ASSESSMENT REPORT OF THE 1989

GROUND GEOPHYSICAL AND DIAMOND DRILLING PROGRAM

ON THE

PHIL 13 CLAIM GROUP

(PHIL 13 & 14, CHUCHI 1 & 2 Claims)

Omineca Mining Division
NTS 93N/7,8,1,2

Latitude 55°16'N Longitude 124°33'W

Owners: BP Resources Canada Limited
700-890 West Pender Street
Vancouver, B.C.
V6C 1K5

and: Digger Resources Inc.
Suite 915, Calgary House
550 - 6th Avenue S.W
Calgary, Alberta
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Operator: BP Resources Canada Limited

BPVR 89-6

R. H. Wong
March, 1990

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1. SUMMARY

The PHIL 13 claim group, comprising 58 units, is located on the north side of Chuchi Lake approximately 90 km north of Fort St. James in north-central B.C. The property is equally owned by BP Resources Canada Limited and Digger Resources Inc. and was the object of a 1989 program of work amounting to approximately $238,000.00.

Geologically, the property lies within the Quesnel Trough, a northwest-trending, fault-bounded belt underlain mainly by Upper Triassic-Lower Jurassic Takla Group volcanics and related alkalic intrusions. Where these intrusions are preserved within their co-magmatic volcanic strata, this environment has proven to be favourable for the occurrence of porphyry copper-gold deposits (e.g., Mt. Polley, Stikine Copper, Ingerbelle, Mt. Milligan).

From June 14 - October 23, 1989, totals of 31.4 line-km of cut grid, 30.0 line-km of ground magnetometer survey, 41.0 line-km of I.P. survey, and 1376.2 m of NQ diamond drilling were completed in an effort to determine the cause of multi-element and copper-gold soil geochemical anomalies.

Results of the I.P. survey within the multi-element zone soil anomaly indicated a number of discreet north to northwest-trending conductors coinciding closely with anomalous soil geochemical trends. Diamond drilling of 763.2 m in six holes was completed to test three of the conductive zones. Several narrow; structurally-

controlled zones of enhanced Ag-Pb-Zn-As, As-Pb-Zn, Pb-Zn-Ag-Au, Au-Ag-Cu, and As $\pm$ Ag were intersected which appear to correlate with the I.P. anomalies and which collectively may account for the disposition and nature of the multi-element soil anomaly. No further work is recommended in the multi-element zone.

I.P. and ground magnetometer surveys in the copper-gold zone indicate a very strong, west to northwest-trending I.P. chargeability anomaly partially wrapping around a cluster of discrete, 100-150 m diameter, pronounced magnetic highs. Diamond drilling of 613 m in three holes yielded significant intersections of copper-gold mineralization hosted within potassically-altered monzonite, diorite and hornfelsed tuffaceous siltstone. The best intersection was .28% Cu and .32 g/t Au over 100 m in drill hole 89-07. A systematic program of diamond drilling, comprising a minimum of twenty holes to approximately 160 m depth, is recommended to test targets derived from a comprehensive review of all pertinent data. In addition, the grid should be expanded to the north, south and west to close off existing geophysical anomalies.

2. INTRODUCTION

A. Location and Access

The PHIL 13 claim group is located at 55°16'north latitude and 124°33' west longitude in the Omineca Mining Division, 6 km north of Chuchi Lake and approximately 90 km north of Fort St. James, B.C. (NTS 93N/1,2,7,8, Figure 1).

