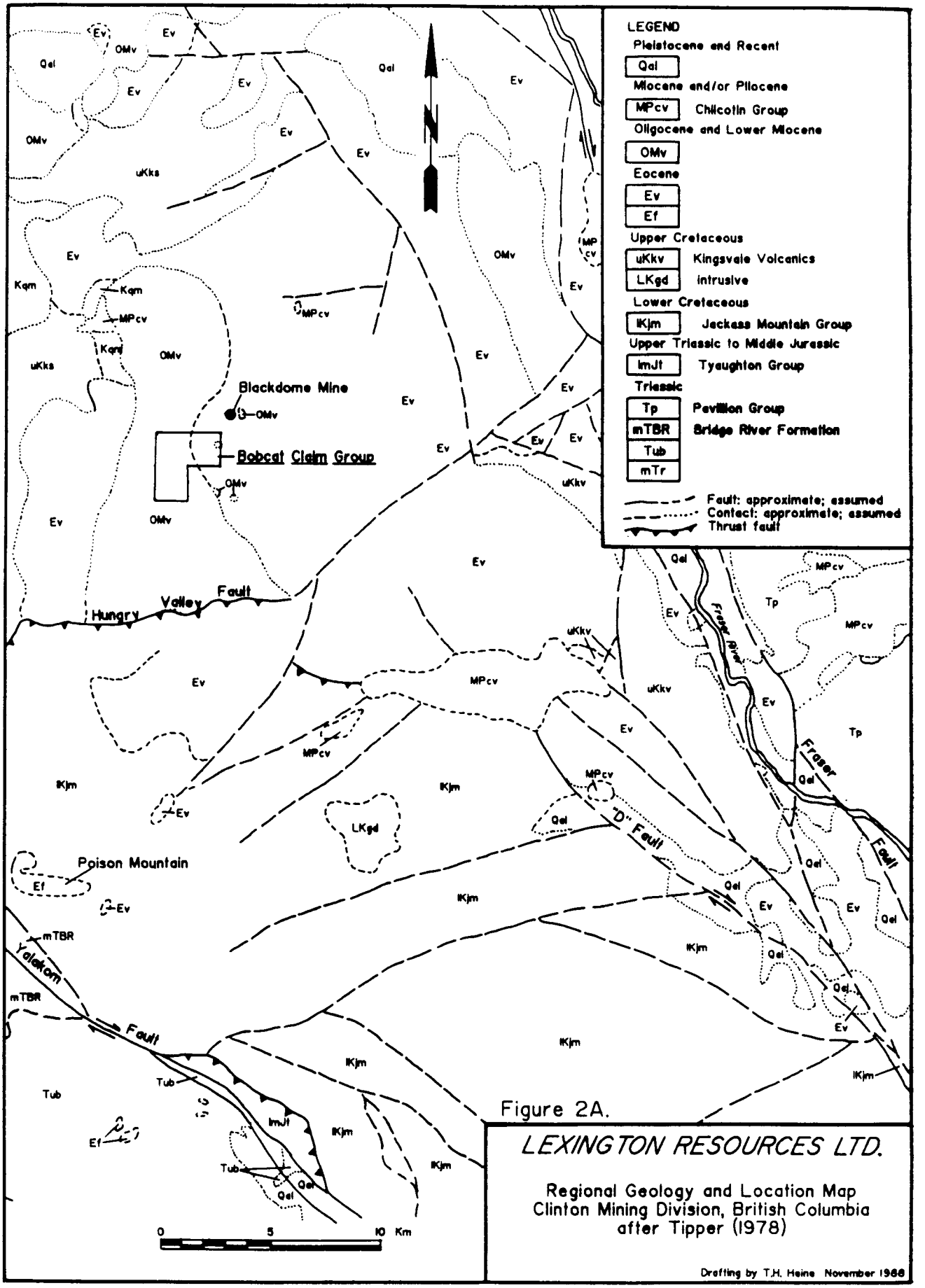

Figure 2A.

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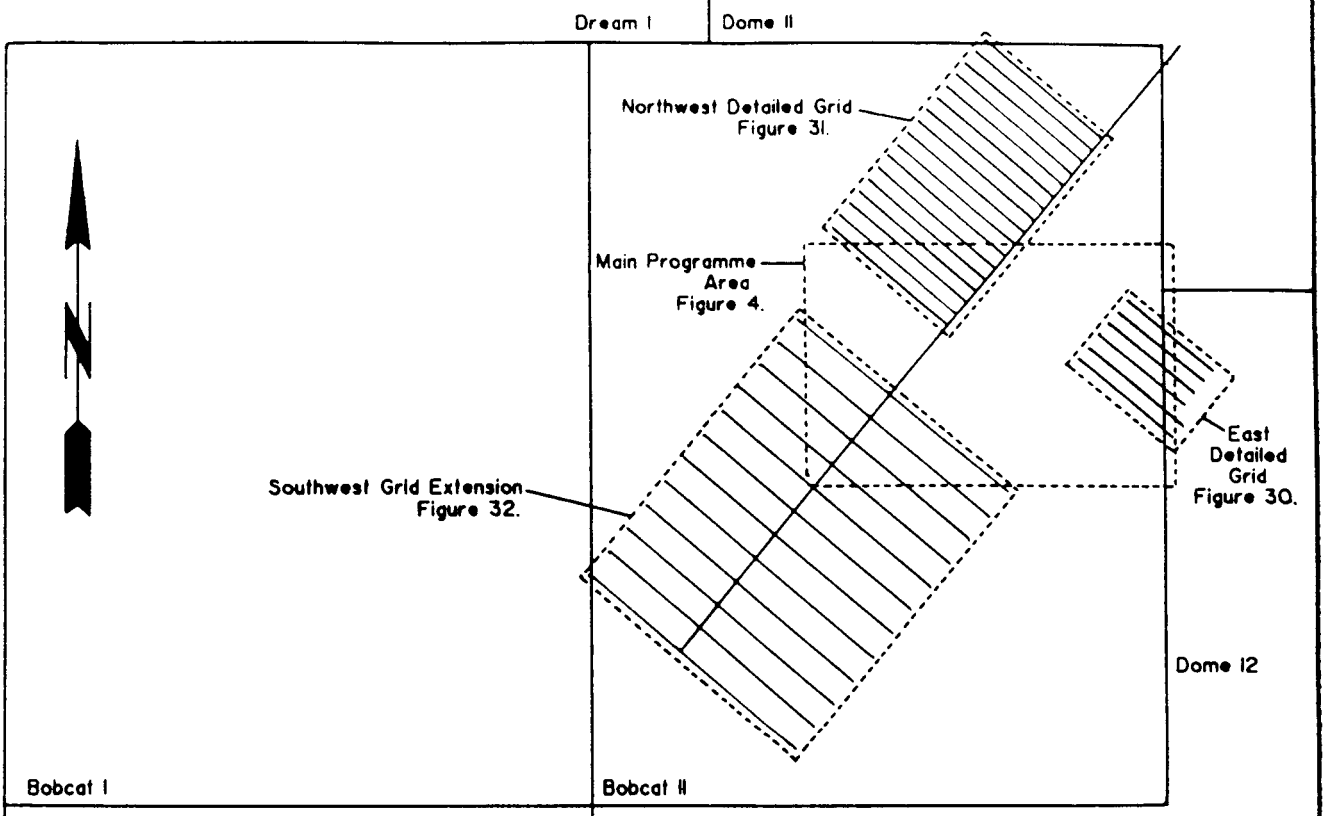
Regional Geology and Location Map
Clinton Mining Division, British Columbia
after Tipper (1978)

Drafting by T.H. Heine November 1988



Claim Status

Bobcat	I	Rec.No.2064	Expiry	Sept.2/1992*	20units
Bobcat	II	Rec.No.2065	"	Sept.2/1992*	20units
Bobcat	III	Rec.No.2066	"	Sept.2/1992*	20units

* Date after reports are filed in Victoria.

0 500 1000 metres

Figure 2B.

LEXINGTON RESOURCES LTD.

Bobcat Project
Programme Location
and
Figure Location Map

Drafting by T.H. Heine November 1988

Elevations range from about 2040 m along the ridge in the southeast corner of the Bobcat II claim to about 1650 m in the valleys north and south of Bobcat I and III. The trenching and drill programme area is located in an area of alpine meadow just above the treeline, at an elevation of approximately 1950 m.

Access to the property is gained via an all-weather gravel road that runs west from provincial highway 97 about 17 km north of Clinton. This road crosses the Fraser River at the Churn Creek bridge, after which the Empire Valley Road is followed south to the turnoff to the Blackdome Mine. This all-weather road is approximately 32 km long, and is maintained by the Blackdome Mining Corporation. At the Blackdome mine site a 4-wheel drive road provides access to the project area, approximately 4 km distant.

IV. Previous Work

1. Pre-1986

The ground presently covered by the Bobcat claims was originally staked in 1980 as the Pony claims. Although these claims are located along the southwestern extension of the auriferous veins presently being exploited by the Blackdome Mining Corporation, they had never been prospected in detail.

In 1981, Mr. R. Dunn, owner/operator of the Pony claims, found anomalous gold values in heavy mineral samples obtained from creek bottoms. The location of where these samples were collected from is not known. Altered and silicified rock chips from float returned assays of up to 2010 ppb gold. These samples were found along the southwestern projection of the Blackdome vein systems, but their absolute location is not known with certainty.

In 1982, 23 soil samples were collected near the northwestern corner of the Pony claims. Three were strongly anomalous in gold (1180 to 2555 ppb), one moderately anomalous in gold (105 ppb), and two weakly anomalous in silver (Fipke and Capell, 1983).

In 1983, chip samples were collected along 6 traverse lines over the Pony claims. All 35 samples, consisting mainly of intermediate volcanic lithologies, returned only background values for gold (Capell, 1984).

The Pony claims lapsed in early 1986, and were restaked as the Bobcat I, II, and III claims by Mr. John Fleishman. The claims were subsequently sold to Lexington Resources Limited. Because witness posts had been used for the original Bobcat staking, the same claims were re-staked in the fall of 1986 by Ashworth Explorations Limited for Lexington Resources Limited.

2. 1986 Programme

A brief report and exploration recommendation for the property was made in 1986 (Sorbara, 1986), in which a two-phase programme was suggested.

The services of Ashworth Explorations Limited were employed

from 20 August to 6 September, during which time an initial examination of the Bobcat property was carried out. Most of the work was carried out along the eastern boundary of the Bobcat II claim adjacent to the Blackdome property. The programme consisted of prospecting, geological mapping, soil sampling, and geophysical surveys (VLF-EM and magnetometer). Analyses of the soil samples indicated a broad zone of anomalous values (including gold, silver, mercury, and base metals) occurring over an area "...at least 1.5 km long, along strike, and averaging 500 m wide." (Laanela, 1986; pp.18).

The VLF-EM survey revealed the presence of a number of weak conductors, one of which is coincident with some anomalous geochemical soil values. The magnetic survey undertaken over the claims is of no value as no diurnal corrections were made for the data collected.

3. 1987 Programme

The services of Ashworth Explorations Limited were again employed from 24 June to 8 July. The project concentrated on the Bobcat II claim, and involved establishing a new grid (baseline oriented at 040), geochemical soil sampling, a geophysical survey (VLF-EM), trenching, and trench mapping and sampling. The soil surveys indicated a number of areas showing anomalous mercury values. The trenching exposed several alteration zones comprising, in part, silicified areas and "highly altered and sericitized (areas)...containing disseminated pyrite in bleached silicified material." (Harrop and Scroggins, 1987; pp.33). Seven alteration zones (described as "veins" in the final report) are indicated, but the disposition or location of these zones was not indicated on the plan map provided in the report.

The results of the VLF survey were Fraser filtered, and show the presence of a number of weak conductive responses, generally trending parallel to the strike of the baseline.

V. Regional Geology

The Bobcat claims lie in an area that is underlain by rocks of Tertiary to Triassic age (Figure 2A). The oldest of these in the property area is the Triassic Pavilion Group, which outcrops on the east bank of the Fraser River approximately 16 km east of the claim group. Ultrabasic rocks of possible Triassic age have been mapped by Tipper (1978) along the Yalakom Fault, 30 km south of the property. These are underlain by rocks that have been correlated with the Lower Cretaceous Jackass Mountain Group and Upper Cretaceous Spences Bridge or Kingsvale Formations (Mathews and Rouse, 1984).

Overlying the Cretaceous strata are sediments, tuffs and flows of Eocene age. Near Blackdome Mountain, the rocks are composed of ignimbrites and possible ash-flow and lapilli tuffs, as well as volcanic flows and debris flows, all ranging in composition from andesitic to rhyolitic. The entire sequence of

sedimentary and volcanic rocks has been correlated with the Kamloops Group, which occurs many kilometers to the south and east of the Bobcat claim group area (Duffell and McTaggart, 1952; Ewing, 1981; Mathew and Rouse, 1984). Unconformably capping the Eocene rocks are basalt flows of Early Miocene or Late Oligocene age (Church, 1980).The stratigraphic column for the Blackdome area is summarized in Figure 3.

Major and trace element investigations of the Eocene rocks show that they are derived from a calc-alkaline magma emplaced in a volcanic arc setting (Rennie, 1988). Eocene quartz monzonite stocks at Poison Mountain, 22 km southwest of Blackdome Mountain, host an auriferous porphyry copper-molybdenum deposit, and may represent the source magma of a volcanic system similar to the one that was the source of some of the the rocks in the Blackdome area.

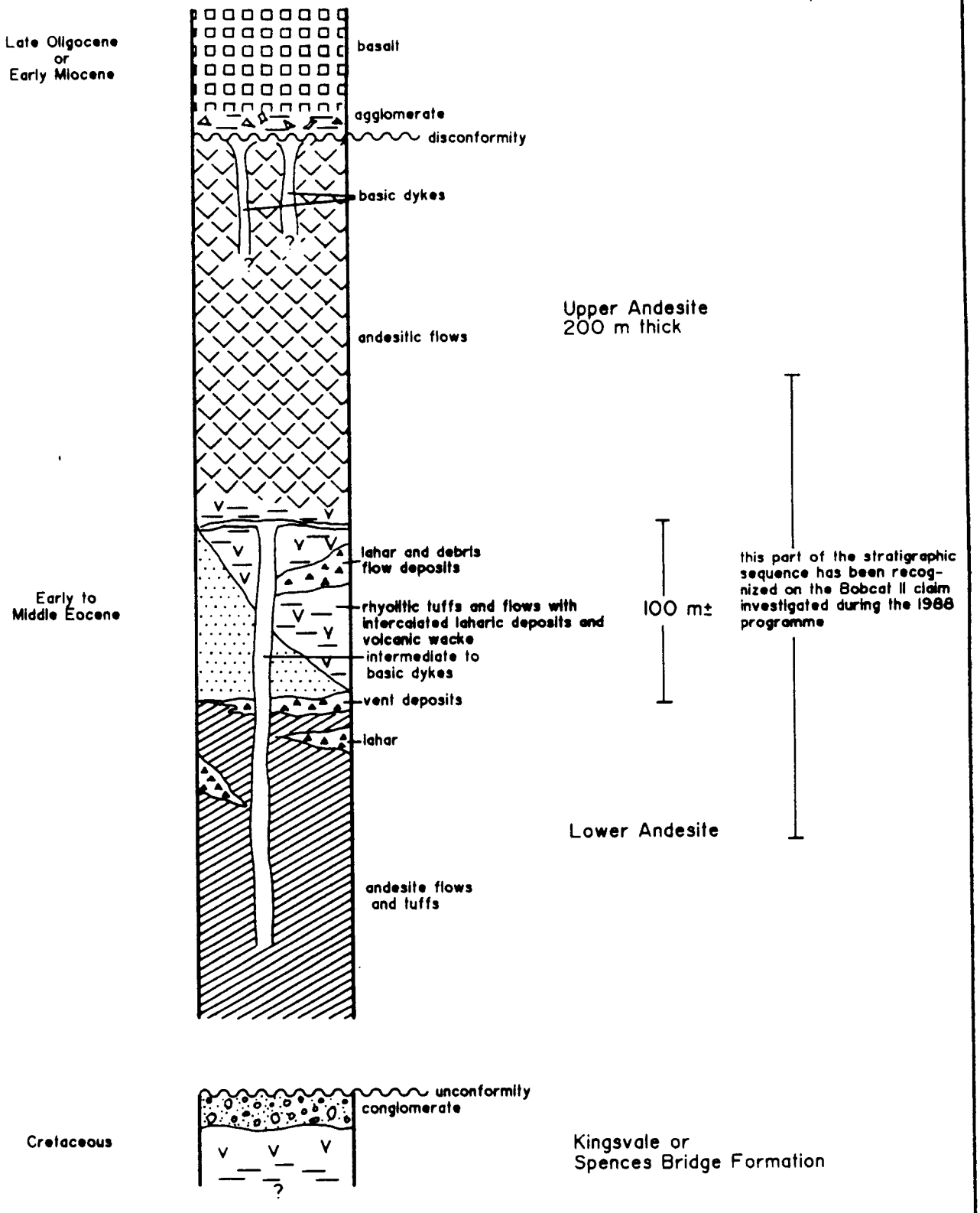
The region is transected by four major fault zones: the Fraser, "d", Hungry Valley and Yalakom faults (Trettin, 1961; Tipper, 1978). The Fraser Fault lies to the east of the property, and is followed by the Fraser River. The "d" Fault is a northwesterly-striking branch of the Fraser Fault that has undergone an unknown amount of strike-slip displacement. It is related to the Hungry Valley Fault, a thrust along which Lower Cretaceous sediments have been emplaced over Upper Cretaceous and Tertiary rocks. Further to the south is the Yalakom Fault, a right lateral strike-slip northwesterly-trending splay from the Fraser Fault. It roughly parallels the Hungry Valley Fault.

Several minor faults have been mapped by Tipper (1978) and are probably related to the above structures.

VI. Exploration Model and Philosophy

The model most appropriate to use for the Bobcat claim group is the typical one for epithermal type precious matals deposits, outlined by numerous authors including Buchanan (1981), Panteleyev ( ), and White (1981). This model has been applied to the genesis of the Blackdome deposit (Rennie, 1988), a short distance to the northeast of the Bobcat claim group.

The following characteristics of epithermal precious metal deposits have been outlined by Panteleyev (op. cit.). They are formed near the surface in terranes where extensional tectonics are prevalent. Ore and associated minerals are deposited dominantly as open space fillings, and commonly show banded, crustiform, vuggy, drusy, colloform, and cockscomb textures. The mineralization occurs from surface to a maximum depth of about 1000 metres. The vertical range of ore averages about 350 metres, and rarely exceeds 600 metres. Ore zones bottom out in barren rock or pass downward into subeconomic zones containing base metal sulphides. The ore is usually hosted by quartz and calcite-bearing veins, with lesser fluorite, barite, and pyrite. The veins can flare and branch upward into wedge-like or cone-shaped features, and at surface broad zones of argillic alteration can predominate. Breccia zones and stockworks also occur within the hydrothermal system. Gold and silver are presently the main metals being exploited from these deposits, but there is often an enrichment in Hg, As, Sb and rarely Tl, Se, and Te. The zones of



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Stratigraphic Column of the
Blackdome Area
(after Rennie, 1988)

Drafting by T.H. Heine November 1988

Figure 3.

enrichment shown by these elements is often separate from the precious metal mineralization, reflecting the differing physico-chemical conditions of the particular hydrothermal system that transported these elements.

The ore in the Blackdome gold-silver mine is hosted by epithermal quartz veins and breccias emplaced along steeply west-dipping, northeasterly striking fault zones in Eocene volcanic rocks and sedimentary equivalents. These rocks have been sheared, hydrothermally altered, and strongly silicified. The gold occurs as fine to medium grained disseminations, and is associated with electrum, acanthite, aguilarite, silver sulphosalts, pyrite, covellite, chalcocite, arsenopyrite, sphalerite and galena. Ore shoots range from 12 to 70 metres in strike length, up to 80 metres vertically, and are up to 3.5 metres thick (Rennie, 1988). There is very little clay associated with the veins in the main part of the Blackdome workings.

The Watson vein, a mineralized structure discovered in 1987 adjacent to the eastern boundary of the Bobcat II claim, is different from the main veins presently being exploited. The mineralization is hosted by a clay-cemented quartz breccia. The character of this structure appears to be identical with some of the alteration zones observed in the trenches mapped during the course of the present programme. Its relation to the quartz-dominated structures to the northeast has not been established.

A review of the work undertaken on the Bobcat claim group prior to the 1988 field programme, and a literature survey on articles published about the Blackdome mine, indicate that there are few exploration methods that are applicable to defining drill targets for detailed investigation. Geophysical surveys (magnetic and VLF-EM) conducted over the Bobcat claims did not delineate any detailed target areas, although a review of the methodology used to conduct these surveys indicates that they were either not properly executed, or the parameters used were not appropriate to the survey type.

Overburden geochemistry, particularly for mercury and gold, appears to be the most useful method for identifying prospective areas for more detailed investigations at this point. The B soil horizon is the most suitable sampling medium because of the immature nature of the surficial cover.

Once prospective areas have been delineated by geochemical means, the source of the anomalous elements has to be identified. In the case of the present programme this was accomplished most efficiently by trenching across the strike of the response using a backhoe. Detailed mapping and sampling the trench allowed the probable source of the geochemical anomalies to be identified.

With the delineation of alteration zones (in the case of this project, these consisted mainly of areas of intense argillic alteration with occasional silicified zones) and their geochemical characteristics, it was possible to prioritize specific zones or parts of zones into areas that appeared to have more economic potential than adjacent ones, and further evaluation could be undertaken. Thus the first phase of the exploration programme on the Bobcat II claim was completed.

In most epithermal precious metal-bearing deposits described to date, there is a well defined zoning to many of the

constituents to these systems (Buchanan, 1981; Panteleyev,). Thus it becomes important to know at what level the rocks affected by a particular fossil hydrothermal system are exposed at in order to come to some estimation as to the potential of these altered areas for containing precious metal mineralization. If the level of erosion has been too deep, any orebody may no longer be present.

The second phase of the programme consisted of diamond drill testing of several areas of alteration zones that were judged to have particular merit, based on elevated mercury values (often in excess of 5000 ppb) and the presence of silicified zones and quartz veins. The holes were generally designed to test the down-dip extrapolations of the alteration zones approximately 100 metres and, if the the geological characteristics warranted it, 150 to 175 metres below surface. A discrete quartz vein/silicified zone was tested at 50, 75, and 100 metres below surface.

The main objective of the drilling phase of the programme was to determine what part of the hydrothermal system was represented by the altered areas intersected, and if deeper parts of these alteration zones were indeed auriferous.

VII. 1988 Program - Phase I

Geological mapping, excavator trenching, and soil sampling were carried out from June 23 to August 9, 1988. These surveys identified zones of propylitic and intense argillic alteration with associated silicification and anomalous mercury values. For further details, see Geological and Geochemical Assessment Report (Heine, Nov. 1988). These zones were tested in 1988 by follow-up diamond drilling (Sec. VIII.).

VIII. 2. Phase II

a. Diamond Drilling

A fairly straightforward set of criteria was used to prioritize areas for diamond drill testing during the second phase of this exploration programme. Alteration zones showing elevated mercury values were assumed to have higher precious metal-bearing potential than adjacent areas with lower mercury values. The initial drill hole testing of a clay-altered zone was designed to intersect the alteration zone 100 metres below surface. Where the alteration was judged to be of sufficient intensity a second hole was drilled to intersect the alteration between 150 and 175 metres below surface.

Because the quartz vein most prominently exposed in trench TR-88-05 already represents a silicified zone, the drill evaluation of this alteration zone was modified somewhat from the method used for the zones of intense argillic alteration: target depths for the initial three holes were set at 50, 75 and 100 metres.

The diamond drilling was contracted to D.W. Coates Enterprises Limited, of Delta, B.C. A total of 2006.6 metres were drilled in 12 holes during the period 1 to 28 September 1988. The pertinent statistics of the drill programme are presented in Table 4.

A Longyear 38 drill was used to recover NQ2 core, which is 5.08 cm in diameter. All drill core is stored at the project site. In order to facilitate moves and to assist in drill pad preparation a Caterpillar D6 bulldozer was contracted from Funk Brothers Excavating of Kelowna, B.C. Water for drilling had to be trucked to each site. Gallant Trucking Ltd. of Kamloops, B.C. supplied a water truck and driver. Water was obtained from some of the trenches for a brief period. While the weather remained dry a bush road provided access to a small creek west of camp. Once the weather deteriorated permission was obtained from Blackdome Mining Corporation to obtain water from their tailing effluent settling pond.

Hole locations were located relative to the nearest grid line. Fore- and backsights were established with the help of a Brunton pocket transit, and the inclination of the drill head was set with the same instrument by the drill geologist.

A Sperry-Sun single shot downhole camera was used to measure drill hole deviation at approximate 50 m intervals. The results of these tests indicate that hole deviation is not significant for the depths drilled during this programme.

The drill core lithological descriptions are presented in Appendix 5.

All of the sample intervals were split with a diamond-bladed core saw, and the samples sent to Chemex Laboratories Ltd. in Vancouver for analysis. The analytical results are presented in Appendix 6.

Hole No.	Latitude	Longitude	Collar Dip	Collar Azimuth	Final Depth (m)	Cumul. m
BC-88-01	10+08 S.	4+75 E.	-55°	114°	185.0	185.0
BC-88-02	10+08 S.	4+75 E.	-70°	114°	183.5	368.5
BC-88-03	9+90 S.	3+20 E.	-50°	111°	214.9	583.4
BC-88-04	9+90 S.	3+20 E.	-65°	111°	224.3	807.7
BC-88-05	8+87 S.	2+95 E.	-50°	111°	215.2	1022.9
BC-88-06	12+34 S.	1+54 E.	-50°	067°	90.2	1113.1
BC-88-07	12+34 S.	1+54 E.	-70°	067°	78.0	1191.1
BC-88-08	12+34 S.	1+54 E.	-84°	067°	102.7	1293.8
BC-88-09	13+42 S.	0+07 W.	-70°	117°	198.3	1492.1
BC-88-10	13+65 S.	0+98 W.	-60°	117°	273.1	1765.2
BC-88-11	14+81 S.	0+21 E.	-60°	117°	184.7	1949.9
BC-88-12	12+23 S.	1+26 E.	-50°	067°	56.7	2006.6

Table 4. Statistics for the 1988 Bobcat project diamond drill programme.

b. Geology

The drill core displays textures of the lithologic sequence much more clearly than could be observed in the trenches, and the lithologic sequence was established in fair detail. In the eastern part of the Bobcat II claim it consists of intermediate volcanic rocks interlayered with immature sediments derived from the surrounding volcanic terrane. It is often difficult to differentiate the the wo groups of rocks. Good sedimentary texures are not common and there is usually little compositional contrast between the rock groups. Contact relationships are often ill-defined and textural differences can be very subtle. Thus, unless the rock types show profound and distinctive compositional differences it is often difficult to correlate units between holes. It appears very likely that the sedimentary component of the sequence intersected by the drill holes contains a much higher proportion of detrital material than is indicated in the lithologic descriptions of the core.

The depositional environment appears to have been a fairly dynamic one, as brecciated units possibly related to debris flow regimes form a substantial proportion of the lithologic assemblage. These are deposited as a result of periodic slope failure of accumulated debris, which may have been initiated by tectonic activity. The sediments and volcanic rocks dip gently to the east, whereas the crosscutting areas of intense argillic alteration dip steeply to the northwest.

Some of the depositional breccias appear to have been silicified, and it is sometimes difficult to differentiate between these units and siliceous veins and quartz matrix stockworks. The silicification of some of the laharic breccias may be diagenetic or it may be related to minor post-depositional hydrothermal activity related to a nearby volcanic centre. It does not show crosscutting relationships to the enclosing lithology, and appears to be separate from the event(s) that led to the formation of the zones of intense argillic alteration.

Holes BC-88-01 and -02

These two holes were designed to test the argillic alteration zone exposed in the eastern end of trench TR-88-02 and in TR-88-09. Although the alteration zone in trench TR-88-09 is just outside the property boundary, its downdip extension lies within the Bobcat II claim. This alteration zone contains very high mercury values (to 1000 ppb in TR-88-02, greater than 5000 ppb in TR-88-09; see Figures 15B and 24B, Appendix 1).

As was expected, a number of alteration zones were intersected in both of the holes (Figure 33A). High mercury values were returned from samples collected from the upper ones, but only relatively low (<500 ppb) values were returned from the deeper parts of the holes (Figure 33B). At depth the alteration is still dominated by clay, and the only silicification consists of narrow stringers and fracture coatings. Calcite is a minor constituent throughout most of the sequence intersected, also occurring as fracture fillings and thin veinlets.

No significant gold values were returned from the assays, and they generally fall below the detection limit (<5 ppb). The highest value obtained is 70 ppb, in hole BC-88-01. There is no suggestion of depletion or enrichment with increasing depth.

Holes BC-88-03 and -04

These two holes were designed to test a major alteration zone exposed in trenches TR-88-01, -02, -07 and -10 (Figure 4). This area was chosen because of the very high mercury values obtained from the alteration zones exposed in trenches TR-88-07 and -10 (Figures 20B and 25B, Appendix 1). In addition, the alteration zone in trench TR-88-10 also contains a strongly silicified area.

The alteration zone mapped at surface continues to depth, and was intersected in both holes (Figure 34A). It continues to be a clay-dominated structure to the deepest levels. A significant silicified zone as was encountered in TR-88-10 was not noted in either of the holes. A number of quartz veins were noted in BC-88-03, but these do not appear to represent significant features. The only sulphide associated with the alteration is pyrite.

High mercury values continue to depth within this alteration zone: a maximum value of 6900 ppb was obtained from hole BC-88-04, and values of 2000 to 5000 ppb are not uncommon in either of the holes within this zone (Figure 34B).

Gold values are generally very low (<5 ppb), with a maximum value of 70 ppb obtained from BC-88-04. No significant trend can be established with respect to the behavior of gold within this alteration zone based on the results obtained from these two holes.

Hole BC-88-05

This hole was designed to test the northeasterly extension of the zone of intense argillic alteration tested by BC-88-03 and -04. Additional interest is given this area because of the proximity of a number of anomalous precious metal values obtained from overburden materials a short distance to the north of the drill site (Fipke and Capell, 1983). This material appears to be

down-ice from the known location of the alteration zone.

The extrapolation of the alteration zone exposed in trench TR-88-10 was intersected by this hole. It consists, in part, of a quartz-cemented breccia, but clay continues to be an important constituent (Figure 35).

The geochemical analyses indicate that there is only a moderate enrichment in mercury. Indeed, the highest value obtained from this altered area is only 480 ppb, with a maximum value for the entire hole of 770 ppb.

The gold values do, however, show a modest enrichment in the lowest levels of the hole, within the targeted alteration zone. There is no accompanying increase in mercury values. This lends some further support to the model being used to evaluate this property, and that mercury is a useful element for use as a pathfinder for gold mineralization.

Holes BC-88-06, -07, -08, and -12

These holes were designed to test the quartz vein/silicified zone exposed in trench TR-88-05 and its northwestern extension. The silicified zone was intersected by three of the four holes (BC-88-06, -07, and -12; Figures 36A and 40). In the deepest hole, BC-88-08, the downdip extension of the quartz vein is represented by an interval of intense argillic alteration (Figure 36A). The alteration also narrows considerably with increasing depth.

Gold values associated with the alteration zone tend to be very low, but are slightly above those determined for the areas of intense argillic alteration on other areas of the property. A maximum value of 65 ppb was obtained from the deepest part of the zone tested, and was obtained from the interval of strong argillic alteration in BC-88-08 (Figure 36B). Parts of the silicified area also contain moderate enrichments in gold, up to 25 ppb.

As is to be expected the mercury values associated with the silicified zone are low, usually less than 300 ppb.

Holes BC-88-09 and -10

These holes were designed to test the northerly extension of the alteration zones exposed in the western end of trench TR-88-01 (Figures 5A, 6A, 7A, and 8A, Appendix 1), and the eastern end of trench TR-88-14 (Figure 28A). The westernmost altered area (Figures 5A and 28A) is characterized by very high mercury values (Figures 5B and 28B), although the other areas of intense argillic alteration also show elevated values. The eastern part of the altered sequence shows elevated gold values, up to 100 ppb (Figure 8B).

The drill holes intersected a number of alteration zones, all of which are clay dominated. The easternmost alteration zone intersected (at the bottom of hole BC-88-09, Figure 37) is a mercury-rich interval (up to 6100 ppb) that also carries elevated gold values (up to 120 ppb). The overlying alteration zones have much lower associated mercury values and do not show any significant gold enrichment. It thus appears that the lowest alteration zone is a target for continuing exploration.

Hole BC-88-11

This hole tested the southerly extension of the altered sequence tested by the previous two holes. A number of altered intervals were intersected, all of which are clay-dominated units (Figure 39). Calcite is a minor but widespread constitent throughout the interval cored. The degree of alteration enountered in this hole was somewhat less than what was expected, given the extent of the alteration zones exposed in TR-88-01 a short distance to the north. Sporadic elevated mercury values were found, especially at the bottom of the hole (to 1800 ppb), but there were only a few elevated gold values (to 40 ppb, in the upper part of the hole). It appears that the main alteration zone is pinching a bit at depth to the south.

c. Conclusions

The alteration zones continue to depth as well defined features. Buchanan (op. cit.) indicates that the upper levels of the alteration zones associated with epithermal precious metal deposits are dominated by phyllosilicates, with little or no quartz veining. As the lower levels of the hydrothermal system are entered quartz veins become dominant, and this corresponds to the main area of precious metal deposition. Calcite content also decreases with depth. The alteration zones intersected by most of the drill holes are dominated by phyllosilicate mineral species (mostly clays), and calcite stringers and veinlets are common constituents. No significant quartz veins or silicified zones, with the exception of the one tested by holes BC-88-06, -07, -08, and -12, were encountered in any of the holes. This suggests that the deepest levels tested by the present programme still represent the upper levels of the hydrothermal system that formed the argillic alteration zones, and that the precious metal-bearing zone, if it is present, has not been reached.

Based on the results of this drill programme the next step in the evaluation of these altered areas would be a deep drilling project to see if the areas of intense argillic alteration resolve themselves into possibly auriferous quartz veins. This effort should be concentrated in the easternmost alteration zone intersected by hole BC-88-09.

IX. Summary and Recommendations

The programme undertaken during the 1988 season was successful in identifying and delineating a series of alteration zones that represent part of a southwesterly-trending fossil hydrothermal system. The high mercury values encountered in some of the intensely altered rocks in the trenches, the scarcity of silicified zones and quartz veins, and the low gold valuessuggest that the upper levels of the hydrothermal system are exposed on the Bobcat II claim. Drill testing of the alteration zones indicate that they remain clay-dominated structures to at least 175 metres below surface, and that sporadic high mercury values continue to the deepest levels tested. This again suggests that

the rocks preserve the upper levels of a fossil hydrothermal system. Thus any precious metal mineralization would be expected at a significantly greater depth than has presently been tested, at least for the zones of intense argillic alteration.

The single quartz vein/silicified zone identified during this programme is an anomalous feature: all of the quartz veins identified on the adjacent Blackdome property trend north-easterly (pers. comm. Blackdome mine staff), whereas the Bobcat vein trends northwesterly. It is also oblique to the main zones of intense argillic alteration. The quartz vein pinches out below 75 metres from surface, and it also pinches along strike.

The soil sampling in the northwestern detailed grid and in the southwest extension grid have outlined a number of areas where more detailed work is warranted. These consist mainly of mercury anomalies, and appear to reflect the presence of subjacent alteration zones.

The following recommendations are based both on the results of the 1988 programme and on a review of the previous work undertaken on the property.

1. A proper grid needs to be established on the property. The baseline for the present grid is well oriented to provide a datum for continuing exploration on the Bobcat claim group. The baseline was cut out with a chainsaw during the course of the 1988 programme by the Ashworth Explorations Ltd. crew, but the crosslines are not properly cut out and picketed. It is strongly suggested that a proper transit-controlled grid be established by a linecutting contractor to cover the main areas of interest on the claim group. This will establish a base that can be used for many years of continuing exploration.

2. Several geophysical surveys (VLF-EM and magnetic) have been undertaken over the Bobcat claims. The usefulness of the data generated by these surveys is dubious at best. The initial ground surveys undertaken over the property (Laanela, 1986) employed an inappropriate transmitting station (Seattle, Washington) in the case of the VLF survey, and improper methodology (no diurnal correction was applied to the data, making it useless) was used for the magnetic survey. The orientation and variable line spacing of the original reconnaissance grid also makes it difficult to interpret the results obtained from these surveys.

Another VLF survey was undertaken over part of the grid in 1987 (Harrop and Scroggins, 1987), and this time Lualualei, Hawaii was used as the transmitting station. The present grid was used for a base, and measurements were taken at much closer intervals than the previous survey. In addition to the dip angle, measurements were also taken of the quadrature, resistivity, and phase angle components of the induced EM field. Notes were also made about the topography in the survey area. Both the dip angle and resistivity measurements were Fraser filtered and the results presented as a series of contour maps. A number of conductive responses are indicated, all of a low intensity, and these appear to correspond to areas of intense argillic alteration exposed in the trenches. A number of more subtle responses also appear to be present, and these may correspond to narrower clay-rich zones. A

direct comparison of the geology with the VLF-EM response would be a worthwhile exercise.

An airborne geophysical survey of the property (Hermary and White, 1988) indicates that the magnetic relief over the Bobcat claim group is approximately 760 gammas, and over the Bobcat II claim approximately 200 gammas. The relief should be sufficient to allow the delineation of areas of intense argillic alteration by magnetic means. A detailed ground magnetic survey using a proper recording base station magnetometer should give a precision and reproducibility of ± 1 gamma.

The same airborne geophysical survey also measured the VLF-EM response of the area, but the inappropriate Seattle and Annapolis, Maryland transmitter stations were used as the energizing sources. As would be expected no significant resposes were obtained, with those observed being attributed to conductive overburden effects.

It is recommended that the property be surveyed in detail by VLF-EM methods, reading from the Lualualei, Hawaii transmitter, and by magnetic methods employing proper methodology and instrumentation. This would provide the most cost-effective and expedient method of evaluating the property by geophysical means.

More detailed evaluation of selected areas can be made by induced polarization methods, but the cost of this type of survey is substantially more than VLF-EM and magnetic surveys.

3. The soil geochemical surveys provide a useful method for identifying areas that may be underlain by zones of intense argillic alteration. Mercury is the best element to use to localize target areas for later evaluation, and silver appears to be a poor pathfinder to the alteration zones. Three areas are outlined in the northwest detailed grid area that may be underlain by zones of argillic alteration, indicated by anomalous and elevated mercury values. A series of trenches could be used to further evaluate these areas, but the thickness of the overburden in the area may hinder this method of anomaly evaluation. The alternative is to use geophysical means, as outlined in section 2 above.

4. The drill evaluation of the areas of intense argillic alteration suggests that the alteration encountered at depth is still within the upper limits of a fossil hydrothermal system, and that the quartz-dominated, potentially precious metal-bearing zone, is still a some depth. Two possibilities exist for further evaluation of these alteration zones: a programme of deep drilling could be undertaken to see if the clay-dominated alteration zones resolve into quartz-dominated precious metal bearing structures similar to those presently being exploited at the Blackdome mine; the alteration zones could also be traced to lower elevations where deeper parts of the hydrothermal system are expected to be exposed. This could reduce the amount of drilling required to evaluate parts of the alteration system.

It is recommended that initial deep drilling be concentrated in the easternmost alteration zone intersected in hole BC-88-09, and that this zone be tested at 100 metre downdip intervals.

5. Only about 15% of the Bobcat claim group has undergone detailed exploration, and only a few areas are ready for additional work beyond the grass-roots stage. The present grid appears to be more or less centrally located with respect to the areas on the property with most economic potential. It should be extended to the southwest to the southern boundary of the Bobcat III claim, and crosslines put in at 50 metre intervals for at least 500 metres on either side of the baseline, claim boundaries permitting.

6. A detailed overburden sampling programme should be undertaken over an upland area in the northeast corner of the Bobcat III claim. The topography in this area consists of a number of hills separated by a series of low depressions, similar to the area that was investigated during the present programme. Outcrop on the adjacent claim to the east also appears to expose an altered area (pers. comm. John Fleishman). A bush road has been put in to the northeast corner of the Bobcat III claim to facilitate access to this area.

7. The overburden over the remainder of the property should be sampled on at least a reconnaissance basis (100 metre line spacing, 25 metre sample interval) to identify areas where more detailed work needs to be undertaken.

8. A source of water needs to be established if any drilling is to be undertaken beyond the summer months. This would neccessitate the establishment of a well with sufficient capacity to supply the needs of the drill programme (65 litres per minute er drill). This would eliminate the expense of a water truck. If a drill programme is mounted the stream west of the present camp site could provide sufficient water for a single machine, but the drilling would need to be undertaken during the summer months, when there is no danger of water-line freezeup.

From the evidence obtained to date it can be seen that this property has a very high potential for hosting an economic precious metals deposit. The presence of alteration zones related to hydrothermal activity has been shown, and it appears that the upper levels of this hydrothermal system are preserved on the property. These areas of intense argillic alteration appear to be identical to the auriferous Watson vein, presently being exploited on the adjacent Blackdome property. Thus there is no reason to believe that these zones are not potentially auriferous.

The model outlined by Panteleyev (op. cit.) for epithermal deposit genesis in the Cordillera appears to be applicable to the metallogenesis of the Blackdome area. Use of this model indicates that even at the deepest levels tested by the current drill programme the rocks preserve the upper portions of a fossil hydrothermal system, and that any gold mineralization is to be found at some greater depth.

The lessons learned from the Blackdome deposit are also applicable to the Bobcat claim group. It took many years and several operators to define a viable gold deposit at Blackdome, but the end result was one of the highest grade deposits

presently being exploited in Canada. Continuing exploration on the Bobcat claim group will demand perseverence and patience.

Severn Explorations Ltd.

Suite 510 - 850 West Hastings Street, Vancouver, B.C., Canada V6C 1E2 Telephone (604) 681-6110

X. ITEMIZED COST STATEMENT

December 21, 1988

Lexington Resources Ltd.
780-885 Dunsmuir Street,
Vancouver, B.C.

Attn: Mr. Graham Hughes
Re: Invoice for Bobcat II Drill Program

Project Preparation	$ 2,500.00
Mob/Demob	5,000.00
Field Crew:	
Aug 16 - Dec 21: T. Heine Project Geologist $375/day x 45 days	16,875.00
Aug 16 - Dec 21: T. Heine Project geologist $300/day x 54 days	16,200.00
Atlantic Management $250/day x 61 days	15,250.00
Aug 16 - Dec 21: K. Costello Geologist $275/day x 41 days	11,275.00
Aug 16 - Dec 21: K. Costello Geologist $225/day x 26 days	5,850.00
Aug 16 - Dec 21: D. Sergent Geotechnician $210/day x 12 days	2,520.00
Aug 16 - Dec 21: D. Froc Geotechnician $225/day x 30 days	6,750.00
Aug 16 - Dec 21: Camp Cook $250/day x 29 days	7,250.00
Drilling Costs: Drill 2006 meters @ $100/m	200,600.00
Surveying	5,000.00
Water Truck $600/day x 29 days	17,400.00
Water Pump $30/day x 36 days	1,080.00
Backhoe $175/hr. x 93 hrs.	16,275.00
Cat D6 $100/hr. x 86 hrs.	8,600.00
Mob/Demob	5,191.00
Camp Costs:	
Food and supplies $50/man day x 283 days	14,150.00
1 4x4 Truck @ $110/day x 61 days	6,710.00
1 4x4 Truck @ 110/day x 49 days	5,390.00
1 Tent Camp @ $225/day x 46 days	10,350.00
1 Trailer Camp @ $250/day x 30 days	7,500.00
Communications @ $50/day x 50 days	2,500.00
	390,216.00

XI Statement of Qualifications

CERTIFICATE

I, THOMAS HERMANN HEINE, of 430 7th Street East, Saskatoon, Saskatchewan, do hereby declare that:

1. I am a geologist, graduate of the University of Windsor, Windsor, Ontario in 1977, with a Master of Science degree in Geology;

2. I have practiced my profession as a mining exploration geologist since 1970, and on a full-time basis since 1977;

3. I have supervised the programmes carried out during the 1988 season, and I affirm that the personnel involved in these programmes are qualified geologists and geotechnicians;

4. I have no interest in the subject property of this report, nor any shares of the company, Lexington Resources Limited;

Dated at Saskatoon, Saskatchewan this 24th day of November, 1988

Thomas H. Heine
Project Manager

XII. REFERENCES

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Appendix 5.

Diamond Drill Core
Lithologic Descriptions

Hole No. BCBB-01
Location: Lat. 10+08S
Long. 4+75E
UTM
Collar Inclination -55°
Collar Azimuth 114°
Casing 21' = 6.40m.
Total Length 185.0m.

Sperry Sun Tests

Depth	Azimuth	Inclination
47.4m	107°	-55°
93.1m	113°	-55.5°
138.8m	113°	-56°
184.6m	112°	-56°

Property BOBCAT
Date started SEPTEMBER 1, 1988
Date completed
Contractor D. W. COATES
Core size NQ2

Logged by K.D. COSTELLO
Date SEPTEMBER 2, 1988

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
0 - 6.40	Casing					
6.40 - 19.75	Andesite Breccia cut by clay (Breccia) seams - pale grey-green andesite fragments, angular to subangular, weak argillic alteration (feldspars altered phyllosilicates); breccia matrix pale to medium grey (no green tint) siliceous, trace pyrite in matrix and in fragments Where noted below, intense - moderate propyllitic alteration (strong rxn ☼ HCl).	6.4-7.4	53501	<5	0.2	300
	6.40 - 6.90m: blocky core, breccia as above, trace euhedral + subhedral pyrite in fragments, rare pyrite in matrix					

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Hole Number BC88-01

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	6.90-9.04m: competent andesite breccia & minor clay minerals in fragments	7.4-8.4	53502	<5	0.3	360
		8.4-9.4	53503	<5	0.1	290
	6.96m: carbonate vein CA 5-10°, 3mm					
	7.14m: carbonate vein CA 5-10°, 5-7mm					
	8.86m: quartz vein CA 25°, 6mm, [illegible] is broken-up (i.e. brecciated)					
	9.04-9.12m, 9.27-9.37m: clay seams, core intervals very broken, no measurable CA; abundant lithic fragments (subrounded) in both seams, intense propyllitic alteration (calcite) in clay seams and immediately adjacent andesite breccia					
	9.46-9.68m: clay breccia seam (clay not as abundant as in above seams - clay more of a cement not a supporting medium) - contains subrounded quartz and lithic fragments, - approximate CA 60° for upper and lower contacts - clay medium grey in colour & trace very fine grained pyrite	9.4-10.4	53504	<5	0.1	230

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Hole Number BC88-01

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	11.47m 11.18 – ~~11.29m~~ : clay seam containing sub-rounded quartz fragments <2mm diameter. > clay is medium grey (no pyrite observed) - upper contact irregular (CA 20-35°) - lower contact distinct @ CA 55°	10.4-11.4	53505	< 5	0.1	190
		11.4-12.4	53506	< 5	0.1	270
		12.4-13.4	53507	< 5	0.1	260
		13.4-14.4	53508	< 5	0.1	190
		14.4-15.4	53509	< 5	0.1	220
		15.4-16.4	53510	< 5	0.1	220
		16.4-17.4	53511	< 5	0.1	150
	11.29 – 19.75m : competent breccia, as in 6.4-6.9m only minor clay fragments angular to subangular & edges of some bleached (white grey in colour as opposed to pale grey-green) 15.43-15.44 clay seam, medium grey (CA 45°)	17.4-18.4	53512	< 5	0.1	170
		18.4-19.4	53513	< 5	0.1	130
		19.4-20.4	53514	< 5	0.1	150
19.75 – ~35.8	Dacite, porphyritic, pale grey-green & white qtz phenocrysts (appears to be 10+5% quartz) - trace anhedral pyrite blebs; groundmass very calcareous (strong rxn HCl); trace breccia / clay seams; - core well, competent unit, blocky.	20.4-21.4	53515	< 5	0.1	100
	19.9 – 20.02 sandy clay seam, CA not measurable as interval 19.9-20.4 very blocky 20.4-21.4 very blocky, 0.8m recovered, 0.2m lost at start of interval					

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Hole Number BC88-01

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
35.8 - 53.92	Andesite breccia (multi-phase)	33.1 - 34.1	53516	15	0.1	480
	35.8 - 36.9m. Siliceous stringers cutting	34.1 - 35.1	53517	10	0.1	440
	pale grey andacite (similar to	35.1 - 36.1	53518	5	0.1	230
	"crackle breccia" observed in	36.1 - 37.1	53519	10	0.2	170
	some breaks), progresses into clayey					
	breccia described bellow					
	- trace fine grained pyrite					
	(euhedral & subhedral) in quartz					
	stringers;					
	36.9 - 45.0 breccia - angular to subangular	37.1 - 38.1	53520	<5	0.1	130
	pale grey (bleached) clasts in	38.1 - 39.1	53521	5	0.1	130
	medium grey matrix, locally	39.1 - 40.1	53522	<5	0.1	230
	plastic clay matrix (medium	40.1 - 41.1	53523	<5	0.1	780
	grey & trace visible pyrite)	41.1 - 42.1	53524	<5	0.1	700
	- cutting across breccia are	42.1 - 43.1	53525	<5	0.2	890
	minor interlabs of clayey					
	broken core; fragments are					
	weak to moderately argillic altered.					
	42.45m - 42.46m: quartz vein,					
	brecciated, associated					
	& grey clay rich					
	breccia					
	- vein (A 40-45°, 1.5cm					
	quartz is White					
	translucent					
	38.82 - 39.88m: medium grey clay					
	matrix breccia					

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Hole Number BC88-01

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	- appears to cut earlier	43.1-44.1	53526	45	0.5	1000
	brecciated dacite at	44.1-45.1	53527	40	0.2	760
	CA 10-20°, ± thin					
	(1-2mm) quartz					
	stringer coating					
	contact 39.18-39.39m					
43.27 - 43.5m	angular pyrite (+/cm)					
	masses in breccia					
	± pale grey breccia					
	fragments moderately to					
	intensely argillic					
	altered; angular → subangular					
43.5 - 43.8m	pyritic clay breccia (matrix supported), ± altered					
	fragments as above					
43.8 - 44.06m	less clay and less					
	altered fragments					
44.06 - 44.28m	<1cm subangular					
	+ subrounded fragments (altered as					
	in 43.5 - 43.8 and					
	angular pyritic					
	fragments) in clayey matrix					
44.28 - 44.5m	angular + subangular					
	weakly argillic altered					
	breccia fragments in medium					

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Hole Number BC88-01

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	grey clay matrix					
	44.5 - 44.7m pale grey-green					
	dacite ± trace fine					
	grained pyrite (disseminated)					
	± grey quartz stringers					
	CA 70-75°, 1-2mm, trace					
	pyrite					
	- minor clay					
	44.7 - 45.0m subangular to subrounded					
	brecciated fragments ±					
	medium grey clay matrix					
	- upper + low contacts ~					
	CA 20°, trace pyrite in					
	clay.					
	45.0 - 50.03m: pale grey-green, very weakly	45.1-46.1	53528	70	0.2	1000
	argillic altered dacite, cut	46.1-47.1	53529	10	0.1	570
	by healed fractures some	47.1-48.1	53530	< 5	0.1	370
	at irregular core axis, others	48.1-49.1	53531	< 5	0.1	320
	at consistent CA 20°	49.1-50.1	53532	< 5	0.1	600
	- dacite is porphyritic - phenocrysts					
	< 1-2mm, trace qtz 'eye' ±					
	darker (chalcedonic?) veins					
	- carbonate veins 3mm @ +5-7mm					
	46.4 + 46.5, respectively					
	- trace disseminated pyrite					

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Hole Number BC88-01

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	Subangular - subrounded clayey breccia intervals at 45.55-45.63m & 45.9-46.1m, intervals of broken core; upper contact of former CA 40°, lower contact irregular; latter contact's irregular					
	50.03-53.92.					
	Angular - subangular weakly argillic altered clasts breccia	50.1-51.1	53533	<5	0.2	250
	- fragments pale grey, matrix	51.1-52.1	53534	<5	0.1	310
	medium grey (quartz rich).	52.1-53.1	53535	<5	0.1	1000
	- breccia cut by less competent	53.1-54.1	53536	<5	0.1	1,300
	clay breccia seams @					
	51.89m 1.5cm wide, 52.04 1cm wide					
	50.2-53.92m: trace calcite					
	in breccia matrix, occurs					
	interstitial to fragments.					
	trace to 1% fine grained pyrite					
	as irregular stringers in the					
	breccia matrix					

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Hole Number BC88-01

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
53.92 - 62.62	Dacite porphyrite	54.1 - 55.1	53537	< 5	0.1	1000
	- distinctly darker grey (now medium grey) coloured dacite, white phenocrysts < 1mm, trace pyrite as fine disseminations + in ≤ 1mm stringers	55.1 - 56.1	53538	< 5	0.1	690
		56.1 - 57.1	53539	< 5	0.1	1300
		57.1 - 58.1	53540	10	0.1	1100
	- locally brecciated; also cut by clay breccia seams	58.1 - 59.1	53541	5	0.1	630
		59.1 - 60.1	53542	10	0.2	630
	- trace irregular stringers filled ± white quartz, calcite, and some ± clay - white to pale green (possibly sericite)	60.1 - 61.1	53543	< 5	0.1	860
		61.1 - 62.1	53544	< 5	0.1	950
	- prominent stringers @ 56.3m CA 50°					
	56.48 CA 30°, 57.03 CA irregular					
	61.79 CA 40°, 62.07m CA 70-80°					
	Clay Breccia seams					
	57.3 - 57.45m: subangular ± subrounded lithic fragments in clay matrix, CA ~ 40°					
	58.03m 1cm dark grey clay, CA ~ 50°					
	59.72 - 59.82m: as in 57.3 - 57.45m, CA ~ 50° at lower contact, upper contact irregular	62.1 - 63.1	53545	30	0.2	670
62.62 - 65.1	Dacite					
	- pale grey dacite fragments moderately argillic altered	63.1 - 64.1	53546	50	0.3	1100
		64.1 - 65.1	53547	15	0.2	1000
	62.62 - 64.0 m: oval-shaped calcite ± minerals; qtz (phenocrysts ± altered?).					
	- subrounded quartz ± lithic fragments,					

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Hole Number BC88-01

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
6	64.0-65.1 pale grey, greenish tint > porphyritic dacite competent interval - cores well, locally blocky - minor clayey breccia/fracture intervals noted below, approx CA 45-50° - rare siliceous stringers cut core CA ≈65°					
65.1→	Dacite, pale grey green, trace fine grained disseminated pyrite, generally weak argillic alteration; propyllitic alteration moderate to intense (very calcareous groundmass) - blocky core - local moderate to intense argillic alteration 65.13 - 65.17m - pale grey clay & fine grained pyrite - 67.0m irregular quartz stringer 2-3mm - dacite porphyritic ≤ 1mm white felsic (quartz + feldspar) phenocrysts and up to 2mm anhedral-subhedral mafic phenocrysts; groundmass pale grey green - very siliceous - intervals noted where quite - quartz stringers (healed fractures) present	65.1-66.1 66.1-67.1 67.1-68.1	53548 53549 53550	< 5 < 5 < 5	0.3 0.1 0.1	370 350 140

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Hole Number BC88-01

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	69.62 - 69.8m numerous very fine (<1mm) healed fractures, qtz healed CA ~10°, calcareous, weak to mod. brat argillic altered	68.1 - 69.1	53551	< 5	0.1	170
		69.1 - 70.1	53552	< 5	0.1	340
	69.66m 0.6cm pyrite and qtz healed stringer,	70.1 - 71.1	53553	20	0.3	870
	pyrite coats both edges and is the					
	main component (~ 70%) of the					
	stringer, CA 70°					
	69.77m 0.5cm pyrite healed stringer CA 95°					
	69.82m 0.4cm pyrite + qtz healed stringer CA 65°					
	pyrite coats both edges, and is					
	about 50% of the stringer					
	70.15 - 70.25m : numerous very fine (<1mm) quartz					
	healed fractures/ stringers CA ~10°					
	79.18 - 79.19m 2 thin 1-2mm pyrite stringers CA 65°					
	79.21 - 79.23m irregular pyrite, qtz and					
	carbonate (calcite)					
	stringer 1-1.5cm wide,					
	CA ~ 65-70°, pyrite on					
	outer edges followed by					
	qtz and calcite					
	70.45 - 71.39 ≤1mm grey qtz stringers CA 10° as in					
	above intervals:					
	70.49 CA 70° py-qtz stringer 1-2mm					
	70.69 CA 75° py-qtz stringer 1-3mm					

LEXINGTON RESOURCES LTD.

Hole Number BC88-01

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	70.92 - 70.96m @ 1-3mm pyrite ± minor quartz stringers CA60°					
	71.15 - 71.39 m: 1-3mm qtz stringer CA70° ± minor pyrite, high concentration CA10° quartz healed fractures, moderate argillic alteration	71.1-72.1	53564	<.5	0.1	720
		72.1-73.1	53555	<.5	0.1	110
	71.79m. CA80° 2-1-2mm pyrite stringers ±	73.1-74.1	53556	<.5	0.1	540
	CA 15-20° qtz-pyrite stringer starting at 71.79	74.1-75.1	53557	<5	0.1	580
	72.07m CA70° qtz-pyrite healed fracture 2-3mm 50° to 71.97m	75.1-76.1	53558	<5	0.1	600
	73.17m. CA20° pyrite-qtz stringer 1mm					
	73.15, 75.26m CA70° pyrite-qtz stringer 2mm					
	74.01m 0.8cm pyrite-qtz-calcite vein CA55°					
	74.44m: irregular pyrite-qtz stringer 6mm CA70°					
	75.56 m: pyrite-qtz-calcite healed (bx) fracture CA55°, 4-5mm					
	75.9-76.35m: medium grained, "foliation" CA20° weakly argillic altered					
	- qtz-pyrite stringers/veinlets CA20° @ 75.9, 75.98 ± 1-2mm wide,					
	- later CA70°, CA65° pyrite-qtz-calcite veinlets @ 76.21m, 76.27m, 76.33-76.34m (the latter at CA65° and 1cm wide, the former <3mm and CA70°					

LEXINGTON RESOURCES LTD.

Hole Number BC88-01

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	77.2 - 77.38m "foliation" CA 30° defined by <1mm qtz stringers, cut by later pyrite-quartz veinlets CA 40°,	76.1 - 77.1	53559	5	0.1	750
		77.1 - 78.1	53560	<5	0.1	1000
		78.1 - 79.1	53561	<5	0.1	600
	77.58 - 77.83m: CA 25° foliation as in 77.2 - 77.38m & later qtz - pyrite vein CA 80°, 8mm wide	79.1 - 80.1	53562	<5	0.1	1700
	79.05 - 79.18m: "foliation" as above CA 20° cut by <1mm qtz-pyrite stringers CA 25° and later 1-2mm qtz-pyrite veinlets CA 40-45°					
	79.33 - 79.5m "foliation" as above CA 25° cut by <1mm qtz & minor pyrite stringers CA 25°					
	79.58 - 80.03m "foliation" CA 15° defined by qtz-py (<1mm) stringers					
	79.83 - 79.83m - CA 25° 3cm white calcite veinlets across foliation					
	80.24 - 80.60m: "foliation" CA 20° - shearing? moderate argillic alteration cut @ 80.35 by irregular ~1cm py-qtz-calcite vein					
	80.8 - 81.1m blocky broken core - patchy epidote porphyritic clasts, groundmass weak to moderately calcareous	80.1 - 81.1	53563	10	0.1	930
		81.1 - 82.1	53564	<5	0.1	510
	82.08 - 82.23m "foliation" defined by qtz & trace pyrite (<1mm) stringers CA 20° cut by later qtz-py-calcite veinlets @ CA 80° (<5mm wide) & 1.7cm CA 80°					

LEXINGTON RESOURCES LTD.

Hole Number BC88-01

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	83.18 - 83.35m as in 82.08-82.23m but later qtz-pyrite	82.1-83.1	53565	<.5	0.1	970
	stringers < 5mm w.d.	83.1-84.1	53566	<5	0.1	790
		84.1-85.1	53567	15	0.2	900
	84.26m start of "foliation" CA 75°-25°, end @ 84.95					
	84.38 - 84.54m medium-dark grey clay healed fractures, fracturing irregular - cuts across "foliation					
	84.54-84.75m: CA 15° <<1mm qtz stringers cut by later CA 80-85° 1mm qtz-py stringers					
	85.22 - 85.3m: as in 84.54-84.75, 2 qtz-py vein 6mm @ 85.26m	85.1-86.1	53568	<5	0.2	870
		86.1-87.1	53569	<5	0.1	640
		87.1-88.1	53570	<5	0.1	550
	85.49m - 89.35m. qtz ± pyrite healed fractures/stringers	88.1-89.1	53571	<.5	0.1	900
	CA 15-25° pervasive throughout					
	-cross cutting veinlets noted below					
	85.48m CA 85° qtz ± minor py 3mm					
	85.70m CA 80° " " " 1-2mm					
	85.78m: CA 20° clayey broken surface					
	86.21m: CA 60° irregular qtz + minor py 2mm					
	86.33m: CA 70° irregular qtz - minor py 1-2mm					
	86.54m: CA 70° " " " "					
	87.69m CA 35° qtz ± minor py 2-3mm					
	87.88m CA 60° qtz + pyrite 2-3mm					
	88.42m CA 75-80° qtz ± minor py 3-4mm					

LEXINGTON RESOURCES LTD.

Hole Number BC88-01

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	89.0 - 176. minor CA 10-20° structures					
	89.6 - 89.94m: broken core, slight loss (clay washed out), ~10-20% (vol+) clay-carbonate healed breccia seam CA 10-15°	89.1-90.1	53572	<5	0.1	1200
		90.1-91.1	53573	<5	0.1	830
		91.1-92.1	53574	<5	0.1	510
		92.1-93.1	53575	<5	0.1	510
	92.55-92.6 m: broken core - clay-carbonate breccia seam					
	92.69-92.71 m: broken core - clay ± minor carbonate breccia seam, approx CA 40°					
	92.90-92.96m: 50% core washed out - coarse white calcite and dark grey clay	93.1-94.1	53576	<5	0.1	770
	93.66-93.96m: grey clay breccia 'vein' ± calcite lining - CA 15-20°, 2→2.5cm wide	94.1-95.1	53577	<5	0.1	920
	95.55-96.9m: CA 0-5° pale to medium clay + carbonate healed breccia, lithic fragments angular to subangular.	95.1-96.1	53578	10	0.1	1500
		96.1-97.1	53579	15	0.2	4900
		97.1-98.1	53580	<5	0.1	1600
		98.1-99.1	53581	<5	0.1	710
	98.5m: qtz-py veinlet 4-6mm wide CA 55°	99.1-100.1	53582	10	0.1	1600
	98.7m: qtz-py veinlet 2-3mm wide CA 70°					
	99.15m: CA 60° py veinlet 1mm wide					

LEXINGTON RESOURCES LTD.

Hole Number BC88-01

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	99.6 - 106.16 m: medium grey green dacite/andesite porphyritic (some phenocrysts altered to phyllosilicates)					
	- cut by thin 1-3mm calcite stringers/veinlets					
	- calcareous					
	- blocky core.					
	102 - 102.8m - very blocky interval & minor dark grey clay & calcite at 102.51m					
	106.16 - 106.46m: medium to dark grey clay healed altered lithic (fragments) + calcite - quartz (fragments) breccia:	106.1-106.6 (0.5m)	53583	< 5	0.1	580
		106.6-107.6	53584	< 5	0.1	920
		107.6-108.6	53585	< 5	0.1	370
	- upper contact CA35° distinct					
	- lower contact CA20° distinct					
	- lithic fragments subangular to subrounded, generally <1cm diameter; with calcite + quartz fragments angular and up to 5cm long					
	106.46 - 111.10m: as in 99.6-106.16 but very rare calcite stringers	108.6-109.6	53586	< 5	0.1	220
		109.6-110.6	53587	< 5	0.1	450
	109.1m 0.5cm clay/fault seam CA40°	110.6-111.6	53588	< 5	0.1	590

LEXINGTON RESOURCES LTD.

Hole Number BC88-01

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	111.10-	111.6-112.6	53589	10	0.2	700
	contact approx CA 20-35° marks start of pale grey, green calcareous dacite, weak clay alteration, trace py					
	111.66-112.04 m: breccia - subrounded to subangular weakly argillic altered dacite fragments in medium grey siliceous groundmass					
	112.04-112.28m: medium grey plastic clay/ - upper contact - core broken ~ CA 80-90° - lower contact irregular, CA varies 30°-50° ~1% fine euhedral pyrite in clay	112.6-113.6	53590	<5	0.1	560
	112.22-115.22m± only minor apparent	113.6-114.6	53591	<5	0.2	750
	115.24-115.29m brecciation -	114.6-115.6	53592	<5	0.2	450
	115.22-115.24m: CA 60° 1.2cm clay/fault breccia seam					
	115.29m: CA 90° 2-4mm clay/fault breccia seam					

LEXINGTON RESOURCES LTD.

Hole Number BC88-01

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	starting @ 115.29m. brecciation more:	115.6-116.6	53593	<5	0.1	930
	to 116.99m apparent ± pale grey					
	green weak to moderately					
	argillic altered lithic					
	(dacite) fragments in					
	pale to medium grey					
	(siliceous) matrix					
	- trace pyrite in fragments					
	and "matrix" as stringers					
	broken core surfaces:					
	"clayey feel					
	- cut by thin (<2mm)					
	calcite stringers/					
	healed fractures, CA					
	vary from 50° - 65°					
	116.99 - 117.25 pale grey clay	116.6-117.6	53594	10	0.2	720
	seam/fault ± angular					
	quartz fragments					
	< 1cm diameter and					
	cut by later calcite-Qtz					
	vein @ 117.2 ~CA 55°					
	- euhedral pyrite in					
	clay (clay locally					
	calcareous)					
	120 - 120 "foliation" - quartz stringers <1mm					
	" 40 " " (trending ?)					

LEXINGTON RESOURCES LTD.

Hole Number BC88-01

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	117.7-117.85m calcite vein CA 0-30 2mm (follows core length	117.6-118.6	535945	10	0.1	510
	117.85m CA-75° 3mm calcite-quartz-py vein					
	117.99m CA+60° irregular 3mm qtz-py-clay vein					
	118.09-118.14m: 5cm wide: CA 40° clay breccia vein/seam-c. trace angular quartz fragments <0.5cm, trace euhedral pyrite, and abundant altered lithic fragments - contacts distinct	118.6-119.6	535946	<.5	0.1	150
	118.35-120.15m: broken-blocky core interval trace calcite veins <1mm CA 45-55°	119.6-120.6	535947	<.5	0.1	120
	120.15-120.16m: clay seam/fault CA 45°, trace red-brown (Fe oxide?) staining of clay, also trace euhedral pyrite					
	120.16-120.6m: calcite c. minor quartz, breccia veins CA 50°-60° up to 1.5cm wide c. angular pale grey green dacite fragments - veins cut earlier breccia of dacite in siliceous groundmass c. minor pyrite					

LEXINGTON RESOURCES LTD.

Hole Number BC88-01

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	120.6 - 123.95 m	120.6-121.6	53578	< 5	0.1	90
	- pale green-grey dacitic quartz, calcite and vuggy feldspar porphyritic, 2 unit:					
	cut by calcite veins and pyrite-quartz ± calcite and clay stringers					
	- trace fine grained pyrite					
	121.4 m CA 20° 1.5cm calcite vein & splays 1-3mm at CA 0°	121.6-122.6	53577	< 5	0.1	90
		122.6-123.6	53600	< 5	0.2	280
	122.02m: 1-2mm calcite vein/brecciated fracture CA 75°					
	122.2 m 1-3mm calcite stringer CA 70°					
	122.4 m: CA 75° 1-2mm calcite stringer					
	122.82 - 123.02 m: 5 pyrite-quartz stringers 2 - 10mm, CA 25°, 40°, 45°					
	123.02 - 123.14 m very broken core, moderate argillic alteration & pink-red stain (Fe oxide?), approximate upper contact CA 20°					
	123.95 - 126.7 m					
	pale green-grey clastic breccia breccia fragments similar to matrix in composition & minor calcite in matrix	123.6-124.6	53601	< 5	0.1	760
	- some fragments have alteration rinds (appears to be bleaching) fragments generally subrounded & subangular					

LEXINGTON RESOURCES LTD.

Hole Number BC88-01

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	- cut by calcite veins/healed fractures at irregular intervals and rare pyrite - quartz - calcite veins noted below					
	124.64m irregular stringer CA10-50°	1246-125.6	53602	< 5	0.2	400
	3-4mm wide	125.6-126.6	53603	< 5	0.4	230
	125.08m vein 2mm CA 40°					
	125.82-125.89m clayey seam CA ?					
	126.32m 8mm calcite vein ± minor quartz along edges CA 60°					
	126.7-131.43m: no distinct brecciation of calcite, minor calcite stringers/veins cut core, clay seams noted below	126.6-127.6	53604	< 5	0.2	170
		127.6-128.6	53605	< 5	0.1	70
		128.6-129.6	53606	< 5	0.1	50
	- locally faint foliation CA 50°	129.6-130.6	53607	< 5	0.1	100
	128.16m: 6mm calcite vein CA 70°	130.6-131.6	53608	< 5	0.1	110
	128.50-128.62m: clay altered interval, no CA					
	129.24-129.28m: clay interval ± CA 70° qtz stringer 0.6cm					
	129.38m: 3mm calcite vein CA 70°					
	129.62m 1cm calcite vein CA 80°					
	130.2m: 5mm calcite vein CA 50° ± trace quartz					
	130.88m 5-8mm calcite vein					

LEXINGTON RESOURCES LTD.

Hole Number BC88-01

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	131.43 - 135.6	131.6-132.6	53609	< 5	0.1	230
	breccia - angular altered (weak argillic)	132.6-133.6	53610	< 5	0.2	220
	dacite fragments (pale green-grey), in	133.6-134.45	53611	< 5	0.2	120
	medium green, locally grey matrix	134.45-135.45	53612	35	0.2	150
	(siliceous ± minor pyrite and carbonate)					
	- fragments frequently have pale grey					
	to white alteration rinds					
	134.45 - 135.50m: intense clay zone (outlines of					
	altered relict lithic fragments visible					
	as slight colour contrasts,					
	trace angular white quartz					
	fragments in clay					
	- upper contact ~ CA 60°,					
	lower contact not distinct					
	135.45 - 135.6. breccia ± minor clay inter-	135.45-136.45	53613	15	0.3	120
	stitial to fragments (dark					
	green, slightly argillic altered)					
	135.6 - 149.2	136.45-137.45	53614	< 5	0.1	50
	breccia / healed fractures in pale to	137.45-138.45	53615	15	0.1	90
	medium green dacite; locally clayey/					
	broken core intervals, irregular calcite					
	veins cut interval; feldspars in dacite					
	altered to phyllosilicates					

LEXINGTON RESOURCES LTD.

Hole Number BC88-01

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	Clay Zones:	138.45-139.45	53616	< 5	0.2	160
	137.03-138.0m: zone of fractures filled with clay having minor red pink Fe oxide stain + calcite, CA80°	139.45-140.45	53617	< 5	0.1	250
		140.45-141.45	53618	< 5	0.1	130
	138.0-138.12, 138.33-138.37m: grey pyritic clay breccia c trace red pink Fe oxide stain, CA80-90°	141.45-142.45	53619	< 5	0.1	250
		142.45-143.45	53620	< 5	0.2	410
	141.55m: 1cm clay/fault gouge CA50°, ≤2mm subangular lithic fragments	143.45-144.45	53621	< 5	0.1	210
		144.45-145.45	53622	< 5	0.1	270
	141.98-142.1m: moderately clay altered zone, CA20°	145.45-146.45	53623	< 5	0.1	240
	• Veins / healed fractures:	146.45-147.45	53624	< 5	0.1	280
	136.52m: CA 40° 1cm, quartz vein c minor calcite	147.45-148.45	53625	< 5	0.1	170
	136.7m: CA 60° clay breccia seam, minor red pink Fe oxide, calcite vein along lower contact	148.45-149.45	53626	< 5	0.1	160
	136.85m: minor red pink Fe oxide ± calcareous clay along fracture CA20°					
	143.9m: calcite vein CA 45°, 7mm wide					
	146.29-146.37m: siliceous healed breccia CA 50°					
	147.66-147.85m: calcite breccia vein along CA					
	148-149.2m: numerous siliceous breccia intervals					
	148.45-148.5 irregular siliceous healed breccia ± subangular lithic fragments					

LEXINGTON RESOURCES LTD.

Hole Number BCBB-01

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	148.0 - 166.47m silicified zone ± local silicified breccia intervals, angular to subangular pale to medium green (andesite?) fragments ± white to creamy white phenocrysts — feldspars in fragments altered to buff-pale yellow (sericitic? phyllosilicates); fragments 1-15 cm diameter - only rare clay "seams"	149.45-150.45	53627	< 5	0.1	100
		150.45-151.45	53628	< 5	0.1	60
		151.45-152.45	53629	< 5	0.1	30
		152.45-153.45	53630	< 5	0.1	20
		153.45-154.5	53631	< 5	0.1	20
	148.85 - 148.95m: clay "seam" - no silicification and the core is easily broken - "andesite very clayey" → moderate argillic alteration.					
	157.7 - 160.9m increase in intensity of brecciation and intensity of argillic alteration to breccia fragments, some ± bleached rinds	154.5-155.5	53632	< 5	0.1	20
		155.5-156.5	53633	< 5	0.1	10
		156.5-157.5	53634	< 5	0.1	20
		157.5-158.5	53635	< 5	0.1	20
		158.5-159.5	53636	< 5	0.1	40
	clay seams: 1-2mm	159.5-160.5	53637	< 5	0.1	60
	159.12m CA75°	160.5-161.5	53638	< 5	0.1	80
	159.2 CA60 ± thin calcite vein along seam	161.5-162.5	53639	< 5	0.1	100
	159.43 CA30° cuts by 3-4mm irregular quartz stringer	162.5-163.5	53640	< 5	0.1	170
	163.0 - 166.45 ± brecciation in bands at CA40°, some bands ± trace fine, curved pyrite (healed fracture plane bounded) in quartz (at 164.72m)					

LEXINGTON RESOURCES LTD.

Hole Number BC88-01

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	165.47 – 166.0m clay brecciated core ē only 20cm core recovered	164.5-164.5	53641	< 5	0.1	170
		164.5-165.5	53642	< 5	0.1	90
	166.0 – 166.47m CA 90° clay seam ē [redacted] quartz in vein CA 90° (quartz vein broken up due to being at start + end of 10 foot run – true thickness ~3-4cm) – 1 millimetre quartz crystals in vugs up to 1cm diameter	165.5-166.5	53643	< 5	0.1	90
	166.47 – at least 170.92 / 72.10m medium green andesite, <1mm feldspar pheno-crysts altered to buff-pale yellow phyllosilicates (no mafics or quartz eyes visible) 'foliation' CA 50° ē clay and quartz bands concordant to this foliation · local brecciated intervals ē subrounded fragments ≥2cm diameter	166.5-167.5	53644	< 5	0.1	80
		167.5-168.5	53645	< 5	0.1	70
		168.5-169.5	53646	< 5	0.1	60
	167.31 – 167.45m moderate to intense argillic alteration (clay bands CA 50°					
	167.96 – 168.01m breccia interval, quartz cemented [illegible] quartz, ~ 1mm white, translucent quartz					

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Hole Number BC88-01

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	168.4 168.86m clay [illegible]	[illegible]	53647	.10	0.1	20
	168.86 – 172.10m: Quartz [illegible]	[illegible]	53648	< 5	0.1	60
	[illegible]	171.5 172.1	53649	< 5	0.1	20
	[illegible]					
	[illegible]					
	[illegible]					
	[illegible]					
	[illegible]					
	[illegible]					
	[illegible]					
	[illegible]					
	[illegible]					
	172.10 – 178.8m: medium green andesite ±	172.1-173.1	53650	< 5	0.1	70
	altered phenocrysts (feldspars					
	gone to phyllosilicates, traces of					
	groundmass; rare quartz, feldspar +					
	irregular stringers, banding faint to dominant (A 40°					
	172.24m: core broken along clay-rich					
	interval (A 80°, 1cm wide	173.1-174.28	53651	< 5	0.1	70
	173.46-172.73: broken core interval ± sericite					
	[illegible] ered interval					
	172.68-172.72					
	173.58m: core breaks (A 40° along clay-rich zone					
	173.78m: core breaks (A 80° along clay breccia					
	band, [illegible] ± angular quartz					
	[illegible]					

LEXINGTON RESOURCES LTD.

Hole Number BC88-01

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	staring towards 179.0m get [illegible] increase in	177.8-178.8	536.52	< 5	0.1	20
	quartz stringers, healed fracture					
		178.8-179.2	[illegible] 53	15	0.2	40
	178.8-179.17m: Multiphase breccia,					
	andesite breccia fragments - intensely					
	altered supported cemented by quartz matrix,	[illegible]	[illegible] 54	15	0.1	70
	pale green chlorite clay [illegible]					
	quartz.					
	[illegible]					
	[illegible] matrix followed by					
	silicified breccia mentioned above					
	- upper contact [illegible] 80°					
	lower contact [illegible] at CA 70°					
	179.1m - last brecciation event - clay seam [illegible] CA 70° [illegible] cuts everything.					
	rare euhedral pyrite [illegible] and [illegible]					
	[illegible] 60-70° cutting					
	core.					
	179.[illegible] - 180.96 [illegible] as above, banding variably [illegible]	[illegible]02-181.2	53655	< 5	0.1	60
	179.6m clay healed fractures [illegible] CA 35° with medium grey trace euhedral [illegible]	181.2-182.2	53656	< 5	0.1	50
	179.6-180.35m: [illegible] core c healed fractures					
	(irregular, filled c calcite ± clay					

LEXINGTON RESOURCES LTD.

Hole Number BC88-01

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	- 180.2m: clay seam 8mm CA 60-70°, calcite along edges and trace pyrite in clay					
	180.91 - 180.96m pyritic clay seam = altered lithic breccia upper contact CA 70-80° not distinct lower contact CA 60° distinct					
	180.96 - 185.01m Andesite, feldspar phenocrysts altered to phyllosilicates, trace % mafic phenocrysts - medium green, not banded; blocky 183.5 - 185.01; cut by rare thin 2mm calcite stringers fracture					
	181.3m: calcite vein/healed fracture CA 35-40°, 2-3mm wide					
	182.11 - 182.16m: breccia CA 75°, <1.5cm angular andesite fragments in pale lime clay, altered matrix, <0.5cm angular green, lithic fragments fracture appears internal in origin					
	185.01 E.O.H.					

Hole No. BC-88-02
Location: Lat. 10+08 S.
Long. 4+75 E.
UTM
Collar Inclination -70°
Collar Azimuth 114°
Casing 6.4 m (21 feet)
Total Length 183.45 m (602 feet)

Sperry Sun Tests

Depth	Azimuth	Inclination
45.87 m	114°	-69.5°
91.6 m	113°	-70°
137.3 m	115°	-70°
183.0 m	116°	-70°

Property Bobcat II Claim
Date started 4 September 1988
Date completed 6 September 1988
Contractor Coates Enterprises Ltd.
Core size NQ 2

Logged by Thomas V. Hoos
Date 13 September 1988

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
0 - 6.4 m	Casing - approximately 2 m of overburden					
	- casing pushed approx. 4.4 m into bedrock for stability					
6.4 - 11.02	Silica matrix breccia					
	- medium grey matrix with light grey-green fragments					
	- matrix is dominantly grey quartz					
	- fragments are very altered dacite to andesite, with occasional white plagioclase phenocrysts present, to 2 mm Ø					
	- show typical matrix-supported angular breccia texture					
	- breccia is monomictic, almost - rare laminated fragments					
	- fragments range from 1 to greater than 300 mm in diameter					
	- most of core is relatively competent with a few fractures coated very weakly, with pale brown Fe oxides					
	9.3 - 9.6 - core is broken up, very blocky with light grey clay along fractures					
	10.07 - 11.02 interval has been re-brecciated and cemented with clay - common fractured volcanic and siliceous fragments					
	- upper contact fairly sharp at 49° C.A.					
	- lower contact very irregular, undulatory, approx. 90° C.A.					

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Hole Number Gc-88-02

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	- dominant alteration over this interval is silicification - forms matrix	7.0-8.0	44001	< 5	0.3	500
	for most of breccia	8.0-9.0	44002	< 5	0.2	700
	- lithic fragments also show extensive silicification	9.0-10.0	44003	< 5	0.2	300
	- unit is weakly calcareous, and some calcite veinlets are	10.0-11.0	44004	20	0.5	260
	present: 8.97 - 3mm thick @ approx. 10° C.A. - irregular					
	9.18 - 2mm thick @ 21° C.A.					
	9.06 - limonitic clay-coated fracture @ 14° C.A.					
	- pyrite is common accessory, both in fragments and matrix					
	- common subedral crystals to 0.2 mm diameter					
	- average 0.5% of unit					
	9.8 - 10.07 thin quartz stringers 1-3 mm thick					
	- irregular, selvages are very pyritic, entire small					
	interval contains approx. 5% fine-grained pyrite					
11.02 - 16.46	Andesite					
	- medium to light grey-green	11.0-12.0	44005	< 5	0.2	370
	- fine grained, occasional white feldspars are present as ill-					
	defined phenocrysts					
	- no quartz eyes noted					
	- massive, unfoliated, fairly competent, except at bottom of					
	interval					
	- occasional limonite-coated joints 40-60° C.A.					
	approximately 14.0 to 15.20 get common light grey clay seams,					

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Hole Number BC-88-02

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	3 to 5 mm thick - one broken-up seam at 14.84 to 14.94	13.5-14.5	44006	<5	0.2	630
	- generally appear to parallel joints - 14.35 - clay seam	14.5-15.5	44007	<5	0.2	670
	approx. 10 mm thick @ 30° C.A.	15.5-16.4	44008	<5	0.2	580
	15.87-16.46 core is broken with some light grey clay seams					
	- fractures trend 40-50° C.A.					
	- pyrite is common minor accessory throughout unit - 0.1%					
	- forms euhedral small grains 0.1 mm Ø					
	16.35-16.46 plastic clay seam with lithic fragments @ 15° C.A.					
16.46-21.05	Silica matrix breccia					
	- medium grey matrix with light grey-green fragments	16.4-17.5	44009	<5	0.2	520
	- matrix consists of quartz	17.5-18.4	44010	<5	0.2	330
	- fragments are matrix-supported angular andesite, often a	18.4-19.0	44011	<5	0.2	200
	light green colour, 1 to >100 mm in diameter	19.0-20.0	44012	<5	0.2	80
	- unit is very competent, massive, unfoliated	20.0-21.0	44013	<5	0.2	50
	- only a few fractures at the beginning and end of interval					
	- top contact very irregular, marked by clay-rich area - not					
	planar					
	- lower contact sharp, planar @ 33° C.A, marked by 30 mm shear zone					
	- 16.46-16.92 bit fractured with lt. grey clay					
	16.6 clay seam @ 35° C.A.					
	- 18.15-18.37 a few irregular fractures with thin clay coating					
	- trace pyrite here and there					
	18.34-19.01 finely laminated interval with no brecciation or					

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Hole Number Bc-88-02

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	silicification evident					
	18.7 laminations trend 80° C.A.					
	- common calcareous areas 0.5-1.0 mm ϕ - after feldspar ?					
	- sharp lower contact at 45° C.A.					
	- sharp planar upper contact @ 33° C.A.					
21.05-32.0	Andesite					
	- medium to light grained	21.0-22.0	44014	< 5	0.2	20
	- generally fine grained, common white calcite grains to 0.5 mm ϕ - after feldspar ?					
	- massive, unfoliated, calcareous, occasional joints					
	- occasional narrow lt. grey clay seams:					
	25.75-26.0 several lt. grey clay-coated fractures @ 15° C.A. (poor) and 65 °C.A. (good)					
	26.28-26.32 clay-rich area, fracture-controlled @ 50° C.A.					
	28.76-28.86 clay seam @ 45° C.A.					
	29.3 clay-coated fracture @ 10 °C.A.					
	- interval contains occasional black grains - biotite ?					
	- pyrite is very rare or absent - not noted					
	21.28 1 mm white calcite veinlet	31.0-32.0	44015	< 5	0.1	20
	29.54 - subtle lithologic change - unit is granular, fairly soft above, siliceous and very hard below					
	- contact trends 30° C.A. - no colour change					

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Hole Number QC-88-02

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
32.0 - 48.13	Fractured andesite with breccia zones					
	- medium to light grey green with medium grey fractures and quartz fracture fillings	32.0-33.0	44016	< 5	0.2	20
	- occasional dark green chloritic patches to 10 mm ϕ - uncommon					
	- fine grained, occasional dark green/black aggregates 1-2 mm diameter - biotite or chlorite after biotite					
	- massive, unfoliated, generally well jointed with some fractures parallel to joint set					
	- fractures occur throughout unit, commonly parallel to joints, but often forming irregular networks grading into brecciated intervals					
	32.0 - 34.35 irregular fractures with medium green margins, commonly filled with quartz - 1-3 mm wide with 1-3 mm green (chloritic ?) selvages	33.0-34.0	44017	< 5	0.1	20
		34.0-35.0	44018	< 5	0.1	30
		35.0-36.0	44019	< 5	0.1	20
	34.7 clay seam with rock fragments @ 35° C.A., 10 mm thick	36.0-37.0	44020	< 5	0.2	30
		37.0-38.0	44021	5	0.2	50
	34.35-36.82 interval is moderately fractured, and displays a nicely banded character - 34.9 16° C.A. - banding	38.0-39.0	44022	10	0.2	50
		39.0-40.0	44023	< 5	0.2	80
	36.7 23° C.A. - banding	40.0-41.0	44024	< 5	0.2	110
	- fractures filled with 1-3 mm qtz. veinlets with common pyrite as selvages and [illegible] fillings, and minor calcite					
	36.82 - 37.15 quartz-cemented breccia - angular fragments 1 - 70 mm in diameter - contains a few					

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Hole Number QC-88-02

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	[illegible] of medium green chlorite					
	breccia is dominantly matrix-supported, the matrix					
	consisting of white quartz with accessory pyrite					
	- contacts aren't very sharp, lower one trending 46° C.A.					
	- some of fragments are very siliceous, rhyolitic in					
	composition					
	37.15 - 38.77 rock is still fractured but much					
	less so than before - thin (1-2 mm) irregular					
	veinlets with chloritic selvages are fairly common					
	- common pyritic selvages, carbonate (calcite) is also a					
	fairly common constituent					
	- interval contains common medium grey siliceous					
	patches - rhyolite - more siliceous than unit					
	above 32.0 m					
	38.77 - 40.37 very competent brecciated					
	interval - lt. grey-green fragments in med to dark					
	grey matrix - matrix is pyritic w/ euhedral grains					
	to 0.1 mm in diameter - to 10% pyrite					
	- matrix appears to be in situ, with little or no					
	individual fragment rotation					
	- quartz and calcite are lesser constituents					
	- upper contact character not noted					
	- lower contact sharp at 59° C.A.					
	- fragment boundaries tend to be a bit diffuse in this					
	brecciated interval					

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Hole Number BC-88-02

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	40.37 - 46.60 interval with relatively few thin fractures and joints - fractures have quartz with pyrite in them, sometimes with a bit of calcite					
	- fracture and veinlet selvages chloritic					
	- some intervals are a bit blocky					
	40.5 - banding in andesite (?) - 52° C.A.					
	41.2 - consistent veinlet orientation/joint network - 35° C.A.					
	- interval is very hard, siliceous, common mafic grains, common feldspar phenocrysts					
	45.60 - 46.56 - develops a fracture network, becoming a true breccia by 46.24 down to 46.56	45.5-46.6	44025	< 5	0.1	540
	- upper contact gradational, appears to be tectonic	46.6-47.6	44026	< 5	0.1	190
	- lower contact sharp, planar @ 79° C.A. - depositional	47.6-48.6	44027	< 5	0.1	190
	- breccia matrix to poorly clast-supported					
	- angular fragments 0.5 - 40 mm in size					
	- matrix is siliceous, to 15% pyrite, minor calcite					
	- upper fracture zone contains fair amount of calcite					
	46.56 - 48.42 dominantly very competent, with few fractures, but several narrow brecciated intervals:					
	46.73 - 46.79					
	47.95 - 48.21 - mod. siliceous matrix, little carbonate, common pyrite - med. to dark grey matrix, fragments show considerable corrosion					

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Hole Number BC-88-02

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
48.23 - 83.5	Rhyolite to rhyo-dacite					
	- medium grey-green with common dark green stringers cutting					
	across core axis @ 80-90°					
	- competent, very hard, siliceous					
	- fine-grained, almost aphanitic groundmass					
	- common white feldspar crystallites to 0.5 mm, show diffuse					
	boundaries - ~30% of lithology					
	- common dark green to black grains - biotite or chlorite after					
	biotite, 2% of unit, to 2 mm in diameter					
	- pyrite is a common accessory, forming small euhedral					
	grains; calcite is widely-distributed minor component					
	- consistent joint set at 85 to 90° C.A., chloritic - may					
	reflect original layering					
	- upper contact is sharp, undulatory - depositional surface?					
	- trends 55° C.A.					
	- occasional irregular calcite-filled hairline fractures					
	53.1 - 53.87 hairline to 5 mm wide quartz veinlet network	53.0 - 54.0	44028	< 5	0.2	410
	trending approx. 5° C.A. and 85° C.A. - rocks	54.0 - 55.0	44029	10	0.2	750
	tend to be a bit bleached in some sections of this	55.0 - 56.0	44030	15	0.1	250
	interval	56.0 - 57.0	44031	< 5	0.1	130
	54.24 - 54.33 very soft phyllosilicate-rich seam (not clay)	57.0 - 58.0	44032	5	0.2	170
	Trending 70° C.A. - planar contacts					
	54.33 - 55.12 intensely fractured interval with almost no matrix					
	to angular (brecciated) section - , this (0.5 to 3.0 cm					

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Hole Number OC-88-02

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb
	thick) abundant pyrite in fractures					
	54. clay becomes abundant in fracture network					
	55.12 - 55.23 light grey clay seam, upper contact sharp at 60° C.A.					
	lower contact sharp at 68° C.A.					
	56.76 - 67.90 fractured competent area with dark grey quartz +					
	pyrite-filled fractures to 4 mm thick, trend at 83 and					
	18° C.A.					
	59.2 - 59.8 broken, blocky core					
	60.1 - 60.35 common healed fractures filled with quartz + pyrite,	60.0-61.0	44033	< 5	0.1	510
	minor calcite, 1 to 10 mm wide					
	60.9 - 61.1 - broken blocky core					
	61.23 light grey sandy clay seam, 10 mm wide @ 58° C.A.					
	61.75 - 62.0 broken, very blocky core					
	62.0 - 63.15 very common dark grey quartz + pyrite-filled	62.0-63.0	44034	< 5	0.3	710
	fractures, irregular at top of interval but become	63.0-64.0	44035	< 5	0.1	560
	regular at 43° C.A. below 62.8 m - rocks are very alt'd	64.0-65.0	44036	< 5	0.3	710
	63.05 10 mm med. to dark grey clay seam @ 10° C.A.	65.0-66.0	44037	15	0.2	220
	63.3 - 64.92 rhyo-dacite contains medium-green and med.	66.0-67.0	44038	15	0.5	530
	grey masses 2-5 mm ϕ - altered phenocrysts? - consist					
	of chlorite and feldspar - rounded, anhedral					
	64.92 - 65.9 intensely altered with several discrete light grey					
	clay seams and rock fragments					
	- clay seams have planar contacts, to 20 mm thick, trend					
	60° C.A.					
	- lower contact sharp @ 58° C.A.					