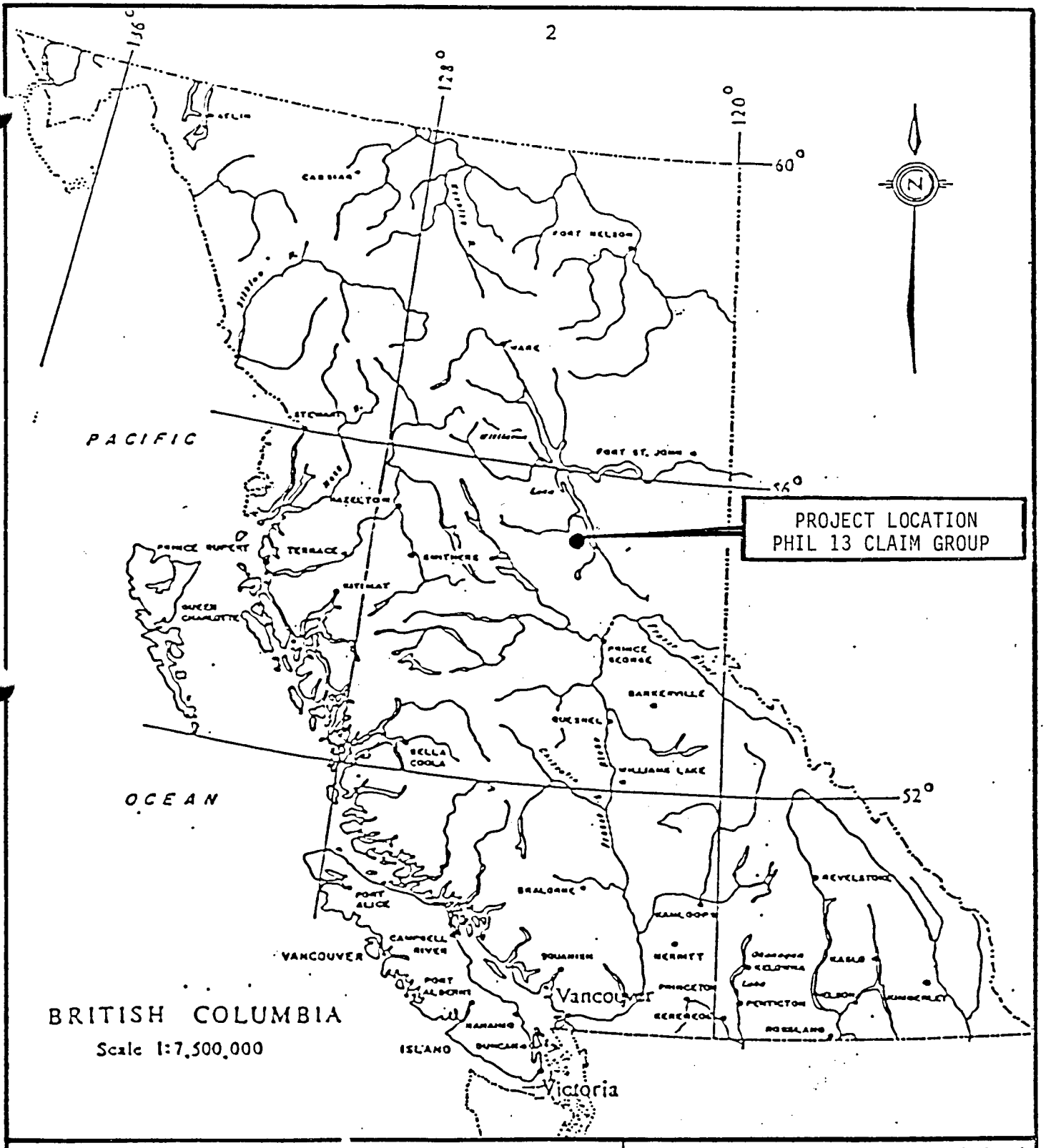
Access to the claims is by a 4 wheel drive road which extends 5 km beyond the end of the north branch of the Germansen-Indata logging road. This branch of the road is approximately 16 km west of mile 65.1 on the Fort St. James - Germansen Landing all-weather gravel road.

B. Topography and Vegetation

The claims enclose an area of rounded forest-covered mountains with U-shaped valleys and elevations ranging from 1275 m to 1654 m. Ridge tops are recessive and slopes rarely exceed 30°. Forest cover consists of spruce, balsam, jack pine and alder in valleys and on lower slopes giving way to scrubby balsam at higher elevations.

C. Claims Status

The PHIL 13 claim group (Figure 2) consists of four claims, equally owned by BP Resources Canada Limited and Digger Resources Inc., comprising 58 contiguous units listed as follows:



BP Resources Canada Limited
MINING DIVISION

LOCATION MAP

SCALE: As shown.		DRAWN BY:	FIG. 1
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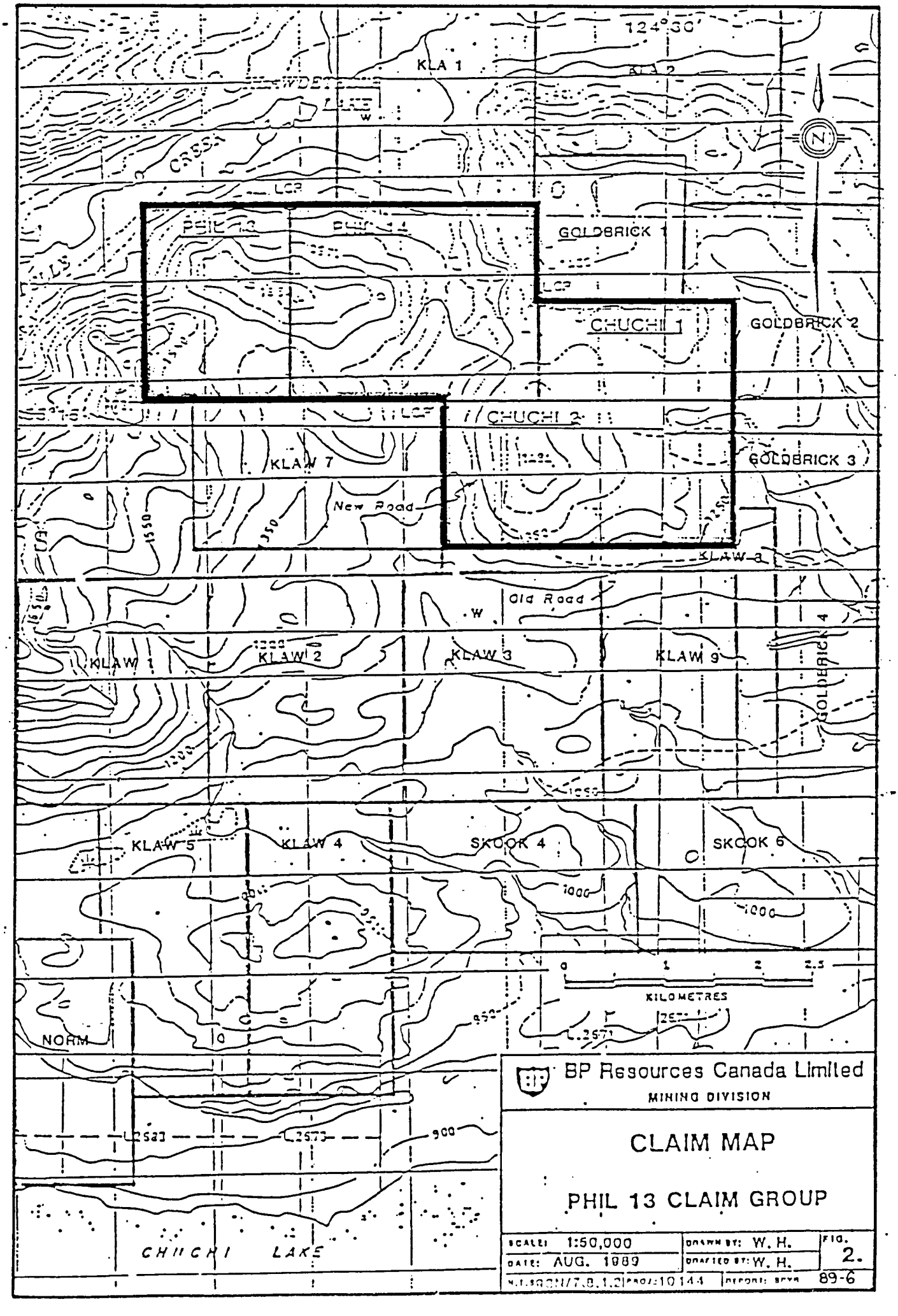
NTS 93N/1,2	PROJ. 540	REPORT BPVR	89-6