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Hole Number ØC-88-02

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	66.51 4 mm quartz + pyrite veinlet with surrounding fractures					
	- trends 46° C.A.					
	66.75 10 mm med. grey clay seam @ 36° C.A.					
	67.1 - 68.0 broken blocky core, but doesn't display exceptional	67.0-68.0	44039	35	0.3	240
	fracturing	68.0-69.0	44040	15	0.7	570
	69.3 - 69.4 grey clay seam with lithic fragments to 50 mm Ø	69.0-70.0	44041	< 5	0.8	2200
	- upper contact not preserved, lower contact sharp @ 29°	70.0-71.0	44042	< 5	0.4	450
	C.A., pyritic selvages					
	69.81 brecciated area with 80% pyrite, sometimes veining					
	lithic fragments					
	- boundaries are fairly sharp, trends 50° C.A.					
	68.5 - 70.0 consistent discontinuous fracture/alteration pattern					
	- possibly joint-controlled					
	- contain quartz + pyrite veinlets and stringers 0.1 - 0.5 mm					
	wide - thin calcite stringers are also present					
	70.1 - 71.11 - clay seam with subangular lithic fragments to 60 mm Ø					
	- upper contact not preserved, lower contact fairly					
	sharp @ 42° C.A.					
	71.11 - 75.5 - interval is fractured with some brecciated intervals	71.0-72.0	44043	< 5	0.3	920
	and plastic clay seams - lt. grey, bleached	72.0-73.0	44044	< 5	0.4	1900
	clay seams: 72.11 - 72.16 @ 51° C.A.	73.0-74.0	44045	< 5	0.3	1100
	72.29 - 72.35 @ 80-90° C.A.	74.0-75.0	44046	< 5	0.5	1700
	73.69 - 73.95 - diffuse irregular contacts	75.0-76.0	44047	< 5	0.5	930
	75.31 - 75.38 @ 80-90° C.A.					
	- within this interval get common fractures filled with quartz					

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Hole Number Bc-88-02

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	+ pyrite [illegible], average 3 mm thick, commonly trending					
	35-40° C.A. + joint controlled? - also crosscut this					
	trend, forming irregular networks					
	75.9 3 mm white calcite stringer @ 5° C.A.					
	- below 76 m unit becomes medium green, little-altered, becoming					
	bleached again below 77 m					
	- bleaching to lt. green colour is controlled by fracture					
	networks					
	76.57 joint @ 50° C.A.					
	76.81 - 77.1 broken, blocky interval					
	77.85 - 79.7 - round patches to 20 mm Ø of 90% pyrite scattered					
	throughout interval, but little fracturing					
	76.8 6 mm calcite veinlet @ 8° C.A.					
	79.37 thin (1 mm) grey clay seam @ 33° C.A.					
	80.1 - 82.45 - interval is moderately to moderately intensely fractured,	80.0 - 81.0	44048	< 5	0.3	1600
	but very competent	81.0 - 82.0	44049	< 5	0.3	1400
	- fractures are 0.5 - 2.0 mm thick, dark grey, filled with					
	pyrite + quartz, forming, in some areas, a matrix-poor					
	breccia					
	- rocks tend to be moderately bleached, light buff-green, with					
	common medium green fresher intervals					
	- below 82.45 the number of fractures decreases substantially, although					
	narrow (less than 50 cm) fractured and bleached intervals are					
	still common					
	82.53 9 mm calcite vein @ 38° C.A.					

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Hole Number BC-88-02

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
83.5 - 86.8	Rhyodacitic to Rhyolitic ash, possibly with flow material					
	- mottled, poorly laminated appearance down to 84.7, then					
	becomes nicely layered					
	- medium green, medium grey with, med. grey siliceous areas					
	common in upper poorly-laminated area of unit					
	- fine-grained siliceous matrix with abiquitous white poorly-defined					
	feldspar phenocrysts average 1 mm Ø					
	- competent, little-fractured					
	- pyrite is common accessory, to 0.5%					
	84.7 layered texture, trends 27° C.A.					
	85.3 layering at 30° C.A.					
	85.7 layering at 35° C.A.					
	86.5 layering at 38° c.A. - quartz veinlets? - not clear					
	- layering defined by dark green bands with sharp margins,					
	3 - 20 mm thick					
	86.57 - bit of a clay seam, 2-5 mm thick					
	- upper contact vague but reasonably well defined					
	- lower contact not preserved - in area of broken core					
86.8 - 94.9	Andesite					
	- medium green with light green and pale yellow-green					
	bleached areas localized around fracture zones					
	- fine-grained with common white feldspar phenocrysts to 1 mm Ø (10%)					

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Hole Number BC-88-02

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	often showing limonitic patches					
	- black mafic grains (biotite ?) fairly common - 1%					
	- generally quite massive, but sometimes shows a vague foliation -					
	flow foliation ? : 91.1 22 °C.A.					
	92.3 4° C.A.					
	93.7 24 °C.A.					
	87.84 - 87.98 irregular fracture system, upper part @ 32° C.A.,	87.6 - 88.6	44050	< 5	0.2	860
	lower part @ 70° C.A. with several fractures between					
	- to 5 mm clay in fractures					
	88.52 20 mm rock fragments + lt. grey clay + quartz veinlets,					
	@ 74° C.A.					
	88.74 5 mm mod. green clay/gouge seam @ 61° C.A.					
	89.55 - 89.65 loose lt. grey clay as pieces in box - not in place					
	91.15 - 91.50 - interval of broken blocky core					
	91.9 - 93.1 common fracture networks 1 - 5 mm wide, filled	91.5 - 93.0	44051	< 5	0.2	880
	with quartz + pyrite veinlets					
	- one set trends 50° C.A., others are irregular					
	90.22 - 92.96 mislated, lost 0.7 m core					
	93.15 2 mm quartz + pyrite veinlet, trends 12° C.A., slightly					
	bleached margins					
	- interval becomes banded towards lower 50 cm					

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Hole Number BC-88-02

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
94.9 - 104.25	Layered and Spherulitic siliceous ash					
	- pale light brown, medium grey, light green					
	- fine grained, fairly common small feldspar phenocrysts to 1 mm Ø					
	- uncommon rounded dark grey and medium green fine-grained pebbles to 7 mm Ø					
	- "spherulitic" interval 96.46 to 100.7					
	- spherules round, 5 to 7 mm Ø, white to light grey, calcareous in part, commonly have pyrite inclusions and rims					
	- spherules are sericitic in part, in very sericitic matrix					
	- matrix comprises 15% of interval, often contains fair amount of pyrite (fine grained, 10% of matrix)					
	- below 98.76 "spherules" become less abundant, less well defined					
	94.85 - 95.2 interval has irreg. fractures containing quartz + pyrite, 1-3 mm thick	94.8-95.8	44052	< 5	0.2	670
	banding/layering: 95.4 43° C.A.					
	102.4 44 °C.A.					
	103.2 44 °C.A.					
	104.1 52° C.A.					
	100.2 7 mm calcite veinlet @ 38 °C.A. - 2 of them in this area					
	101.0 - 104.0 very common irregular fractures containing quartz + pyrite, 0.5 - 3.0 mm thick, sometimes forming narrow brecciated intervals	101.0-102.0	44053	< 5	0.3	1600
		102.0-103.0	44054	< 5	0.3	1100
		103.0-104.0	44055	< 5	0.2	650

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Hole Number BC-88-02

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	-sometimes fractures parallel layering					
	-entire interval competent, mostly very bleached					
	- lower contact gradational over 10 cm					
104.25	Andesite or tuffaceous equivalent					
	- medium green, with narrow light green bleached intervals localized					
	around irregular quartz + pyrite-filled fracture networks, as					
	follows: 104.52 - 105.74; 106.17 - 106.47; 106.55 - 106.90;	106.5-107.6	44056	< 5	0.2	290
	107.25 - 107.68; 108.18 - 108.51; 109.5 - 114.6;					
	115.53 - 128.93	109.5-110.5	44057	< 5	0.3	450
		110.5-111.5	44058	< 5	0.3	500
	- feak intervals are weakly porphyritic, white feldspars average	111.5-112.5	44059	< 5	0.3	450
	1 mm Ø in fine-grained matrix	112.5-113.5	44060	< 5	0.4	580
	- unit commonly shows faint banding suggestive of layering;	113.5-114.5	44061	< 5	0.3	430
	hence tuffaceous character for this interval, at least in part:					
	106.0 17 °C.A.	115.5-116.5	44062	< 5	0.3	430
	108.6 42 °C.A.	116.5-117.5	44063	< 5	0.4	440
	110.1 27° C.A.	117.5-118.5	44064	< 5	0.4	660
	112.5 - 112.62 - plastic light grey clay seam, upper contact @					
	34° C.A., lower contact irregular, trends ≈ 80° C.A.					
	112.82 light grey clay seam with lithic fragments, 15 mm wide,					
	trends 40° C.A.					
	117.48 - 117.52 light grey clay seam, upper contact @ 37° C.A., lower					

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Hole Number GC-88-02

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	contact unclear, goes into narrow fracture network					
	119.26 - 119.32 fault gouge, rock fragments cemented by sparse lt. grey clay, trends 37° C.A.	118.5-119.5	44065	< 5	0.3	970
	119.49 - 119.53 lt. grey clay seam @ 80° C.A. - contains lithic fragments	119.5-120.5	44066	< 5	0.3	470
		120.5-121.5	44067	< 5	0.2	560
	119.67 10 mm clay-cemented breccia zone @ 57° C.A.	121.5-122.5	44068	10	0.3	1000
	121.70 - 121.73 light grey clay seam @ 35° C.A.	122.5-123.5	44069	50	0.5	1400
	121.82 - 121.93 light grey clay seam, irregular, trends 90° C.A.	123.5-124.5	44070	10	0.4	430
	122.02 - 122.37 light grey clay seam, upper contact @ 55° C.A.,	124.5-125.5	44071	< 5	0.4	170
	lower contact irregular, trends 80° C.A.	125.5-126.5	44072	< 5	0.2	70
	122.88 - 123.94 pyritic light grey clay seam, upper contact very	126.5-127.5	44073	< 5	0.3	80
	irregular, trends ≈ 75° C.A., lower contact irregular,	127.5-128.5	44074	< 5	0.2	150
	trends 80° C.A.	128.5-129.5	44075	< 5	0.2	170
	126.4 - 126.7 broken blocky core with bit of clay along fractures					
	126.7 - 127.89 very fractured interval with thin qtz-pyrite fillings					
	to 3 mm wide, and rare calcite veinlets					
	127.89 - 128.09 lt. grey clay seam with lithic fragments, top					
	contact @ 42° C.A., bottom contact @ 60° C.A.					
	128.18 - 128.22 lt. grey clay seam, trends 60° C.A.					
	128.59 - 128.77 clay-matrix breccia, top contact not preserved,					
	lower contact grades into diffuse fracture network					
	128.93 - 134.2 becomes fresh, medium green, nicely porphyritic					
	with ubiquitous white feldspars 2-3 mm Ø, 30%					
	- minor thin calcite veinlets to 5 mm wide - irregular					
	131.12 - 131.67 talcic breccia interval with subangular					

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Hole Number BC-88-02

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	matrix-supported fragments to 50mm ϕ					
	-parts of this interval are vaguely layered or banded:					
	129.7 55° C.A.					
	130.2 62° C.A.					
	131.9 48° C.A.					
	134.2- unit becomes light green, studded with common medium green pastches					
	- common thin fractures, often filled with white calcite					
	- feldspars at least partially replaced by calcite					
	- common thin quartz + pyrite fracture fillings					
	- interval is competent, no blocky sections					
	- some parts show banding / layering: 134.3 42° C.A.					
	137.9 72° C.A.					
→	149.2 43° C.A. - good strong banding					
	150.3 73° C.A. - strong banding					
	140.9 - get first indication of clay seams - 2-4 mm clay-filled fracture @ 14° C.A.	140.5-141.0	44076	<5	0.3	100
	- common thin irregular calcite stringers and veinlets throughout clay altered interval, sometimes showing a breccia texture containing small wallrock fragments	141.0-142.0	44077	<5	0.3	50
		142.0-143.0	44078	<5	0.2	40
		143.0-144.0	44079	<5	0.3	20
		144.0-145.0	44080	<5	0.3	50
	143.11-143.27 light grey clay seam, top contact @ 69° C.A., lower contact @ 54° C.A., ~~both~~ fairly clayey	145.0-146.0	44081	<5	0.4	20
		146.0-147.0	44082	<5	0.2	30
	143.75-143.87 very fractured interval containing abundant lt. grey clay, trends 75-90° C.A.	147.0-148.0	44083	<5	0.2	80
		148.0-149.0	44084	<5	0.2	1100
	144.65-145.17 light grey pyritic clay seam with	149.0-150.0	44085	<5	0.2	70

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Hole Number Oc-88-02

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	some xenolithic inclusions - upper contact sharp @ 18° C.A., lower contact grades into a clay-rich fracture zone					
	145.5 - 146.3 core starts to become a bit blocky, with some white calcite veinlets to 4mm wide					
	146.3 - 148.74 core is extremely blocky, rubbly with much clay and lithic fragments - nothing is in place					
	below 148.74 core becomes very fresh again, medium grey, poorly geophyritic, with feldspar phenocrysts 0.5-2mm Ø, occasional black mafic phenocrysts 1-2 mm Ø - sometimes nicely banded - layered? - minor epidote					
	150.6 - 154.0 core is blocky with occasional cohesive intervals - some fractures have a bit of clay on them					
	- banding/layering in unit continues: 153.4 41° C.A. 154.6 40° C.A. 157.5 52° C.A.					
	below 157.7 earthy red Fe-oxide (hematite?) becomes a minor fracture coating - uncommon, scattered here and there					
	158.36 - 158.43 very fractured interval, with fractures coated with clay, trends 54° C.A. (top), 33° C.A. bottom, and show slickensided bounding surfaces					
	158.53 - 158.85 very blocky, broken interval with grey clay and slickensided surfaces					
	159.4 - 159.6 broken, rubbly interval, slickensided surfaces with					

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Hole Number BC-88-02

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	bit of red Fe-oxide coating					
	159.83-160.01 clay seam with surrounding fractured rocks	158.0-159.0	44086	< 5	0.1	60
	- upper contact sheared, hematitic @ 27° C.A., lower contact	159.0-160.0	44087	< 5	0.1	60
	diffuses into clay-coated fracture network	160.0-161.0	44088	< 5	0.1	110
	160.01- interval is dominantly fragmental, ash with lithic					
	fragments average 10 mm in size in matrix of similar					
	composition					
	- thin hematitic quartz stringers are occasionally present					
	165.28 10 mm quartz veinlet with epidote, @ 45° C.A.					
	165.85-165.92 quartz + epidote veinlet system @ 90° C.A.					
	167.33-167.45 phyllosilicate seam with lithic fragments,					
	upper contact @ 64° C.A., lower contact @ 30° C.A.					
	167.8-169.95 intensely clay-altered interval, upper contact					
	sharp, planar @ 64° C.A., lower contact not preserved					
	169.6-169.9 broken very blocky interval with some clay	169.5-170.5	44089	< 5	0.1	70
	170.06 - narrow fracture zone with pockets of M. grey clay					
	- irregular					
	170.26-170.32 M. grey clay seam @ 70° C.A.					
	171.65-171.87 quartz-cemented fracture zone trending	171.6-171.9	44090	< 5	0.2	60
	90° C.A.					
	174.1-174.16 grey clay seam @ 20° C.A.					
	175.4-175.48 grey clay seam, contacts not well preserved	175.0-176.0	44091	< 5	0.2	60
	177.1-178.7 core is very blocky, splintery - this character					
	continues to lesser degree down to 181.7					
	183.1 banding/layering @ 25° C.A.					

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Hole Number BC-88-02

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
183.45	E.O.H. (602 feet)					

[redacted] EXPLORATORY [redacted]

Hole No. RC88-03
Location: Lat. 9+905
Long. 3+306
UTM
Collar Inclination -50°
Collar Azimuth 111°
Casing 15ft = 4.57m.
Total Length 705ft = 214.88

Sperry Sun Tests

Depth	Azimuth	Inclination
28.35	102°	-50.5°
70.07	100°	-51°
119.79	103°	-51°
165.51	104°	-51°
211.23	105°	-50°

Property Bobcat II Claim
Date started 7 Sept 1988
Date completed
Contractor D.W Coates Enterprises
Core size NQ2.

Logged by K.D Costello
Date 8 Sept 1988

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
0 - 4.57	Casing					
4.57 - 88.9	Andesite Lahar Breccia Flow:					
	- angular to subrounded medium green (chl) andesite fragments in a siliceous					
	matrix with later translucent to grey-white quartz healed fractures (< 1% of interval)					
	- minor yellow limonite oxidation of some units/beds					
	4.57 - 4.78m: broken rounded core fragments					
	4.78m: start of competent core; blocky.					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	21.8 - 22.0m: pale yellow, oxidized intensely earthy clay alteration.	4.78-5.50	53657	<5	2.0	320
		5.5 - 6.5	53658	<5	0.7	300
	6.92m: white quartz vein CA52°, 5mm, pale yellow-brownish clay at lower contact	6.5 - 7.5	53659	<5	0.6	230
		21.0-22.0	53660	<5	0.2	400
	23.34 - 23.90m: original bedding CA15°, cut by CA15° quartz healed fractures	22.0-23.0	53661	<5	0.8	410
		23.0-24.0	53662	<5	0.4	430
	2-4mm wide, CA40° 1-2mm quartz healed fractures	24.0-25.0	53663	<5	0.2	1600
	pale yellow, oxidized - only trace %					
	23.82m: 1.5cm diameter clot of quartz eyes CA15° healed fracture. 1.5-2mm hexagonal quartz crystals					
	2cm calcite					
	24.09 - 24.29m: oxidized as above, matrix pale yellow-brown clay altered & fragments angular to subangular (<1.5cm diameter).					
	- lower limit sharp contact & grey unit:					
	24.29 - 24.62m: grey, medium grained - clay altered but still competent.					
	lower contact - original bedding? CA15°					
	24.62 - 25.61m: buff-yellow & green (clay, oxidized chlorite)					
	24.96m CA30° 2mm clay seam					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb
	- interval highly altered to clays	25.0-26.0	153664	<5	0.4	1400
	- lower limit of interval faulty	26.0-27.0	53665	<5	0.2	190
	dubbed CA 50°	27.0-28.04	53666	<5	0.1	110
25.51 - 25.9m	qpeg, qpegm, contact to					
	lower contact CA 65° (original					
	bedding?).					
25.9 - 28.62	Andesite: -					
	dark qpeg - qpegm after 26.21, 25.9-26.21:					
	almost a transitional interval relative to					
	preceding intervals & is very silicious,					
	< healed fractures (quartz filled CA 25°, Immediate					
	hanging chlorite - quartz filled fractures.					
	26.21 - 27.4m dark qpeg, < qpegm with silicious					
	<1mm quartz - feldspar qpegm and					
	mafic phenocrysts (biotite) up to 4mm					
	27.4-28.04m: medium qpegm "granular" andesite					
	(granular appearance because of					
	feldspar phenocrysts in qpegm (chloritic)					
	matrix). Banding CA 50°					
	- orange yellow limonitic oxidation					
	stain somewhat more intense (still					
	only weak) than intervals above)					

LEXINGTON RESOURCES LTD.

Hole Number BC88-03

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	- interval very blocky and broken.					
	28.15m: CA 50° 2mm quartz vein					
	orange limonite oxidation					
	not locally intense in					
	wallrock for 3-5mm.					
28.62 - 30.83m	Oxidized - Bleached Andesite Breccia	28.04-29.0	53667	<5	0.1	470
	- alteration too intense to determine if originally	29.0-30.0	53668	<5	0.3	740
	a lahar flow; gradational upper contact.	30.0-31.0	53669	<5	0.2	750
	- fragments are bleached to a very pale creamy					
	colour & slight green tint and limonite oxidation					
	then concentrated along edges and microfractures					
	- some fragments well rounded - up to 10cm, others					
	angular and <1 cm to 1-3cm diameter					
	- interstitial to fragments, as irregular stringers					
	and in healed fractures.					
	End open = white quartz					
	- where interstitial it is only trace % of matrix					
	- matrix locally orange brown due to amount of					
	limonite oxides					
30.83 - [illegible]	Dacite to Rhyodacite	31.0-32.0	53670	<5	0.1	90
	- medium open, green tint, silicified, vuggy	32.0-33.0	53671	<5	0.2	70
	& chloritized matrix, variable quartz open	33.0-34.0				
	and altered fldspar phenocrysts → altered to clay					
	minerals and calcite, trace ≤ 0.5mm pyrite					

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Hole Number BG88-03

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	- unit is very competent and core well.					
	- numerous oxidized + bleached intervals.					
	- rare thin quartz stringers					
	31.46 - 31.53m: oxidized + bleached + CA 62° 1-2mm quartz vein @ 31.47m.					
	31.93 - 32.13m: oxidized weakly along fracture and in "blotches"					
	32.46 - 32.60m: calcite-chalcopyrite quartz + yellow stain					
	32.60 - 32.67m: oxidized + bleached about CA 50° 7-8mm quartz vein @ 32.64 and 1mm parallel quartz vein.					
	- intense limonite oxidation concentrated along outer edges of veins + <0.5mm limonite pseudomorphs after pyrite.					
	32.79 - 32.81m: CA 60° to oxidized - bleached core about irregular 1mm quartz vein					
	- core breaks along vein, edges very clayey					
	- cross cuts: banding CA 50°					
	33.76 - 34.01m: band of green + yellowish tint core, contacts slightly sheared @ CA 30°					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	34.44m. CA30°-2becoming CA15° fracture in greyish-green chloritized					
	- intense limonite oxidation along fracture & staining and bleaching extending up to 2cm into the wallrock.					
	36.59- 36.73m. CA30° limonitic banding in first 3cm. of slightly yellow-green altered &					
	- 37.52m - CA 90° 2mm quartz vein cuts across banding					
	37.3-37.52m similar to above interval without the quartz vein					
	- limonite oxides concentrated along banding fractures at irregular angles in the interval					
	37.8 - 41.27m. bleached to a pale yellowish green, weak mottled limonite oxidation	38.0-39.0	53672	<5	0.1	390
	39.6 -39.8m very blocky broken core - preferentially breaks at fracture CA 5-10° (limonite surfaces)	39.0-40.0	53673	<5	0.3	300
		40.0-41.0	53674	<5	0.1	210
	40.6 - 41.1 m. blocky - core breaks along limonite surfaces (fractures CA 5-10°					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	41.82 m CA65° 1.5cm band bleaching & weak oxidation about limonite fracture					
	41.89 - 41.95m weakly bleached interval ~CA65°, endo of zone have strongly brown limonitic stain, remainder buff to pale yellow					
	42.65 - 42.75m as in 41.89-41.95 & CA45° 7mm wide zone of 1mm quartz veinlets & limonite pseudomorphs after pyrite @ 42.70m - adjacent intervals bleached buff-grey (very siliceous) & hairline fractures running @ CA70° from 7mm zone - trace clay along upper limit to 7mm zone					
	43.78 - 44.12m interval as those above, <1mm limonitic clay coated fractures and <1mm quartz stringers CA40° cut the bleached intervals, limonitic stain concentrated along fractures 44.10 - 44.26m CA10°, slightly irregular, intensely limonite fracture which are broken along - starting @ 44.12m foliation fault @ CA45-50°	43.7-44.2	53675	<5	0.2	540

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb
	44.45. - 44.95m: mottled weak limonite stain of bleached & clay altered zone	44.45-				
	- lower contact cross cuts fabric	4495	53676	<5	1.0	4500
	banding @ CA50°, contact @ CA 60°					
	- upper contact @ ±CA50					
	44.5 - 44.78m: creamy white clay & patchy limonite stain					
	44.6 - 44.73m clay appears to cut sub-angular breccia					
	- upper contact of clay CA 50°					
	- fin zones are <1mm and shouline features: CA 50° & a cross set @ CA 60° on which limonite oxides appear to be concentrated					
	45.32 - 45.36m: limonite stain extending into wallrock from irregular intensely limonite fractures					
	46.9 - 47.0m: as in 44.45 - 44.95m.					
	CA 50° & 60° to intense limonite fracture surfaces & minor quartz					
	- entire interval very diffuse & patchy limonite stain pseudomorphed after py					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb
	47.94 - 48.3 m — aphan. (46.9-47.0) host & slight alteration of feldspars to clays. ∫ additional upper and lower contacts - hairline limonitic fractures and rare irregular <1mm quartz stringers	47.9-48.4	53677	< 5	0.1	870
	49.55 - 49.57 m 2cm band dy @ 50°; as above	49.35-49.85	53678	< 5	0.1	150
	49.98 - 50.02 4cm interval broken core along @ 45°, orange (limonitic) clay coated fractures & minor alteration of feldspars & mafics to clay minerals					
	50.67 - 50.73, 50.8 - 50.89 thin limonitic and weakly bleached intervals ~@ 70° ± moderately <1mm & limonitic fractures with latter					
	52.17 - 52.23, 52.26 - 52.34 m medium grey-white siliceous bands @ 70° & adjacent intervals typical medium grey-green tint & trace % mafic phenocrysts and epidote (alteration mineral					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb
	52.98 - 53.0 weakly bleached & limonitic oxidized band					
	~~as described earlier~~ - no distinct					
	quartz veins / stringers ; centre of band					
	creamy buff colour - very siliceous	54.85-55.35	53679	< 5	0.1	200
	55.91-58.0m CA 65° weakly bleached & limonitic &					
	clay alteration of ~~feldspars~~ weakly					
	~~are~~ preferentially breaks along CA 65°					
	limonitic surfaces					
	56.59 - 56.69m : limonite oxide coated fractures CA 5-10°					
56.69 - 59.74	Rhyodacite - grey, siliceous & distinct banding @ CA 45°					
	and rare mafic phenocrysts (chloritized)					
	- ~~no~~ few quartz ; trace < 0.1mm pyrite grains					
	- fine grained					
59.74 - 60.36	Dacite - Rhyodacite :					
	- very fine grained pale grey green unit					
	& trace mafic and calcareous phenocrysts					
	(the mafic phenocrysts are ~~an~~ medium to					
	dark green, up to 3.5mm diameter).					
	- unit is very siliceous although there is					
	very rare ~~fine~~ quartz veinlets.					
	- no banding					
	- distinct upper contact CA 45° where banding ends					
	- lower contact CA 50-55° to underlying unit					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
60.36 - 87.05m	Dacite -> Rhyodacite – possibly ash ± local breccia (lahars) interbeds	62.55-63.3	53680	< 5	0.2	510
	– matrix grainy in appearance ± a mixed green-grey and minor white colour	69.05-70.05	53681	< 5	0.1	610
	– fragments in lahars interbeds vary from <1cm and angular to >5cm and subrounded (to 5cm)	72.0-72.5	53682	< 5	0.4	350
	– quartz ± feldspar "fragments" (+phenocrysts) – lower limit is an arbitrary contact as there appears to be a gradual increase in silica content to the unit such that by 87.05 it is a rhyodacite					
	– some of the fragments show distinct discoloured (bleached) rims – possibly a result of alteration during or shortly after deposition.					
	– there are minor intervals (<2% of interval) of limonite stained and cut by limonite coated fractures, intervals also weakly bleached to a buff yellow colour					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
87.05 – 107.9	Rhyodacite tuff = very siliceous fine grained pale green-grey unit ± white feldspars and quartz phenocrysts, no mafic phenocrysts – as in the unit above. It has intervals of large subrounded fragments ± discoloured rims (in this interval the rims are pale grey, fine grained, siliceous whereas the fragments are pale green-grey and fine grained. – cut by rare CA35-40° limonite coated fractures – unit is very competent and cores well, fragments are noted 2-5' lengths 88.9 m CA 40° limonite fracture. 93.16 m CA 38° limonite fracture.					
94.95 – 95.43 m: subrounded fragments in siliceous matrix – fragments up to 15 cm diameter, 50% of them in this interval are buff coloured ± limonite staining concentrated along them	94.98-95.43					
	95.0-95.5	53683	<5	0.3	640	
95.34 – cut by 1 cm quartz vein CA 35° ± limonite oxides in vein and along						

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	101.88 - 101.91 CA 35° 2cm clay (pale green grey to white clay-no plastic) c minor calcite					
	104.64 - 105.02m large fragment, 38cm maximum diameter					
	105.02 - 107.9 m 0.3 to 2.0cm diameter siliceous spheres c feldspars altered to phyllosilicates; no distinct mafic phenocrysts (<1mm chlorite specks), about edges there is a grey-white rim (possibly an alteration rim) c the surrounding less siliceous matrix (matrix rhyodacite to dacite in composition, spheres rhyodacite. other fragments less siliceous c chlorite (alteration mineral?) giving green colour, not as spherical but still subrounded - unit may be an agglomerate (Y4)					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
107.9 - 108.75	Dacite to Rhyodacite - grey siliceous bands ± altered phenocrysts (appears identical in composition to the aphanitic masses) CA 38° c. more mafic and less siliceous dacite bands - banding is very distinct					
108.75 - 109.5	Dacite (Rhyodacite - no quartz eyes) - similar to unit above but has a "grainy" appearance (abundant altered felsic and mafic phenocrysts) but no banding 108.85 → 109.25m fracture CA 7° cuts dacite - filled ± calcite, clay, minor orange fe oxide;	108.75-19.25				
109.5 - 110.95m	Dacite to Rhyodacite - banding CA 30° cut by CA 30° pyrite - calcite 1mm veinlets, pyrite is 50% of the veinlet. (as above but banding on finer scale)	109.5-110.0				
110.95 - 147.07	Rhyodacite - - pale grey ± creamy and pale to moderate green phenocrysts (altered feldspar and mafics respectively), no visible quartz grains but the groundmass is very siliceous - <2% mafic phenocrysts, competent unit, core well	111.25-111.75	53684	< 5	0.2	220

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	- has a grainy (porphyritic) appearance with some banding in intervals between 111.25 → 116.9.					
	111.34 - 111.47 m: clay-calcareous ± minor manganese oxide					
	112.8 - 113.0 m					
	- cut by fracture @ CA 0°, has minor clay and manganese oxide along fracture surface					
	113.42 - 113.47 m.	113.2 - 113.7	53685	<5	0.3	220
	CA 45° grey (dark) clay ± minor calcite and intense limonitic staining; angular lithic fragments up to 1.2cm in clay.					
	115.9 - 116.85 m	115.85 - 116.85	53686	<5	0.3	490
	healed hairline fractures and up to 3mm wide, filled ± fine pyrite and trace quartz and calcite	116.85 - 117.1	53687	<5	0.4	370
	- CA of fractures vary from 30 - 50°, cross cut very fine siliceous stringers	117.95 - 118.45	53688	<5	0.3	190
	- trace pyrite ± the same mafic phenocrysts					
	116.85 - 117.0 m pyritic clay and calcite sheared CA 20°					
	118.0 - 118.4 m CA 30°, darker grey (more greenish tint) and less phenocrysts in siliceous interval - cut by quartz ± lesser calcite healed fractures					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	Remainder of interval is a pale grey-green rhyodacite to feldspar and mafic phenocrysts (both altered to phyllosilicates ⇒ sericite, clay, chl), no visible quartz grains although the rock is very siliceous - core well in solid 5' runs - rarely cut by 1-5mm quartz stringers / veinlets and minor clay coated fractures - few 10-15cm intervals of sub to well rounded lithic fragments (like in ash unit above) - upper and lower contacts fairly distinct - CA 20-40°					
	132.69-132.73m core broken; calcareous clay along broken edges					
	140.88-141.2m: rhyodacite becomes to dacite darker grey, no green tint, - quartz visible as 1-2mm grains	140.2-141.2	53689	< 5	0.3	190
		141.2-142.2	53690	< 5	0.2	720
	141.2-142.2m: very blocky core, core breaks along conjugate clay coated fractures & limonitic clay along broken surfaces					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
142.2 - 143.4m	Intense argillic alteration (pseudomorphous) of rock (same as previous interval)	142.2 - 143.4 (1m + 0.4m)	53691	< 5	0.7	4100
	- dark grey-green clay, possible pyrite					
	- CA85°; start of interval marked by grey-green plastic clay seams (fault contact)					
	1-2mm, lower contact also marked by clay					
143.4 - 147.07	Andesite - ash?	143.2 - 144.2				
	similar in colour to above interval but only moderate argillic alteration, decreases to weak - moderate by 144.2 m.	143.4 - 144.2	53692	< 5	0.7	1000
	to 144.0m has a mottled appearance - grey and green					
	- trace disseminated pyrite					
	- feldspars altered to phyllosilicates (pseudomorphous)					
	144.62m - 146.13					
	CA40°, upper contact to grainy unit → ash; mottled green-white unit, trace pyrite	144.2 - 145.2	53693	< 5	0.2	620
	146.58m 1.5cm irregular quartz vein & trace clay altered lithic fragments					
	146.13 - 146.28m ... Pyritic clay altered intervals & veinlets up to 1mm diameter at lower contact	145.2 - 146.2	53694	< 5	0.5	1100
	146.28 - 147.07 Silicified breccia zone & non-brecciated andesite - angular and subangular andesite fragments	146.2 - 147.2	53695	< 5	1.0	910
	lower contact CA70°					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	150.4m CA 40° 4mm quartz vein ± irregular healed splays	150.2-151.2	53699	< 5	0.4	140
	150.41m CA 80° 3-6mm quartz vein ± later calcareous clay					
	150.46m CA 72° 5mm quartz vein (quartz coats vein edges) ± later calcareous clay					
	150.57m CA 65° 3-8mm quartz vein ± later sericitic clay, slightly calcareous					
	150.62m - banding, CA 25° now visible - is distinct to 150.84					
	150.68m: CA 25-30°, quartz vein, irregular width and edges, up to 2cm wide ± later calcite					
	150.91m: CA 40° 3mm quartz vein ± splay at 45° to core axis minor calcareous clay ± purple oxide flecks in centre					
	151.41m: CA 80° 3mm quartz ± sericitic clay along vein edges, calcite in vein					
	151.54m CA 80° 7mm quartz ± calcareous clay intermixed ± quartz	151.2-152.2	53700	< 5	0.3	100
	152.1-152.13m CA 75° 3cm quartz vein, quartz incipient broken up in calcareous clay, trace sericitic clay					
	152.27m CA 70° 5mm quartz vein, trace clay					
	152.36m CA 65° 5mm quartz vein, trace clay ± brownish iron oxide					
	152.59m: CA 55° 2mm quartz vein ± sericitic altered clay. CA 30° hairline fracture ± coating of sericitic (lime green clay, calcareous)	152.2-153.2	53451	< 5	0.5	90
	153.17-153.2m quartz cemented breccia, minor calcite veinlets trivial to quartz	153.2-154.2	53452	< 5	0.5	80
	153.33m CA 80° 0.2/cm wide quartz vein ± sericitic alt					
	153.42-153.46m calcite infilling vein CA varies 60-90°, quartz cemented breccia					
	153.57-153.6m CA 80°, 6-2mm wide quartz vein ± 1.5cm diameter altered [illegible]					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	158.65-158.10m: highly broken core → ebroken sugary quartz veins with only trace calcite; (quartz crystals 0.2 by 0.6cm) difficult to get orientation because of broken core,					
	158.13-158.16m: CA 70° 3cm sugary quartz annealed breccia, minor calcite					
	158.24-158.26m: CA 70° 2cm sugary quartz vein with minor calcite, cut by CA0° fracture, offset 1.5cm right lateral 1.5cm					
	158.26-158.68m: core broken, attitude as in previous interval but with rusty red-brown iron oxide	158.2-159.2	53457	<5	0.6	490
	158.73-158.83m: core highly broken, appears to be cut by clay zone & subangular and subrounded 2-3mm lithic fragments, offsets 2.5cm sugary quartz vein by 1.5cm right lateral - minor calcite in clay and quartz vein					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	158.68 - 161.43m: less altered andesite, locally blocky but considerably more competent than previous interval	159.2-160.2	53458	<5	0.4	270
		160.2-161.2	53459	<5	0.3	50
	- cut by quartz and calcite-clay veins CA 65-75° and 2-5mm wide, average 1 per 10cm					
		161.2-162.2	53460	<5	0.3	50
161.43-164.73	Andesite with Quartz Stockwork intervals (25% of interval)	162.2-163.2	53461	<5	0.5	40
	- predominant fracturing ⊥ perpendicular to core axis (75-85°CA)	163.2-164.2	53462	<5	0.4	310
	- later sericite/chlorite clay and calcite interstitial to quartz; trace euhedral to subhedral pyrite 0.5mm diameter in greenish grey, angular 0.3 to 7cm diameter fragments in stockwork					
	- cross-cutting the quartz healed fractures and stockwork are thin <1mm calcareous unstrained veinlets called CA30° fractures					
	- 164.56 to 164.73m: sericitic veinlets in argillic alteration - fine grained green (chloritic)					
164.73-165.14m	Intense Pseudomorphic Argillic Alteration.	164.2-165.2	53463	<5	2.8	740
	dark grey to grey green clay altered interval, trace pyrite (euhedral to subhedral					
	- concordant approximately perpendicular to CA, no quartz stockwork discernable in this interval					

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Hole Number BB-03 Page 2 of 26