124°30'
KLA 1
KLA 2
CROSS
LCP
PHIL 3
PHIL 4
GOLDBRICK 1
CHUCHI 1
GOLDBRICK 2
CHUCHI 2
KLAW 7
GOLDBRICK 3
New Road
KLAW 8
Old Road
KLAW 1
KLAW 2
KLAW 3
KLAW 9
GOLDBRICK 4
KLAW 5
KLAW 4
SKOOK 4
SKOOK 6
1000
KILOMETRES
NORM
CHUCHI LAKE
BP Resources Canada Limited
MINING DIVISION
CLAIM MAP
PHIL 13 CLAIM GROUP
SCALE: 1:50,000
DRAWN BY: W. H.
FIG. 2.
DATE: AUG. 1989
DRAFTED BY: W. H.
N.T.S. 93N/7,8,1,2
PROJ: 10144
REPORT: 89-6

Claim	Units	Record No.	Recording Date	Expiry Date*
PHIL 13	12	6035	29/12/83	29/12/~~2000~~ 1991
PHIL 14	20	6036	29/12/83	29/12/~~2000~~ 1991
CHUCHI 1	8	7085	13/06/85	13/06/2000
CHUCHI 2	18	7086	13/06/85	13/06/2000

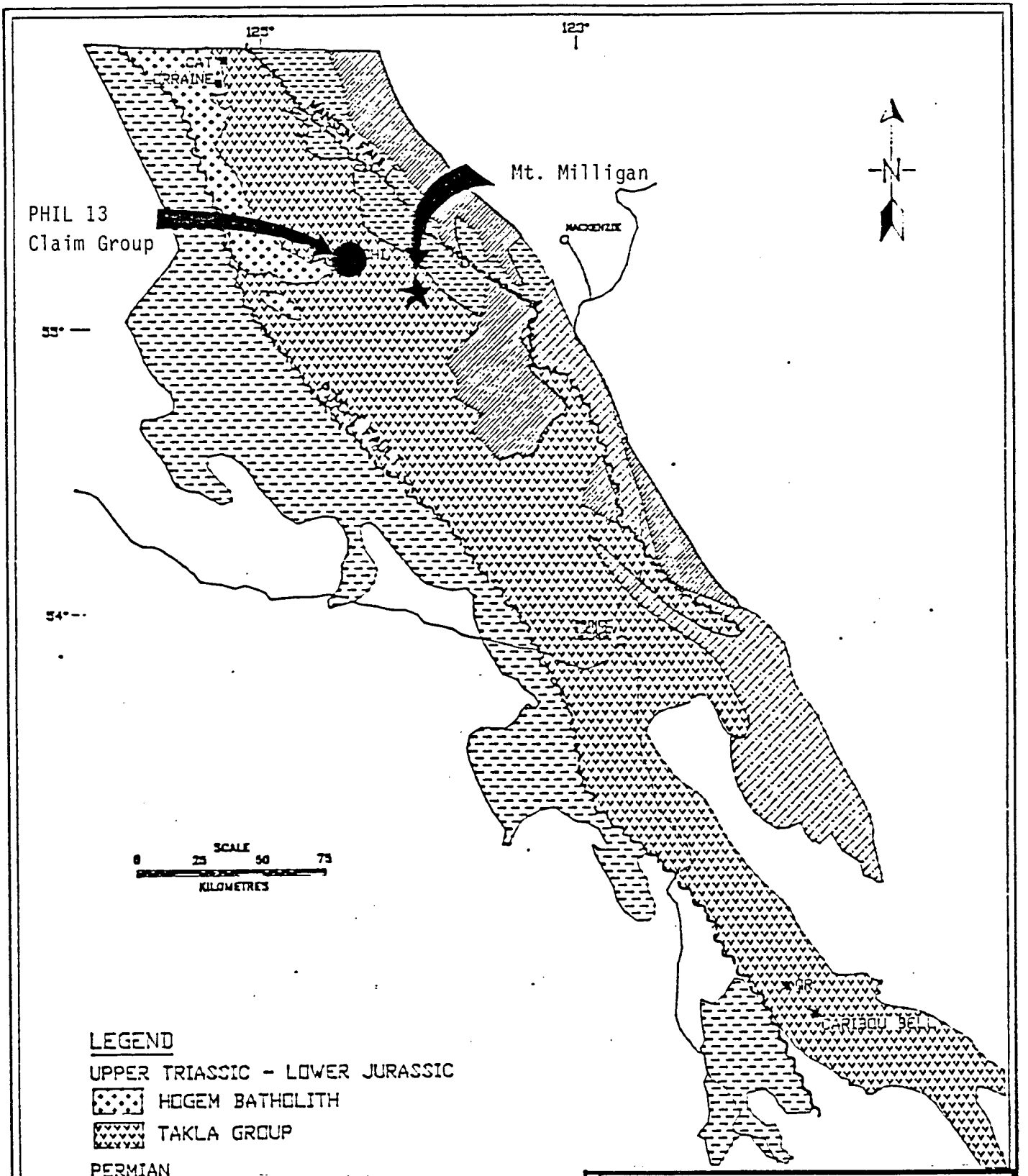
(* upon acceptance of applied assessment)