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
165.14 - 173.56	Andesite with Abundant Quartz-healed Breccia (Stockwork) and clay Seams					
	- fine-grained medium green grey as in wallrock	165.2-166.2	53464	< 5	1.0	850
	altered microcrysts of feldspar / no quartz and only very rare mafic phenocrysts /	166.2-167.2	53465	< 5	1.2	1200
		167.2-168.2	53466	< 5	3.2	1900
		168.2-169.2	53467	< 5	1.0	5000
	- quartz in most intervals is crystalline, having a sugary	169.2-170.2	53468	< 5	0.8	4800
	texture, healed fractures without lithic fragments @	170.2-171.2	53469	< 5	0.8	8300
	CA 70° to 80°, 15-20% of interval quartz-healed stockwork veins					
	- fragments are subangular and angular with some					
	subrounded in the intense stockwork intervals					
	later quartz veins, grey-white cut stockwork at CA 60°					
	171.0 - 171.7 m clay-healed fracturing along core					
	axis, crosscuts quartz veining, subangular and					
	subrounded quartz and lithic fragments < 3mm					
	diameter in clay					
	169.55 - 169.47 Quartz (grey-white) and buff-clay					
	healed fracture that parallels clay zone with < 2mm					
	diameter lithic and quartz fragments, both CA 0°					
	171.7 - 172.56 m: highly broken core, 50% recovery,					
	in this interval, pieces that were recovered are					
	friable, intense argillic altered (pseudomorphous) with subangular					
	lithic fragments and quartz fragments (sugary preserved crystalline quartz	171.2-172.21	53470	20	1.0	6500
	172.56 - 172.71 m: intense clay alteration, medium to dark grey					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	with upto 1cm diameter subedral pyrite.	172.21-173.2	53471	< 5	6.8	2300
	172.74 - 173.5b m: brecciated & quartz and later intergranular calcite cement, lithic fragments vary from grey (acak) to moderate, locally intense pseudomorphic argillic alteration) to buff - pale orange and grey-white (the latter quartz fragments) in matrix that is siliceous with fine grained grey-green mafic.					
173.56 - 174.3m	Andesite, no clay seams and only minor quartz - 173.56 - 173.92 and 174.1 - 174.3 m: intervals have almost a speckled appearance -> <0.5mm diameter 2 alkali feldspar grains & phyllosilicates; overall fine grained, pale grey-green colour - 173.92 - 174.1 m: fine grained siliceous, darker green-grey	173.2-174.2	53472	< 5	1.7	390
174.3 - 182.2m	Andesite					
	- fine grained grey-green unit - <0.5mm clay altered grains - cream and pale green coloured, in a very fine grained siliceous grey-green matrix - has intervals of quartz stockwork, and pale green pyritic clay.	174.2-175.2	53473	< 5	1.2	280
	174.48 - 174.51 @ 65° clay - fault gouge, pale green-grey & trace subedral pyrite					
	174.6 - 174.62 @ 55° clay, pale green-grey & trace subedral pyrite					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	174.78 - 175.15m: quartz stockwork - angular diorite fragments up to 15cm long with crystalline white quartz cement and later chloritic clay ~CA lower contact 30°	175.2-176.2	53474	< 5	1.5	240
	175.47 - 175.59m: pale green-grey clay with 1-2% fine euhedral pyrite, ~CA approximately 60°					
	175.92 - 176.18m: 20% irregular quartz healed fractures and stringers, CA 75-90°					
	176.33m 0.7cm clay seam CA 40° 176.39m 3mm CA 55° clay seam					
	176.53 - 176.68m clay along fractures, CA not measurable due to broken core; 1-2% pyrite	176.2-177.2	53475	< 5	1.2	200
		177.2-178.2	53476	< 5	1.5	270
	177.1 - 177.13m: 1.5cm clay seam, pale green grey, CA 30°, trace pyrite					
	177.38m CA 70° pale grey green clay along fractures, trace euhedral pyrite up to 1mm diameter					
	177.66 - 182.2m: 15-20% quartz veining - stockwork at CA 80°-90°; andesite fragments angular 0.5 to 3cm long	178.2-179.2	53477	< 5	0.8	220
		179.2-180.2	53478	< 5	1.1	150
		180.2-181.2	53479	< 5	0.7	150
	quartz cement is white, crystalline & occasional green chlorite-sericite buff clay interstitial to the quartz, trace later calcite	181.2-182.2	53480	< 5	0.9	180

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
182.2 – 185.4m	Mottled green-grey coloured andesitic unit - possibly an ash, locally green (chloritic groundmass with creamy white altered feldspars (a phenocryst) subrounded fragments 2 to 10cm diameter in green-white mottled looking matrix, rare grey-white quartz veining (minor last 0.9m quartz vein) - unit is very competent and core well - local CA 70-80° fractures & oxide and calcareous coating 182.2 - 182.24, 182.31-182.33m: pale grey-green pyritic clay seams @ CA 90° & < 0.5cm thick and finely fragments (subangular to subrounded) 182.24-182.31m: silicified interval → quartz veins @ CA 90°, locally crystalline with 182.62-182.66m: 2 quartz (grey-white) veins, 2cm and 1cm wide @ CA 85°;	1822-1832	53481	< 5	1.0	180
		1832-1842	53482	< 5	0.3	40
		1842-1852	53483	< 5	0.3	70
		1852-1862	53484	< 5	0.1	60
		1862-1872	53485	< 5	0.1	450
		1872-1882	53486	< 5	0.2	360
		1882				
185.4 – 188.04m	Fine grained, green (chloritic), locally vesicular andesitic flow - locally flow(?) banding CA 20°, vesicles (to 20mm long, filled with calcareous with thin mafic rims - grades back into a "mottled" grainy unit → contact - also cut by thin (< 4mm) clay-carbonate and rare brown Fe-oxide coated fracture CA 70-80					

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Hole Number DC88-03

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
188.05 - 203.05m	Unsorted, fragmental ash [illegible], andesitic in composition cores well except where cut by CA 15° clayey fractures: also 188.98 - 189.2, 189.5 - 190.55, 191.61 - 191.96	[illegible]	53487	< 5	0.2	8,100
	- clay seams @ 193.56 - 193.64 CA 60° (pseudomorphic argillic alteration 194.11 - 194.15 CA 60° (core previous seam), 194.7 - 194.72 (green-grey plastic clay) CA 50° with red brown Fe oxides at edges	[illegible]	53488	< 5	0.2	180
		[illegible]	53489	< 5	0.3	550
	- 194.89, 195.03, 195.09 thin clay altered seams with red brown Fe oxides at edges CA 50-65°	[illegible]	53490	10	0.3	60
	- 195.3 - 195.65m: broken core with clay rich seams (altered like those above with red brown) Fe oxides at edges	[illegible]	53491	< 5	0.3	60
	201.87 - 202.01m: calcareous green to maroon red-brown Fe oxide clay seam) CA 60° (pseudomorphous argillic alteration)					
	202.2 - 202.25m: clay seam CA 65° pseudomorphous argillic alteration					
	202.68 - 202.75m: pale green grey clay CA 40° @ upper edge lower edge @ 65°, clay conscious trace [illegible]					
203.05 - 214.68m	Siliceous globules (Rhyolitic) in fine grained chloritic groundmass → [illegible] core axis					
	- very fine feldspar phenocrysts (altered to clay) in the rhyolitic globules					
	- rock becomes more fracturing such that					

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Hole Number BC88-03

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	- by 206m it constitutes the entire core interval					
	[illegible] cut by later epidote/calcite shear fractures and					
	rare quartz ± clay ± carbonate stringers/veinlets					
	- by 210.21 the "CA trend" is not visible; faint					
	banding @ CA40°					
	213.39 - 213.5m: rhyolitic unit - siliceous					
	globules in siliceous matrix, pale grey-buff ± green tint.					
	lower contact CA50°, upper CA20°					
	263.68 - 214.3m: interval as above, upper contact					
	CA40°, lower contact CA45°					
	214.88m E.O.H					

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Hole No. BC88-04
Location: Lat. 9+90S
Long. 3+20E
UTM
Collar Inclination -65°
Collar Azimuth 111°
Casing 12ft = 3.66m.
Total Length 736ft = 224.33m

Sperry Sun Tests

Depth	Azimuth	Inclination
37.8	100°	-65°
83.5	101°	-65°
129.2	102°	-65°
175.0	102°	-65°
220.7	105°	-65°

Property Bobcat II Project
Date started September 10, 1988
Date completed September 13, 1988
Contractor D.W. Cooke Enterprises Ltd
Core size NQ2

Logged by K. Dcostello
Date Sept 14, 1988

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
0 - 3.66	Casing					
3.66 - 22.8	Lahar Breccia With Non-breccia intervals - subangular to subrounded fragments (mainly creamy feldspar phenocrysts with rare mafic phenocrysts (black) in medium green chloritic groundmass) 1 to 20cm in length - fragments in creamy white groundmass, very siliceous with creamy feldspar (weakly altered in patches to phyllosilicates - weak patchy limonitic oxidation stain - trace grey-white quartz patches in matrix 11.85 - 12.30m. medium brown (limonitic) clay along CA0° in non-breccia interval.	11.75-12.5	53492	< 5	0.2	550
	12.35 - 13.05m. pale yellow (Fe-oxide stained) altered feldspars (now clay minerals) in Lahar Breccia, trace irregular grey-white quartz stringers and veinlets, < 2mm wide, veinlets @ CA45° at 12.37 and 12.85m. 4mm wide @ CA45 ± 30° at 12.95m.	12.5-13.0	53493	< 5	0.1	970

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	13.05-16.4m. Rhyodacite Andesite Mainly medium green with white creamy white and black phenocrysts, fine grained, siliceous competent interval, cut by fractures (healed; buff siliceous); more abundant mafic phenocrysts + less altered feldspar phenocrysts trend along CA 0°					
	15.71-16.0m. Lahar breccia interval					
	-banding CA 55°	16.0-16.5	53494	< 5	0.2	220
	16.3-16.89m. CA60° upper contact → clay (pale grey-green & patchy pink-red stain CA45° lower contact 1mm quartz veinlet. - area in between riddled hairline fractures but no extensive alteration.	16.5-17.3	53495	< 5	0.1	330
	16.75 → onwards → still a fragmental unit → ash but	17.3-17.8	53496	< 5	0.1	370
	17.36-17.46m. not a Lahar Breccia pale grey-green clay with 5cm sub-angular altered lithic fragments, core broken up.					
	18.54-18.57m. medium grey-green clay & minor orange colour (Fe oxide staining), CA65-70°	18.3-18.8	53497	< 5	0.1	370
	19.45-22.8m. moderate to intense oxidized, clay altered interval; alteration masks original textures - appears to have been an ash unit	19.3-20.3	53498	< 5	0.3	630
	- upper contact at CA65° marked by clay coated fracture and brown-black Fe.					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	oxidation stain to moderate to intense clay altered, broken core.	20.3 - 21.3	53499	<5	0.2	780
	20.15 - 20.4m: weak argillic alteration and no distinct Fe oxidation stain, upper contact sharp CA 35° lower contact sharp CA 23°	21.3 - 22.3	53500	10	0.3	620
		22.3 - 22.8	44601	10	0.7	1300
		22.8 - 23.8	44602	<5	0.1	110
	20.4 - 21.45m: as in 19.45 - 20.15m 21.14, 21.32, 21.43m. limonitic clay seams at ~CA 40-50°, 1cm wide					
	21.45 - 21.85m: competent interval, weak argillic alteration, trace Fe oxide stain, contact at top marked by clay seam, lower contact gradational	23.8 - 24.8	44603	<5	0.1	1900
	21.85 - 22.8m: as in 19.45 - 20.15m. but only moderate argillic alteration; orange brown with patchy brown-black Fe oxide stain - lower contact sharp along CA 30° and CA 2° fractures					
22.8 - 24.88	Andesite. medium green (chloritic) groundmass with cream coloured (feldspar) phenocrysts + rare mafic phenocrysts, patchy intense limonite oxidation in blebs up to 7mm and along fractures at CA 15°. feldspar phenocrysts + mafic phenocrysts altered to phyllosilicates					

LEXINGTON RESOURCES LTD.

Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	23.7 - 24.88m Andesite bleached to a pale creamy-green colour with locally intense limonite oxidation staining along fractures at CA 35° and as irregular blebs (some of the latter showing casts after euhedral pyrite, - clayey broken surfaces (fractures) at CA 50° in interval 24.12 to 24.16m. 24.77m: faint banding CA 60°					
24.88 - 43.2	Dacite - Rhyodacite - dark green (chloritic & silica) to medium grey fine grained groundmass with <0.5mm feldspar phenocrysts, rare 1-2mm cream black green mafic phenocrysts 1-2mm, 10-15% quartz as grains of 5-7mm, With several bleached intervals and limonitic intervals, locally blocky, trace epidote - banding CA 40° distinct throughout					
	25.15-25.18m buff, pale brown (bleached weakly) interval about limonitic fractures at CA 40°					
	25.43-25.48m CA 47° (crosscuts banding) limonitic zone & minor quartz (clay near vein @ 25.46m) in black brown band (possible vein) @ CA 47° 25.46					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	26.04 - 26.07m: 1-2mm fractures CA 42°, weak bleaching and limonitic stain extending out from these, minor quartz, mafics in with Fe oxides					
	27.6A - 29.0, m: medium green banded interval c. weakly bleached zones listed below					
	28.06 - 28.18m: broken core, blocky, broken edges coated with black-brown Fe oxides and pale creamy grey clay	gone from 44603				
	28.51 - 28.59m: hairline limonitic fractures CA 60° cut across banding	not # 43613 - start logging to rest of sequence.				
	28.73 - 28.75m: weakly limonitic about fractures at CA 55° c. intense limonitic clay (thin)	is this 43--- or 44---				
	28.92 - 28.98m: weakly bleached and limonitic zone, distinct upper and lower contacts at CA 80° ° → fracture at 28.96m at CA 30°	sample #				
	29.38 - 29.41m: as in 28.92 - 28.98m, contacts and fracture at CA 43°					
	30.8 - 31.26m: blocky, broken core interval core breaks preferentially along breaks, minor weak limonitic fragments					
	33.84 - 33.89m: green interval (Fe staining related?) about limonitic fracture at CA 55°					
	34.36 - 34.47m: limonitic + bleached about CA 55° wispy quartz vein 3mm c. intense Fe oxides in immediately adjacent wallrock @ CA 55°	34.2 - 34.7	44613			

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	35.82-35.86m: @ 34.36-34.47m → i.e. orange brown limonite oxidation stain and weak bleaching about quartz vein CA45°, 5mm wide, lower edge of vein 3-5mm green-black mafic (chlorite) band.	35.5-36.0	44614	<5	0.1	60
	37.34-37.44m: @ 34.36-34.47m → 2mm quartz vein CA45°, slightly vuggy & clay infilling, orange brown limonite oxidation in immediately adjacent 0.7 to 1cm; weak orange brown limonitic stain throughout interval; CA 17° white clay coated fracture cuts across vein	37.1-38.1	44604	<5	0.3	90
	37.55-37.68m: intense argillic alteration (pseudomorphic) - grey clay with trace to 1% <0.5mm euhedral pyrite, ~CA55°, minor Fe oxide					
	37.68-37.9m: broken blocky core, breaks along core axis, black brown Fe oxides along broken edges along with trace white clay					
	38.0-38.1m: broken, clay altered core interval - mainly white with minor pale green (chlorite) clay, locally calcareous - upper contact sharp CA 50°, lower contact appears sharp but core					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	broken (i.e. no core angle measurable					
38.92m:	quartz vein CA 35°; 2-4 mm wide, trace epidote at edges					
38.8 to 39.42m:	gradually banding becomes less distinct, unit still CA 45° still fine grained, medium grey with slight green tint, siliceous groundmass with visible feldspar, quartz and mafic phenocrysts; felsics generally <1.5mm, mafics 2-4mm, (porphyritic)					
39.42m - 39.51	CA 45° distinct contact between medium grey and pale to medium green unit					
39.5-41.0m:	CA 0-20° limonitic fractures cut core; coreblocky					
	39.86-40.17m: CA 45° to upper contact; intense limonitic stain with trace limonitic clay 39.9-39.93 39.93-40.17m fragment supported breccia & quartz healing and lesser clay & red-ank reoxide stain	39.8-40.8	44605	< 5	0.2	290

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ole Number BC88-04

terval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
43.2	Dacite fine grained, dark grey f feldspar and					
44.93m	mafic phenocrysts up to 3mm diameter					
	- groundmass siliceous; irregular					
	grey-white quartz grains visible					
	- Fe oxide stained and weakly bleached					
	intervals, Fe oxide coated microfractures CA10-30					
	44.1-44.5m: banding obliquely @ CA 50°; cut by					
	hairline limonite coated fractures @ CA 35-40°					
	- banded buff-brown-cream colour (banding)	44.5-45.5	44606	<5	0.1	330
44.93	- overall weakly bleached and limonitic interval					
44.93	Limonitic and bleached interval as in 44.1-44.5m,					
-45.37m	- banding not as obvious, only subtle colour contrast					
	45.24m CA 40° 2 quartz veinlets, 2mm wide,					
	trace clay along broken upper contact					
	45.25-45.37m: cut by mafic coated microfractures					
45.37-	Rhyodacite - fine grained, medium grey with feldspar					
47.96m	and trace mafic phenocrysts - similar					
	to Dacite 43.2-44.93 but less mafic					
	phenocrysts, + more siliceous groundmass					
	- faint banding at CA 40°; very trace pyrite					
	46.64-47.96m: weakly bleached and limonitic					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
48.96-55.16m	Buff, pale yellow) orange and pale green ash; possible Lahar Breccia (?)					
	- distinct fragmental unit; fragments andesitic (feldspar phenocrysts in green chloritic groundmass),					
	- fragments weak to moderately altered (argillic and bleaching) with weak limonite oxidation					
	- matrix is siliceous with trace chloritized mafic phenocrysts					
	- fragments generally appear to be <10cm diameter					
	- core breaks at CA0°-10° along clay-rich fractures from 46.96 → 47.58m and 49.6-49.86m, limonite	51.5-52.5	44607	<5	0.1	430
	fractures 53.07-53.6m.	52.5-53.5	44608	<5	0.1	240
	49.72-50.89m: interval not as yellow-orange (ie. fe oxide stained), get more siliceous matrix to fragments					
	55.16-55.6m					
	-grades into finer grained mixed green-white with patchy pale yellow Fe oxide staining; at 55.6 becomes pale grey-green siliceous unit					
55.6-56.31	55.6-56.31m: Rhyodacite - creamy white feldspar and grey white quartz phenocrysts, rare mafic phenocrysts, rare spotty limonite oxidation					
	- local contact sharp at CA40°					

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terval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
56.81-63.92	Andesite (?)					
	- buff to pale greenish yellow coloured					
	- feldspar phenocrysts, <2mm diameter, are altered to clays; groundmass is chloritic; trace mafic phenocrysts; no visible quartz, although the groundmass likely contains quartz					
	- siliceous interval (ie rhyodacite) from 57.22 to 58.02 with banding at CA 25°					
	- interval 56.81-63.92m is similar to 55.16-55.6m, has patchy, pervasive limonite oxidation (locally intense)					
	58.78-58.83m orange brown intense limonitic interval	58.5-59.0	44609	<5	0.1	370
	- upper contact CA 40° appears to be a limonitic clay coated fracture					
	lower contact CA 25°					
	- <0.5% grey-white quartz in cracks					
	63.28-63.38 locally intense clay alteration and weak to moderate limonitic stain associated with CA 70° chip board' at 63.33m	63.0-63.6	44610	<5	0.2	230
	62.65-63.92m appears to be fragments up to 20cm diameter or possibly fractures & micro alteration extending either side (alteration is weak Fe oxidation and bleaching)					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
63.92 - 70.36m	Rhyodacite to Rhyolite	69.26-70.25	44611	<5	0.3	130
	-siliceous, fine grained unit, feldspar and very trace amounts of mafic phenocrysts, cores well - is a very competent rock.					
	- get gradational variations from Rhyodacite to Rhyolitic banding locally visible at CA40°					
	68.18 - 68.26m					
	CA45° limonitic, friable internal, sandy clay					
	68.81 - 68.88 m:					
	siliceous globules (rhyolitic) with <0.5mm feldspar phenocrysts (clay altered?) in rhyodacite (siliceous and chloritic groundmass).					
	68.81 - 68.88m: irregular clay-carbonate - a minor vuggy quartz healed fracture.					
	69.33 - 70.03m:					
	patchy limonite (intense yellow-orange) in rhyolitic unit, some limonite appears associated with hairline fractures at irregular core angles					
	70.44-70.51m:					
	limonite oxidation stain extending out from 1cm limonitic, sandy friable zone at 70.48 @ CA40°					

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ole Number BC88-04

terval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	70.63-78.48m.					
	interbanded rhyolite and rhyodacite					
	banding @ 45°					
1.36 → 78.48m	Rhyolite / Rhyodacite					
	- medium grey with slight greenish, <0.5mm phenocrysts of feldspar and rarely mafics, in siliceous groundmass.					
	- <0.2mm stringers (siliceous) define CA45° banding					
	- trace epidote (propyllitic alteration.)					
	- minor limonite along CA58-60° fractures					
78.48 - 81.08m.	Distinctive banded rhyolitic interval, with fragments (rectangular) oriented along banding					
	- banding CA60°					
	- rare quartz stringers cut rhyolite, irregular pyrite stringers ~~rdob~~ 78.5-80.5 cut and paralled banding					
81.08 - 81.62m	Intensely limonitic, bleached, broken core interval. cut by thin (<0.4cm) quartz veinlets	81.0-81.6	44612	<5	0.6	110
	- casts of <0.2mm pyrite cubes remain along with limonite pseudomorphs					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
81.62-167.5	Rhyolite to Rhyodacite:					
	- fine grained, light to medium grey with greenish tint, highly siliceous groundmass with very fine phenocrysts of feldspar (<0.5mm), quartz grains and mafics (chloritized) upto 3mm diameter - porphyritic					
	- locally trace visible pyrite, very fine grained					
	- banding distance CA 50-60°					
	- trace epidote as fine grains, in drusy veins alone and occasionally with quartz					
	84.12-84.5m: core breaks along CA 15° limonitic fracture with minor clay and quartz, alteration of feldspar and mafics as phenocrysts to phyllosilicates	84.05-84.53	44615	<5	0.7	310
	84.93-85.85m: cross fractures CA 40° CA 80° cut banding, minor bleaching along fractures and into adjacent wallrock, trace fine pyrite along fractures	85.7-86.2	44616	<5	0.7	210
	85.6-86.13m: CA 70° quartz healed fractures at 85.65 and 85.74 (clay along the latter in weakly bleached zone, progressing into moderately argillic altered, limonitic fractured by 85.9					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	86.13-87.0m. massive fine grained rhyodacite to rhyolite, as described earlier					
	87.0-87.93m. fractures cut across banding (banding CA30°); pervasive bleaching	870-880	44617	<5	0.2	60
	87.07-87.27m: limonitic cross fractures and minor 1-3mm quartz veins CA60° & intense limonite oxidation in adjacent wallrock					
	87.27-87.93m: pyritic cross fractures (no limonite oxidation), banding CA40-50°					
	- combination of the fractures and bleaching crossing the banding gives a grey-white ODD-type appearance.					
	89.43-89.53m: "stupid" appearance - .05cm silicic banding CA45°					
	89.73-90.32m. highly fractured - brecciated interval with 1% pyrite as fracture filling & fine grained mafic					
	- fragments subangular to sub-rounded.					
	90.22-107.25 massive to faintly banded rhyolite to rhyodacite CA35-40°					
	- limonitic intervals and quartz veins listed below:					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	94.18m: quartz vein CA 45°, trace epidote 3mm wide. limonitic fractures CA 52°, limonitic stain extending 2cm out from					
	94.97-95.01m fractures					
	96.32m: limonite coated fracture CA 84°, trace quartz (1mm) coating					
	97.07m: quartz vein CA 35°, 3mm, trace finegrained pyrite concentrated along upper outer vein edge.					
	97.36m: 3-5mm CA 15° quartz vein, vuggy					
	97.5m: 2mm CA 15-20° vuggy quartz vein					
	98.66-98.96m hairline limonitic fractures CA 30-35° give pale limonitic stain to interval					
	99.59m: quartz vein CA 40°, 3mm, trace white clay in centre.					
	100.06, 100.11m: limonitic fractures CA 50°					
	100.3 - 100.47m: quartz vein along CA, 15a splay off vein at 100.47 @ CA 52° both with					
	101.19m: quartz vein 5mm, CA 50°, with centre running CA 0° along fracture, trace pyrite and epidote along edges					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	104.73m: 4cm quartz vein CA40° trace epidote and rare pyrite flecks at edge,					
	102.5m: 7mm quartz vein CA48; trace pyrite and 1% epidote concentrated along outer edges					
	105.06-105.15m: CA45° 6.5cm wide 'breccia' vein with central quartz vein at 105.10 - <1cm diameter angular limonitic and bleached lithic fragments in silica-rich cement	104.8-105.3	44618	< 5	0.1	90
.1	106.-107.25m: dark grey & local pale grey rhyolite, banding CA40° cut by 5mm quartz-epidote pyrite vein at 106.53m CA70°, other epidote stringers at 106.84, 107.11 CA40°					
10	107.25-105m: Rhyodacite, pale grey-white with slight green tint, <5% pale lime green (sericitic) altered feldspar phenocrysts and mafic phenocrysts - groundmass minerals also altered to phyllosilicates - interval still competent, banding discernible at ≥CA45°, cut by 1mm quartz vein CA32° @ 107.34					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
101.5 - 108.06m	Transition from Rhyolite - Rhyodacite Units to Lahar Breccia (Fragmental Unit)	107.5-108.5	44619	< 5	0.1	90
	- 107.5m marks increase in phyllosilicates in groundmass (weak to moderate argillic alteration), with limonitic oxidation staining at 107.65					
	- core starts off pale grey whole with patchy buff-yellow intervals, beaming buff-yellow with minor pale green tinted patches at 107m					
	107.63 - 107.98m: limonitic fracture cuts core @ CA 22°, 3mm quartz veinlets core CA 27°; minor clay with both					
	108.06 m: sharp contact to mark end of limonitic and clay altered interval; CA 40°					
108.06 - 109.65	Fragmental (Ash?) Unit - With minor intercalated flow, fine to medium grained, white grey to dark grey banding defined by dark (mafic + pyrite) layers CA 50° and white grey siliceous layers; locally has a gradational appearance					
	108.3m: CA 40° 3mm calcite and quartz vein	108.5-109.5	44620	< 5	0.2	60
	108.63 - 109.06m: fine laminations CA 55°, intense limonitic fracturing along CA 55°					
	109.0 - 109.05m: dark grey (trace visible					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	pyrite to 20.7cm subangular lithic fragments; contacts of zone not defined as core is very broken.					
	109.19m: CA37° 1.5cm siliceous vein filled with white clay (slightly calcareous) with cuttings edge brown (rusty) limonitic stain and trace red oxidation. - unaltered angular wallrock fragments in vein.	109.5-110.0	44621	20	0.2	50
	109.25m: limonitic fracture CA40°					
	109.36m: calcite (coarse crystals up to 0.5cm showing twinning) and white plastic clay healed fracture / vein CA40°, 3.5mm					
	109.4cm: irregular calcite stringer ~CA30°					
	109.5-109.67m: limonitic fractures along core axis (core breaks along these), trace clay with limonite oxides, wallrock is weak to moderately argillic altered.					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
109.67-	Fragmental unit with Kanaa Breccia textures					
125.0	109.67 - 111.75m: andesite,					
	fine to medium grained, pale green c. white					
	and lesser dark green phenocrysts (rock					
	altered to phyllosilicates); groundmass					
	chloritic with lesser clay minerals and					
	calcite; phenocrysts → bahite were feldspar,					
	now clays, dark green mafic phenocrysts					
	are chlorite → 'glassy' appearance, no					
	laminations - possibly an ash					
	111.75 - 125.0 Kanaa Breccia					
	surrounds and subangular fragments					
	of similar composition to unit above					
	matrix slightly less green colour ie.					
	less chloritic and more siliceous					
	- rare rhyolitic spherical globules present					
	ca. 113.2 - 113.2m					
	117.62m: CA 47° quartz vein c later clay					
	and minor calcite in centre					
	6mm wide					
	124.09m: CA 50° quartz vein c trace calcite,					
	2mm wide					
	124.18m: CA 50° clay breccia vein, calcareous					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	wall <0.5cm) angular lithic fragments, 1cm wide.					
	124.2m: CA 50° Quartz vein 2.3mm wide, trace calcite.					
1250-164.17	Rhyodacite, locally Rhyolite					
	- fine grained, pale grey/pink/green; phenocrysts 5-10% (mostly altered feldspars and lesser mafics) in siliceous pale grey aphanitic groundmass with trace to 0.5% <0.5mm quartz, trace to locally 0.5% epidote groundmass siliceous with lesser fine calcite; ~~pink banding~~ CA40°					
	126.88-127.12m grey clay along fracture running along ~ core axis, slightly limonitic	126.8-127.3	44622	<5	0.1	30
	129.54m: calcareous limonitic clay coated fracture CA 45°	129.5-130.8 0.8m recovered 1.0m 0.2m loss	44623	<5	0.1	50
	130.19-130.85 m: calcite and quartz veining at CA60°	130.2-130.85m				
	- quartz veins from sugary and crystalline to grey-white (appears almost chalcedonic in one broken piece CA45° vein), calcite in lesser amounts; (no interval of broken and lost core: 130.2-130.65 some of the fragments are clayey-pale green tinted white clay.	130.8-131.3	44624	<5	0.1	90
	130.93m: CA55° 3-4mm quartz-calcite vein & trace pyrite cubes <0.5mm					
	131.12-131.21m: pyrite clots in stringers of white crystalline					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	quartz CA35°, latter clay and last calcite infilling between quartz crystals; orange-brown limonite oxidation; pyrite blebs up to 1.5cm long - clots of very fine grains					
	133.26 - 134.45m: fractured interval; various fractures (healed) and across faint banding					
	140.9m CA44° chloritic fracture.					
	140.99m ± CA20° irregular quartz healed fracture with about 5% fine pyrite as blebs					
	143.31 - 143.9m: CA65° several (4 fractures) 1-3mm quartz - clay veins with minor calcite and pyrite; one interval is very broken, weak to moderately argillic altered.					
	143.85 - 144.55m: core breaks along CA 0-10° calcite coated fractures.					
	145.21m CA 33° irregular width quartz vein, minor limonite oxidation; trace calcite and pyrite in quartz					
	146.54 - 146.57m: CA53° 2.5cm quartz healed breccia vein ± 5-10% pyrite	14645-14695	44625	<5	0.1	70
	146.78m. CA 60° 2mm quartz vein					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	153.98m CA 50° 1cm clay stained ± 2mm quartz vein at lower edge.					
	157.28 - 162.9m 1-2% pyrite as fine anhedral grains in the rhyodacite & rhyolite interval, banding CA 35°					
	159.92 - 160.35m dark grey rhyolite with 15% interlayered rhyodacite, trace calcite on broken core surfaces					
	162.9 - 164.17m: increasing silica in the form of matrix quartz grains, becomes Rhyodacite tuff and with compositional banding CA 40°					
	- calcite healed fractures/veinlets 5mm wide CA and CA 53°		6			
	- 164.03m: 3mm quartz vein CA 65° crosscuts green-grey banding (andesite - rhyodacite)					
164.17 - 165.69.	Rhyodacite fine grained, medium grey-green sericitic groundmass with sericite feldspar phenocrysts and lesser iron-stained feldspar phenocrysts; siliceous stringers define banding CA 32°; moderately porphyritic rare pyrite specks. 164.32m 1cm quartz vein CA 45°, brecciated wallrock fragments up to 1.5cm wide in part of vein 2cm wide trace blebs of fine pyrite grains within fragments and quartz; extending 0.7 to 1.2cm out from the vein					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	164.93-164.97m. 4cm quartz vein CA65°; replaces quartz 50.2cm with clay and later calcite infilling angular wallrock fragments up to 1cm long					
	164.8m: 2mm calcite vein CA65°					
	165.17-165.69m: massive rhyodacite with 1mm calcite stringers	165.0-166.0	44626	<5	0.3	170
165.69-166.06	Andesite, fine grained to medium grained, medium green-grey; chloritic and felsic groundmass; feldspar phenocrysts (some sericitic alteration) - cut by thin calcite stringers CA65°, slickensides on some. - breccia bands 1.5-2cm wide CA30°, cut and offset 3cm sinistrally by fractures CA40° i.e. 165.69-166.09m. 166.25-166.59m interval of quartz and white clay healed fractures; start of gouge fractures @ CA95°, within gouge fractures variable in orientation, predominantly trends 30-95°, core reported start of gouge	166.0-167.0	44627	<5	0.1	290
	166.59-167.85m: fine to medium grained (has grainy texture), foliation @ CA35°; locally blocky/broken core; cut by calcite veinlets/healed fractures with minor clay. : clay altered seams. 167.85-167.89m					

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Hole Number _____

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	-appears to be moderate to intense argillic alteration CA 68° (c, less altered angular fragments), 168.94-167.96m: clay					
	altered as in previous interval, no core angle orientation as core broken	167.0-168.0	44628	<5	0.2	560
		168.0-169.0	44629	<5	0.1	520
	168.92 - 168.84m: very blocky broken core with clay alteration (as described in above interval)					
	168.94 - 168.98m: CA 50° "banded" clay gouge zone 2.5cm wide.					
169.06-	Breccia,	169.0-170.0	44630	5	7.3	810
169.4.	-angular and subangular lithic fragments (up to 2cm in diameter) in pyritic black with lesser grey white quartz					
	- matrix supported					
	- lithic fragments weakly altered (argillic)					
	- pyrite 10-12% very fine grained (subhedral + euhedral					
	- approx. CA 90° with minor later (post) clay breccia veins @ CA 90° in 169.3 - 169.4m.					
169.9-	Fault Gouge,					
169.96	- black clay with lithic fragments, sickensided at contact, near perpendicular to core axis ('horizontal')					
	- upper contact ~CA 43° ; lower contact ~CA 48°					
	- very fine (< 0.5mm) euhedral pyrite in clay > lithic fragments subangular and subrounded and generally less than 1.0cm diameter					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
169.56 –	Andesite					
169.77 m	fractures CA 23-28° split core, minor alteration similar to unit described 165.69-168.9 m					
169.77 –	Fault Gouge					
170.06	- similar to previously described fault gouge unit with less plastic black-grey clay; clay zone 169.83-169.93 m.					
	- upper contact ~CA 45°; lower contact CA 30°					
	Rhyodacite,					
170.06-172.21	fine grained, banded medium/green-grey and dark green-grey unit cut by irregular quartz healed fractures and veins 5%-7% (CA 60° and CA 70° with splay and fractures at irregular angles) ± late white clay and minor calcite	170.0-171.0	44631	< 5	0.7	6.30
		171.0-172.0	44632	< 5	1.6	4.30
	170.4-170.5 m. CA 60° quartz vein 5mm, ± trace clay.					
	170.88-170.93 m: CA 70° quartz breccia vein with angular wallrock fragments, vein locally vuggy with intergranular clay and trace calcite					
	171.24-171.25 m: CA 35°, irregular edged quartz vein, locally vuggy ± clay infilling					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
172.21-	Clay Altered Breccia Zone	172.0-173.0	44633	< 5	0.4	920
175.05	- medium green clay becoming pale green-grey clay by	173.0-174.0	44634	< 5	0.5	3300
	173.33m with subangular and subrounded lithic	174.0-175.05	44635	< 5	0.1	4200
	fragments (up to 4cm), average <0.2cm and subrounded					
	- upper contact not distinct as gone, starts at the					
	beginning of a unit; lower contact sharp (A60°)					
	- 174.72 to 174.93m: interval not brecciated but					
	argillic alteration pseudomorphic moderate intensity					
175.05 -	ash,	175.05-176.0	44636	< 5	0.2	4500
179.43	fine and medium grained, very pale green fragmental unit,	176.0-177.0	44637	< 5	0.1	3900
	fragments include <2mm) clay altered feldspar and					
	up to 15cm) subrounded lithic fragments (moderate to intense argillic					
	alteration - groundmass appears to be clay-size (devitrified) equant					
	and slightly porous; trace limonite oxides (after pyrite, as					
	- cut by later 1-2.5mm clay stringers CA35° (shear), up to CA60°					
	176.54 - 176.58m: pale grey-green clay seam at CA75°					
	contacts sharp, <1cm subangular					
	subrounded lithic fragments 15-20% of	177.0-178.0	44638	< 5	0.1	5100
	interval					
	176.58 - 177.64m: fractured core interval, pale green clay gouge					
	fractures CA10-30°, trace white clay along					
	some fractures					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	178.1- 178.13m: CA65°, 2cm wide grey white quartz 'breccia' vein (appears to be a quartz healed fracture; minor clay along edge, trace pyrite blebs in quartz	178.0-179.0	44639	< 5	0.3	3200
	178.22- 178.32m: clay breccia zone, pale grey-green clay with abundant subangular lithic fragments					
	lower contact sharp CA55°, upper contact core broken, approximately CA60°					
	178.76-178.82m: fine grained 'bands' CA40°, chunky sediments					
	178.96-179.05m					
	179.09m: CA37° 5mm quartz vein with pale orange, (limonitic) clay in centre					
	179.28- 179.48m: blocky core; siliceous matrix supported breccia, fragments 3-5cm subangular	179.0-180.0	44640	< 5	4.3	2600
179.43- 180.39m	Siliceous Breccia Zone - dark grey siliceous matrix with siliceous lithic fragments (brecciated previously → fragments like 179.28-179.43m); trace limonitic grains in fragments and trace very fine pyrite grains (possibly this is supportional breccia) - "banding" within breccia zone at CA50° - banding is grey-black siliceous (+ chert) ± lith by clay, breccia	180.0-180.5	44641	< 5	0.7	2700

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	bands CA60° 180.06-180.07m, 180.16-180.25m, - the latter clay breccia band is cut off by a white quartz vein, ~10-15% pale green clay 180.25-180.37m at CA45° - 180.97-180.39m: quartz stringers CA45° 2-4mm paralleling earlier quartz vein, marks end of breccia zone at CA45°					
180.89-185.6	Ash as in 175.05-179.43m - fine grained banded 1-2.5cm wide CA30°; (clayey) - clay filled fractures at CA30, up to 60°, minor orange-brown staining extending out from fractures - pale colour almost gives one the impression of bleaching 181.03m-181.10m: clay filled fractures with grey (almost chalcedonic) quartz fragments, fractures up to 1cm wide, CA55°, clay along broken core surface 181.08m	180.5-181.5	44642	<5	0.2	1800
	181.33m CA40° clay band, parallels banding 181.9-181.52m: banding CA35°, siliceous grey and clayey, weakly limonite bands.	181.5-182.5m	44643	<5	0.2	710
	181.97m: clay @ CA75-80°, 1cm rand out across banding 181.97-182.73m: fine to medium grained interval, faint banding ~CA40°; minor argillic alteration of 'phenocrysts' and fragments (<1cm diameter)					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	182.73 - 185.5m: fine to medium grained (increasing towards 185.5m) argillic altered granite; alteration weak - cut by quartz breccia band from 183.34 - 183.37m @ CA 70° - vuggy quartz with later pale green clay infilling, 'floaters' within fragments in band. -183.5m - 183.46m: clay coated fractures at CA 45, and CA 70°; core breaks along it. 183.62m: clay fracture CA 75° 183.87m: clay ± quartz coated fractures CA 40° to 45° at CA 40°, thin remove clay 184.6 - 184.71m: broken core; increasing clay in zone 185.34 - 185.5m: darker interval (has a speckled appearance because of the black-dark grey - pale green-grey colour contrast of the grains); banding ∠CA 55° lower contact CA 70°	182.5 - 183.5	44644	< 5	0.3	450
		183.5 - 184.5	44645	< 5	0.2	740
		184.5 - 185.5	44646	< 5	0.4	2600
lower contact 70°						
185.5 - 186.15 - 189.22	Fractured with Clay Infilling, Ash - ash tuff unit with weak - moderate argillic alteration - fractures running at CA 20-40° and CA >60° cut rock, fractures filled with pale green grey clay, up to 1cm wide; clay had a gutty feel; 186.23 - 186.35m: fine siliceous bands CA 60° 186.0 - 186.8m: fractured but only minor clay infilling; fractures @ CA 60° and core breaks along fractures	185.5 - 186.5	44647	< 5	0.4	4500

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	186.8 – 187.00m: grey clay altered breccia	186.5-187.5	44648	<5	0.3	3900
	186.8 – 187.06m: pale grey, plastic clay with lithic fragments, (texture pseudomorphic argillic altered), fragments ≤ 1cm diameter, subrounded, & less altered block of ash-bearing rock 186.87 – 186.95					
	187.06 – 187.81m: moderate to intense pseudomorphic argillic alteration of medium grey 'ash' unit; broken core – very crumbly; fragments show fracturing with healing by white clay; 4mm quartz vein cuts one broken core piece					
	187.81 – 187.65m: medium grey 'ash' unit, CA 10-15° clay coated fractures, weak argillic alteration of unit					
	187.65 – 187.76 silicified breccia; subrounded lithic fragments (altered as in previous intervals, with pale brown colour – ? oxidation?) – upper contact sharp (130°, lower contact not observed)					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	187.76 - 189.22m: medium grained 'grainy' fragmental rock, weak argillic alteration - up to 3mm wide quartz stringers and veinlets (CA of veinlets >60°, stringers at irregular angles)	187.5-188.5	44649	10	0.2	2400
		188.5-189.5	44650	70	0.6	2200
189.22 - C	189.22 - 189.62m: broken blocky core - rubble, clay bands 1 to 1.7cm wide @ CA 55° - start of interval distinguished by the presence of apparently brecciated fragments (siliceous fragments and fragments of above rock unit) in a siliceous gg matrix → depositional?					
	189.67 - 190.15m: breccia as in 189.22-189.67 but with larger fragments (up to 15cm long), and showing moderate to intense clay alteration in siliceous matrix with thin (<1mm) irregular quartz stringers cutting zone and from 189.9 - 189.95m at CA 20° set of pale chromic green clay (cl?) filled fracture cutting everything.					
190.15 - 196.83	Bleached with Brecciated Intervals, in Flow - the original rock type is marked by the alteration - may have been an andesite or a dacite					

LEXINGTON RESOURCES LTD.

Hole Number BC88-04

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	~~- breccia maybe depositional?~~	189.5-190.5	44651	25	2.4	2700
	~~- fragments are siliceous (possibly rhyodacite),~~					
	~~variable in size and angularity (<1cm to 10cm are~~					
	~~angular to subrounded, supportive~~					
	~~breccia is matrix supported~~					
	~~- matrix is dark grey to black, very siliceous~~					
	~~with <1mm quartz phenocrysts and occasional~~					
	~~with intersticial veins of white quartz; pale chloritic~~	190.5-191.5	44652	5	2.3	1900
	~~day seams cut @ CA 65° @ 190.64-190.67, 190.87 & 190.91m; trace pyrite within~~					
	191.86-193.96m: predominantly bleached interval,	191.5-192.5	44653	< 5	1.4	2300
	~~barren fractures cut interval, relic~~ dark grey veins	192.5-193.5	44654	< 5	0.8	2800
	~~to areas of core cut by fractures; quartz stringer~~	193.6-194.5	44655	< 5	2.5	930
	~~veinlets CA 80°~~ 192.5-192.9m: breccia interval as					
	~~described earlier; 1-2% fine euhedral~~					
	~~pyrite cubes (<0.5mm) in siliceous~~					
	~~breccia matrix, trace hematite~~					
	~~(alteration) about pyrite.~~					
	193.96-194.45m: ~~weakly brecciated interval, minor~~					
	~~bleaching about rims of fragments,~~					
	~~- preferential trend to quartz healed~~					
	~~"stringers" @ CA 80°~~					
	194.45-194.85m: ~~competent, non brecciated interval, bleaching~~					
	~~not as intense (less barren fractures~~					
	~~cut interval)~~					

LEXINGTON RESOURCES LTD.

Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	194.85 - 195.64m: breccia as in description at start of interval, trace pyrite in siliceous fragments.	194.5-195.5	44656	< 5	5.0	7.30
	- 5-10% white quartz (stellate veins & cement) about fragments (angular and subangular)	195.5-196.5	44657	10	1.6	510
	195.27m @ 45° 0.7cm quartz vein & trace pale green clay in matrix, cross-cuts breccia					
	195.64 - 195.89m: fine grained, medium green chloritic groundmass with fucus, plagioclase and trace mafic phenocrysts (slightly porphyritic) → Rhyodacite					
	195.89 - 195.94m: breccia 'base', contacts sharp at @ 80° (upper) and @ 60° (lower), - white quartz cement about subangular lithic fragments, - black alteration rims about the medium green fragments					
	195.94 - 196.83m: breccia; fragments as in 195.64 - 195.94m, white quartz healing & later colourless white and pale green clay					
	196 - 196.75m: as in 195.64-195.89m: Rhyodacite					

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Hole Number 8C88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	196.75-196.83m: black siliceous breccia band as in 195.84-195.94m, upper contact @ CA 85°, lower contact @ CA 75°.	196.5-197.5	44658	< 5	0.7	1400
196.83-202.45.	Rhyodacite.					
	- fine grained; medium to light green grey coloured.					
	- faintly distinct banding at CA35°; weak bleaching along banding in patchy intervals					
	- phenocrysts of altered feldspars and mafics (the mafic phenocrysts generally 0.7 to 3mm diameter i.e. larger than the feldspar phenocrysts - porphyritic); <1mm quartz grains; mafics chloritized (% of mafics appears 7% feldspar phenocrysts)					
	- groundmass is very siliceous with fine sericite(?) to give green colour					
	- locally fractured (with clay along fractures) along core axis and at low angle (ie <30°) to core axis					
	- quartz veins/healed fractures into rhyodacite					
	197.68-197.75m. 6 1-3mm CA80° quartz veins, some with later clay (green - possibly chlorite) and trace calcite.	197.5-198.0	44659	< 5	0.3	1400
	198.25-199.05m: fractures run down core axis; have thin clay coating					

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Hole Number BCRR-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	199.83m CA 40°, white clay (minor chlorite) healed fractures 1-4mm					
	199.97m 1.5cm CA 40° white clay (minor chlorite and slightly calcareous)					
	200.7 – 202.45 core gradually becomes darker with orange-red brown (Fe) oxide coating fractures CA 70° ± 50° in blocky rhyodacite, finely bedded at CA 42°	200-201	44660	<5	0.6	210
		201-202	44660	<5	0.5	270
	202.39-202.39m: irregular green clay filled fractures, run approximately down the core axis	202.0-202.45	44662	<5	0.6	610
202.45-203.2	Sandy, Clay Seam.	202.45-203.2 only 0.4m recovered	44663	<5	0.2	560
	- brown sand with pale lime green clay fragments and subangular and subrounded lithic fragments, most ± orange-brown Fe oxides					
	- 40cm recovered, 35cm lost core					
	- may be debris from top of hole. → vertical occurs at the start of the 664' (202.39m) to 670' (204.22m) run. Mislatch indicated on 670' chip					

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Hole Number BX88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
203.2-204.75	Dacite? fragmental unit (Ash?)	203.2-204.2	44664	<5	0.4	4700
	- fine grained, pale green-grey (sericite/chlorite?)	204.2-205.2	44665	<5	0.2	60
	groundmass with buff and dark green (altered)	205.2-205.7	44666	<5	0.5	300
	feldspar and mafic fragments, some fragments	205.7-206.6	44672	<5	1.2	540
	angular to subangular <0.7cm diameter,					
	chlorite, sericite and limonite/ fragments					
	- clay coated fractures along core axis					
	- clay breccia/intensely fractured band					
	203.62-203.71m, CA80°, siliceous fragments					
	end of breccia band					
204.75-206.6	Dacite/Andesitic Unit					
	- fine grained, medium to dark green-grey fragmental					
	unit = upper contact CA45°, lower contact CA37°,					
	at 205.7m to breccia interval					
	- fragments <4mm diameter (similar to unit above,					
	but darker secondary chlorite)					
	205.79-206.16m local breccia (depositional					
	features) with disrupted laminated interval (possibly a					
	depositional feature) with clay altered fragments					
	in siliceous groundmass					

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
206.6 - 207.5	Dacite - blocky, fine grained green-white "grainy" looking unit - red brown hematitic staining to broken surfaces with minor clay (pale green-grey).	206-207.6	44667	<5	0.3	580
207.5 - 211.1	Fragmental Unit: → Conglomerate - Massive, Poorly Sorted - fragments (in vein) subrounded, subangular and angular in green (chloritic) clay altered matrix; cut by later calcareous clay ± minor hematite (CA 65°) - fragments of various composition → some green-grey siliceous (silicified tuff/rhyodacite) → dark green chlorite, and buff-pale green (sericitic?) → - clay / fault seams are sub, at CA 10-20°, are medium to coarse grained dark green grey with <0.5cm subrounded and subangular lithic fragments and trace red-pink (hematitic) oxide staining 207.5 - 207.98 m 4cm clay seam @ CA 150 208.2 - 208.22 m 3cm clay seam @ CA 10° 208.85 - 208.85 m hematitic staining in intensely clay altered interval 209.6 - 209.9m: clay seam CA 80° (deep contact?),	207.6-208.6	44668	<5	0.4	330
		208.6-209.6	44669	<5	0.2	560
		209.6-210.6	44670	<5	0.5	880
		210.6-211.1	44671	<5	0.4	510

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Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
211.1 – 212.2	Fragmental Unit - Possibly a flow					
	- groundmass pale green (siliceous with abundant minerals (sericite?/chlorite?)) fine grained					
	- fragments are angular to subangular and < 1mm diameter (altered phyllosilicate feldspar and mafic phenocrysts(?) and siliceous lithic fragments					
	- upper contact sharp CA 80°, lower contact diop CA 50°					
	211.3 – 211.39m: somewhat siliceous interval, with 'banding' CA 57°, vuggy quartz stringer parallels banding @ 211.37m, width varies from 2-7mm					
	- fragments appear lower diameter within a light grey-white silica-rich matrix					
	- interval almost looks like a breccia					
	211.39 – 212.08m: slightly greener groundmass, more buff and green 'phenocrysts' and siliceous fragments < 0.5cm diameter					
	212.08 – 212.2 m: breccia - depositional, fragments 0.4cm to 1.5cm diameter (poorly sorted) of underlying unit; groundmass/matrix was destroyed/assimilated					
	- contact sharp to marker, lower limit CA 50°					
212.2 – 219.8	Fragmental Unit - Matrix Supported Conglomerate Unit → differs from units above					
	- subangular lithic fragments from < 2mm to 7-12mm in diameter, some silica-rich (rhyolitic)					
	matrix moderately chloritized, altered to clays					

LEXINGTON RESOURCES LTD.

Hole Number BC88-04

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	-larger fragments in last meter up to 80cm diameter					
214.8 - 229.33	Massive, Poorly sorted Conglomerate					
	- medium to coarse grained ~~conglomerate~~, matrix supported					
	- fragments of variable composition as in previous debris flows, size range <1mm up to 25mm, subangular to subrounded.					
	- matrix is fine grained, chloritic clay rich.					
	- later quartz - calcite stringers, average 1-2mm wide cut core @ CA 55-65°					
	- clay / breccia band cut at CA 45°-25°, 3-4cm wide, ~~a~~ lithic fragments (subrounded, <1mm up to 20mm) in 214.8 - 214.98 and 220.53 - 220.59m.					
	- clay filled fractures (clay is medium to dark green), locally cut core - these intervals are blocky and break readily, fractures trend along core axis and at low angle to it.					
	- upper contact obliterated by clay / breccia at contact					
229.33m. E.O.H.						

[redacted] EXPLORATIONS LTD.

Hole No. BC-88-05
Location: Lat. 8+84 S.
Long. 2+95 E.
UTM
Collar Inclination -50°
Collar Azimuth 111°
Casing 3.35 m (11 feet)
Total Length 215.19m (706 feet)

Sperry Sun Tests

Depth	Azimuth	Inclination
28.65	105°	-49°
74.4	—	-52°
120.1	—	-52°
166.8	—	-53°
211.5	110°	-49.5°

Property Bobcat II Claim
Date started 13 September 1988
Date completed 17 September 1988
Contractor D.W. Cootes Enterprises Ltd.
Core size NQ2

Logged by Thomas H. Heine
Date 24 September 1988

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
0 - 3.5	Casing					
3.5 - 9.2	Andesite					
	- medium grey, fine-grained, porphyritic					
	- massive with occasional limonite coated fractures - mostly quite competent - fractures sometimes have limonitic clay, possibly superficially-related					
	- ill-defined feldspar phenocrysts 0.5 - 2.0 mm diameter - 10%					
	- fairly common dark grey mafic(?) grains to 2 mm in size					
	- texture is inhomogeneous with ill-defined coarser-grained intervals					
	- no banding or layering					
	- fresh, hard					
9.2 - 26.94	Breccia (lahar?) with poorly layered intervals					
	- light grey-green and white					
	- porphyritic andesitic blocks and fragments 5 - 50 mm and larger, angular to subrounded, in light grey matrix					
	- fragments generally a medium green in colour					
	- no sorting is evident, and only fine-grained units show any suggestion of layering					

LEXINGTON RESOURCES LTD.

Hole Number OC-88-05

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	11.18 - 11.3 [illegible] friable, sandy clay with some lithic fragments	10.0 - 11.0	44092	15	1.6	30
	- trends 38° C.A.	11.0 - 12.0	44093	10	0.6	50
	11.96 - 12.19 [illegible] red. brown and light grey clay seam with	12.0 - 13.0	44094	10	0.5	30
	lithic fragments, contacts not well preserved, but trends					
	60° C.A.					
	16.6 irregular quartz veinlet trending 38° C.A., 5-30mm wide	16.3 - 16.8	44095	< 5	0.3	20
	with med. bioxn mafic areas - no carbonate noted					
	23.9 banding/layering in tuffaceous interval 46 °C.A.					
	24.92 - 25.10 irregular fracture system, bit of limonitic and med. grey	24.7 - 25.2	44096	< 5	0.2	40
	clay					
	25.6 banding/layering in tuffaceous interval 34 °C.A.					
	- fragmental/brecciated character of unit disappears below					
	approximately 23.9 - becomes weakly foliated tuffaceous/					
	coarse clastic unit to 26.94					
	15.25 sandy clay seam ~ 20 mm thick @ 54° C.A.					
26.94 - 65.22	Andesite					
	- medium grey with light green and light grey bleached intervals					
	- generally fine-grained, weakly to moderately porphyritic					
	- narrow (less than 50 cm) intervals can show a brecciated					
	character					
	- feldspar forms phenocrysts 0.5 - 2.0 mm in size, 5-10% of unit					
	- in some areas unit is medium-grained, with grains averaging					
	2-3 mm in size					

LEXINGTON RESOURCES LTD.

Hole Number OC-88-05

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	- upper contact of unit is fairly sharp, marked by crenulated laminated interval trending 30 °C.A.					
	30.52 - 30.64 thin quartz stringers 2-3 mm wide with bleached selvages					
	35.1 - 35.25 blocky broken interval					
	36.05 - 36.33 medium brown limonitic area, with brown clay seam at 36.12 trending 57° C.A.	36.0-36.5	44097	< 5	0.1	190
	39.9 banding/layering @ 31° C.A.					
	41.0 - 41.02 med. brown limonitic fractured area with bit of clay trending 62° C.A.					
	43.84 - 46.33 unit shows pale med. brown pigmentation - iron oxide stain related to thin fracture network cutting this interval					
	45.8 15 mm quartz vein containing lithic fragments @ 14° C.A.	45.0-46.0	44098	< 5	0.1	130
	47.53 20-40 mm quartz-cemented irregular breccia seam-fragments average 3 mm Ø					
	56.1 - 57.05 fractured interval with limonite-coated slips and quartz-cemented breccia in lower 10 cm	56.0-57.1	44099	< 5	0.2	50
	- breccia at bottom trends 15° C.A., sharp contact					
	- interval is weakly Fe-oxide stained					
	below 61.9 unit becomes fractured and somewhat bleached	61.0-62.0	44100	< 5	0.1	70
	below 62.4 get intervals of breccia with some interlayered fresh andesite - blocks?	62.0-63.0	44301	< 5	0.2	50
		63.0-64.0	44302	< 5	0.1	80
	62.4 - 63.3 - breccia - top and bottom contacts not well preserved, angular to subrounded fragments 2 to 70 mm diameter - matrix is weakly silicic	64.0-65.0	44303	< 5	0.2	50
		65.0-66.0	44304	< 5	0.1	30

LEXINGTON RESOURCES LTD.

Hole Number Bc-88-05

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	- fragments are matrix-supported					
	63.45 - 63.71 breccia, with fragments in dark green chloritic matrix					
	- top contact gradational, grading from a fractured area					
	- lower contact sharp @ 45° C.A.					
	64.1 - 64.92 breccia, with angular to subrounded fragments 0.5 to 90 mm in size, mostly matrix-supported					
	- matrix is dominantly quartz - sulphides not noted					
65.22 - 78.45	Spherulitic / globular unit with brecciated intervals					
	- light to dark green matrix, light to medium grey globules					
	- matrix appears to consist dominantly of chlorite or porphyritic andesite, variably altered					
	- matrix in brecciated areas consists dominantly of quartz					
	- "spherules" consist of light to medium grey rhyolitic spheres and round masses 5 to 40 mm in diameter - very hard, siliceous					
	- most are round but some are elliptical					
	- spherules are enclosed in andesite (altered), which in turn occurs as fragments in chloritic matrix					
	- this unit may represent a laharic breccia, as andesite fragments are generally moderately well rounded					

LEXINGTON RESOURCES LTD.

Hole Number BC-88-05

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	-angular lithic fragments 0.5-3 mm in size are common in	68.0-69.0	44305	< 5	0.1	10
	silicate matrix					
	-rarely, the spherules form crudely-aligned bands, eg. 65.7 @					
	70° C.A.					
	66.35 irregular fracture, with blocky interval from 66.1 to 66.4,					
	trends 13° C.A.					
	67.0-67.7 broken blocky interval with minor limonitic clay					
	as irregular fracture coatings					
	72.9-73.4 very blocky, broken interval					
	- the rhyolitic spherules in this unit are identical to a similar unit					
	mapped in TR-88-01 just west of the easternmost					
	intensely-altered area					
	below 74.4 good breccia texture becomes uncommon and					
	rhyolitic spherules are present in andesite					
	- one breccia interval 75.6-78.45	75.0-76.0	44306	< 5	0.1	40
	- rhyolitic spherules become rare below 76.5, disappear below	76.0-77.0	44307	< 5	0.2	20
	78.45, which marks the end of the unit	77.0-78.0	44308	< 5	0.1	30
		78.0-79.0	44309	< 5	0.1	80
78.45-84.48	Breccia	79.0-80.0	44310	< 5	0.2	140
	- fragments light to medium green, matrix dark green or	80.0-81.0	44311	< 5	0.1	140
	grey	81.0-82.0	44312	< 5	0.1	120
	- breccia is generally matrix supported although the matrix	82.0-83.0	44313	< 5	0.1	130

LEXINGTON RESOURCES LTD.

Hole Number Bc-88-05

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	is sparse and comprises only about 10% of brecciated intervals	83.0-84.0	44314	<5	0.2	140
	- most, if not all, of matrix appears to be silica					
	- brecciation appears to be in situ - fragments adjacent to each other interlock					
	- fair amount of chlorite also appears to be present - green pigmentation					
	81.97 - 13 mm white vuggy quartz vein @ 64° C.A.					
	- vug is unlined, surrounding core shows bit of limonite stain					
	lower contact sharp at 41° C.A.					
	not clear what these breccias represent - probably interflow breccias related to cooling of volcanic flows, with subsequent or associated hydrothermal deposition of hydrothermal quartz matrix - contacts are generally very irregular, not planar and appear to be depositional, not tectonic					
84.48-112.3	Andesite with interflow breccias					
	- medium grey green					
	- very hard, fresh					
	- massive, unfoliated, unlayered					
	- common crosscutting irregular fractures - tight					
	- weakly to moderately porphyritic - white feldspars 0.2-0.5 mm in size in fine-grained matrix					

LEXINGTON RESOURCES LTD.

Hole Number Qc-88-05

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	- sooty limonite coated fractures common between 86 and 104 m					
	87.26 - 87.39 limonite fracture network trending 90° C.A., 2-4 mm thick,	87.0 - 88.0	44315	< 5	0.1	200
	with subsequent quartz patches					
	88.2 - 88.9 light green bleached interval with much limonite	88.0 - 89.0	44316	< 5	0.2	100
	staining and fairly common thin fractures					
	- lower contact of fracture zone sharp, planar @ 57° C.A.					
	- some fractures have thin quartz filling 2-4 mm thick					
	interflow breccia intervals: 85.9 - 86.2					
	87.52 - 87.65 - lower contact trends 20° C.A.					
	90.14 - 92.45 interval of incipient to advanced					
	brecciation, with some areas showing a preferred orientation/					
	lamination: 90.4 20° C.A.					
	92.35 12° C.A.					
	90.92 3 mm quartz veinlet with pyritic selvages, @ 52° C.A.					
	interflow breccias continue: 92.97 - 93.55 brecciation is only					
	incipient, sharp lower contact @ 83° C.A.					
	94.2 - 96.63 moderate to intense fracturing with	94.0 - 95.0	44317	15	0.2	120
	some quartz + pyrite filled veinlets, irregular, to 7 mm	95.0 - 96.0	44318	< 5	0.1	80
	thick	96.0 - 97.0	44319	< 5	0.1	90
	- poor incipient breccia over interval					
	- occasional epidote-filled fractures					
	- top contact sharp @ 18° C.A., bottom sharp @ 25° C.A.					
	96.76 - 96.80 - irregular contacts					
	97.37 - 97.49 - contacts gradational, irregular					
	99.36 - 99.42 trends 17° C.A.					

LEXINGTON RESOURCES LTD.

Hole Number Sc-88-05

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	99.55-100.68 upper contact sharp @ 30 °C.A.,					
	lower somewhat diffuse @ 23 °C.A.					
	103.15-103.58 limonitic, somewhat bleached, matrix is	103.0-103.6	44320	< 5	0.2	140
	very pyritic					
	104.0 22 mm wide slightly vuggy quartz vein with limonitic	105.5-106.5	44321	< 5	0.1	70
	margins, trends 90° C.A.	106.5-107.5	44322	< 5	0.2	50
	breccia intervals continue: 105.03 - 105.17 - irregular contacts					
	106.15-107.34 fractured and bleached interval, some					
	fractures filled with quartz, occasionally forming a					
	poor breccia					
	110.92 - 110.97 possibly with a bit of argillite at bottom					
	(broken up pieces in competent core)					
	111.7-112.3 interval becomes darker grey, then dark green, coarser					
	grained than previous, banded/layered @ 35 °C.A.					
	-parts of the andesite show well-developed banding/layering:					
	- starts below 104.3 27 °C.A.					
	105.5 24° C.A.					
	108.3 24° C.A.					
	- banding disappears below 108.5					
112.3 - 120.6	Breccia					
	- medium green fragments in light to med. grey siliceous					
	matrix - little contrast between fragments and matrix					

LEXINGTON RESOURCES LTD.

Hole Number BC-88-05

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	- fragments rounded to subangular, dominantly matrix-supported, 2-40 mm in diameter					
	- matrix is light grey, aphanitic, very hard					
	- interval is very competent, as previous, few fractures, occasional Fe-oxide coated and impregnated fractures					
	119.16 - 119.6 medium brown Fe-oxide stained interval	119.0-119.7	44323	<5	0.1	150
	- fragments are preferentially affected					
	- contact with underlying andesite is obscure, gradational					
	113.95-114.32 occasional quartz + limonite-filled fractures, irregular system	113.4-114.4	44324	<5	0.1	80
120.6 - 176.3	Andesite with occasional interflow breccia					
	- light medium green, very competent with few fractures					
	- generally massive, poorly layered in some areas					
	- fine medium grained, weakly porphyritic - white and green feldspars with poorly-defined margins, to 20% of unit, 0.2-0.5 mm in size					
	- minor black mafic grains to 1 mm Ø - biotite					
	- occasional dark grey pyritic and siliceous fragments to 2mm in size, subrounded to subangular					
	- epidote is a common constituent as veinlets and replacement of feldspar, and as patches					
	- joints are often coated with medium brown limonite					

LEXINGTON RESOURCES LTD.

Hole Number Gc-88-05

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	124.97 - 125.12 interval impregnated with iron oxides					
	interflow breccias as follows:					
	121.63 - 121.77					
	122.55 - 123.75 - parts of this interval have very few fragments - all med. grey hard, siliceous material - rhyolite?					
	134.2 - 134.8 pyrite + quartz - filled veinlet/fracture system, to 10 mm wide, trends 8 °C.A.	134.2-134.8	44325	10	0.3	100
	138.52 4 mm wide quartz + pyrite veinlet @ 65 °C.A.					
	142.4 - 146.3 set series of tight fractures trending 70 - 85° C.A., marked by dark grey selvages to 5 mm wide on either side, sometimes containing a thin quartz stringer					
	- interval is still quite competent					
	145.52 10 mm very limonitic clay seam containing abundant lithic fragments, trends 69° C.A.					
	145.5 - 148.15 joints/fractures all coated with bright brown limonite					
	146.35 - 147.4 core is fairly blocky					
	148.75 - 149.8 numerous thin (1-3 mm) white quartz stringers with trace of carbonate	148.7-149.8	44326	< 5	0.3	770
	149.31 35 mm quartz vein @ 63° C.A. with bit of lt. grey clay					
	below 150 m Fe-oxide coatings on joints become reddish-brown, more hematitic than limonitic					
	153.43 30 mm fault gouge, with broken rock and sandy gouge,					

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Hole Number Bc-88-05

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	trends 39° C.A. - hematitic, slickensided surfaces					
	154.95 irregular dark green chloritic mass, to 37 mm wide					
	155.32 – 155.58 irregular dark green chloritic fracture fills, average 10 mm thick					
	156.45 2 mm clay seam with lithic fragments, @ 53° C.A., with hematite					
	157.73 20 mm clay/fracture zone @ 38° C.A.	157.5-158.5	44327	< 5	0.1	200
	158.3 30 mm fractured zone containing quartz-cemented lithic fragments with slickensided hematitic margins, trending irregularly at 18° C.A.					
	160.0 - 160.23 sparse clay-matrix breccia, with lithic fragments to 40 mm, clay is light grey, lower contact sharp @ 34° C.A.	160.0-160.3	44328	< 5	0.1	240
	160.32 - 161.2 very blocky, broken up with slickensided hematitic surface/joint/slip coatings - hematite intergrown with calcite					
	161.4 - start of alteration zone and target for hole - ends approx. 190 m - random fractures with thin clay interspersed with fresh intervals of relatively little-altered rock - fractures are often hematite-coated, slickensided					
	163.15 - 163.45 clay-cemented angular lithic fragments, upper contact more or less gradational, lower contact sharp @ 90° C.A.	163.0-164.0	44329	< 5	0.2	140
		164.0-165.0	44330	< 5	0.2	100
	163.60 - 163.63 clay + quartz + hematite - cemented breccia trends 60° C.A.	165.0-166.0	44331	< 5	0.1	90
		166.0-167.5	44332	< 5	0.1	80
	164.12 and 164.27 2 clay-cemented breccia/gouge seams @ 32° C.A., average 5-8 mm thick - slickened bounding planes - abundant quartz and pyrite in surrounding fractures	167.5-168.5	44333	< 5	0.2	340

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Hole Number Qc-88-05

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	167.33 - 167.74 brecciated interval with lithic fragments hosted by med. grey fine grained indurated material - clay ?					
	167.74 - 168.0 breccia hosted by sparse clay matrix, top contact not well preserved, trends 90° C.A., lower contact @ 65° C.A.					
	168.0 - 168.18 white quartz hosting angular lithic fragments, with diffuse lower contact					
	168.85 - 169.1 blocky, broken interval with clay-coated fractures					
	169.1 - 169.55 clay-coated fracture system trending subparallel to core axis					
	172.2 - 172.65 extremely blocky, broken core with clay seam in top 20 cm - contacts not preserved	172.0 - 173.0	44334	< 5	0.2	110
	172.8 8 mm qtz. + pyrite + hematite veinlet @ 9° C.A.					
	173.3 - 173.85 broken, blocky core with hematite-coated fracture surfaces, little or no clay					
	175.02 - 175.21 plastic clay seam with small lithic fragments	174.0 - 175.0	44335	< 5	0.6	260
	- top contact @ 83° C.A., lower contact irregular, trends 90° C.A.	175.0 - 176.0	44336	5	1.9	240
	- common quartz pieces	176.0 - 177.0	44337	15	0.7	350
	175.35 clay-cemented breccia seam at 27° C.A., 10 mm thick, overlies breccia that appears to be depositional, down to 175.45					
	175.45 - 175.9 broken, very blocky core					
	176.25 fracture with clay, trending 37° C.A.					
	176.3 brecciated with siliceous cement possibly quartz - pyrite is common accessory					

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Hole Number BC-88-05

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
176.3-192.3	Quartz matrix breccia with clay seams	177.0-178.0	44338	15	3.4	160
	- white matrix with medium green angular fragments	178.0-179.0	44339	15	2.1	120
	- 40% matrix	179.0-180.0	44340	<5	1.0	150
	- rare vugs, quartz lined	180.0-181.0	44341	<5	1.0	290
	- no sulphides visible	181.0-182.0	44342	85	3.6	200
	- fragments range 1 to 25 mm in size	182.0-183.0	44343	<5	1.2	480
	- generally competent with few crosscutting broken fractures					
	- a number of clay seams are present:					
	177.2 3 cm light grey clay seam, lightly stained with limonite, trends 75° C.A. - irregular contacts					
	177.85 - 177.9 fractured clay-rich interval, lower contact irregular, trends 56° C.A.					
	179.3 - 179.45 broken interval with clay containing lithic fragments, lower contact ragged, very irregular @ 51° C.A.					
	179.8 - 180.3 broken interval, with clay-coated fractures trending 15° and 30° C.A.					
	181.38 - 182.3 plastic clay seams with areas of common lithic fragments, generally quite broken up and blocky					
	- lower contact @ 36° C.A.					
	- clay is very light grey					

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Hole Number DC-88-05.

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
182.3 - 215.19	Andesite Dk. volcaniclastic sediments at bottom					
	- fading to dark green, some very altered intervals are light green					
	- fine grained, with rounded included fragments of similar composition, to 15 mm Ø					
	- moderately to intensely fractured down to 191.4, then only occasional fractures					
	- amygdaloidal in part - chlorite rims, epidote centres, average 2 mm					
	- poorly porphyritic in places - lit. up feldspar					
	- occasional light grey to buff clay seams:					
	185.39 - 185.58 upper contact gradational, trends 27° C.A.	185.3-185.7	44344	5	1.7	340
	- lower contact not preserved	185.7-186.1	44345	< 5	0.5	240
	186.15 - 186.29 fractured interval with much clay - fractures are very irregular	186.1-186.4	44346	25	1.4	330
	186.5 light grey clay with abundant lithic fragments, 7mm thick @ 35° C.A.					
	188.26 - 188.73 light grey clay seam with some rock fragments, upper contact @ 65° C.A.	188.0-189.0	44347	35	0.8	220
		189.0-190.0	44348	10	0.9	110
	189.15 patch of clay, contacts not preserved					
	189.7 - 189.75 clay seam, lower contact appears to be at 49° C.A.					
	189.75 - 190.4 intensely fractured, poor breccia in part	190.0-191.0	44349	< 5	0.7	130
	lower contact sharp - depositional? - @ 71° C.A.					
	- fractures filled with quartz + pyrite and a bit of hematite					
	- chlorite also appears to be common					

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Hole Number BC88-05

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	191.36 - 191.41 light green epidote + chlorite + quartz - bit of calcite here and there along with hematite (traces) - trends 90° C.A., very irregular but sharp contacts					
	- occasional well-defined narrow bands, planar contacts with no obvious compositional differences from enclosing units:					
	193.75 25 mm band @ 84° C.A.					
	194.39 28 mm band @ 90° C.A.					
	198.78 - 198.88 breccia band @ 31° C.A.					
	199.03 - 199.19 pebblestone layer, rounded polymictic lithic fragments to 10 mm ϕ, trends 21° C.A., matrix-supported					
	200.24 - 200.37 subangular sedimentary breccia, matrix-supported, top contact @ 32° C.A., lower @ 50° C.A.					
	210.8 40 mm clay seam, upper contact 34° C.A. lower @ 43° C.A., irregular					
	below 200.5 - 215.19 irregular fracture system filled with light green epidote - quartz					
	212 to 214.7 unit is well banded/layered					
	212.6 50° C.A.					
	214.4 60° C.A. - slows grain size variations					
	213.4 - 213.8 irregular dark grey quartz vein system	213.3 - 213.9	44350	< 5	0.1	180
215.19	E.O.H.					

Hole No. BC88-06
Location: Lat. 12+34 S
Long. 1+54 E
UTM
Collar Inclination -50°
Collar Azimuth 062°
Casing 11ft = 3.35 m
Total Length 296ft = 90.2 m

Sperry Sun Tests

Depth	Azimuth	Inclination
40.8 m	062.5°	-49°
86.6 m	062°	-49.5°

Property Bobcat II Project
Date started 17 Sept. 1988
Date completed 18 Sept. 1988
Contractor D.W. Coates Enterprises Ltd
Core size NQ2

Logged by K.D. Costello
Date 22 Sept. 1988

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
0-3.35	Casing					
3.35-89.3	Andesite,					
	fine grained; porphyritic					
	medium green groundmass with feldspar and mafic					
	phenocrysts, both altered to phyllosilicates; up to 3mm					
	diameter; with some mafics up to 4mm					
	- local green-brown / green yellow intervals → alteration					
	(limonite oxidation stain) associated with fractures					
	cutting the core.					
	- some fractures filled with limonitic clay, deep					
	orange-brown 'rusty' colour to clay and along					
	fracture surfaces					
	- locally unit shows faint layering at CA 50°,					
	remainder is massive					
	- numerous blocky, broken intervals; breaks along CA 45-50°					
	3.35- 3.61m: blocky, broken core pieces - possibly a					
	boulder					

LEXINGTON RESOURCES LTD.

Hole Number BC88-04

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	18.17 – 19.51m: very blocky, broken up core - andesite is fractured with rusty clay (limonite) infilling, some clay creamy-white with fine black mineral (clay altered biotite) 18.44-19.51m, 0.9m of 1.07m recovered 18.62 – 18.8m clay filled fractures CA 25°, up to 1cm wide, clay is creamy white, locally limonitic with traces of fine black minerals					
	20.91 – 21.35m: blocky broken core. - limonite coated broken edges with minor clay - 1-2mm quartz veinlets at 21.1m @ CA 75° and 21.15 @ CA 45° with orange brown Fe oxidation extending 2-5mm out from veinlet edges; irregularly oriented splays <0.5mm wide off the former quartz veinlet	20.85-21.35	44673	5	0.1	160
	22.7 – 22.85m: buff-pale green interval cut by limonitic fingers and irregular quartz-filled fingers CA 85-90°, at 22.77, varies in width from 1mm up to 1.8mm, being crystalline (up to 3mm wide) in the wider intervals splays 1mm wide at CA 20°; deep orange brown limonitic staining parallel to fingers	22.5-23.0	44674	<5	0.1	170

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Hole Number BC88-06.

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	24.36 - 24.96m: blocky, broken limonitic interval. - limonitic stringers crosscut faint banding → stringers at CA 40-50°; limonitic vugs up to 2mm (after pyrite?) - 24.87m 1.5mm quartz vein CA 50° - limonitic clay fractures CA 20° in first 20cm	24.3 - 25.0	44675	< 5	0.3	280
	25.63 - 25.84 m limonitic clay filled fractures CA 5-10°, up to 5mm wide	25.5 - 26.5	49676	< 5	0.1	150
	26.92 - 26.86 m: buff pale orangey brown (limonitic) stained interval; limonite stain intense, about hairline fractures at CA 50° and CA 35° with trace quartz - CA 50° clay seam 0.7cm with <2mm lithic fragments, subangular					
	28.26 - 28.36 m: blocky broken core interval with limonitic clay filled fractures CA 0-10°					
	28.66 - 28.96 m: blocky broken core, limonitic clay and CA 45° 28.66 - 28.85 with angular lithic fragments up to 2cm diameter (possibly just an area of intense fracturing) clay bleached, core is broken up so true nature difficult to tell. - limonite clay coated fractures at CA 40° and CA 60°					

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Hole Number BC88-06

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	29.96-30.2m: buff, pale green-orange (limonitic stain) blocky interval; limonitic hairline fractures at CA	29.96-30.96	44677	< 5	0.2	120
	· 1.5-2.0cm quartz vein @ CA 40°; vuggy in central portion of vein with trace vitreous white clay + limonitic clay coated edges					
	32.5-34.92m: blocky, broken core interval core breaks along orange to dark brown Fe oxide coated surfaces, some weak vitreous clay @ CA 35-50°					
	Staining @ ~36.0m to 39.3	368-378	44678	< 5	0.3	120
	: quartz basalt, bleached appearance, with limonite staining pervasive, varying from weak to intense; slight hypo-	378-388	44679	< 5	0.3	150
	- core breaks along limonitic clay CA 40-45° surfaces					
	36-37.75m: glassy, almost lustrous in appearance					
	370m 1mm CA 30° quartz-healed fracture					
	376m 2-6mm CA 50° quartz vein					
	37.75m: angular quartz stringer, clay edge of core appears to abut off limonitic clay zone @ CA 50 at 37.74					
	37.75-38.9m: moderate to weak limonitic staining, patchy; locally buggy (appears to be casts after pyrite cubes					

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Hole Number BC88-06

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	38.6-38.7m: plastic beige clay seam, approximately CA75-80° with 5 cm subangular and sub-rounded lithic fragments					
	- grades into siliceous medium grey-green unit @ 39.3					
39.3-50.5	Fragmental Unit - Rhyodacite; siliceous medium grey-green unit; consists of fragments .1 to 15 cm diameter, generally of similar composition as matrix; fine to medium grained lapilli dispersed in ash matrix bearing - patchy limonite stained intervals and occasional quartz veins					
	41.13m: 1cm vuggy quartz vein CA55°, vuggy crystalline quartz & infilling limonitic clay	41.0-42.0	44680	<5	0.1	70
		42.0-43.0	44681	<5	0.1	60
	41.9 2-5mm quartz vein CA30°, vuggy crystalline & trace clay infilling					
	42.2m 2mm calcite vein CA55°					
	42.21m 3mm quartz vein CA55°					
	42.46m: 8mm quartz vein					
	43.0-43.6m: blocky broken core					

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Hole Number BC88-06.

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	44.8 - 45.45m: limonitic stained interval; faint banding at CA 80°	44.8-45.3	44682	20	0.1	80
	locally pervasive (casts often pyrite cubes) 45.09-45.12m; 1.5-2cm quartz vein, vuggy at CA 30°, gritty limonitic clayey filling some spaces					
	46.18-46.24m: irregular white quartz veining CA 60° 2cm wide & white and pale green (sericite/chlorite?) clay crystals					
	47.2 - 47.4m: limonitic stained interval & 47.23-47.29 very blocky (limonitic gritty clay along broken edges at CA and perpendicular to core axis, quartz vein 3mm over one of the broken core pieces within interval.					
	47.83m 2-3mm vuggy quartz vein CA 50°					
	47.38m 4-6mm vuggy quartz vein CA 60°					
	47.74m: 2-3mm quartz vein CA 45°, vuggy.	48.1-48.6	44683	< 5	0.1	610
	48.4-48.6m: increasing pervasive limonitic stain	48.6-49.6	44684	< 5	0.1	200
	48.6 - 48.91m: intense limonitic oxidation, limonitic clay fracture/broken surfaces CA 33°; white clay along broken edges CA 55-90°					
	48.6-48.7m: irregular vuggy silica zone					

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Hole Number BC88-06

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	48.91-49.6m: pervasive bleaching with limonitic fractures cutting core at CA45-50°, with splays at CA30°, trace finegrained pyrite as blebs					
	49.14-49.6m CA55° 3cm quartz vein, casts after pyrite cubes up to 2cm diameter; limonitic micro fractures cut vein	49.6-50.6	44685	< 5	2.1	200
	49.6-50.05m: entire interval orange brown limonitic (fractures CA35°), 5% white quartz blebs in ground mass	50.6-51.6	44686	< 5	2.1	150
50.5-53.64	Silicified & limonitic Breccia					
	- breccia; angular and subangular lithic fragments, variably limonite and altered to phyllosilicates (the latter weak to moderate in intensity) in silica-rich breccia matrix (some silica chalcedonic)					
	- matrix supported					
	- quartz varies from 20 to 50%; growth zoned quartz, visible about edges of fragments; locally crystalline quartz with later limonitic clay infilling and/or brown Fe oxide coatings					
	- vuggy → vugs after pyrite (cubic casts) and interstitial to crystalline quartz					
	- trace visible pyrite in siliceous matrix - pyrite is < 0.2mm diameter and subtidual					
	- few definite quartz veins in the breccia (intervals listed below)					

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Hole Number BC88-06

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	52.09-52.16m CA35° 2cm, crystalline quartz, [illegible] millimetre crystals with dark orange brown Fe oxide coating	51.6-52.6	44687	20	1.5	140
	[illegible] millimetre crystals with dark orange brown Fe oxide coating	52.6-53.6	44688	10	0.9	140
	52.18-52.19m CA80° 1.5cm quartz vein					
	52.42-52.45m CA 60° 3.5m siliceous band					
	52.55-53.09m. CA85° 1cm quartz vein, crystalline (millimetre crystals) with dark orange-brown Fe oxide coating					
	53.48 - 53.58m. quartz vein along core axis, crystals up to 4mm diameter & limonitic oxidation coating					
53.64 - 54.44	Breccia, with limonite fractures and rare quartz veins	53.6-54.6	44689	25	0.5	110
	53.64 - 54.3 Breccia (depositional), fragments 2 - 20mm diameter, subrounded and subangular, matrix somewhat siliceous with trace to 0.5% (locally) very fine <0.2mm euhedral pyrite - patchy orange brown limonite stain and rare quartz veins (healed fractures) CA 5-15°, crystalline & quartz crystals <0.5cm diameter with orange brown Fe oxide coating (53.64-53.8m)					

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Hole Number BC88-06.

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	54.07m. CA70° crystalline quartz, with brown Fe oxide coating, along fracture; open fracture up to 5mm wide.					
	~~54.3-54.44~~ -no apparent breccia, fine grained siliceous unit, almost rhyodacitic ash.	54.6-55.1	44690	10	0.2	530
54.44-58.16.	~~Arkose~~ (or Pyroclastic Equivalent) -fine grained, homogeneous texture; (not porphyritic at all) -very faint banding at CA40°; medium grey-white and green colour (~~feldspar and quartz with chlorite mafics~~) (somewhat speckled in appearance) with dirty orange brown (limonite oxide stained) intervals and rare limonitic fractures CA70° -immature, [illegible]. 54.44-55.0m: very blocky broken interval; fragments have limonitic clay, some are friable and mainly consist of clay altered material -one fragment shows clay filled fracture(?) at CA50° 54.9-54.92m. CA25° 2cm limonite clay seam	55.1-56.1	44691	<5	0.2	1200

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Hole Number BC88-06

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	55.0-55.56m: competent core interval; slightly porous (some ≤1mm cavities after sulfide pyrite, others upto 3mm, often clay altered feldspar(??).					
	55.56-56.07m: very broken, blocky core interval with limonitic clay altered fragments, lower contact to one limonitic clay plane @ CA20.					
	56.12m: irregular broken edge of core with white clay (altered)					
	57.27-57.34m: possibly graded bedding in interval					
	58.0-58.04m: possibly graded bedding					
	58.4-58.15m: blocky core interval with limonitic broken surfaces CA25° and CA33° (the latter may be the contact with the underlying unit)					

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Hole Number BC88-06

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
58.15 - 59.02	Tuffaceous Unit -					
	fine and medium grained					
	- fine banding (layering) at CA 25-30°					
	- subangular lithic fragments (grey/white, some with fine grained phenocrysts) from 2 mm up to 10 mm diameter in very fine grained black - mafic groundmass					
	- fragments sub-parallel alignment with long axis parallel to banding					
	- lower contact CA 28-30°					
	Similar -					
59.02 - 64.14	Fragmental Unit - Conglomerate or Pyroclastic Equivalent					
	- lithic fragments in 2 size ranges: subrounded blocks 4 to 23 cm diameter (average approximately 10 cm) subrounded and subangular fragments 0.2 - 4.0 cm diameter (average approximately 1 cm); grey/white with some black mafics					
	- matrix is fine grained, black and white					
	- no banding; competent unit, very rare fractures (weakly limonitic); matrix supported					
	60.41 - 60.75 m: weakly limonitic clay zone (sandy fault today), cuts core at CA 40°					
	- not a solid clay interval - lathers					
	zone of clayey broken edges					

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Hole Number BC88-06

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
64.14 - 73.48	Interlayered Arkosic, Siltstone and occassional Tuffaceous Units					
	- arkosic intervals					
	64.14 – 66.27					
	68.18 – 68.75					
	-> are fine to medium grained units, fairly homogeneous in texture grain sizes <1mm; greenish buff and white in colour, rare 2-5mm grains					
	-> no layering except where thin (<1cm wide) siltstone units are interlayered.					
	siltstone intervals					
	66.27 - 67.38					
	67.58 – 67.93					
	68.75 - 69.86					
	70.34 - 73.48					
	-> very fine, silt size fragments, finely laminated CA 27° to 40°					
	- greenish buff with cream intervals, some <1.5cm wide arkosic intervals interlayered (and tuffaceous units at the first interval)					

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Hole Number BC88-06

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	tuffaceous siltstones (core 58.15-59.02m)					
	- lithic and crystal fragments (1-6mm in diameter) average ~2mm					
	- 67.38 to 67.58m: lower contact sharp at CA 33°, marked by very fine black clay					
	upper contact notes sharp but still very distinct					
	67.93 - 68.18m: contacts and core loss					
	69.86 - 70.34m: possibly not a pyroclastic unit, may be a sedimentary (debris) interval, fragments angular average 3-4mm in diameter → Volcanic Wacke?					
	-					
73.48-90.22	Wacke					
	- medium to coarse grained					
	- inhomogeneous texture					
	- lithic fragments 1-3mm up to 6cm, average gives two size populations - 3mm and 1cm					
	- fragments of variable composition,					

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Hole Number BC88-06

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	some showing alteration of constituent minerals to phyllosilicates (sericite, chlorite) and limonitic staining.					
	- lapilli (pumice) fragments visible (pumicles <0.2cm).	80.08-80.15	Petrographic Sample -			
	- Matrix varies from medium grey (chloritic) to pale green-buff and light grey (siliceous).					
	- clay seam at 89.90-89.94.					
	- dark epidote 89.94 - 90.22.					
	90.22m E.O.H					

[redacted] RESOURCES LTD

Hole No. BC88-07
Location: Lat. 12+34S
Long. 1+54E
UTM
Collar Inclination -70°
Collar Azimuth 067°
Casing 3.35m (11ft)
Total Length 78.03m (285ft)

Sperry Sun Tests

Depth	Azimuth	Inclination
	064°	-70°
	067°	-70°

Property Bobcat II Claim
Date started 18 Sept. 1988
Date completed 19 Sept, 1988
Contractor D.W. Coates Enterprises Ltd
Core size NQ2

Logged by K.D. Costello
Date 24 sept, 1988

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
0-3.35	Casing					
3.35-14.42	Andesite					
	- fine grained, slightly porphyritic					
	- competent, but blocky core intervals					
	- intervals of relatively fresh medium grey sand core with feldspar phenocrysts 10-15%(?) altered to phyllosilicates, locally with faint banding CA35° but generally massive					
	- other intervals cut by limonitic clay coated fractures and limonite fractures; these are blocky, broken core intervals					
	4.20-5.10 m: blocky broken core - core breaks along conjugate and CA75° limonite coated fractures.	4.20-5.10	44692	<5	0.1	200
	4.34-4.97m: intervals of highly fractured, but still competent, core with trace grey-white quartz					
	5.33-5.48m: limonitic clay coated fractures cut core at CA45° and CA20°, the latter					

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Hole Number BG88-07

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	5mm wide with minor quartz					
6.26m	CA 25° limonitic clay, lesser white clay and grey-white quartz stringers/vein 7mm wide					
	- limonite goes bright orange - brown colour to clay					
6.57 - 8.46m:	medium grey, hard competent porphyritic andesite, no limonitic clay fractures					
8.46 - 14.42m	buff-green coloured intensely cut by banding limonitic fractures and slightly clayey limonitic fractures along the foliation and at CA 40°, respectively					
14.42 - 22.87	Dacitic Andesite - ~~possibly a sediment~~	16.1m				
	- medium to dark grey, fine grained, slightly porphyritic, very hard unit, faint banding (CA 70° starting @ 16.0m into the interval) homogeneous texture					
	- phenocrysts of feldspar, lesser mafics (chloritized) and quartz grains (5-8% total); trace fine pyrite (<0.2mm)					
	- rare intervals of red hematitic stringers <1mm wide, parallel banding					
	- core is very blocky, breaks along limonite coated					

LEXINGTON RESOURCES LTD.