D. History

The PHIL 13 and 14 claims were staked in December 1983 as a result of the 1983 Takla regional exploration project (Farmer and Rebagliati, 1984). A high-contrast gold-copper±arsenic anomaly was located by a soil sampling survey in the area of a historically known copper prospect which was previously untested for gold. In 1984, a property-wide soil sampling survey (100 m x200 m grid) was carried out followed by preliminary geological mapping (1:5,000). The main geochemical anomaly, defined by copper-in-soil values >250 ppm and gold-in-soil values >25ppb, was confirmed and found to be spatially associated with high gold and copper in rock samples. A high-contrast multi-element anomaly was also located at the southeast corner of the property in an area of poor outcrop. This anomaly is defined by silver-in-soil values >1.0 ppm within which lead, zinc, arsenic, barium, copper, and gold levels are locally anomalous. The CHUCHI 1 and 2 claims were staked in this area to cover possible extensions of this anomaly.

3. REGIONAL GEOLOGY

The PHIL 13 claim group is situated in the central part of the Quesnel Trough, within the Intermontane Tectonic Belt of the Canadian Cordillera. The Quesnel Trough assemblage consists principally of Upper Triassic-Lower Jurassic Takla Group volcanic and sedimentary rocks which are correlative with the Nicola Group in southern B.C. and the Stuhini Group in northern B.C. (Richards, 1976, Monger, 1977). The volcanic rocks are island-arc type calc-alkaline to alkaline pyroxene-rich flows and volcaniclastic rocks of predominantly submarine origin. They are interlayered with volcanic-derived greywacke and siltstone, with minor limestone and conglomerate. The assemblage was intruded by the Jura-Cretaceous Omineca intrusions, principally the Hogem Batholith as well as smaller intrusions of acid to alkaline affinity, some of which are considered to be co-magmatic with the Takla Group. Northwest and northeast trending transcurrent and block faulting and minor folding have offset and juxtaposed major sections of the volcanic stratigraphy into contact with the intrusive and sedimentary rocks (Figure 3).



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REGIONAL GEOLOGY

SCALE: As shown.		DRAWN BY:	FIG. 3
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4. PROPERTY GEOLOGY

Lithologies

Description of property geology is taken largely from the report by Meyers, et al, 1985, which summarized the most recent systematic surface mapping program. Amendments to this surface mapping, based on the 1989 geophysics and diamond drilling, have been incorporated here and in Figure 4, and are also described in more detail in Chapters 5 and 6.

The claim area lies on the northeastern flank of the Chuchi Lake syenite body which cuts across the southwest corner of the PHIL 13 claim. Elsewhere on the property, underlying rocks consist mainly of Takla Group flows and volcaniclastics of basaltic to trachytic composition. Locally, these Takla Group rocks have been intruded by small dykes, sills and stocks of monzonitic to dioritic composition considered to be satellitic to the Chuchi Lake syenite.

In the area of the copper-gold zone where most of the outcrop occurs, three main stratigraphic units of the Takla Group were outlined by Heberlein, et al, 1984. These include a lower unit of augite and/or feldspar porphyritic flows and their tuffaceous equivalents, a middle unit of thinly-bedded ash tuff-siltstone, and an upper unit of augite+feldspar porphyry flows and tuffs. These rocks appear to be andesitic to basaltic in composition. The lower and upper augite-bearing units are generally similar in texture and composition, although the upper unit appears to have a significant proportion of non-porphyritic and plagioclase-rich flows. The

thinly-laminated tuff-siltstone of the middle unit is typical of waterlain tuffs evident elsewhere in the Takla Group. These rocks have been regionally metamorphosed to greenschist facies with local biotite hornfels developed adjacent to the intrusive bodies.

Central to the copper-gold zone, hornblende and plagioclase porphyritic, magnetite-rich diorite and monzonite intrusions occur. The ground magnetics survey and limited diamond drilling indicates that diorite comprises a circular stock 150-200 m in diameter. The presence of at least two more smaller bodies of diorite is inferred from the ground magnetics. Equigranular, pyritic monzonite constitutes an apparently younger intrusive phase which partially rims the diorite and also occurs as dyke or sill-like bodies within the volcanics and sediments.

Very little outcrop is present in the area of the large multi-element anomaly zone. The ridge immediately east and upslope of the anomalous zone appears to be capped by an east-dipping unit of strongly magnetic, augite porphyritic trachyte flow. Diamond drilling suggests that much of the anomalous zone is underlain by a gently east to southeast-dipping sequence of andesitic to trachytic flows and tuffs cut by minor dykes of dioritic to monzonitic composition.

B. Structure

The structural geology on the property is poorly defined due to the lack of outcrop and the abundance of massive intrusive rocks.

Outcrop of bedded tuffs indicate northerly strikes with steep to intermediate easterly dips. The most prominent feature is a northeast trending fault which passes through the main gold showing on the PHIL 14 claim. There is no direct evidence of offset along the fault and detailed mapping in trenches suggest that it is more likely to be a localized set of conjugate shears. Several other easterly-trending creek valleys and depressions may also represent faults or shear zones.

A major fault, probably trending in a northerly direction, is thought to underlie the western edge of the multi-element zone. This is deduced from examination of low-level aeromagnetic and ground magnetic data, and the occurrence of extensive shearing in drill core from this area. This structure appears to separate sub-alkaline (andesite-basalt) volcanics on the west from alkaline (andesite-latite-trachyte) volcanics on the east.

C. Mineralization and Alteration

Due to poor bedrock exposures in the multi-element anomaly area, the nature of the bedrock source for the metals could not previously be determined. Results of diamond drilling in this area, discussed in greater detail in Chapter 6, suggest that several phases of mineralization are present, mainly occurring as narrow shear fillings within zones of extensive faulting hosted mainly by alkalic volcanics. Metallic associations include Ag-Pb-Zn-As, As-Pb-Zn, Pb-Zn-Ag-Au, Au-Ag-Cu, and As$\pm$Ag.

Trenching in the copper-gold zone in 1985 revealed sections of plagioclase porphyritic andesite, augite porphyry and thinly-bedded ash tuff-siltstone, which are intruded by pervasively-altered diorite and monzonite. The hornfelsed ash tuff-siltstone displays the weakest hydrothermal alteration with minor chlorite and sericite and a few scattered cross-cutting pyrite veinlets. Sections adjacent to diorite contacts are weakly silicified with 2-3% pyrite disseminated along bedding planes. Andesite and augite porphyry display alteration somewhat more prominently. Pervasive sericite-chlorite+quartz+k-feldspar+Fe-carbonate alteration is variably weak to moderate with localized k-feldspar-quartz-epidote-Fe- carbonate-pyrite veining. An earlier biotite-tremolite-actinolite assemblage in the augite porphyry is likely a result of contact metamorphism.

Superimposed on the widespread pervasive alteration assemblage is a narrow zone of highly fractured and intensely altered rocks. The zone is oriented east-west, subparallel or conjugate to the northeast-trending fault. Quartz, Fe-carbonate and calcite form strong to intense pervasive alteration and veining. Disseminated pyrite, magnetite and chalcopyrite occur within and adjacent to the zone in variable amounts and proportions locally up to 5%. Minor k-feldspar, epidote and secondary biotite are also associated with the mineralization.

Results of diamond drilling in the copper-gold zone are discussed in Chapter 6.

5. GEOPHYSICS

A. Induced Polarization-Resistivity Surveys

Induced polarization-resistivity surveys were conducted over the multi-element zone and the copper-gold zone by Terra Surveys Ltd. and Lloyd Geophysics Limited.