Hole Number BC88-07

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	hairline fractures at CA 35°, 65° (up to 30cm)					
	- sericite intervals of grey-buff coloured siliceous (+ clay alteration) unit (contacts for colour variation cross cut banding → the contacts appear to parallel the fractures at CA 35°					
	- intervals with <1mm wide red hematite stringers					
	16.68 - 16.70	16.6-17.1	44693	<5	0.1	210
	16.99 - 17.07	20.5-21.0	44694	<5	0.1	30
	20.59 - 20.95					
		17.4-17.8	Petrographic sample			
	19.5m CA20° limonitic quartz vein, 5mm, quartz is white, vuggy					
	21.63m CA25° limonitic quartz vein, 6mm; vuggy, white quartz	22.73-22.81	Petrographic Sample			
2287-2484	Tuffaceous Unit - possibly a sediment. - fine grained, finely banded CA65-70°; granular very siliceous grey-buff coloured unit. ~~Late feldspar porphyritic~~ - very blocky, core breaks along CA35° (limonitic surfaces) and CA65°(along					

LEXINGTON RESOURCES LTD.

Hole Number BC88-07

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	banding, breaks along CA0° 24.08-24.84m - rare fractures at CA60 with weak bleaching and weak limonite oxidation stain extending up to 0.5cm into wallrock, trace quartz in some.					
24.84-25.24	Tuffaceous unit - Crystal Tuff - medium grained, crystals up to 4mm diameter grey-white with patchy variable intensity limonitic stain; finely laminated CA70° - upper and lower contacts fairly sharp					
25.24-33.7	Ash - Tuffaceous Unit fine, medium grained, granular, medium grey-green-white with patchy orange brown staining and trace fine pyrite - limonite oxidation along and out from fractures staining along the core axis and in patches around breccia fragments in 27.25-28.25 Unbrecciated 26.89-26.95m: irregular quartz flooding with later clay and calcite, - fragments in breccia subrounded, with the very fine grained matrix being siliceous,	26.75-27.25 27.25-28.25	44695 44696	< 5 < 5	0.1 0.1	70 60

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Hole Number BC88-07

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb
	with pieces of fine quartz interstitial to some fragments					
	29.2 - 33.7m: Pervasive weak bleaching and limonitic staining, with minor alteration of minerals (feldspars and to a lesser extent, pyrite, too) to phyllosilicates; slightly porous					
	29.83 m: banding now CA35°					
	30.02 - 30.8 white clay + carbonate (calcite) seam limonitic along contacts and tends to be at CA 15°-20°					
	30.55 m: 1-2mm quartz stringer CA 25°					
	30.84 - 31.1 m: 2-3mm quartz stringer CA 20°, runs along length of core; trace limonite in stringer (appears to be pseudomorph after pyrite cubes)					
	31.3m: banding CA 46°					
	31.3 - 33.7m: core breaks preferentially along CA 50-55°					
	33.0 - 33.25m: limonitic clay filled fractures, approximately CA 25-30°, and 33.2-33.25 the clay containing subangular <5mm lithic fragments					
	33.25 - 33.47m: 2mm quartz stringer along core axis					

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Hole Number BC88-07

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb
33.7 - 43.44	Dacitic Andesite - fine, locally medium grained, porphyritic medium grained groundmass and white feldspar phenocrysts, rare dark green mafic (chloritized) phenocrysts; rare quartz grains - some feldspar phenocrysts have distinct euhedral outlines - groundmass is medium green, hard (possibly a silicification of high silica), clasts of <0.2cm subrounded pyrite (trace %) 34.86 limonite fracture CA 30° with chlorite veinlets along 35.29 - 35.89 green-buff weakly limonitic stained interval. 35.89 - 43.44 pale to medium green white buff areas interval; banding CA 45° locally visible, other intervals massive - weak to moderate intensity limonite staining in 50% of interval, locally intense along fractures with clay at CA 20° (CA 180) & CA 5° @ 38.33 and 41.93 41.65 - 41.88 respectively 37.6 - 37.22 CA 0 to 10° white clay & calcite vein, that progresses down into irregular discontinuous veins above rounded wallrock fragments some with moderate intensity limonite stain 41.2 - 41.48 in very broken core, pieces < 6cm long.					

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Hole Number BC88-07

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
43.94 - 53.58	Possibly A Sediment: Similar To Dacitic Andesite - very fine grained, well-laminated at CA 53° pale to medium grey (slight greenish tint) to some laminae -? less altered dappled appearance, with mafic phenocrysts up to 3mm diameter, feldspar grains (white) <1.5mm diameter. - very hard, competent unit, (very siliceous) - clasts up to 3cm of subrounded - subangular and <0.5mm spidery stringers along lamination (rare). epidote (propylitic alteration), & subrounded to subangular (<3mm diameter) mafic phenocrysts. - traces to 0.5% very fine (<0.2mm) euhedral pyrite. - rare limonitic staining intervals 44.97 - 45.22 m: limonite staining extending out from 2 CA 20° limonite coated fractures @ 45.17 & 45.11m 45.53 m: large (bright) iron oxide clay along CA 30° fracture. - rare intervals with red iron oxide (hematitic) stringers parallel to lamination (hematite traces) 45.64 - 45.82 m 46.31 - 46.33 m 46.9 - 47.01 m 50.2 - 50.28 m 53.2 - 53.58 m	47.1-47.2	Petrographic Sample			

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Hole Number BC88-07

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
53.58 - 55.47	Sediment(?) not banded. very blocky, broken core interval with iron oxide staining giving mainly grey green unit of mixed brownish green colour; limonite fractures along CA60° and CA20°, with limonite clay and 3-5mm and ≤3mm angular rock fragments 55.37 - 55.47m: 3 quartz stringers at CA30° 110° with one @ CA 30° ~ up to 4mm wide and vuggy					
55.47 - 61.3	Banded Sediment. - as in 43.44 - 53.58m, but very coarse spidery limonite staining about fractures and quartz veins cutting core at CA 25°-30° 55.82m: CA25°, 5-10mm vuggy quartz vein with fine limonite infilling, weak limonite staining in adjacent wallrock 57.07 - 57.23m: CA 30° vuggy quartz veins at 57.07 - open, 2mm wide 57.13 - open; 5-7mm wide with fine limonite + clay infilling to quartz 57.17 - 57.23m: Vuggy 2.5cm wide with orange iron oxide and clay infilling some vugs - between the latter two veins the host unit is	55.5 - 56.0	44697	< 5	0.1	40
		57.0 - 57.5	44698	< 5	0.1	90

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Hole Number BC88-07

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	58.5 - 61.3	58.5-59.5	44699	2.5	0.1	60
	~~- only faint~~ banding CA65-70°					
	- minor lineation intervals = subangular and subrounded lithic fragments in ~~siliceous~~ aphanitic matrix					
	58.58 - 58.66m CA30° upper contact, cross cuts faint banding					
	- trace pyrite in fragments as very fine <0.2mm ~~pyrite~~ cubes					
	- cut by stringer off quartz vein at 58.7m, stringer CA10°, 2-3mm with - stringer veins from 58.38 - 58.7 with minor limonite staining at either end; trace clay in					
58.7m	CA25° 2 to 5mm quartz vein, limonite staining extending out from vein for 2 to 5mm; some coarse limonite after pyrite in area where splay cuts off and CA5° limonite fracture fill					
58.95m	CA40° 3 to 4mm quartz vein, slightly vuggy in ~~veins~~ with limonite					
58.99 - 59.01m	CA38° 1.5cm quartz vein, limonite (10% of vein) and trace white clay interbedded quartz; orange ironoxide stain extends into wallrock from 54.99 to 55.17m					

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Hole Number BC88-07

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	59.08m: irregular quartz stringer CA 60-65°, with bright orange staining immediately about stringer (for 3-5mm)	59.5-60.5	44700	<5	0.1	90
	59.3 - 59.58m: blocky core, core breaks along CA 0-12°					
	59.56-~~60.86~~ 60.01m: breccia - subangular to angular fragments up to 15cm					
	59.66m quartz vein CA 30-35°, 5-8mm wide vuggy in centre with limonitic dusting to edges and trace white clay, limonite staining on contact					
	59.76m quartz vein CA 30-35°, 5-15mm wide - vuggy as in vein above with limonitic coating to vugs and trace white clay infilling; splay off vein starts at 59.7k. CA 20°, 2-3mm (also slightly vuggy). - patchy limonite staining in wallrock adjacent to vein					
	60.04m CA 25°, 2mm quartz vein - vuggy crystalline, with limonitic coating					

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Hole Number BC88-07

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	60.16-60.33m: CA 20° dark brown iron oxide coated fracture which core breaks along in interval which is pervasively weak to moderately limonite stained	60.5-61.3	44701	<5	0.1	50
	60.33-60.48m: white quartz interstitial to fragments with irregular quartz stringers, bright orange limonitic staining of wallrock; stringers trend along crevasses, up to 3-4mm wide, slightly vuggy & limonite and white clay infilling some spaces.					
	60.54m: quartz-clay vein CA 70°, 0.5-2cm wide - quartz 60% of vein; remainder is clay - quartz contacts edges and are irregular healed breccia/fractures w/adjacent limonite wallrock; - limonitic oxides interstitial infilling between quartz "stringers" within vein, - white clay infilling spaces, trace fine grained black mineral in with clay					
	60.85-61.3m: competent, faintly banded at CA 72° lower contact to breccia CA 15° - pervasive weak iron oxide staining					

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Hole Number BC88-07

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	grey dusty orange brown colours to grey-green unit.					
	61.05m CA35° quartz vein 2mm, similar to other veins ie vuggy & limonite dusting					
	61.14-61.3m: blocky, broken core (dessed)					
61.3-63.8m	Dacite - Dacitic Andesite					
	- dark green-grey groundmass with creamy phenocrysts (10-15%)					
	- groundmass is very hard (siliceous) aphanitic with 0.5mm grey-white quartz grains					
	- phenocrysts ≤ 0.5mm, up to 3mm long & distinct crystal ledges feldspars, weakly altered to phyllosilicates					
	- rare thin 1-1mm quartz stringers CA20-30° with 1 at 61.64 at CA40°					
	- blocky, with orange limonite fractures at CA30°					
	62.85-63.8m: dark grey-grey aphanitic groundmass with feldspar phenocrysts (5-10%), cut by limonitic clay fractures at CA35-45° and CA0° and 1-1mm quartz stringers at CA45° and rarely along core axis	63.0-63.8	44702	85	0.8	70
	- red-orange limonite staining along fractures					
	63.5-63.7m: blocky.					
	- 63.78m - 1.3cm clay seam) CA65°					

LEXINGTON RESOURCES LTD.

Hole Number BC88-07.

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
63.8-64.15m.	Tuffaceous Unit or Possible Sedimentary Congl - dark unit as in previous interval but with subangular lithic fragments (<5mm in diameter), and <0.5mm creamy feldspar stringers; upper contact marked by clay seam, lower contact gradational, clay fractures CA 70° < fractured core					
64.15-71.74	Conglomerate - Pebble. - polymictic, poorly sorted, angular and subangular fragments (clasts up to 60cm diameter - average size (~2cm, minimum (MM), matrix supported (matrix almost aphanitic and siliceous) - minor hematitic staining along rare fractures at CA 20° and <CA 60° - competent unit that core well,					
	67.95-68.14m: fine (aphanitic) grey groundmass ~ 15% feldspar and mafic phenocrysts (≤1.5mm). - upper contact CA 20°, lower contact CA 25°, both very sharp & distinct.					

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Hole Number BC88-07

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
71.74-78.03	Andesite Flow					
	- fine grained, locally porphyritic					
	- inhomogeneous texture.					
	- green-white with local rusty orange-brown iron oxide staining, trace pyrite					
	71.74 - 73.69m: flow top breccia, intervals of sedimentary units incorporated into the top of the flow, along with local ≤1cm fragments in very fine black groundmass. (fractured zone at top of flow)					
	- aphanitic mottled groundmass - dull very hard.					
	- phenocrysts of feldspar ≤1mm, up to 5mm long blades, lesser mafic phenocrysts, generally ≤2mm, moderately abundant.					
	- rare ≤1mm quartz stringers/veinlets at CA 37°					
	- intervals with microfractures/veining CA 70°					
	77.7: sharp change from fine grained phenocrysts in aphanitic groundmass to somewhat mottled medium grained.					
	78.03m E.O.H					

[redacted] LEKINGTON RESOURCES LTD [redacted]

Hole No. BC88-08
Location: Lat. 12+34S
Long. 1+54E
UTM
Collar Inclination -84°
Collar Azimuth 067°
Casing 3.66m (12ft)
Total Length 102.72m

Sperry Sun Tests

Depth	Azimuth	Inclination
44.2	072°	-82.5°
99.1	074°	-83°

Property Babcat II Project
Date started 19 September 1988
Date completed 20 September 1988
Contractor D.W. Cooke Enterprises Ltd
Core size NQ2

Logged by K.D. Costello
Date 27 September 1988

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
0-3.66	Casing					
3.66-13.83	Andesite					
	- fine grained, not homogeneous texture					
	- it is pale green-grey colour					
	- fine grained to cryptocrystalline groundmass (very sericitic) with feldspar and lesser mafic (chloritized in the case of the latter) phenocrysts up to 7mm diameter; [redacted] frequently as lath-shaped bladed grains; some feldspars altered to epidote, weakly altered to phyllosilicates					
	- generally is a competent interval with core breaking along limonitic fracture surfaces parallel to local banding (possibly flow banding)					
	- starting at 9.00m get bands of grey more siliceous - dacitic material up to 3cm wide at CA70°					
	10.23 - 10.90m "banding" defined by limonitic fractures at CA65° that impose a medium range brown 'milky' stain to the andesite					
	- rare thin (<2mm) quartz stringers					

LEXINGTON RESOURCES LTD.

Hole Number BC88-08

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	along the limonitic fracture					
	10.72-10.85m broken clayey core, appears that plastic limonitic clay cuts core CA 35°					
	11.77-12.65m: subrounded fragments up to 10cm, patchy limonite staining and banding at CA 65°					
	12.65-13.92m: blocky, broken core with limonitic clay coated fractures running along the core axis and CA 12-15°; limonitic stringers along weakly defined banding; entire interval is moderately limonite stained.					
	13.42-13.83m: dacitic interval with 2 andesitic bands, 5.5cm wide; margins (ie contacts) show bleaching extending up to 3mm into the dacitic material; CA 67-70°					
1383-2292	Dacite -					
	- fine grained, porphyritic, light grey with green tint - feldspars and chloritized mafics as phenocrysts ≤ 2mm diameter; 10-15% subrounded - rounded quartz grains; some feldspars altered to epidote (trace %)	16.25-16.85	44703	< 5	0.3	230
	locally dacite is a greenish-rusty brown colour where limonite stained, frequently above limonitic fractures / broken surfaces					

LEXINGTON RESOURCES LTD.

Hole Number BC88-08

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	16.32 - 16.59m: irregular quartz healed fracture running along the length of core, trace limonite staining (black orange) adjacent to fractures and in fine fractures off the main fracture, trace white clay infilling between quartz grains					
	16.67 - 17.37m: very broken, clayey core in first 20cm (probably a clay seam but friable, soft nature makes it difficult to tell to 17.37m: core very blocky with limonitic clay fractures CA 15°					
	17.37 - 21.82m: dacite light grey/green tint, with intermixed green-rusty brown staining about limonitic joints at CA 70°, rare limonitic clay filled fractures at CA 17-25° with trace quartz, 1-2mm wide					
	21.82 - 22.67m: andesitic - dacitic andesite interval					
	22.67 - 22.92m: transitional/mixed interval with flows (andesitic-dacitic andesite) grading to					

LEXINGTON RESOURCES LTD.

Hole Number BL88-06

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
22.82-23.17	~~Crystal~~ Lithic Tuff ia - ~~fragments of feldspar crystals~~ matrix and lithic fragments in very fine black matrix; fine laminations at CA 65° - upper contact at CA 70° - lower contact at CA 70°					
23.17-34.38	Laharic Breccia - (Tuffaceous Unit) - poorly fragmental unit; preferentially bleached and limonitic stained; fragments subangular and subrounded lithic fragments, maximum size - blocks 15-18cm diameter; andesitic in composition					
	24.67-24.77m: 10cm interval of irregular white quartz flooding (with trace calcite infilling spaces between quartz grains)	24.5-25.0	44704	<5	0.1	30
	- trace irregular white quartz veinlets to fragments					

LEXINGTON RESOURCES LTD.

Hole Number BC88-08

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
34.38-35.28	Andesite. - non fragmental equivalent of overlying unit, - massive - no banding or other structures, - weakly limonitic, lower contact distinguished on basis of end of limonitic staining					
35.28-37	Andesite - Ash - not limonitic, feldspar and lesser amounts of mafic phenocrysts (rare), in very fine grained grey-green groundmass; overall unit has a mottled colouring, gradually becoming a medium green with feldspar phenocrysts up to 6mm long.	36.61 - 36.68	Petrographic sample			
37-38.5	Ash layers (Tuff) interlayered with Dacite - layers (intervals of above unit) up to 6cm wide, interlayered with bands of dacite, - core angles of bands at ∠70-75° - gradually tuffaceous bands thin out and unit is a dacite					

LEXINGTON RESOURCES LTD.

Hole Number BC88-08

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
38.5-58.01	Dacite to ~~possibly Rhyodacite~~ (possibly so) - fine grained - medium grey, slight green tone, locally to a greenish pale brown, ~~orange~~ due to limonitic stained fractures - occasionally red brown hematitic stringers <1mm wide, discontinuous along vague banding (joint unpaired) at CA 70° - phenocrysts are not that abundant - overall <5%, most of which are mafic (chloritized) - the rare feldspar phenocrysts show partial alteration to epidote - rare quartz stringers (only 3 observed in the entire interval) - joints <1mm wide define the "banding", local bleaching from 1mm either side of joint	41.66-41.76	Petrographic Sample			
58.01-59.3	Rhyodacite - aphanitic to fine grained - ~~light~~ grey, ~~hard~~ siliceous, groundmass - ~~massive~~ - phenocrysts have an subrounded to rounded shape <3mm diameter, some with ~~blue~~					

LEXINGTON RESOURCES LTD.

Hole Number BL88-08

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	thin silica rims - possibly filled gas bubbles - ie amygdules & mafic filling - hairline fractures at varying angles (generally >55°) with weak to moderate bleaching along them - get increase in feldspar phenocrysts towards bottom of unit					
59.3-61.0	Gradational From Rhyodacite To Arkose. - gradational interval from above unit to a laharic breccia, and finally a sediment - 59.8-61.0m: pervasive limonitic stained, slightly porous interval (lahaar breccia or Arkose).					
61.0-13.54	Arkose - Gritty Wacke - immature sediment, moderately sorted - grain size varies with depth - most is the sand to granule range					

LEXINGTON RESOURCES LTD.

Hole Number _____ Page 8 of 11

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	weak local graded bedding intervals and siltstone layers, CA 60°; occasionally argillaceous matrix supported pebble conglomerate intervals.					
	- one interval with pebble to cobble (polymictic) size clasts in fine grained matrix (matrix supported conglomerate from 69.48 - 70.74 m).					
	- 70.74 - 73.58 m: bedding very distinct at CA 60° in fine to medium grained (sub) arkose (sand size clastic particles) arkose					
	- interval is very competent, cores well;					
	- limonitic clayseam at 69.9, CA 75°, 1cm wide					
73-58 78.22	Pebble Conglomerate.					
	- matrix supported, poorly sorted polymictic conglomerate; no layering					
	- clasts vary from 1-2mm up to 4cm in diameter, average in the 2 to 10mm range					
	- matrix siliceous with some mafics (likely chlorite as matrix has green tint)					
	- clasts are subangular to subrounded					
	- lower contact sharp and distinct					

LEXINGTON RESOURCES LTD.

Hole Number BC88-08

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
78.27-80.03	Intense Argillic Altered Zone	78.27-79.0	44705	65	1.7	100
	-massive pale grey clay, with 1-2% fine (<0.5mm) [illegible] pipes	79.0-80.03	44706	30	2.2	160
	- argillic alteration is pseudomorphic					
	- orange-brown limonitic staining to exterior of core → staining not pervasive on freshly broken core surfaces; original unit appears to be the pebble conglomerate as some relic clast outlines visible					
80.03-80.75	Moderately to Weakly Argillic Altered:	80.03-81.0	44707	5	1.0	140
	- blocky intense with pseudomorphic alteration as indicated					
	- core in small (<10cm) lengths with clay coated surfaces / fractures running at CA 10-20°					
	- appears to be the pebble conglomerate					
81.75-84.22	Pebble conglomerate, becoming a cobble conglomerate in last 50cm	[illegible]	[illegible]			
	- poorly sorted; conglomerate as in 73.58 to 78.27; polymictic clasts matrix supported					
	83.07m CA 30° 2-3cm wide shear with 5mm pyrite quartz stringers, limonitic in part, pyrite in adjacent wallrock & shear → 2-3%	83.0-83.4	44708	< 5	0.6	90

LEXINGTON RESOURCES LTD.

Hole Number BC88-08

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	84.22m: lower contact of conglomerate - structural feature is quartz shear stringer at CA 30° (similar to that at 83.07m) - quartz is limonite stained with trace fine (<0.5mm) euhedral pyrite					
84.22-102.72	Andesite Flow to Dacitic Andesite Flow - pale green-grey, fine grained unit; keyhead - groundmass is aphanitic; pale green-grey in colour, individual mineral constituents likely mafics and silica, rare pyrite - phenocrysts are fine grained, generally 0.4 to 1mm; consist of mafics (dark green chloritized phenocrysts) and white and creamy-white felsics (quartz and feldspar respectively) - mafics are rounded to subrounded, and frequently blade-shaped grains - felsics subrounded and subangular (the latter only in the case of the feldspars) - quartz occasionally as 1-3mm subrounded phenocrysts - interval is slightly porphyritic - there are occasional fragments of exotic material in the upper 6m of this interval					

LEXINGTON RESOURCES LTD.

Hole Number BC88-08

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	- these fragments are sub to well rounded, 0.5cm max diameter.					
	Flow Top/Bottom Breccias @ 93.95 - 94.94m.					
	- angular fragments (slightly bleached with rare weak limonite staining) in dark green chlorite matrix					
	97.57m and 101.87m.					
	quartz stringers/veins 3-4mm wide with epidote (fine anhedral grains + grain clots) edging and included (in the case of the latter) into the quartz; CA 20°.					
	- epidote (alteration of feldspars) up to 1% at EOH					
	- interval is very hard, competent, core well.					
	E.O.H 102.72m					

[redacted] EXPLORANCE LTD

Hole No. Bc-88-09
Location: Lat. 13+42 S.
Long. 0+07 W.
UTM
Collar Inclination -70°
Collar Azimuth 117°
Casing 5.18 m (17 feet)
Total Length 199.03 m (650.5 feet)

Sperry Sun Tests

Depth	Azimuth	Inclination
44.0 m	clicking compass	-69°
89.8 m	"	-69.5°
135.5 m	"	-70°
194.6 m	"	-70.5°

Property Bobcat II claim
Date started 20 September 1988
Date completed 22 September 1988
Contractor D.W. Coates Enterprises
Core size NQ2

Logged by Thomas H. Heine
Date 28 September 1988

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb
0 - 5.18	Casing - overburden					
5.18 - 84.12	Rhyo-dacite underlain by volcaniclastic sediments (below ~23m)					
	- light medium grey					
	- parts are nicely layered and banded, others are quite massive					
	- porphyritic - white subedral feldspar phenocrysts occasionally present - 0.5 mm ø					
	- mafic (black grains - biotite?) very common, appears to be intergrown with quartz					
	- very broken up, very blocky					
	5.18 - 7.06 limonite-stained, medium brown with some sandy seams	5.18 - 6.0	44351	< 5	0.1	150
	- very blocky	6.0 - 7.0	44352	< 5	0.1	50
	7.06 - approx. 8.3 - medium grey clay with lithic fragments throughout	7.0 - 8.0	44353	< 5	0.1	410
	- contacts not preserved	8.0 - 9.0	44354	5	0.1	320
	8.3 - 12.6 very blocky, very broken up with occasional grey clay	9.0 - 10.0	44355	< 5	0.1	310
	seams present - contact relationships not preserved	10.0 - 11.0	44356	< 5	0.1	180
	12.6 - 12.8 clay-matrix breccia containing lithic fragments, contact	11.0 - 12.0	44357	< 5	0.1	70
	irregular but trends 5° c.a., clay is med. grey	12.0 - 13.0	44358	25	0.1	500
	13.1 - 13.98 fractured but intact interval, mostly altered to clay, very	13.0 - 14.0	44359	20	0.3	420
	soft - contacts unclear, but lower one trends 90° c.a.	14.0 - 15.0	44360	< 5	0.1	80
	16.4 - 17.08 clay-altered zone, with solid clay and fractured intensely	15.0 - 16.0	44361	< 5	0.1	90
	altered rock, with soft clay along fractures	16.0 - 17.0	44362	< 5	0.1	190

LEXINGTON RESOURCES LTD.

Hole Number BC 88-09

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (pp
	17.3 - 17.5 med. grey clay seam with lithic fragments - contacts not preserved	17.0-18.0	44363	< 5	0.1	220
	- interval down to 19.6 is very blocky, broken up	18.0-19.0	44364	< 5	0.1	100
	18.1 - 18.3 med. grey clay seam - contacts not preserved	19.0-20.0	44365	10	0.1	140
	20.12 - 22.95 alteration is intensely argillic with some plastic clay	20.0-21.0	44366	5	0.1	590
	areas, common intensely altered lithic blocks included	21.0-22.0	44367	< 5	0.1	250
	- soft, friable to plastic, but not broken up	22.0-23.0	44368	5	0.1	290
	- alteration is pseudomorphous in part	23.0-24.0	44369	< 5	0.1	120
	- lower contact sharp, joint(?) controlled @ 62° C.A.	24.0-25.0	44370	< 5	0.1	60
	23.35 - 26.9 core is moderately to very blocky, fracture-controlled	25.0-26.0	44371	< 5	0.1	60
	in part	26.0-27.0	44372	< 5	0.1	60
	20.10 - 20.12 medium brown limonitic seam @ 80° C.A.	27.0-28.0	44373	< 5	0.1	130
	28.8 - 29.98 clay-cemented breccia, containing intensely-altered	28.0-29.0	44374	< 5	0.1	90
	lithic fragments	29.0-30.0	44375	< 5	0.1	90
	- pyrite is common constituent	30.0-31.0	44376	< 5	0.1	40
	- very soft, some plastic areas, friable	31.0-32.0	44377	< 5	0.1	90
	- upper contact gradational over a few cm, from	32.0-33.0	44378	< 5	0.1	150
	intensely pseudomorphously-altered band/layered	33.0-34.0	44379	< 5	0.1	110
	rock	34.0-35.0	44380	< 5	0.1	60
	- lower contact fairly sharp @ 38° C.A.	35.0-36.0	44381	< 5	0.1	150
	30.4 - 30.6 med. grey clay with abundant lithic fragments	36.0-37.0	44382	15	0.1	90
	- broken up, contacts not preserved	37.0-38.0	44383	< 5	0.1	120
	32.31 - 32.55 broken up interval, bit of grey clay here and there	38.0-39.0	44384	< 5	0.1	80
	32.9 - 34.2 intensely clay-altered interval, friable with some	39.0-40.0	44385	< 5	0.1	80
	included lithic fragments in med. grey clay					
	- contacts gradational and not well defined					

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Hole Number BC 88-09

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (pp
	34.93 - 35.36 med. grey clay as matrix to breccia, containing rounded lithic fragments					
	- contacts gradational, ill-defined					
	35.75 - 35.89 clay seam with abundant lithic fragments					
	- lower contact sharp @ 48° C.A.					
	- pyritic					
	36.3 - 36.33 clay seam with lithic fragments, upper contact @ 86° C.A.					
	lower contact @ 58° C.A.					
	37.58 - 38.16 fractured interval with med. grey clay cementing lithic fragments					
	- upper contact not preserved					
	- lower contact undulatory @ 42° C.A.					
	38.6 - 38.7 fractured area cemented by medium grey clay					
	- fractures irregular but trend 90° C.A.					
	- parts of this unit are banded, appear to be layered, other intervals are quite massive; layering as follows:					
	23.1 51° C.A.					
	27.0 52° C.A.					
	39.5 38° C.A.					
	40.5 60° C.A.					
	45.0 48° C.A.					
	48.6 41° C.A.					
	below approximately 23 m appears that interval consists dominantly of sediments derived from volcanic terrane - immature, poorly sorted, poorly layered possible wackes					

LEXINGTON RESOURCES LTD.

Hole Number BC88-09

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (pp
	- sedimentary - volcanic contact relationships in upper part					
	of hole not clear, obscured by alteration					
	- sediments are granular, dominantly sand-sized grains					
	- rare lithic clasts					
	- some intervals may represent flows, but mostly it appears					
	that it consists of sediments					
	41.08 black gouge, 10 cm wide @ 43° C.A.					
	42.12 - 42.3 clay-cemented breccia, matrix poor, very altered	41.5-42.5	44386	< 5	0.1	60
	- upper contact @ 57° C.A., very sharp, planar					
	41.94 3 mm clay seam with abundant calcite @ 25° C.A.					
	46.25 - 46.8 broken core, blocky, with clay seam, contacts not					
	preserved					
	48.36 - 48.4 medium grey clay seam, lower contact fairly sharp					
	@ 53° C.A., bit of pyrite noted					
	52.12 - 54.97 very fractured interval with some unfractured areas	51.0 - 52.0	44387	< 5	0.1	60
	- ubiquitous clay along fractures	52.0 - 53.0	44388	< 5	0.1	60
	- parts grade into clay-cemented breccia, especially	53.0 - 54.0	44389	< 5	0.1	70
	lower 30 cm - clay contains euhedral pyrite	54.0 - 55.0	44390	20	0.1	130
	- fractures trend 20 - 30° C.A.	55.0 - 56.0	44391	< 5	0.1	100
	- lower contact @ 34° C.A.	56.0 - 57.0	44392	10	0.1	60
	- banding/layering contains: 55.6 57° C.A.					
	56.9 65° C.A.					
	- below 56.0 to unit becomes very blocky, broken up - related					
	to tight fractures					
	- below 56.4 unit becomes much fresher, harder - level of alteration					

LEXINGTON RESOURCES LTD.

Hole Number Oc-88-09

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (pp
	much less than previous					
	- banding/layering continues: 59.9 75° C.A.					
	66.1 72° C.A. - red hematitic banding in siliceous unit -					
	hematitic banding begins at approx. 61 m					
	68.9 70° C.A. - red hematitic banding					
	64.3 fractured interval, with fractures filled with light grey clay - main					
	fracture trends 5° C.A., 2mm thick					
	67.0 - 68.88 interval is very blocky, core consists of cm-size chips					
	71.0 - 72.0 interval is very blocky					
	below 73.3 interval becomes obviously clastic, impure sandstone/					
	wacke, finely layered, occasional silty and conglomeratic					
	layers					
	- well layered throughout: 73.4 80° C.A.					
	75.7 65° C.A. - argillaceous layers					
	76.9 64° C.A.					
	80.0 66° C.A. - pyritic layers + argillaceous stringers					
	81.91 - 82.24 pebbly conglomerate trending 65° C.A.					
	82.9 67° C.A. silty layers					
	80.22 small fault, core broken, contacts not well preserved					
	- sandy with bit of clay					
	- lower contact of unit marked by med. to lt. grey clay seam					
	at 70° C.A.					

LEXINGTON RESOURCES LTD.

Hole Number QC-88-09

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (p
84.12 - 95.48	Pebble conglomerate					
	- medium grey, medium green					
	- polymictic, unsorted - max. clast size 60 mm, minimum 0.5 mm					
	- angular to barely rounded					
	- consist of an assortment of volcanic lithologies					
	- bedding not evident					
	- sandy layers appear in lower 2 m of unit - slightly hematitic					
	91.53 - 91.63 fractured interval with bit of clay along fractures					
	- irregular					
	- interval is fresh, with some argillic (?) alteration appearing					
	towards bottom 5 m of unit					
95.48 - 130.4	Andesite to dacitic andesite					
	- medium grey to medium grey-green					
	- massive, unlayered, a bit fractured but mostly fairly					
	competent					
	- porphyritic - dark green pleonroxate 0.5-1.0 mm ϕ ubiquitous					
	- chlorite after biotite ?					
	- upper contact unclear, not well defined, gradational over approx.					
	10-20 cm					
	96.4 - 103.0 very common fractures filled with white calcite, with					
	veins to 20 mm wide, forming a poor stockwork zone					

LEXINGTON RESOURCES LTD.

Hole Number OC-88-09

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (pp
	97.3 - 98.39 intensely clay-altered zone with lithic fragments	96.0-97.0	44393	< 5	0.1	180
	- light grey	97.0-98.0	44394	5	0.2	220
	- central part contains calcite-cemented breccia, pre-dates clay	98.0-99.0	44395	< 5	0.3	200
		99.0-100.0	44396	< 5	0.1	490
	- lower contact sharp @ 32°C.A.	100.0-101.0	44397	< 5	0.1	260
	106.4 - 106.6 altered (intensely) area with irregular white calcite vein 25 mm thick, with clay-filled fractures					
	- vein trends 48°C.A.					
	- fractures also contain white phyllosilicate					
	112.0 - 121.7 calcite and white phyllosilicate-filled fractures become prominent again - consistent direction at 40°C.A. - 10 to 20/metre					
	- calcite occasionally contains rock fragments					
	- 1 to 10 mm thick					
	117.15 - 117.6 - interval is soft with calcite-cemented breccia	116.5-117.5	44398	< 5	0.1	1800
	- competent, much-altered to clay but not a clay seam	117.5-118.5	44399	15	0.1	870
	118.07 - 118.22 calcite veinlets and associated clay, trending 13°C.A.	118.5-119.5	44400	< 5	0.1	520
	118.4 - 118.8 clay-cemented breccia and calcite vein, top contact appears to trend 55°C.A.					
	- lower part contains 30 mm calcite vein					
	120.77 - 120.84 sharply-defined fracture zone, with calcite-cemented breccia and white clay mineral in fractures, trends 35°C.A.					
	122.0 - 122.53 broken very blocky core with minor grey clay along fractures					
	124.86 - 125.18 fracture network, somewhat irregular but trends 60°C.A.	124.8-125.2	44401	< 5	0.1	300

LEXINGTON RESOURCES LTD.

Hole Number OC88-09

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	- fractures average 2 mm wide, white quartz + calcite, with dark grey selvages					
	- rock is very competent, appears to be fairly fresh					
	127.39 - 127.50 calcite-filled fracture network, calcite veinlets to 15 mm wide, trend 19° C.A.					
	128.96 - 129.04 calcite-cemented fracture zone, very sharp tectonic margins, trends 41° C.A., trace hematite, no sulphides					
	130.07 - 130.45 very irregular patchy white calcite-filled fracture system - marks transition to underlying conglomerate					
	- lower contact gradational over approx. 20 cm - matrix stays the same but get appearance of angular lithic clasts of various types below approx. 130.4					
130.4 - 144.05	Conglomerate / laharic breccia					
	- medium to dark green, medium grey					
	- unbedded, generally fairly massive					
	- contacts are gradational					
	- clasts are matrix supported, 1 - 40 mm Ø, polylithic assemblage, mostly subangular - andesite, rhyolite represented					
	- rarely the clasts show a pyrite corona					
	- matrix is generally dark to med. green, chloritic					
	134.95 - 135.35 fractured interval with common clay-rich intervals	134.9-135.4	44402	< 5	0.1	120

LEXINGTON RESOURCES LTD.

Hole Number BC-88-09

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (pp
	-upper contact sharp, planar @ 52°C.A., lower @ 50°C.A.					
	134.8-135.75 thin quartz-filled fractures, main one trends 0°C.A.					
	137.5-137.8 broken, very blocky interval					
	138.99-139.25 very blocky, broken interval					
144.05-164.5	Andesite to dacitic andesite with flow(?) breccia intervals					
	-medium green					
	-unlayered, unbedded, massive, very competent, few fractures					
	-narrow intervals have brecciated character, with gradational					
	boundaries to the surrounding more massive units:					
	144.53-144.92 -lower contact @ 40°C.A.					
	145.08-145.33					
	147.41-147.53					
	148.21-148.35 -very irregular contacts					
	148.46-148.50					
	149.0-149.12					
	150.22-150.64					
	-parts of unit have spotted appearance - light grey fine-grained					
	mineral aggregates 5-8 mm ϕ, equant with ragged boundaries					
	-lenatitic outer zone					
	-below 152.28 degree of alteration increases					
	-marked by fracture with clay @ 25°C.A.					
	-common broken, very blocky intervals with minor clay,					

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Hole Number 13c-88-09

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (pp
	- rock is generally very soft, somewhat friable over entire					
	interval - extends down to 155.3					
	155.7 - 160.4 have a joint set developed coated with brilliant					
	white, very fine grained sphylloidicate					
	- usually 1 - 2 mm thick, trends 65° C.A.					
	157.1 - 157.4 broken core along with some clay in central					
	part of this interval - fracture/faltration trend 45° C.A.					
	162.4 curved fracture/vein filling, 15 mm thick goes into & out					
	of core on [illegible] side - good catch edge of it					
	- contains [illegible] and light green sericite					
	163.2 - 163.65 vein [illegible], 5 mm thick, trends @ 7° C.A.					
	- unit becomes progressively more intensely altered as the underlying	163.0 - 164.0	44403	< 5	0.1	120
	intensely clay altered unit is approached - gradational					
	- contact marked by presence of plastic clay					
164.5 - 183.08	Clay matrix breccia and fault gouge					
	- medium to light grey, with black streaks and intervals appearing	164.0 - 165.0	44404	45	0.1	49
	below 178.7	165.0 - 166.0	44405	85	0.3	74
	- much of fragmental material consists of siliceous fragments, probably	166.0 - 167.0	44406	50	0.2	18
	rhyolite	167.0 - 168.0	44407	60	0.3	200
	- planar element is apparent over most of interval - in part	168.0 - 169.0	44408	35	0.2	28
	tectonic - some areas give suggestion that this interval	169.0 - 170.0	44409	25	0.2	34
	contained high proportion of sedimentary material - finely	170.0 - 171.0	44410	< 5	0.1	120

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Hole Number BC88-09

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (p
	laminated and silty intervals	171.0-172.0	44411	<5	0.1	410
	166.0 81 °C.A. - black argillaceous laminae	172.0-173.0	44412	<5	0.3	610
	171.2 56 °C.A. - laminae in large siliceous "fragment"	173.0-174.0	44413	<5	0.1	720
	173.2 42 °C.A. - silty layers in fragment	174.0-175.0	44414	<5	0.1	1700
	174.3 50 °C.A. - fragment alignment	175.0-176.0	44415	<5	0.1	500
	178.8 57 °C.A. - black streaks	176.0-177.0	44416	<5	0.1	930
	182.3 50 °C.A. - black streaks	177.0-178.0	44417	<5	0.1	800
	183.08 35 °C.A. - bottom contact	178.0-179.0	44418	<5	0.1	210
		179.0-180.0	44419	<5	0.1	220
		180.0-181.0	44420	<5	0.1	340
		181.0-182.0	44421	45	0.1	410
		182.0-183.0	44422	45	0.5	790
183.08-189.76	Conglomeratic/ fragmental unit					
	- light green with occasional dark grey to black streaks and patches					
	- fragments subangular to subrounded, fine-grained, beige to light grey, matrix-supported					
	- occasional medium grey clasts of different lithology, so this probably represents conglomerate, possibly of debris flow affinities					
		183.0-184.0	44423	15	0.2	2700
	- poor layering in some narrow intervals	184.0-185.0	44424	<5	0.1	1500
	184.5-184.71 broken blocky core	185.0-186.0	44425	20	0.3	820
	185.55-188.0 very irregular dark grey quartz veinlets 2-7 mm	186.0-187.0	44426	20	0.1	1100

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Hole Number BC88-09

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	wide, and occasional barren green fractures to 20 x 10 mm	187.0-188.0	44427	20	0.1	1000
	-most of interval is very competent	188.0-189.0	44428	120	0.5	1400
	-minor crenulated silty areas, clasts towards bottom of interval					
	-fragments/clasts dominate this unit					
189.76 - 199.03	Pebbly sandstone / tuffaceous unit					
	-light green, minor dark grey to black streaks					
	-matrix-dominated, clasts are subangular to moderately well rounded, average 5-8 mm ϕ, comprise a polymictic assemblage - 10-25% of unit					
	-some intervals are finely layered/laminated, get appearance of fine sandstones interlayered with siltstone below 196.8 to 199.03					
	189.05 - 189.13 clay seam with lithic fragments, pale light green, upper contact @ 15° C.A.	189.0-190.0	44429	<5	0.4	770
	banding/layering 189.1 45° C.A. - medium grey band					
	193.0 25° C.A. crenulated laminae					
	194.3 40° C.A. grey argillaceous (?) bands					
	197.3 46° C.A. silty laminae					
	198.8 42° C.A. silty laminae					
199.03	E.O.H.					

[redacted] EXPLORATORY RESOURCES LTD.

Hole No. BC-88-10
Location: Lat. 13+25 S.
Long. 0+98 W.
UTM
Collar Inclination -60°
Collar Azimuth 117°
Casing 3.66 m (12 ft.)
Total Length 279.1 m (896 ft.)

Sperry Sun Tests

Depth	Azimuth	Inclination
144.5'	109°	-62.5°
294.5 ft	107.5°	-63°
444.5 ft	112°	-63.5°
594.5 ft	118°	-64°
734.5 ft.	115°	-64°
884.5 ft	118°	-65°

Property Bobcat II claim
Date started 22 September 1988
Date completed 25 September 1988
Contractor Coates Enterprises Ltd.
Core size NQ2

Logged by Thomas H. Heine
Date

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
0 - 3.66	Casing - overburden					
3.66 - 24.0	Andesite with 5 to 10 cm breccia intervals					
	- medium brown, limonitic (fracture-controlled pigmentation - entire interval affected down to 9.7, then patchy down to 14.0					
	- medium to light grey, common tight fractures					
	- dark grey streaks give unit a banded appearance in places					
	- most of unit shows at least incipient brecciation					
	- porphyritic, with ill-defined white plagioclase and common dark grey phenocrysts as accessories (biotite? altered to chlorite?)					
	- matrix is fine grained, mineral constituents can't be identified in hand sample					
	- entire interval is competent with only occasional broken intervals					
	- fractures are often limonite-coated					
	- some fractures are filled with pyrite, comprising veinlets to 3 mm wide eg. at 12.7 m					
	- banding and streaks tend to be irregular, often forming amoeboid patches					
	- banding trends 30-50° C.A. where it forms planar "layers"					

LEXINGTON RESOURCES LTD.

Hole Number BC-88-10

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
24.0 - 33.1	Intensely clay-altered interval					
	- light grey with medium grey patches and streaks	23.0 - 24.0	44430	<5	0.1	520
	- clay is pyritic - subedral grains average 0.2 mm Ø, comprise	24.0 - 25.0	31	<5	0.1	780
	5% of interval	25.0 - 26.0	32	<5	1.1	330
	- common andesitic fragments, blocks included in clay matrix -	26.0 - 27.0	33	<5	0.1	330
	intensely altered, but alteration is pseudomorphous	27.0 - 28.0	34	<5	0.1	430
	- minor irregular thin calcite veinlets and stringers here and	28.0 - 29.0	35	<5	0.1	430
	there	29.0 - 30.0	36	<5	0.1	750
	- top contact gradational over 20-30 cm into intense clay alteration	30.0 - 31.0	37	<5	0.1	220
	- lower contact fairly sharp, trends ≈ 20° C.A., - curved	31.0 - 32.0	38	<5	0.1	110
	- clay does not preserve any sort of planar element	32.0 - 33.0	39	<5	0.1	60
		33.0 - 34.0	40	<5	2.8	80
33.1 - 44.0	Andesite					
	- medium grey with common dark grey patches					
	- moderately well fractured with occasional clay seams - clay					
	sometimes forms matrix to brecciated intervals					
	- andesite is moderately porphyritic, common ill-defined					
	white feldspar phenocrysts					
	- occasionally a poorly banded/layered character is					

LEXINGTON RESOURCES LTD.

Hole Number BC88-10

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	present					
	34.8 - 34.92 clay-rich area - clay surrounds less-altered fragments					
	- irregular fracture system					
	35.52 - 35.6 medium and light grey clay seam @ 30° C.A.					
	37.39 - 37.5 lt. grey clay-cemented breccia, lower contact @ 65° C.A					
	38.0 - 38.04 lt. grey clay seam @ 50 °C.A.					
	41.0 - 41.6 moderately blocky interval					
	42.9 - 44.0 intensive medium to light grey clay alteration, forming	41.0 - 42.0	44441	< 5	0.1	80
	clay-matrix breccia in part	42.0 - 43.0	42	< 5	0.1	120
	- upper contact is unclear, irregular . , lower contact is	43.0 - 44.0	43	< 5	0.1	110
	gradational over 20 - 30 cm	44.0 - 45.0	44	< 5	0.1	80
	- entire interval contains irregular fractures with dark grey					
	selvages to 15 mm wide - fractures are often filled with					
	pyrite					
	- thin irregular calcite veinlets have scattered distribution					
	throughout interval - 1-3 mm wide and occasional					
	patches					
44.0 - 50.8	Impure sandstone / wacke					
	- medium grey					
	- granular texture, common banding / flagging indicated					
	by darker grey streaks - some intervals show no					

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Hole Number BC88-10

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	layered or laminated texture					
	- pyrite is a common accessory					
	- entire interval shows little fracturing, quite competent					
	- moderately altered, clay is not apparent					
	- layering: 46.7 60 °C.A.					
	48.0 65 °C.A.					
50.8-57.35	Conglomerate / laharic breccia					
	- medium grey, unfractured, appears to be quite competent					
	- comprises a monomictic assemblage consisting of matrix-supported layered wacke fragments to 25 cm in size in matrix of similar composition - andesitic sediment					
	- unbedded, unlayered					
	- contact relationships with surrounding units are obscure, appear to be gradational					
57.35-86.5	Impure sandstone / wacke -					
	- light medium grey					
	- shows a poorly layered character with some grain size variation defining the "layering"					
	- common ill-defined white feldspar grains, 1-2 mm Ø - 5% of unit					

LEXINGTON RESOURCES LTD.

Hole Number Bc88-10

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	57.7 - 57.83 broken interval with bit of grey clay, somewhat crumbly					
	59.1 - 59.18 broken interval					
	layering : 58.5 44° C.A. - obscure banding, very vague					
	60.0 52° C.A.					
	63.9 50° C.A.					
	65.9 62° C.A. 65.94 - 67.1 lt. grey sandy interval					
	69.4 64° C.A. - below 68.2 gelocas. hematite along layers					
	71.6 80° C.A.					
	77.0 60° C.A.					
	78.2 58° C.A.					
	83.2 57° C.A.					
	- occasional very blocky intervals, sometimes with bit of light grey clay : 62.2 - 62.83 - very broken, clay seam but contacts not preserved					
	63.2 - 63.46 broken interval, clay seam with lithic fragments present at bottom, contacts not preserved					
	64.97 - 65.03 broken, fissile interval with moderate clay alteration					
	67.5 - 68.16 broken blocky interval with uncommon grey clay pieces					
	71.65 - 72.24 broken blocky ground, no clay					
	72.75 - 77.25 broken blocky ground with very rare clay along fractures - pyrite is common accessory					

LEXINGTON RESOURCES LTD.

Hole Number OC88-10

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	79.4 - 80.62 blocky, very broken ground with moderate amount of light grey clay along fractures - lower clay seam trends 34° C.A.	79.0 - 80.0	44445	< 5	0.1	50
		80.0 - 81.0	46	< 5	0.1	30
		81.0 - 82.0	47	< 5	2.4	70
	80.83 - 81.14 calcite stringers to 4mm, trend 30° C.A. - somewhat irregular	82.0 - 83.0	48	< 5	0.2	40
		83.0 - 84.0	49	< 5	0.1	40
	81.35 - 81.56 clay-rich fracture network, irregular but lower contact trends 33° C.A.					
	81.8 - 82.8 broken clay seams with intervening bas altered blocks/fragments - upper contact more or less gradational from fracture zone into clay, lower contact irregular, but trends 18° C.A.					
	- lower contact sharp @ 44° C.A.					
86.5 - 146.53	Porphyritic andesite					
	- medium grey, very competent, few fractures					
	- occasional patches filled with calcite + quartz - to 20 mm ϕ - amygdules?					
	- subhedral to euhedral feldspar laths to 5 mm long comprise 10% of unit					
	- also dark grey grains to 3 mm ϕ as major accessory					
	- rare calcite fracture fillings - hairline					
	96.5 - 100.0 fractured, somewhat blocky interval with much clay and occasional calcite veinlets to 10 mm wide	95.0 - 96.0	44450	< 5	0.1	40
		96.0 - 97.0	44451	< 5	0.1	40

LEXINGTON RESOURCES LTD.

Hole Number DC88-10

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	96.5 - 97.89 clay-filled fracture network with calcite stringers generally parallels core axis	97.0-98.0	44552	<.5	0.1	40
		98.0-99.0	53	<5	0.1	40
	97.89 - 98.77 light grey clay seam with lithic fragments - contacts trend 50° C.A.	99.0-100.0	54	5	0.1	50
		100.0-101.0	55	<.5	0.1	50
	98.77 - 99.27 conglomerate/breccia - clasts comprise a polymictic volcanic assemblage - angular - interflow breccia ?					
	99.11 - 100.0 clay seam with lithic fragments, upper contact grades from fracture zone into clay - lower contact not well preserved, trends 77° C.A.					
	- andesite becomes medium green below alteration, porphyritic character not as apparent					
	- below 110.52 unit carries pale pink pigmentation - slight but pervasive hematization - disappears below ~115.0 m					
	123.36 thin fracture system lined with calcite @ 48° C.A. - 10 mm wide					
	123.65 20 mm calcite-filled fracture system @ 44° C.A.					
	129.19 - 129.23 light grey clay seam @ 55° C.A. with included lithic fragments - pyritic					
	131.28 - 131.35 light grey clay seam @ 50° C.A., minor pyrite					
	- andesite contains occasional included felsitic fragments, both mafic and acidic, to 20 mm Ø					
	146.53 dark grey clay seam 4 mm thick @ 60° C.A. - marks start of interval where unit becomes "conglomeratic" with polylithic clast assemblage incorporated into andesite flow					

LEXINGTON RESOURCES LTD.

Hole Number OC88-10

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
146.53-	Conglomerate / breccia					
195.85	- medium green					
	- massive, unfoliated, unbedded					
	- matrix appears to be composed of porphyritic andesite, similar to underlying material					
	- 20-70% lithic fragments comprising polylithic assemblage of mafic to felsic volcanics					
	- rounded to subrounded, 2-60 mm in size					
	146.84-146.88 white calcite vein containing angular wallrock fragments - irregular, but trends 39° C.A.					
	150.7-154.0 very blocky clay-rich interval	150.0-151.0	A4556	< 5	0.1	90
	- calcite present as veins to 10 mm wide	151.0-152.0	57	< 5	0.1	140
	- upper contact clays @ 56° C.A., calcite veins	152.0-153.0	58	< 5	0.1	100
	- lower contact 70° C.A., clays	153.0-154.0	59	< 5	0.1	200
	- moderately to very pyritic - disseminated both in clay and altered rock	154.0-155.0	60	< 5	0.1	40
	151.18 note by drillers - "Entering the fun hog zone"					
	154.0 note by drillers - "Leaving the fun hog zone" ie blocky interval					
	156.56 3 mm quartz + calcite veinlet @ 55° C.A.					
	161.58 14 mm calcite vein @ 50° C.A., with lithic fragments					
	161.92 20 mm clay seam @ 59° C.A.					

LEXINGTON RESOURCES LTD.

Hole Number BC88-10

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	162.69 dk. grey [illegible] cementing lithic fragments with pyrite and minor calcite, 20 mm wide @ 33° C.A.	162.6-162.75	44560	< 5	0.1	50
	167.88 - 169.97 fractured interval with minor clay and bits of calcite					
	170.86 clay seam with contacts not preserved - approx. 5 mm wide					
	180.17 - 180.41 clay seam w dark green chloritic margins					
	- contains lithic and calcite fragments in medium grey clay					
	- margins are irregular, but trend 85-90° C.A.					
	- margins also host calcite veinlets to 9 mm thick					
	185.85 - 186.0 blocky interval with light grey clay seam trending 80° C.A.	184.85-185.85	44562	< 5	0.1	30
		185.85-186.85	63	< 5	0.1	130
	186.44 - 186.98 light grey clay seam with abundant lithic fragments	186.85-187.85	64	5	0.1	240
	- top contact fairly sharp @ 81° C.A., lower contact broken up	187.85-188.85	65	< 5	0.1	190
	188.13 pebbly slightly hematitic gouge seam, 15 mm wide, trending 38° C.A.					
	192.87 - 192.99 fractured interval with bit of clay - fractures are irregular, trend 0° and 90° C.A.					
195.85 - 202.53	Intensely clay-altered and faulted interval	195.0-196.0	44566	< 5	0.1	210
	- medium grey	196.0-197.0	67	< 5	0.1	180
	- commonly consists of sparse clay-cemented breccia	197.0-198.0	68	< 5	0.1	200
	198.1 - 199.3 black pyrite-rich gouge - contacts not preserved	198.0-199.0	69	< 5	0.1	130

LEXINGTON RESOURCES LTD.

Hole Number DC88-10

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	- upper contact of clay-altered area is a gradational interval comprising clay-coated fractures	199.0-200.0	44570	<5	0.1	210
		200.0-201.0	71	<5	0.1	170
	- some competent and relatively little-altered intervals	201.0-202.0	72	<5	0.1	260
	- white calcite stringers and veinlets are common throughout	202.0-203.0	73	<5	0.1	150
	- pyrite is a fairly common accessory throughout	203.0-204.0	74	<5	0.1	190
	lower clay seam @ 202.53, trends 29° C.A.	204.0-205.0	75	<5	0.1	170
202.53-210.6	Conglomerate - breccia					
	- very light grey, pale green					
	- very bleached, due to proximity to alteration zone					
	- little contrast of fragments to matrix					
	- clasts comprise 90% of unit, rounded, average 5-10 mm Ø					
	- appears to be mainly matrix-supported					
	- competent interval, very rare fractures					
	- 209.25 to 210.6 get obvious sedimentary component - granular, finely laminated in part					
	209.7 36° C.A. - layering					
	- lower contact fairly distinct @ 27° C.A.					

LEXINGTON RESOURCES LTD.

Hole Number BC88-10

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
210.6-273.1	Andesite with intercalated flow-top(?) breccias					
	-medium to light grey, occasional pink areas - slight hematization					
	-generally fairly massive, slightly to moderately altered					
	-porphyritic - fairly common feldspar phenocrysts in unbrecciated flow intervals - white, 1-2 mm long, comprise 5-10% of unit, hosted by a fine-grained groundmass					
	217.11-217.18 clay-cemented breccia with bit of calcite -trends 70° C.A.					
	-many intervals have blotchy, swirled texture, comprising incipient breccias, over following intervals:					
	210.6-218.93 - swirled and brecciated intervals					
	223.0-226.2 - mostly breccia					
	228.2-231.1 - blotchy, some poor breccia					
	231.83-244.2 - brecciated + blotchy areas, some incorporated laminated siltstone fragments					
	236.93 irregular clay seam, med. grey - fractured area is 60 mm wide					
	242.75-242.92 strongly altered, fractured, trends 65° C.A.					
	245.83-246.85 mostly brecciated					
	253.5-253.9 spotted breccia - below this, get common narrow intervals of spotted breccias					
	261.04-261.18 chloritic shear zone, trends 54° C.A. - unit is fine-grained, almost aphanitic, poorly to moderately feldspar porphyritic					

LEXINGTON RESOURCES LTD.

Hole Number BC88-10

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	267.19 - 267.55 light grey clay seam with minor quartz	266.0-267.0	14576	<5	0.1	900
	- very irregular contacts, not well preserved	267.0-268.0	77	<5	0.1	700
		268.0-269.0	78	<5	0.1	310
273.1	E.O.H.					

[redacted] EXPLORATIONS LTD.

Hole No. BC88-11
Location: Lat. 14+81S
Long. 0+21E
UTM
Collar Inclination -60° 144.5
Collar Azimuth 117° 294.5
Casing 34ft = 10.36m 444.5
Total Length 606ft = 184.71m 594.5

Sperry Sun Tests

Depth	Azimuth	Inclination	
156'	104°	-62.5°	44.03m
306'.	106°	-63°	89.74m
456'	105°	-63.5	135.44
606'	111°	-64°	181.15

Property Bobcat II Project
Date started 25 September 1988
Date completed 27 September 1988
Contractor D.W. Coates Enterprises Ltd.
Core size NQ2

Logged by K.D. Costello
Date 29 September, 1988

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppt
0-10.36	Casing					
10.36 - 58.1.	Tuffaceous Unit:- with local lahar breccia and flow(?) breccia intervals - fine grained, pale grey with local dark grey bands (A 25-30°, and occassional clayseams - locally unit has a somewhat granular texture, weakly argillic altered					
	10.36-11.13m: blocky, limonitic (surface weathering) lahar breccia - angular fragments 0.5 to 6cm diameter - some fragments medium green, andesitic, with creamy coloured feldspars and green black (chloritized) mafic phenocrysts (<3mm diameter) in aphanitic to fine grained green groundmass					
	11.13-11.98m pebble and cobble sized fragments in laharic breccia fragments pale grey in darker grey matrix					

LEXINGTON RESOURCES LTD.

Hole Number BC88-11

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	12.45-12.85m: breccia (lahgric) with moderate to intense argillic alteration 12.69 - 12.85m, lower contact sharp at CA 50° for end of alteration, end of breccia not exact - masked by alteration	12.0-13.0	44709	<5	0.1	1300
		14.0-15.0	44710	<5	0.1	2500
		16.0-16.9	44711	<5	0.1	1500
	13.5-13.55m: grey clay filled fractures at CA 50°, splays at CA30-40°, 2-9mm wide					
	13.72-13.93m: pale and dark grey, fine grained banding (depositional?) at CA 50°, steepening to CA 30° at end of intersection	16.9-19.42 (1m recovered)	44712	<5	0.1	430
	14.15m: clay					
	14.41 - 14.99m: laharic breccia with irregular moderate to intense argillic alteration (grey clay) in matrix and along irregular fractures					
	15.21 - 15.4m: flow breccia - subangular and subrounded light grey granular textured fragments in fine grained dark grey-black, with fine pyrite (<0.2mm), matrix fragments appear weakly argillic altered					

LEXINGTON RESOURCES LTD.

Hole Number BC88-11

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	16.20m CA37° fine banding (layering)					
	16.5 - 20.12m: moderate to intense argillic altered					
	- alteration pseudomorphic					
	- medium to dark grey, with trace very fine pyrite (euhedral					
	- upper contact irregular - appears to follow fracture (?) CA20°					
	16.56m: calcite. CA70-75° clot (not really a stringer)					
	16.92 - 17.07m: intense clay alteration with plastic clay	19.42-20.12	44713	<5	0.1	100
	lost 6cm.					
	17.07 - 19.42m: 0.83m recovered, 1.52m lost.					
	20.12 - 23.53m: very fine grained, locally with granular texture, massive with	20.12-21.0	44714	<5	0.1	140
		21.0 - 22.0	44715	<5	0.1	130
	irregular calcite stringers	23.0-24.0	44716	<5	0.1	180
	up to 5mm wide, local moderately fractured intervals:					
	21.09 - calcite stringer/vein 4mm at CA70°					
	21.25 - 1cm calcite stringer/vein. CA80°, changing to CA40°, trace pyrite					
	22.84 - CA23° fine layering					

LEXINGTON RESOURCES LTD.

Hole Number BC88-11

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	23.53 - 23.7 m: moderately clay altered to intensely clay altered; pseudomorphic, with some plastic clay, broken up core					
	23.79 - 24.05m: fractured and moderately clay altered 23.79 - 23.84 m: medium grey with calcite stringers as in 20.12 - 23.53 m 23.84 - 24.05 m: change to pale grey, very fine grained (almost fine sandstone) with intensely granular (fractured in white clay rich matrix) zone to 24.03, last 2cm clay is plastic with angular and subangular quartz fragments up to 2cm long					
	24.05 - 25.15 m: contact starts at CA 5°, increasing to CA 60° by 24.3 m with fractured clay matrix interval, calcite stringers along contact - 24.05 - 24.80m: pale to medium grey fine grained, banding (A 55° Explain the groundmass) - 24.3 - 25.15 m: lesser altered	24.0-25.0 25.0-26.0	44717 44718	< 5 < 5	0.1 0.1	70 40

LEXINGTON RESOURCES LTD.

Hole Number BC88-11

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	angular lithic fragments in clay matrix; locally clay has a gritty, sandy feel.					
25.15 - 25.56m	: hairline and 1mm fractures, (poss. 1dg the latter along layers) with and without fine pyrite CA 30° cut fine grained, grey tuffaceous (almost a wacke in appearance) unit.					
25.88 - 27.34m	: contact @ 25.88 CA 55° with gritty (wacke) tuffaceous interval; [illegible] 26 - 26.21m: riddled with calcite stringers as in earlier intervals. 26.21 - 26.68m: clayey fractures running approximately along core axis					
27.34 - ~~30.28m~~ 34.23m	27.34m marks start of laharic breccia interval; matrix locally siliceous → grey white to white gradually becoming a pale grey (with greenish tint) somewhat mottled unit by 30.28m with the occasional discernable fragments ([illegible] pyrite as clots of fine euhedral grains in mottled interval from	27.82-28.32	44719	< 5	0.1	100

LEXINGTON RESOURCES LTD.

Hole Number BC88-11

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	31.8 - 33.65m ; with calcite stringers along core axis 32.8-33.17m - broken core intervals (slight clay alteration) 32.0-32.2m & 33.25-33.67	31.8-32.8	44720	5	0.1	130
		32.8-33.8	44721	<5	0.1	70
33.23 - 35.89 m	granular (sand size particles visible), layered (CA 30° at 34.3m CA 48° at 34.95m) textured interval (greywacke?)					
	- 34.56 - 34.96 <1mm pyrite and quartz stringers at CA 10-15°	34.56-34.96	44722	40	0.1	60
35.89 - 36.7m	Flow breccia - angular and subangular (especially 36.25-36.45) fragments in dark grey pyritic matrix, with trace calcite and rare quartz interstitial to fragments	36.0-36.6	44723	10	0.1	190
36.7 - 39.58	- Massive to locally banded (layering?), pale grey, with white and black phenocrysts (feldspar & mafic respectively					
	- clay-breccia seams					
	38.03 -> 38.19m. contact at CA 55° at 38.1 for calcareous dark grey clay with angular + subangular quartz fragments up to 3cm, trace pyrite in clay	37.9-38.4	44724	10	0.1	190
	38.24 - 38.37m: blocky core with dark grey-black clay 38.33 - 38.37m with <1.5cm subangular lithic fragments					

LEXINGTON RESOURCES LTD.

Hole Number BC88-11

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	39.58 - 49.8m: Rhyodacite					
	- pale grey with 15-20% white quartz grains in aphanitic groundmass (slight green tint)					
	- locally blocky and broken core intervals, especially where argillic altered					
	- occassional discontinuous calcite stringers ≤ 1mm wide at core angles varying from CA 35 to 60°					
	→ 40.43 - 40.73 m					
	- CA 20° 1-2mm dark pyrite - calcite stringers, there are some not quite as regularly oriented and discontinuous in 41.8 - 41.9 m					
	→ 42.55 - 43.08m.	42.55-43.25	44725	10	0.1	200
	- moderate to intense argillic alteration with rare calcite - pyrite stringers cutting core to 43.0 m.					
	→ 43.17m:	43.25-43.95	44726	< 5	0.1	190
	clay seam 3mm CA 60°					
	→ 43.45 - 43.62m					
	very broken core interval with moderate argillic alteration.					

LEXINGTON RESOURCES LTD.

Hole Number BC88-11

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	→ 45.69m.					
	1cm calcite vein/stringer CA 50°					
	→ 45.77 - 45.93m.	45.5-46.0	44727	5	0.1	120
	calcite + clay seam, contacts					
	not distinct, lowerone ~ CA 40°,					
	calcite as angular and subangular					
	fragments, and as discontinuous					
	stringers; trace pyrite					
	→ 46.95 - 47.79m.					
	CA 60° dark grey (aphanitic					
	groundmass with matic + felsic					
	phenocrysts) (possibly clastic)					
	bands up to 6cm wide					
	→ ~ 48.8 - 48.9m					
	CA 40° calcite breccia vein,					
	angular lithic fragments up to					
	5cm long; true thickness hard					
	to measure because of very					
	blocky nature of interval,					
	appears ~ 10cm wide					
	→ 49.8m. approximate contact.					

LEXINGTON RESOURCES LTD.

Hole Number BC88-11

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	49.8 - 58.1. Dacite.					
	- dark grey, very fine grained unit					
	- aphanitic groundmass with mafic and felsic (some quartz + feldspar) phenocrysts					
	- massive, very blocky, hard.					
	- cut by calcite veins & stringers of variable width and orientation, generally < 5mm in width					
	- local clay seams and/or healed fractures					
	→ 50.72 - 50.95m: clay seam, pale grey with pyrite (locally 2-5%), CA 30°	50.6-51.1	44728	10	0.1	60
	→ 50.95m: 4mm CA 43° grey-white quartz vein at end of clay seam					
	→ 50.95 - 54.4m: blocky with occassional calcite stringers/veins					
	→ 54.4 - 55.43m: clay coated fractures cut core at CA 90° to 55.43m, core breaks along these fractures and irregular splays, locally < 3mm diameter lithic fragments, subangular → subrounded in clay	54.4-55.4	44729	< 5	0.1	60
	→ 55.43 - 58.6m fine "banding" CA 40° (sort of a striped appearance)					

LEXINGTON RESOURCES LTD.

Hole Number BC88-11

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	-> 57.85-58.1	57.6-58.1	44730	<5	0.1	50
	clay matrix breccia					
	- dark grey clay with <1% fine euhedral pyrite (<0.2mm)					
	- fragments angular and somewhat porous (possibly fragments of arenaceous unit underneath.) up to 4cm diameter, smaller lithic fragments (≤1cm) are subangular - possibly dacitic or arenaceous					
	- calcite bleb precedes this clay zone 57.75-57.85 along core axis (core seems to skim edge of calcite mass (stringer, vein or whatever)					
58.1 -60.0m	Impure Sandstone - Wacke.					
	- grey, impure granular unit quartz, feldspar and grey (mafics/clays) grains visible, clay in matrix/as cement					
	- occasional banding (layering) CA 52° defined by darker grey fine grained layers					
	59.1-59.74m: very blocky interval with core breaking along CA 40° fractures, occasionally clay coated, and with pale orange-yellow brown limonite oxide staining (after pyrite?)					

LEXINGTON RESOURCES LTD.

Hole Number BC88-11

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	- lower contact sharp and distinct ~CA48°, slightly curved at 60.0m.					
60.0-65.58	Pebble conglomerate - angular, subangular and subrounded clasts 2 to 15cm (the larger cobble fragments of the last 40cm of the interval), in a matrix of <2mm grains, some clayey - matrix supported - clasts polymictic					
	61.3-62.25m: Fractured interval ± clay	61.3-62.3	44731	<5	0.1	20
	- upper contact distinct ± sharp CA30° (double pronged down ↑ |N|)					
	- lower contact CA50° also sharp + distinct					
	- clay along fractures (gives "seams" up to 1cm wide					
	- slight pale yellow-green stain to clay and fractured rock (E-staining of fine trace pyrite)					
	- lower contact at CA 50°					

LEXINGTON RESOURCES LTD.

Hole Number BC88-11

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
56.58 - 67.54	Impure sandstone-Wacke. -as in earlier sandstone interval, -fine, siltstone layers more abundant -CA55° layers of fine grained (<sand size) particles					
67.54 - 67.94	Impure sandstone-Wacke, grain size greater than previous interval, averages 2-3mm (grit size) -mafics (chlorite) and felsic grains -lower contact sharp + distinct at CA 50°, -upper contact - core broken along it so core angle not distinct					
67.94 - 80.6	Pebble Conglomerate. -clasts 4mm to 22cm diameter (granule to cobble size), subrounded, polymictic -poorly sorted, matrix supported. -some clasts are pale greenish grey, have a granular texture. -matrix consists of <4mm diameter grains, dark grey + white colour, starting at 71.73m matrix has red colour (hematite after very fine (<0.2mm) pyrite (except					

LEXINGTON RESOURCES LTD.

Hole Number BC88-11

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	72.26 - 73.06m: clay fractured zone; irregular angled fractures, with some trending at CA 50-57°	72.2-73.1	44732	<5	0.1	1.50
	- red colour to matrix particularly intense in 76.0 - 78.03 interval, with yellow-brown Fe-oxide stain streaks in 77.55 to 78.03m.	76.0-77.0	44733	<5	0.1	30
		77.0-78.0	44734	<5	0.1	20
	78.78 - 78.82m: 5-7% patchy calcite in matrix	79.7-80.2	44735	<5	0.1	100
	79.8 - 80.2m: medium green-grey clay in fractures; <1% very fine (<0.2mm) pyrite in clay; core very broken up, clay has gritty feel, no core angles of fractures observed.					
30.6 - 105.5	Impure sandstone - possibly Pyroclastic (chloritic) and red (hematitic) - pale green with darker green laminae (CA 80-40° and dark green subrounded e rounded grains; grainy 'look'; locally mottled appearance - <1% patchy white calcite, and white [redacted] stringers/veinlets; occasional clasts 83.77m 1cm quartz + calcite vein CA [redacted] + trace pyrite					

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Hole Number BC88-11

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	89.97-90.77m: 'grainy' 1-2mm, with calcite grains (white); still sandstone.					
	92.0 - 99.18m: patchy red (hematitic) stained ~2% very fine pyrite	92.0-93.0	44736	< 5	0.1	20
		93.0-94.0	44737	< 5	0.1	20
	94.7 start of less grainy interval (green mafic; and white calcite and quartz grains in aphanitic pale green groundmass), trace hematitic staining to some grains + in groundmass; trace very fine pyrite - rare exotic clasts, < 1.5cm diameter - lower contact gradational					
105.5-116.45	Dacitic Unit = locally tuffaceous (?) - fine grained, dark green unit, - occasional hematitic (red) staining to groundmass, - groundmass appears to be chloritic and siliceous in composition - "phenocrysts" of dark green-black (< 2mm) bladed grains and grey-white felsics (feldspar + quartz) - rare exotic fragments < 1cm diameter, have chloritic rims, rarely with hematitic	97.35-97.45	Petrographic Sample.			

LEXINGTON RESOURCES LTD.

Number DC-88-11

val (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	Stain -locally mottled appearance (red & green) -trace pyrite in groundmass, and rarely as clots of fine grains (euhedral, <0.2mm) -occasional thin calcite veins & stringers					
95-122.10m	Tuffaceous Unit -similar to above unit; no hematitic stain, -somewhat granular texture, without the aphanitic groundmass and rare exotic lithic fragments; -vague layering CA35-40°					
22.10 - 156.32	Impure Sandstone - Wacke, grading into lithic breccia, tuffaceous sediment - pale grey green, granular texture, most grains 1-2mm, - moderately sorted, - mafic grains are dark green black, clay altered feldspars and quartz are the visible felsic grains (white and grey-white respectively - chloritic and clay rich cement - occasional calcite veins/stringers cut					

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Hole Number BC88-11

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	core					
	· clay fractures + seam at CA35°,					
	121.19 - 121.3, calcite vein parallels CA35°, trace					
	pyrite					
	- lahanic breccia interval starts at					
	approximately ~>135 m, grades to tuffaceous sed.					
	- very little colour contrast between					
	fragments + matrix; faint outlines					
	indicate fragments up to 5cm, sub-					
	rounded; matrix-supported; becoming					
	breccia					
	tuffaceous (no fragments) with few exotic fragments					
	145.08 - 148.13 m: lost 55cm core,					
	mislatch indicated 147.25m					
	147.25 - 147.41m: very broken core, pieces					
	as small as 5mm diameter					
	147.51 - 147.62m: pyritic clay seam CA42°,	147.42-147.82	44738	<5	0.1	80
	contacts distinct; clay alteration					
	appears to be pseudomorphous					
	156.24m					
	· faint banding (layering) CA32°					
156.32 -	conglomerate - pebble					
165.75	- poorly sorted					
	polymictic clast 2 - 15mm, subangular					
	to rounded, in fine grained dark grey					

LEXINGTON RESOURCES LTD.

Hole Number BC88-11 [redacted] Page 7 of 21

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	matrix					
	- cut by [redacted] 30° calcite (+ minor quartz) stringers/ veinlets [redacted] clay along outer edges, trace to 1% pyrite, clay and calcite,					
	- these give very blocky, broken core to 157.5m.	1569-1579	44739	< 5	0.1	110
	157.5 → 158.4m:					
	- conglomerate (pebbles) with pyrite trace to 0.5% as fine grains (usually inclots) in the matrix and as stringers.	1579-1588.5	44740	20	0.1	130
	157.63m CA 13° calcite with pyrite veinlet					
	157.85 - 158.08m: several (4) calcite stringers, up to 1.5cm wide at CA 30° to 50° with trace euhedral pyrite ≤ 0.5mm diameter					
	158.4 - 158.55					
	158.4m CA 60° clay coated fracture.					
	158.4 - 158.55m: increasing hairline calcite + quartz healed fractures to give spiderweb fracture pattern - starting at 158.55m CA 60°, pyrite, black (argillaceous?) layers.					

LEXINGTON RESOURCES LTD.

ole Number BC88-11

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	158.55- 160.5m. massive dark grey clay starts at 158.58, with ~1% pyrite, abundant <1cm subrounded and subangular quartz and lithic fragments (quartz less abundant than lithic fragments - lithic fragments increase to ~6cm diameter in 159.2 – 160.32m. (only 1m recovered.	158.5-159.[illegible]	44741	10	1.1	150
		159.2-160.[illegible] (1m recovered)	44742	<5	0.1	140
	160.5- 160.9m. blocky, with abundant irregularly oriented calcite stringers with clay	160.65-160.[illegible] (1m recovered)	44743	5	0.7	220
	160.65- 160.75 ; clay contains lithic fragments <1cm as in earlier interval, CA ~ 70°					
	160.[illegible] - 161.[illegible]m. clay matrix with subangular to subrounded lithic fragments ; fragments show weak to moderate argillic alteration ; trace to 1% fine euhedral pyrite in clay	161.[illegible]-161.29 1.25	44744	<5	0.1	150
	161.[illegible]-161.59m CA 70° plastic dark grey clay seam.					
	161.[illegible]- 163.52m. blocky core, calcite stringers up to 3mm cut core - impure sand[illegible] with broken, blocky clay intervals at 161.65 to 162 m, 162.1-162.2, 163.[illegible]					

LEXINGTON RESOURCES LTD.

Hole Number [redacted]

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	[redacted] conglomerate again at 162.92m	162.9-163.52	44745	< 5	0.1	340
	163.52 - 164.3m					
	intense clay alteration; clay filled fractures and clay matrix supported (dark grey → black) subangular - subrounded lithic fragments; 2-5% pyrite (fine, euhedral) in clay	163.52-164.3	44746	< 5	0.1	770
	164.3 - 165.75m.					
	conglomerate with thin argillaceous laminae CA 45°					
165.75 - 167.95	Siltstone					
	- finely laminated					
	- medium grey to dark grey, argillaceous laminae; locally ball structures & flames					
	166.2m: CA 35° laminae					
	167.35m CA 47° laminae					
167.95 - 189.71	Pebble conglomerate with interlayered siltstone, argillaceous intervals					
	- similar to above pebble conglomerate					
	- matrix locally clay-rich giving rise to friable intersections					

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Hole Number BC88-11

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	Friable [redacted] rvals					
	167.95 - [redacted] 168.37 - 168.47m. CA20°					
	169.27 - [redacted] .5. CA52° layering in argillaceous interval with 5mm wide pyrite layer.					
	170.93 - 171.02m: blocky argillaceous interval, core fragments ≤ 3cm long					
	171.02 - 173.6m: conglomeratic - pebble size clasts in black (argillaceous) matrix (matrix supported)	171.02 - 172.02	44747	< 5	0.1	800
		172.02 - 173.02	44748	< 5	0.1	1800
		173.02 - 174.02	44749	< 5	0.1	1800
	- clasts - weak to moderate intensity argillic alteration					
	- matrix - already clay rich so difficult to judge extent of argillic alteration					
	- locally CA90° dark grey - black clay seams, one at CA0° in 171.73 - 171.96m.					
	- trace calcite in matrix + clay seams.					
	- CA 30°, calcite veinlets/stringers more in this interval.					

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Hole Number BC88-11

Interval (metres)		Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	173.6 - 174.80	psle grey, (2, green tint) sandstone, well-sorted - upper 60cm slightly broken up (i.e. fractured) likely from weathering as clasts of this unit are in the above conglomerate					
	174.89 - 177.66m:	pebble conglomerate - angular to subangular lithic fragments in fine grained black, argillaceous matrix.					
	177.66 - 184.25m:	Interlayered assemblage of fine conglomerates (clasts ≤ 5 mm), siltstones, argillites and impure sandstones - banding (original layering) varies 177.8m, CA 33°, 179.11m CA 42°, 180.65m CA 48°, 181.75 CA 40°, 183.54 CA 52°					
	184.26 - 184.71m:	conglomerate - pebble, - well rounded clasts; matrix-supported; clasts 75% of conglomerate, matrix 25%. - trace limonitic staining					
	184.71m EOH						

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Hole Number BC88-12

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
14.6 – 26.06	Lahar Breccia - subangular and subrounded fragments, rare exotic fragments, up to cobble size, pale green-grey, and green-white to green-grey matrix. (locally very subtle colour & apparent compositional contrast between fragments & matrix) - matrix supported; matrix locally slightly silica rich relative to fragments – still andesitic sandstone/siltstone - patchy trace to locally 10% epidote (alteration of feldspars) - locally pervasively limonite stained intervals: 16.48 – 17.67 m & 24.9 – 26.06 m & trace fine quartz veinlets with orange-brown Fe stained halos 24.69 – 29.75 m: calcite + quartz vein(?) skimmed by edge of core – calcite is cementing euhedral quartz up to 1cm long	25.06-26.06	44750	< 5	0.1	90
26.06 – 40.05	Rhyodacite – dacite - fine grained, porphyritic, darker grey-green, hard competent unit - quartz grains as phenocrysts 10-15%, lesser feldspar and mafic (chlorite) phenocrysts; all ≤ 5mm diameter - vague crystal outlines to some feldspar phenocrysts					

LEXINGTON RESOURCES LTD.

Hole Number BC88-12

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	-aphanitic grey-green (basalt-siliceous?) groundmass					
	-local iron stained intervals with calcite & silica (quartz) stringers and/or cemented breccia intervals					
-	29.57 - 30.41 m: weak to moderate orange brown limonite staining	298-303	44751	<5	0.1	60
	29.87 - 30.0 m: very broken core, with quartz and calcite cemented breccia, angular limonite fragments with 29.95m CA65° 5mm quartz vein with clay along vein edges					
-	31.0 - 31.56 m: weak to moderate orange brown limonite staining: with quartz veins at 31.13m, 2-9mm wide, CA52°, marking start of quartz healed (breccia) fracturing to 31.47m.; 31.25m: "clayey" seam CA50°, ~1-2cm wide.	31-31.8	44752	<5	0.2	50
-	31.76 - 31.81m: weak to moderate limonite staining about CA60°, 1.5cm calcareous clay seam at 31.77 - 31.79.					
-	32.06 - 32.95m: pervasive weak to moderate intensity limonite oxidation stain with quartz ~~calcite~~ cemented breccia 32.22 - 32.61m:	32.0-33.0	44753	<5	0.1	50

LEXINGTON RESOURCES LTD.

Hole Number BC88-12.

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	trace calcite & clay infilling to quartz					
	32.74-32.76m. CA 30° 1.5cm wide vein, thins to 2mm, quartz with late pale green (sericite/chlorite) clay and trace calcite.					
	32.95-33.7m: patchy weak limonite staining associated with limonite fractures					
	33.77-33.81m: patchy, irregular 2-4mm quartz healed fractures, late clay infills between quartz grains	33.7-34.5	44754	<5	0.4	130
	33.91-34.5m: blocky core with moderate intensity limonite and carbon staining.					
	34.5-36.18m: pervasive weak limonite staining, core very blocky, breaks along limonite fracture surfaces at varying core angles.					
	36.18-36.95m: moderately bleached interval with silicified interval 36.32-36.41m.; interval cut by limonite stained fractures	36.1-36.8	44755	<5	0.1	120
	36.92-37.18m CA 60° limonite stained fractures cut bleached zone (bleaching moderate) with trace 1mm CA 25° quartz veinlets	36.8-37.2	44756	<5	0.1	70

LEXINGTON RESOURCES LTD.

Hole Number BC88-12

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	38.71 - ~~40.05~~ 40.05m: blocky core interval,					
	core breaks along limonitic fractures at					
	variable core angles, eg CA 5°, 40°, 55°					
~~40.85~~ 40.05 -	Silicified, Brecciated Zone.					
46.95	zone consists of open limonitic fractures,	40.05-41.05	44757	<5	0.5	110
	pervasive silicification (in the form of white-	41.05-42.05	44758	5	1.2	140
	grey quartz cementing subrounded-subangular	42.05-43.05	44759	5	0.9	290
	deep orange brown limonitic, little fragments, across	43.05-44.15	44760	15	0.9	250
	white-grey veins, vuggy with limonitic coatings.	44.15-44.9	44761	10	1.1	350
	creamy white to pale yellow-orange (limonitic	44.9-45.9	44762	10	1.4	210
	stained) clay occurs infilling between quartz	45.9-46.9	44763	15	0.7	200
	in breccia, and as clots (altered fragments?)	46.9-47.9	44764	15	0.7	270
	rarely as definite seams.	47.9-48.9	44765	25	1.3	190
	40.05 - 40.22m: deep orange brown limonitic					
	interval, cut by open fractures at CA 50°					
	40.22 - 40.85m: silicified breccia - breccia					
	fragments intensely limonitic, some clay					
	altered; quartz locally is crystalline (<1mm					
	crystals); white quartz cements fragments,					
	clay (variably limonitic) infills vugs; cut by					
	later open limonitic fractures CA 40-50°					
	CA 45° creamy white clay seam at 40.35m.					
	40.22 - 40.65m: bleached, competent core, not brecciated,					

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Hole Number BC 88-12

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	intense limonitic staining as patches and along hairline fractures CA40-55°; no prominent clay alteration					
	41.32 – 41.37 m. CA50° silicified breccia vein; clay altered fragments < 1 cm diameter, intense orange-brown limonitic clay infilling interspaces; quartz crystals <1mm.					
	41.65 – 42.05m. CA 30-40° crystalline quartz veins (some open to 1cm wide) with limonite coatings					
	42.05 – 42.55 m: pervasive moderate intensity limonitic stained interval with rare CA30-40° crystalline quartz veins, mainly white quartz stringers at variable core angles.					
	42.55 – 42.93 m: grey interval, one patch of limonite stain about fracture at CA47° at 42.81 m. - unit has the appearance of a breccia/conglomerate with subrounded lithic fragments/clasts; pyrite in matrix (trace %) 42.56 m CA38° quartz vein, 2-4mm 42.64 m. CA25° quartz vein 5-6mm					

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Hole Number BC88-12

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	42.93 – 44.23m.					
	· limonitic staining starts at 42.93, intense orange brown stain; moderately bleached.					
	43.12m CA25°, 1-1.5cm quartz vein.					
	marks start of moderately bleached zone.					
	with limonitic hairline fractures &					
	limonite stained fragments (outlines of					
	subrounded <1.2cm diameter fragments					
	visible).					
	43.38m CA55° limonitic clay seam/fracture.					
	43.44 – 44.05m intensely silicified zone,					
	starts as silicified subrounded to					
	rounded limonitic, intense clay altered					
	fragments, progressing into limonite					
	fragments & white quartz cement, &					
	43.94 – 44.05 white quartz veining, CA40°					
	44.23 – 44.87m.					
	weak limonitic stained interval, rare					
	quartz stringers, host unit appears					
	slightly granular & porous (possibly					
	impure sandstone.					
	44.87 – 46.9m.					
	pervasive moderate to intense limonitic					
	staining along hairline fractures at					
	various core angles, occasionally discontinuous					

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Hole Number R88-12

Interval (metres)	Lithologic Description	Interval	Number	Samples Au (ppb)	Ag (ppm)	Hg (ppb)
	quartz stringers; interval appears weak to moderately bleached.					
	- quartz stringers / veins: up to 1cm wide at CA60° 25°, @ 40°.					
	45.95-45.97m. limonitic clay seam adjacent to CA 50° 1cm quartz vein.					
46.9-48.21	Impure Sandstone / Wacke.					
	- fine granular texture					
	- grey - white colours, immature in composition					
	- appears moderately well sorted					
	- clay cement.					
	- has discontinuous pyrite millimetre cracks throughout.					
	- limonitic clay coated fracture cuts core at CA 33° at 47.45 and 47.53					
	- have discontinuous thin quartz stringers					
	- pyrite along limonitic fractures					
48.21 - 49.55m	Impure Sandstone with Argillaceous layers					
	- sandstone as above.					
	- argillaceous units - very fine grained, black,					
	- local conglomeratic? possibly Breccia) in: 48.35 - 48.46m					
	- cut by hairline quartz fragments fractures					

LEXINGTON RESOURCES LTD.