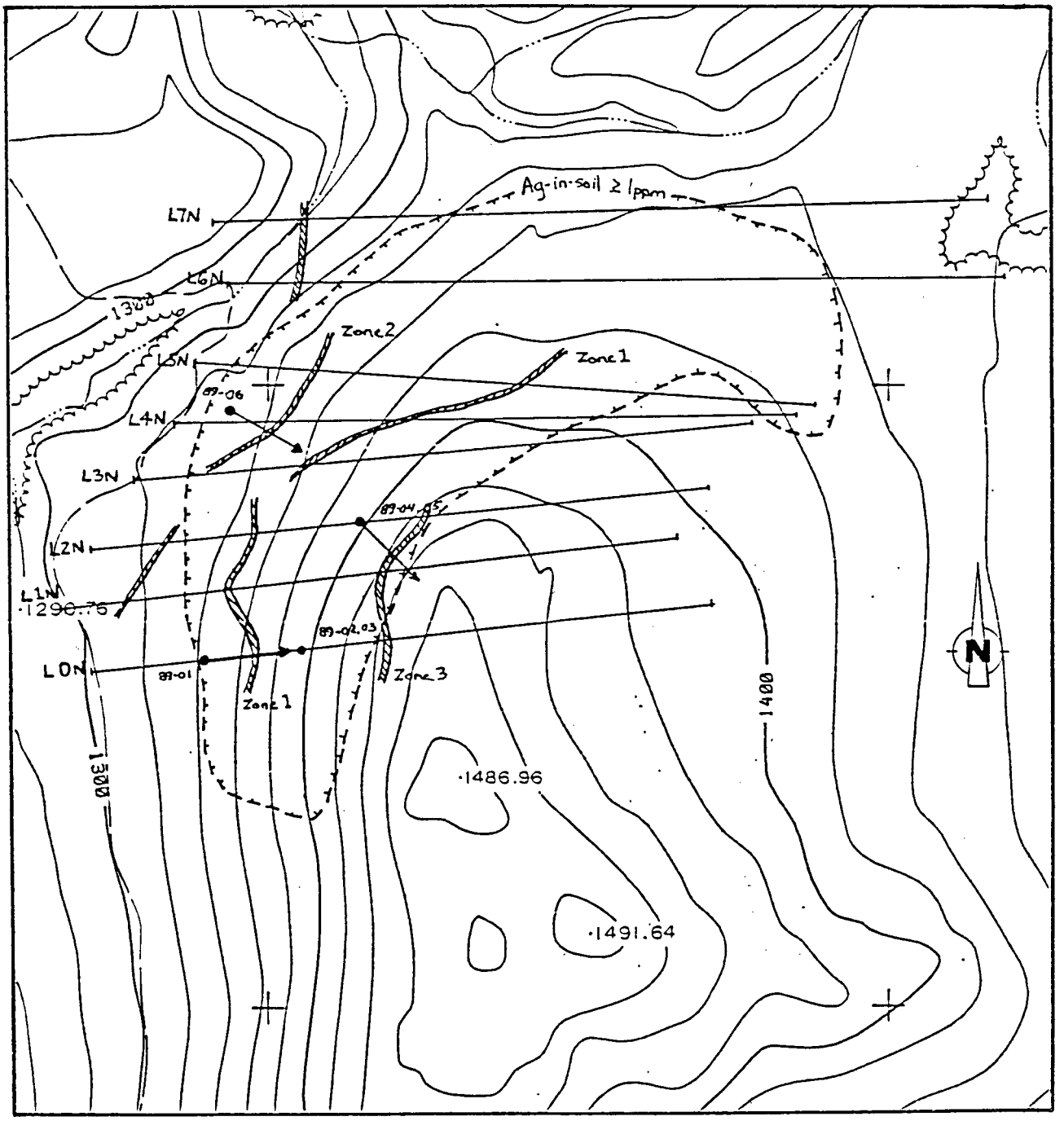
The Terra survey was carried out from June 14-23 on compass-topofil-blazed lines run by the geophysical crew. The Lloyd survey, completed from September 6-24, was carried out mainly on a cut grid contracted to Grassroots Enterprises Ltd.

i) Multi-Element Zone Survey

During the period June 14-23, 1989 Terra Surveys completed 9.2 line-km of IP resistivity survey on eight lines (Lines 0N to 7N) over a portion of the multi-element soil geochemical anomaly (Figure 5). In addition, two short lines, comprising 1.8 line-km, were completed over the central portion of the copper-gold zone. Results from these two lines are discussed in section 5.A)ii.

An IPR11 time domain receiver and Elliot 1.5 kw time domain transmitter was used with a 2 second on/off time.

In the multi-element zone, one line was surveyed using 25 meter "a" spacing and "n" values of 1 to 5. The remainder of the survey used 50 meter "a" spacing and "n" values of 1 to 4. The larger spacing was deemed acceptable for the target



89-01 ●→ Diamond drill hole

Zone1 IP conductor

Outline of Ag-in-soil anomaly (≥ 1 ppm)

Scale 1 : 10 000

200 100 0 200 400

METRES

BP Resources Canada Limited
MINING DIVISION

MULTI-ELEMENT ZONE
I.P. SURVEY

SCALE: As shown.		DRAWN BY:	FIG. 5
DATE: mar/90	REV.:	DRAFTED BY:	
NTS 91N/2E	PROJ 10144	REPORT BPVR	89-6

sizes involved.

Results and recommendations from this survey, based on interpretation by A. Wynne, geophysicist for Terra Surveys, are as follows:

LINES 0N-7N

This survey area exhibits a general pattern of low resistivity (100 to 1000 ohm-meters) and low chargeability (10 msec). A series of weak anomalies with chargeabilities about 2X background trend across the grid at about 010 degrees. These anomalies are consistent with low sulphide bearing volcanics and exhibit poor resistivity signatures. Pseudo-sections (Figures 6-13) are included in the pocket. The anomalies are listed with assumed line to line correlations. The co-ordinates given are the anomaly centres.

	ZONE 1	ZONE 2	ZONE 3	ZONE 4
LINE 0+00N	275E		500E	
LINE 1+00N	275E	125E	550E	
LINE 2+00N	275E	125E	525E	
LINE 3+00N	300E	150E	550E	
LINE 4+00N	450E	175E		
LINE 5+00N	550E	200E		
LINE 6+00N				125E
LINE 7+00N				150E

The strongest discrete zone evident on this grid is line 0+00N/275E. This zone may dip to the west.

The survey succeeded in showing major rock changes and in locating 6 discreet weak anomalous chargeability zones in a low sulphide environment.

Drill testing of the best zone, designated zone 1 at line 0+00N, is recommended.

ii) Copper-Gold Zone Survey

The copper-gold geochemical anomaly zone was covered by 31.4 line-km of cut grid (15 lines @ 2.0 km plus 1.4 km base-line) (Figure 14). Lloyd Geophysics carried out the I.P.-resistivity survey on this grid utilizing a time domain measuring system with a pole-dipole array, an "a" spacing of 50 m, and "n" values of 1 to 4. Further details of the technical aspects of the system, along with resultant plots and interpretations are included in Appendix III.

General results from this survey indicate a very strong, west-northwest-trending I.P. anomaly, 1300 m long and 450 to 800 m wide, suggesting the presence of a strong sulphide system. Lloyd recommends a 24 hole diamond drilling program to test this anomaly. Some additional surveying is recommended to close off the anomalous zone.

The two lines surveyed by Terra (Lines 13+00N and 14+00N) prior to the line-cutting and Lloyd survey correlate with lines 113N and 114N on the Lloyd survey (Figure 15 and 16, in

pocket). Terra's interpretation of results from these two lines is as follows:

LINES 13+00N.14+00N

This survey area exhibits much higher resistivities, (2000-1000 ohm-meters) indicating a different geological environment than in the multi-element zone. The western extent of these lines end in a layered, high chargeability, high resistivity environment, most likely an intrusive. This zone starts at 950W/13N,900W/14N.

A weak anomaly (zone 5) is located at 550W/13N,575W/14N. In addition, at 800W/13N there is a stronger, one line response which may be a contact-related phenomena. The short strike length and location 100 meters from a possible intrusive make it an interesting target.

B) Ground Magnetometer Survey - Copper-Gold Zone

Coincident with their copper-gold zone I.P. survey, Lloyd Geophysics completed a ground magnetometer survey. Details of the equipment utilized, survey specifications, and resultant total field magnetic contour (Figure 17) map are included in Appendix III.

The survey indicates a series of discrete north-south trending magnetic highs, individually from 100 - 150 m in diameter. These are interpreted to reflect small, magnetite-rich, intrusive plugs. The main zone of magnetic highs occurs

central to the grid and straddles the northeastern edge of the large I.P. anomaly.

Near the eastern edge of the grid is a major north-south trending magnetic low which is interpreted to represent a major structural break.

6. DIAMOND DRILLING

From August 27 - October 3, 1989, Advance Diamond Drilling of Smithers, B.C. completed 1376.2 m of NQ diamond drilling in nine holes at a total cost of $109,450.

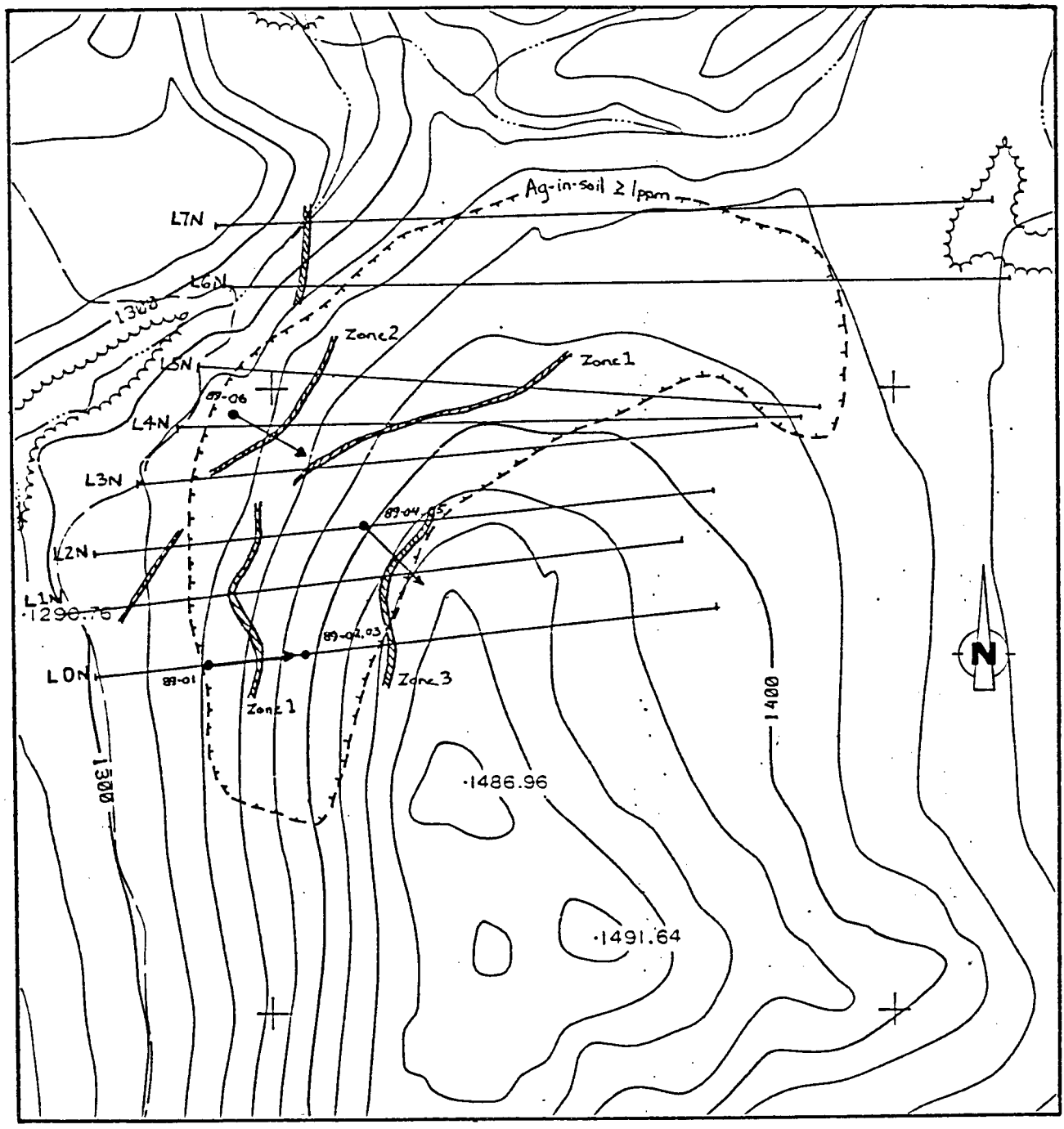
Six drill holes totalling 763.2 m were located to test targets in the multi-element zone, while three holes totalling 613 m were completed in the copper-gold zone.