Hole Number BC88-12

Interval (metres)	Lithologic Description	Samples Interval	Number	Au (ppb)	Ag (ppm)	Hg (ppb)
	patchy limonitic staining 49.2 - 49.25m: clay seam, core broken, friable					
49.55 - 50.63	Clay altered Interval - possibly same as above. - clay, friable, broken core interval with 50.44 - 50.63 brown plastic clay with subangular - subrounded <1.7cm lithic fragments					
50.63 - 56.69	Pebble Conglomerate: - clasts 3 - 20mm diameter, poorly sorted - matrix supported; polymictic - is a grey - pale green white colour. matrix consists of <2mm grains - rare CA 50°, calcite stringers (veins) with patchy limonitic stain along edges. - matrix very siliceous					
	E.O.H = 56.69m.					

Appendix 6

Drill Core
Chemical Analyses

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE. NORTH VANCOUVER,
BRITISH COLUMBIA. CANADA V7J-2C1
PHONE (604) 984-0221

TO: SEVERN EXPLORATIONS LIMITED

510 - 850 W. HASTINGS ST.
VANCOUVER, BC
V6C 1E2

Project :
Comments: CC: SEVERN - CLINTON CC: LEXINGTON RES.

Page No. : 1
Tot. Pa. : 1
Date : 1-OCT-88
Invoice # : I-8824023
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8824023

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb
44036	205	--	< 5	0.3	710
44037	205	--	15	0.2	220
44038	205	--	15	0.5	530
44039	205	--	35	0.3	290
44040	205	--	15	0.4	540
44041	205	--	< 5	0.8	2200
44042	205	--	< 5	0.4	480
44043	205	--	< 5	0.3	920
44044	205	--	< 5	0.4	1900
44045	205	--	< 5	0.3	1100
44046	205	--	< 5	0.5	1700
44047	205	--	< 5	0.5	930
44048	205	--	< 5	0.3	1600
44049	205	--	< 5	0.3	1400
44050	205	--	< 5	0.2	860
44051	205	--	< 5	0.2	880
44052	205	--	< 5	0.2	670
44053	205	--	< 5	0.3	1600
44054	205	--	< 5	0.3	1100
44055	205	--	< 5	0.2	650
44056	205	--	< 5	0.1	290
44057	205	--	< 5	0.3	450
44058	205	--	< 5	0.3	500
44059	205	--	< 5	0.3	450
44060	205	--	< 5	0.4	580
44061	205	--	< 5	0.3	430
44062	205	--	< 5	0.3	430
44063	205	--	< 5	0.4	440
44064	205	--	< 5	0.4	660
44065	205	--	< 5	0.3	940
44066	205	--	< 5	0.3	470
44067	205	--	< 5	0.2	560
44068	205	--	10	0.3	1000
44069	205	--	50	0.5	1400
44070	205	--	10	0.4	430
44071	205	--	< 5	0.4	170
44072	205	--	< 5	0.2	70
44073	205	--	< 5	0.3	80
44074	205	--	< 5	0.2	150
44075	205	--	< 5	0.2	140

CERTIFICATION : Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
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SEVERN EXPLORATIONS LIMITED

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Page No.
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Date : 1-OCT-88
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P.O. # : NONE

CERTIFICATE OF ANALYSIS A8824023

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb
44076	205	---	< 5	0.3	100
44077	205	---	< 5	0.3	50
44078	205	---	< 5	0.2	40
44079	205	---	< 5	0.3	20
44080	205	---	< 5	0.3	50
44081	205	---	< 5	0.4	20
44082	205	---	< 5	0.2	80
44083	205	---	< 5	0.2	80
44084	205	---	< 5	0.2	1100
44085	205	---	< 5	0.2	70
44086	205	---	< 5	0.1	60
44087	205	---	< 5	0.1	60
44088	205	---	< 5	0.1	110
44089	205	---	< 5	0.1	40
44090	205	---	< 5	0.2	60
44091	205	---	< 5	0.2	60
44601	205	---	10	0.4	1300
44602	205	---	< 5	0.1	110
44603	205	---	< 5	0.1	1900
44604	205	---	< 5	0.3	90
44605	205	---	< 5	0.2	290
44606	205	---	< 5	0.1	330
44607	205	---	< 5	0.1	430
44608	205	---	< 5	0.1	240
44609	205	---	< 5	0.1	370
44610	205	---	< 5	0.2	230
53451	205	---	< 5	0.5	90
53452	205	---	< 5	0.5	80
53453	205	---	< 5	0.3	210
53454	205	---	< 5	0.3	250
53455	205	---	< 5	0.4	220
53456	205	---	10	0.8	580
53457	205	---	< 5	0.6	490
53458	205	---	< 5	0.4	270
53459	205	---	< 5	0.3	50
53460	205	---	< 5	0.3	50
53461	205	---	< 5	0.5	40
53462	205	---	< 5	0.4	310
53463	205	---	< 5	2.8	740
53464	205	---	< 5	1.0	850

CERTIFICATION : Stewart Bichler

Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE. NORTH VANCOUVER,
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Project :

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Tot. Pa[redacted]
Date : 1-OCT-88
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CERTIFICATE OF ANALYSIS A8824023

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb
53465	205	--	< 5	1.2	1200
53466	205	--	< 5	3.2	1900
53467	205	--	< 5	1.0	5000
53468	205	--	< 5	0.8	4800
53469	205	--	< 5	0.8	8300
53470	205	--	20	1.0	6500
53471	205	--	< 5	6.8	2300
53472	205	--	< 5	1.7	390
53473	205	--	< 5	1.2	280
53474	205	--	< 5	1.5	240
53475	205	--	< 5	1.2	200
53476	205	--	< 5	1.5	270
53477	205	--	< 5	0.8	220
53478	205	--	< 5	1.1	150
53479	205	--	< 5	0.7	150
53480	205	--	< 5	0.9	180
53481	205	--	< 5	1.0	180
53482	205	--	< 5	0.3	40
53483	205	--	< 5	0.3	70
53484	205	--	< 5	0.1	60
53485	205	--	< 5	0.1	450
53486	205	--	< 5	0.2	360
53487	205	--	< 5	0.2	8100
53488	205	--	< 5	0.2	180
53489	205	--	< 5	0.3	550
53490	205	--	10	0.3	60
53491	205	--	< 5	0.3	60
53492	205	--	< 5	0.2	550
53493	205	--	< 5	0.1	940
53494	205	--	< 5	0.2	220
53495	205	--	< 5	0.1	380
53496	205	--	< 5	0.1	340
53497	205	--	< 5	0.1	370
53498	205	--	< 5	0.3	680
53499	205	--	< 5	0.2	780
53500	205	--	10	0.3	620
53657	205	--	< 5	2.0	320
53658	205	--	< 5	0.7	300
53659	205	--	< 5	0.6	230
53660	205	--	< 5	0.2	400

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Project :
Comments: CC: SEVERN - CLINTON CC: LEXINGTON RES.

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Date 1-OCT-88
Invoice # : I-8824023
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8824023

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb
53661	205	--	< 5	0.8	410
53662	205	--	< 5	0.4	430
53663	205	--	< 5	0.2	1600
53664	205	--	< 5	0.4	1400
53665	205	--	< 5	0.2	190
53666	205	--	< 5	0.1	110
53667	205	--	< 5	0.1	470
53668	205	--	< 5	0.3	740
53669	205	--	< 5	0.2	750
53670	205	--	< 5	0.1	90
53671	205	--	< 5	0.2	70
53672	205	--	< 5	0.1	390
53673	205	--	< 5	0.3	300
53674	205	--	< 5	0.1	210
53675	205	--	< 5	0.2	540
53676	205	--	< 5	1.0	4500
53677	205	--	< 5	0.1	870
53678	205	--	< 5	0.1	150
53679	205	--	< 5	0.1	200
53680	205	--	< 5	0.2	510
53681	205	--	< 5	0.1	610
53682	205	--	< 5	0.4	350
53683	205	--	< 5	0.3	640
53684	205	--	< 5	0.2	220
53685	205	--	< 5	0.3	220
53686	205	--	< 5	0.3	490
53687	205	--	< 5	0.4	370
53688-53689	205	--	< 5	0.3	190
53690	205	--	< 5	0.2	720
53691	205	--	< 5	0.7	4100
53692	205	--	< 5	0.7	1000
53693	205	--	< 5	0.2	620
53694	205	--	< 5	0.5	1100
53695	205	--	< 5	1.0	910
53696	205	--	< 5	0.3	550
53697	205	--	< 5	0.4	250
53698	205	--	< 5	0.4	230
53699	205	--	< 5	0.4	140
53700	205	--	< 5	0.3	100

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Project :
Comments: ATTN: THOMAS H. HEINE cc: GRAHAM HUGHES

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Invoice # : I-8823400
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8823400

SAMPLE DESCRIPTION	PREP CODE		Au ppb RUSH	Ag ppm Aqua R	Hg ppb							
53501	255	---	< 5	0.2	300							
53502	255	---	< 5	0.3	360							
53503	255	---	< 5	0.1	290							
53504	255	---	< 5	0.1	230							
53505	255	---	< 5	0.1	190							
53506	255	---	< 5	0.1	270							
53507	255	---	< 5	0.1	260							
53508	255	---	< 5	0.1	190							
53509	255	---	< 5	0.1	220							
53510	255	---	< 5	0.1	220							
53511	255	---	< 5	0.1	180							
53512	255	---	< 5	0.1	170							
53513	255	---	< 5	0.1	130							
53514	255	---	< 5	0.1	150							
53515	255	---	< 5	0.1	100							
53516	255	---	15	0.1	490							
53517	255	---	10	0.1	440							
53518	255	---	5	0.1	230							
53519	255	---	10	0.2	140							
53520	255	---	< 5	0.1	130							
53521	255	---	5	0.1	130							
53522	255	---	< 5	0.1	230							
53523	255	---	< 5	0.1	780							
53524	255	---	< 5	0.1	700							
53525	255	---	< 5	0.2	890							
53526	255	---	45	0.5	1000							
53527	255	---	40	0.2	760							
53528	255	---	70	0.2	1000							
53529	255	---	10	0.1	570							
53530	255	---	< 5	0.1	390							
53531	255	---	< 5	0.1	370							
53532	255	---	< 5	0.1	600							
53533	255	---	< 5	0.2	750							
53534	255	---	< 5	0.1	810							
53535	255	---	< 5	0.1	1000							
53536	255	---	< 5	0.1	1300							
53537	255	---	< 5	0.1	1000							
53538	255	---	< 5	0.1	690							
53539	255	---	< 5	0.1	1300							
53540	255	---	10	0.1	1100							

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Comments: ATTN: THOMAS H. HEINE CC: GRAHAM HUGHES

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CERTIFICATE OF ANALYSIS A8823400

SAMPLE DESCRIPTION	PREP CODE		Au ppb RUSH	Ag ppm Aqua R	Hg ppb
53541	255	---	5	0.1	680
53542	255	---	10	0.2	680
53543	255	---	< 5	0.1	860
53544	255	---	< 5	0.1	950
53545	255	---	30	0.2	670
53546	255	---	50	0.3	1100
53547	255	---	15	0.2	1000
53548	255	---	< 5	0.3	370
53549	255	---	< 5	0.1	350
53550	255	---	< 5	0.1	140
53551	255	---	< 5	0.1	140

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Project :
Comments: CC: THOMAS HEINE CC: GRAHAM HUGHES

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Invoice # :I-8823707
P.O. # :NONE

CERTIFICATE OF ANALYSIS A8823707

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb
53552	205	--	< 5	0.1	340
53553	205	--	20	0.3	870
53554	205	--	< 5	0.1	770
53555	205	--	< 5	0.1	110
53556	205	--	< 5	0.1	540
53557	205	--	< 5	0.1	580
53558	205	--	< 5	0.1	600
53559	205	--	5	0.1	780
53560	205	--	< 5	0.1	1000
53561	205	--	< 5	0.1	600
53562	205	--	< 5	0.1	1700
53563	205	--	10	0.1	930
53564	205	--	< 5	0.1	510
53565	205	--	< 5	0.1	970
53566	205	--	< 5	0.1	490
53567	205	--	15	0.2	900
53568	205	--	< 5	0.2	840
53569	205	--	< 5	0.1	640
53570	205	--	< 5	0.1	550
53571	205	--	< 5	0.1	900
53572	205	--	< 5	0.1	1200
53573	205	--	< 5	0.1	830
53574	205	--	< 5	0.1	510
53575	205	--	< 5	0.1	510
53576	205	--	< 5	0.1	770
53577	205	--	< 5	0.1	920
53578	205	--	10	0.1	1500
53579	205	--	15	0.2	4900
53580	205	--	< 5	0.1	1600
53581	205	--	< 5	0.1	710
53582	205	--	10	0.1	1600
53583	205	--	< 5	0.1	580
53584	205	--	< 5	0.1	920
53585	205	--	< 5	0.1	370
53586	205	--	< 5	0.1	220
53587	205	--	< 5	0.1	450
53588	205	--	< 5	0.1	590
53589	205	--	10	0.2	700
53590	205	--	< 5	0.1	560
53591	205	--	< 5	0.2	750

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CERTIFICATE OF ANALYSIS A8823707

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb
53592	205	--	< 5	0.2	450
53593	205	--	< 5	0.1	930
53594	205	--	10	0.2	720
53595	205	--	10	0.1	510
53596	205	--	< 5	0.1	150
53597	205	--	< 5	0.1	170
53598	205	--	< 5	0.1	90
53599	205	--	< 5	0.1	90
53600	205	--	< 5	0.2	280
53601	205	--	< 5	0.1	460
53602	205	--	< 5	0.2	400
53603	205	--	< 5	0.4	230
53604	205	--	< 5	0.2	170
53605	205	--	< 5	0.1	70
53606	205	--	< 5	0.1	50
53607	205	--	< 5	0.1	100
53608	205	--	< 5	0.1	110
53609	205	--	< 5	0.1	220
53610	205	--	< 5	0.2	220
53611	205	--	< 5	0.2	120

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CERTIFICATE OF ANALYSIS A8823708

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb
44001	205	--	< 5	0.3	500
44002	205	--	< 5	0.2	700
44003	205	--	< 5	0.2	800
44004	205	--	20	0.5	260
44005	205	--	< 5	0.2	370
44006	205	--	< 5	0.2	630
44007	205	--	< 5	0.2	670
44008	205	--	< 5	0.2	580
44009	205	--	< 5	0.2	520
44010	205	--	< 5	0.2	330
44011	205	--	< 5	0.2	200
44012	205	--	< 5	0.2	80
44013	205	--	< 5	0.2	50
44014	205	--	< 5	0.2	20
44015	205	--	< 5	0.1	20
44016	205	--	< 5	0.2	20
44017	205	--	< 5	0.1	20
44018	205	--	< 5	0.1	30
44019	205	--	< 5	0.1	20
44020	205	--	< 5	0.2	30
44021	205	--	5	0.2	50
44022	205	--	10	0.2	50
44023	205	--	< 5	0.2	80
44024	205	--	< 5	0.2	110
44025	205	--	< 5	0.1	540
44026	205	--	< 5	0.1	190
44027	205	--	< 5	0.1	190
44028	205	--	< 5	0.2	410
44029	205	--	10	0.2	450
44030	205	--	15	0.1	250
44031	205	--	< 5	0.1	130
44032	205	--	5	0.2	170
44033	205	--	< 5	0.1	510
44034	205	--	< 5	0.3	710
44035	205	--	< 5	0.1	560
53612	205	--	35	0.2	180
53613	205	--	15	0.3	120
53614	205	--	< 5	0.1	50
53615	205	--	15	0.1	90
53616	205	--	< 5	0.2	160

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CERTIFICATE OF ANALYSIS A8823708

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb							
53617	205	---	< 5	0.1	250							
53618	205	---	< 5	0.1	130							
53619	205	---	< 5	0.1	250							
53620	205	---	< 5	0.2	410							
53621	205	---	< 5	0.1	210							
53622	205	---	< 5	0.1	270							
53623	205	---	< 5	0.1	240							
53624	205	---	< 5	0.1	280							
53625	205	---	< 5	0.1	170							
53626	205	---	< 5	0.1	160							
53627	205	---	< 5	0.1	100							
53628	205	---	< 5	0.1	60							
53629	205	---	< 5	0.1	30							
53630	205	---	< 5	0.1	20							
53631	205	---	< 5	0.1	20							
53632	205	---	< 5	0.1	20							
53633	205	---	< 5	0.1	10							
53634	205	---	< 5	0.1	20							
53635	205	---	< 5	0.1	20							
53636	205	---	< 5	0.1	40							
53637	205	---	< 5	0.1	60							
53638	205	---	< 5	0.1	80							
53639	205	---	< 5	0.1	100							
53640	205	---	< 5	0.1	170							
53641	205	---	< 5	0.1	90							
53642	205	---	< 5	0.1	90							
53643	205	---	< 5	0.1	90							
53644	205	---	< 5	0.1	80							
53645	205	---	< 5	0.1	70							
53646	205	---	< 5	0.1	60							
53647	205	---	10	0.1	70							
53648	205	---	< 5	0.1	60							
53649	205	---	< 5	0.1	70							
53650	205	---	< 5	0.1	70							
53651	205	---	< 5	0.1	70							
53652	205	---	< 5	0.1	20							
53653	205	---	15	0.2	40							
53654	205	---	15	0.1	70							
53655	205	---	< 5	0.1	60							
53656	205	---	< 5	0.1	50							

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P.O. # :NONE

Project :
Comments: ATTN:DOUG COCHRANE CC:THOMAS H. HEINE CC:FAX RESULTS

CERTIFICATE OF ANALYSIS A8824274

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb
44092	205	--	15	1.6	30
44093	205	--	10	0.6	50
44094	205	--	10	0.5	30
44095	205	--	< 5	0.3	20
44096	205	--	< 5	0.2	40
44097	205	--	< 5	0.1	190
44098	205	--	< 5	0.1	130
44099	205	--	< 5	0.2	50
44100	205	--	< 5	0.1	40
44301	205	--	< 5	0.2	50
44302	205	--	< 5	0.1	80
44303	205	--	< 5	0.2	50
44304	205	--	< 5	0.1	30
44305	205	--	< 5	0.1	10
44306	205	--	< 5	0.1	40
44307	205	--	< 5	0.2	20
44308	205	--	< 5	0.1	30
44309	205	--	< 5	0.1	80
44310	205	--	< 5	0.2	140
44311	205	--	< 5	0.1	140
44312	205	--	< 5	0.1	120
44313	205	--	< 5	0.1	130
44314	205	--	< 5	0.2	140
44315	205	--	< 5	0.1	200
44316	205	--	< 5	0.2	100
44317	205	--	15	0.2	120
44318	205	--	< 5	0.1	80
44319	205	--	< 5	0.1	90
44320	205	--	< 5	0.2	140
44321	205	--	< 5	0.1	70
44322	205	--	< 5	0.2	50
44323	205	--	< 5	0.1	150
44324	205	--	< 5	0.1	80
44325	205	--	10	0.3	100
44326	205	--	< 5	0.3	770
44327	205	--	< 5	0.1	200
44328	205	--	< 5	0.1	240
44329	205	--	< 5	0.2	140
44330	205	--	< 5	0.2	100
44331	205	--	< 5	0.1	90

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Project :

Comments: ATTN:DOUG COCHRANE CC:THOMAS H. HEINE CC:FAX RESULTS

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CERTIFICATE OF ANALYSIS · A8824274

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb
44332	205	--	< 5	0.1	80
44333	205	--	< 5	0.2	340
44334	205	--	< 5	0.2	110
44335	205	--	< 5	0.6	260
44336	205	--	5	1.9	240
44611	205	--	< 5	0.3	130
44612	205	--	< 5	0.6	110
44613	205	--	< 5	0.2	90
44614	205	--	< 5	0.1	60
44615	205	--	< 5	0.7	310
44616	205	--	< 5	0.7	210
44617	205	--	< 5	0.2	60
44618 & 44619	205	--	< 5	0.1	90
44620	205	--	< 5	0.2	60
44621	205	--	20	0.2	50
44622	205	--	< 5	0.1	30
44623	205	--	< 5	0.1	50
44624	205	--	< 5	0.1	90
44625	205	--	< 5	0.1	70
44626	205	--	< 5	0.3	140
44627	205	--	< 5	0.1	290
44628	205	--	< 5	0.2	560
44629	205	--	< 5	0.1	520
44630	205	--	5	7.3	810
44631	205	--	< 5	0.4	630
44632	205	--	< 5	1.6	430
44633	205	--	< 5	0.4	920
44634	205	--	< 5	0.5	3300
44635	205	--	< 5	0.1	4200
44636	205	--	< 5	0.2	4500
44637	205	--	< 5	0.1	3900
44638	205	--	< 5	0.1	5100
44639	205	--	< 5	0.3	3200
44640	205	--	< 5	4.8	2600
44641	205	--	< 5	0.7	2700
44642	205	--	< 5	0.2	1800
44643	205	--	< 5	0.2	710
44644	205	--	< 5	0.3	450
44645	205	--	< 5	0.2	940
44646	205	--	< 5	0.4	2600

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Project :
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CERTIFICATE OF ANALYSIS A8824274

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb
44647	205	--	< 5	0.4	4500
44648	205	--	< 5	0.3	3900
44649	205	--	10	0.2	2400
44650	205	--	70	0.6	2200
44651	205	--	25	2.4	2700
44652	205	--	5	2.3	1900
44653	205	--	< 5	1.4	2300
44654	205	--	< 5	0.8	2800
44655	205	--	< 5	2.5	930
44656	205	--	< 5	5.0	730
44657	205	--	10	1.6	510
44658	205	--	< 5	0.7	1400
44659	205	--	< 5	0.3	1400
44660	205	--	< 5	0.6	210
44661	205	--	< 5	0.5	240
44662	205	--	< 5	0.6	610
44663	205	--	< 5	0.2	560
44664	205	--	< 5	0.4	4700
44665	205	--	< 5	0.2	60
44666	205	--	< 5	0.5	300
44667	205	--	< 5	0.3	580
44668	205	--	< 5	0.4	330
44669	205	--	< 5	0.2	560
44670	205	--	< 5	0.5	880
44671	205	--	< 5	0.4	510
44672	205	--	< 5	1.2	540

CERTIFICATION : Stewart Bichler

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Project :
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CERTIFICATE OF ANALYSIS A8824274

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	As ppm
44092	205	--	15	1.6	9
44093	205	--	10	0.6	16
44094	205	--	10	0.5	10
44095	205	--	< 5	0.3	10
44096	205	--	< 5	0.2	9
44097	205	--	< 5	0.1	15
44098	205	--	< 5	0.1	10
44099	205	--	< 5	0.2	4
44100	205	--	< 5	0.1	7
44301	205	--	< 5	0.2	3
44302	205	--	< 5	0.1	4
44303	205	--	< 5	0.2	4
44304	205	--	< 5	0.1	4
44305	205	--	< 5	0.1	4
44306	205	--	< 5	0.1	6
44307	205	--	< 5	0.2	4
44308	205	--	< 5	0.1	7
44309	205	--	< 5	0.1	7
44310	205	--	< 5	0.2	9
44311	205	--	< 5	0.1	9
44312	205	--	< 5	0.1	15
44313	205	--	< 5	0.1	7
44314	205	--	< 5	0.2	9
44315	205	--	< 5	0.1	20
44316	205	--	< 5	0.2	20
44317	205	--	15	0.2	61
44318	205	--	< 5	0.1	39
44319	205	--	< 5	0.1	48
44320	205	--	< 5	0.2	94
44321	205	--	< 5	0.1	19
44322	205	--	< 5	0.2	39
44323	205	--	< 5	0.1	17
44324	205	--	< 5	0.1	19
44325	205	--	10	0.3	81
44326	205	--	< 5	0.3	27
44327	205	--	< 5	0.1	12
44328	205	--	< 5	0.1	50
44329	205	--	< 5	0.2	41
44330	205	--	< 5	0.2	27
44331	205	--	< 5	0.1	29

CERTIFICATION : Hart Bichler

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CERTIFICATE OF ANALYSIS A8824274

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	As ppm
44332	205	--	< 5	0.1	19
44333	205	--	< 5	0.2	29
44334	205	--	< 5	0.2	9
44335	205	--	< 5	0.6	39
44336	205	--	5	1.9	12
44611	205	--	< 5	0.3	59
44612	205	--	< 5	0.6	32
44613	205	--	< 5	0.2	22
44614	205	--	< 5	0.1	11
44615	205	--	< 5	0.7	81
44616	205	--	< 5	0.7	107
44617	205	--	< 5	0.2	38
44618 & 44619	205	--	< 5	0.1	29
44620	205	--	< 5	0.2	22
44621	205	--	20	0.2	32
44622	205	--	< 5	0.1	14
44623	205	--	< 5	0.1	9
44624	205	--	< 5	0.1	11
44625	205	--	< 5	0.1	32
44626	205	--	< 5	0.3	9
44627	205	--	< 5	0.1	32
44628	205	--	< 5	0.2	17
44629	205	--	< 5	0.1	12
44630	205	--	5	7.3	36
44631	205	--	< 5	0.4	27
44632	205	--	< 5	1.6	19
44633	205	--	< 5	0.4	20
44634	205	--	< 5	0.5	24
44635	205	--	< 5	0.1	38
44636	205	--	< 5	0.2	36
44637	205	--	< 5	0.1	20
44638	205	--	< 5	0.1	107
44639	205	--	< 5	0.3	88
44640	205	--	< 5	4.8	73
44641	205	--	< 5	0.7	43
44642	205	--	< 5	0.2	24
44643	205	--	< 5	0.2	36
44644	205	--	< 5	0.3	77
44645	205	--	< 5	0.2	45
44646	205	--	< 5	0.4	53

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CERTIFICATE OF ANALYSIS A8824274

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	As ppm							
44647	205	--	< 5	0.4	175							
44648	205	--	< 5	0.3	100							
44649	205	--	10	0.2	50							
44650	205	--	70	0.6	36							
44651	205	--	25	2.4	77							
44652	205	--	5	2.3	25							
44653	205	--	< 5	1.4	39							
44654	205	--	< 5	0.8	23							
44655	205	--	< 5	2.5	15							
44656	205	--	< 5	5.0	20							
44657	205	--	10	1.6	14							
44658	205	--	< 5	0.7	9							
44659	205	--	< 5	0.3	14							
44660	205	--	< 5	0.6	9							
44661	205	--	< 5	0.5	5							
44662	205	--	< 5	0.6	6							
44663	205	--	< 5	0.2	22							
44664	205	--	< 5	0.4	63							
44665	205	--	< 5	0.2	99							
44666	205	--	< 5	0.5	10							
44667	205	--	< 5	0.3	5							
44668	205	--	< 5	0.4	6							
44669	205	--	< 5	0.2	7							
44670	205	--	< 5	0.5	25							
44671	205	--	< 5	0.4	36							
44672	205	--	< 5	1.2	6							

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Date : 2-OCT-88
Invoice # : I-8824804
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8824804

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb							
44337	205	--	15	0.7	350							
44338	205	--	15	3.4	160							
44339	205	--	15	2.1	120							
44340	205	--	< 5	1.0	150							
44341	205	--	< 5	1.0	290							
44342	205	--	85	3.6	200							
44343	205	--	< 5	1.2	480							
44344	205	--	5	1.7	340							
44345	205	--	< 5	0.5	240							
44346	205	--	25	1.4	330							
44347	205	--	35	0.8	220							
44348	205	--	10	0.9	110							
44349	205	--	< 5	0.7	130							
44350	205	--	< 5	0.1	180							
44351	205	--	< 5	0.1	150							
44352	205	--	< 5	0.1	50							
44353	205	--	< 5	0.1	410							
44354	205	--	5	0.1	320							
44355	205	--	< 5	0.1	310							
44356	205	--	< 5	0.1	180							
44357	205	--	< 5	0.1	70							
44358	205	--	25	0.1	500							
44359	205	--	20	0.3	420							
44360	205	--	< 5	0.1	80							
44361	205	--	< 5	0.1	90							
44362	205	--	< 5	0.1	130							
44363	205	--	< 5	0.1	220							
44364	205	--	< 5	0.1	100							
44365	205	--	10	0.1	140							
44366	205	--	5	0.1	590							
44367	205	--	< 5	0.1	250							
44368	205	--	5	0.1	290							
44369	205	--	< 5	0.1	120							
44370	205	--	< 5	0.1	60							
44371	205	--	< 5	0.1	60							
44372	205	--	< 5	0.1	60							
44373	205	--	< 5	0.1	130							
44374	205	--	< 5	0.1	90							
44375	205	--	< 5	0.1	90							
44376	205	--	< 5	0.1	40							

CERTIFICATION : Stuart Buchler

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Date : 12-OCT-88
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CERTIFICATE OF ANALYSIS A8824804

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb
44377	205	--	< 5	0.1	90
44378	205	--	< 5	0.1	150
44379	205	--	< 5	0.1	110
44380	205	--	< 5	0.1	60
44381	205	--	< 5	0.1	150
44382	205	--	15	0.1	90
44383	205	--	< 5	0.1	120
44384	205	--	< 5	0.1	80
44385	205	--	< 5	0.1	80
44386	205	--	< 5	0.1	60
44387	205	--	< 5	0.1	60
44388	205	--	< 5	0.1	60
44389	205	--	< 5	0.1	70
44390	205	--	20	0.1	130
44391	205	--	< 5	0.1	100
44392	205	--	10	0.1	60
44393	205	--	< 5	0.1	180
44394	205	--	5	0.2	220
44395	205	--	< 5	0.3	200
44396	205	--	< 5	0.1	490
44397	205	--	< 5	0.1	260
44398	205	--	< 5	0.1	1800
44399	205	--	15	0.1	870
44400	205	--	< 5	0.1	520
44401	205	--	< 5	0.4	300
44402	205	--	< 5	0.1	120
44403	205	--	< 5	0.1	1200
44404	205	--	45	0.1	490
44405	205	--	85	0.3	740
44406	205	--	50	0.2	1800
44407	205	--	60	0.3	2000
44408	205	--	35	0.2	2800
44409	205	--	25	0.2	3400
44410	205	--	< 5	0.1	1200
44411	205	--	< 5	0.1	4100
44412	205	--	< 5	0.3	6100
44413	205	--	< 5	0.1	720
44414	205	--	< 5	0.1	1700
44415	205	--	< 5	0.1	500
44416	205	--	< 5	0.1	930

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CERTIFICATE OF ANALYSIS A8824804

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb
44417	205	--	< 5	0.1	800
44418	205	--	< 5	0.1	210
44419	205	--	< 5	0.1	220
44420	205	--	< 5	0.1	340
44421	205	--	45	0.1	410
44422	205	--	45	0.5	790
44423	205	--	15	0.2	2700
44424	205	--	< 5	0.1	1500
44425	205	--	20	0.3	820
44426	205	--	20	0.1	1100
44427	205	--	20	0.1	1000
44428	205	--	120	0.5	1400
44429	205	--	< 5	0.4	770

CERTIFICATION : Hart Bichler

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CERTIFICATE OF ANALYSIS A8824967

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb
44430	205	--	< 5	0.1	520
44431	205	--	< 5	0.1	780
44432	205	--	< 5	1.1	330
44433	205	--	< 5	0.1	330
44434	205	--	< 5	0.1	430
44435	205	--	< 5	0.1	430
44436	205	--	< 5	0.1	450
44437	205	--	< 5	0.1	220
44438	205	--	< 5	0.1	110
44439	205	--	< 5	0.1	60
44440	205	--	< 5	2.8	80
44441	205	--	< 5	0.1	80
44442	205	--	< 5	0.1	120
44443	205	--	< 5	0.1	110
44444	205	--	< 5	0.1	80
44445	205	--	< 5	0.1	50
44446	205	--	< 5	0.1	30
44447	205	--	< 5	2.4	70
44448	205	--	< 5	0.2	40
44449	205	--	< 5	0.1	40
44450	205	--	< 5	0.1	40
44551	205	--	< 5	0.1	40
44552	205	--	< 5	0.1	40
44553	205	--	< 5	0.1	40
44554	205	--	5	0.1	50
44555	205	--	< 5	0.1	50
44556	205	--	< 5	0.1	90
44557	205	--	< 5	0.1	140
44558	205	--	< 5	0.1	100
44559	205	--	< 5	0.1	200
44560	205	--	< 5	0.1	40
44561	205	--	< 5	0.1	50
44562	205	--	< 5	0.1	30
44563	205	--	< 5	0.1	130
44564	205	--	5	0.1	240
44565	205	--	< 5	0.1	190
44566	205	--	< 5	0.1	210
44567	205	--	< 5	0.1	180
44568	205	--	< 5	0.1	200
44569	205	--	< 5	0.1	130

CERTIFICATION : Ian Bickler

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Date 13-OCT-88
Invoice # :I-8824967
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CERTIFICATE OF ANALYSIS A8824967

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb
44570	205	--	< 5	0.1	210
44571	205	--	< 5	0.1	170
44572	205	--	< 5	0.1	260
44573	205	--	< 5	0.1	150
44574	205	--	< 5	0.1	190
44575	205	--	< 5	0.1	170
44576	205	--	< 5	0.1	900
44577	205	--	< 5	0.1	700
44578	205	--	< 5	0.1	310
44673	205	--	5	0.1	160
44674	205	--	< 5	0.1	170
44675	205	--	< 5	0.3	280
44676	205	--	< 5	0.1	150
44677	205	--	< 5	0.2	120
44678	205	--	< 5	0.3	120
44679	205	--	< 5	0.3	150
44680	205	--	< 5	0.1	70
44681	205	--	< 5	0.1	60
44682	205	--	20	0.1	80
44683	205	--	< 5	0.1	610
44684	205	--	< 5	0.1	200
44685	205	--	< 5	2.1	200
44686	205	--	< 5	2.1	150
44687	205	--	20	1.5	140
44688	205	--	10	0.9	140
44689	205	--	25	0.5	110
44690	205	--	10	0.2	530
44691	205	--	< 5	0.2	1200
44692	205	--	< 5	0.1	200
44693	205	--	< 5	0.1	210
44694	205	--	< 5	0.1	30
44695	205	--	< 5	0.1	70
44696	205	--	< 5	0.1	60
44697	205	--	< 5	0.1	40
44698	205	--	< 5	0.1	90
44699	205	--	25	0.1	60
44700	205	--	< 5	0.1	90
44701	205	--	< 5	0.1	50
44702	205	--	85	0.8	70
44703	205	--	< 5	0.3	230

CERTIFICATION : Bart Bichler

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Date 13-OCT-88
Invoice # :I-8824967
P.O. # :NONE

CERTIFICATE OF ANALYSIS A8824967

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb
44704	205	--	< 5	0.1	30
44705	205	--	65	1.7	100
44706	205	--	30	2.2	160
44707	205	--	5	1.0	140
44708	205	--	< 5	0.6	90
44709	205	--	< 5	0.1	1300
44710	205	--	< 5	0.1	2500
44711	205	--	< 5	0.1	1500
44712	205	--	< 5	0.1	430
44713	205	--	< 5	0.1	100
44714	205	--	< 5	0.1	140
44715	205	--	< 5	0.1	130
44716	205	--	< 5	0.1	180
44717	205	--	< 5	0.1	70
44718	205	--	< 5	0.1	40
44719	205	--	< 5	0.1	100
44720	205	--	5	0.1	130
44721	205	--	< 5	0.1	70
44722	205	--	40	0.1	60
44723	205	--	10	0.1	190
44724	205	--	10	0.1	180
44725	205	--	10	0.1	200
44726	205	--	< 5	0.1	190
44727	205	--	5	0.1	120
44728	205	--	10	0.1	60
44729	205	--	< 5	0.1	60
44730	205	--	< 5	0.1	50
44731	205	--	< 5	0.1	20
44732	205	--	< 5	0.1	150
44733	205	--	< 5	0.1	30
44734	205	--	< 5	0.1	20
44735	205	--	< 5	0.1	100
44736	205	--	< 5	0.1	20
44737	205	--	< 5	0.1	20
44738	205	--	< 5	0.1	80
44739	205	--	< 5	0.1	110
44740	205	--	20	0.1	130
44741	205	--	10	1.1	150
44742	205	--	< 5	0.1	140
44743	205	--	5	0.7	220

CERTIFICATION : Stewart Bichler

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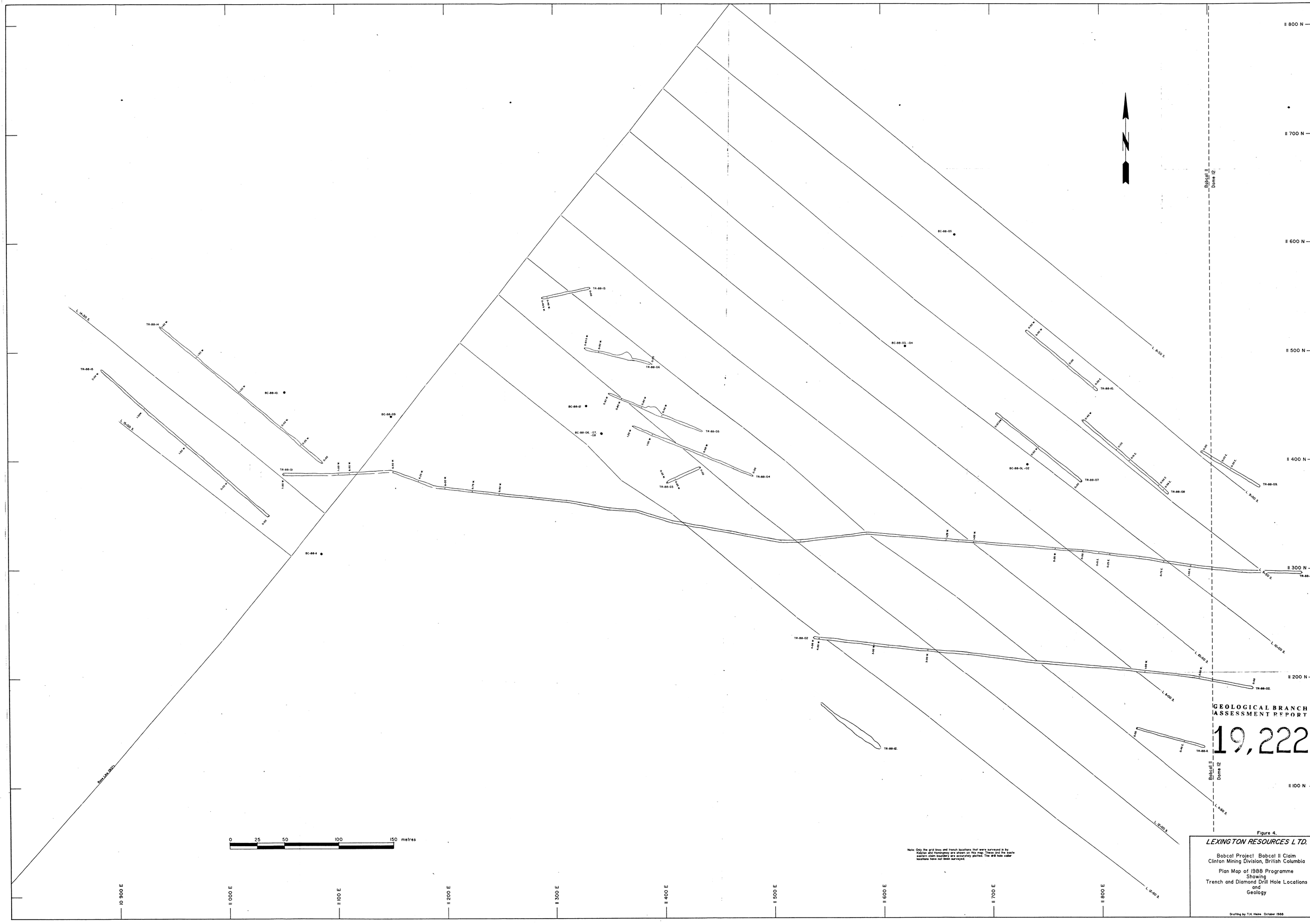
Invoice # I-8824967
P.O. # NONE

CERTIFICATE OF ANALYSIS A8824967

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Hg ppb
44744	205	--	< 5	0.1	150
44745	205	--	< 5	0.1	340
44746	205	--	< 5	0.1	770
44747	205	--	< 5	0.1	800
44748	205	--	< 5	0.1	1800
44749	205	--	< 5	0.1	1800
44750	205	--	< 5	0.1	90
44751	205	--	< 5	0.1	60
44752	205	--	< 5	0.2	50
44753	205	--	< 5	0.1	50
44754	205	--	< 5	0.4	130
44755	205	--	< 5	0.1	120
44756	205	--	< 5	0.1	70
44757	205	--	< 5	0.5	110
44758	205	--	5	1.2	140
44759	205	--	5	0.9	290
44760	205	--	15	0.9	250
44761	205	--	10	1.1	350
44762	205	--	10	1.4	210
44763	205	--	15	0.7	200
44764	205	--	15	0.7	270
44765	205	--	25	1.3	190

CERTIFICATION : Hart Bichler



Note: Only the grid lines and trench locations that were surveyed in by Kidston and Hemingway are shown on this map. These and the east eastern claim boundary are accurately plotted. The drill hole collar locations have not been surveyed.

GEOLOGICAL BRANCH
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Figure 4.

LEXINGTON RESOURCES LTD.

Bobcat Project Bobcat II Claim
Clinton Mining Division, British Columbia

Plan Map of 1988 Programme
Showing
Trench and Diamond Drill Hole Locations
and
Geology

Drafting by T.H. Heine October 1988