Drill core was split, logged and stored on the property. Split core was sampled over 2 m intervals with continuous samples taken in sections of visual interest. Drill logs are included in Appendix IV. Results for 30 element ICP and geochemical Au analysis, conducted by Acme Analytical Laboratories in Vancouver, are given in Appendix V.

A) Multi-Element Zone

Drilling in the multi-element zone was intended to test coincident I.P. conductors and geochemical anomalies (Figure 18).

Drill hole 89-01, was drilled -45^{0} east on line 0N in order to test the strongest conductor from Terra's survey (zone 1) in an area with Ag-in-soil values up to 9.7 ppm. The drill hole cut mainly latitic flows and fragmentals with subordinate andesitic and trachytic units (Figure 19). Two zones of alkalic intrusive rock were intersected: from 50.0-62.0 m is



89-01 ●→ Diamond drill hole

Zone1 IP Conductor

Outline of Ag-in-soil anomaly (≥ 1 ppm)

Scale 1 : 10 000

200 100 0 200 400

METRES

BP Resources Canada Limited
MINING DIVISION

MULTI-ELEMENT ZONE
DRILL HOLE LOCATIONS

SCALE: As shown.		DRAWN BY:	FIG.
DATE: Mar 90	REV.:	DRAFTED BY:	18
N.T.S. 93N/1,2,7,8	PROJ.: 10144	REPORT: BPVR	89-6

a hybrid zone of intermixed latite and syenmonzonite; and from 156.0-157.2 m is a narrow syenomonzonite dyke.

The drill hole is marked by five zones of shearing where recoveries may be as little as 35% over two metres. Overall recoveries average 90%.

K-feldspar, which is relatively abundant in the volcanic rocks, is considered to be primary in origin for the most part, but adjacent to the hybrid zone a significant proportion of secondary k-feldspar undoubtedly occurs. In stained samples, k-feldspar is invariably pervasive either in the matrix or more commonly in clasts. Lack of k-feldspar veining and fracture-filling is noteworthy. From 115.0-156.0 m is a fragmental unit varying in composition from andesite to trachyte. The variable k-feldspar content of this unit could be related to secondary k-feldspar alteration.

A narrow, strongly magnetic dyke of augite-feldspar porphyry trachyte occurs from 175.0-178.0 m. Both contacts are marked by strong, near-vertical shear zones. The rock resembles magnetic flows which are thought to cap the ridge upslope to the east of the multi-element zone. The drill-intersected dyke may represent a feeder for these overlying flows.

The best analytical results for this hole occur from 102.0 - 110.0 m where average values of 643 ppb Au, 5.4 ppm Ag, and

676 ppm Cu were returned. This zone coincides with a zone of broken and sheared core at the contact between latitic flow and fragmental units, and also correlates approximately with the vertical projection of the I.P. conductor. Recoveries range from 50 to 100% over the 8 m and are low where metal values are highest (up to 1110 ppb Au, 10.8 ppm Ag, 1770 ppm Cu). Elsewhere, anomalous Ag (2.8 - 4.8 ppm) occurs over tens of metres with only a weak Au association (Figure 20). Anomalous As (100 - 1604 ppm) occurs over tens of metres with weak associated Au and Ba near the bottom of the hole.

Drill holes 89-02 and 89-03 were collared from the same site on Line 0N approximately 160 m east of 89-01.

Drill hole 89-02 was oriented -65° west to test the ground east of the bottom of 89-01. The hole was lost at 28.3 m in strongly sheared latitic fragmental. A dyke of magnetic, augite-feldspar porphyry trachyte cut from 12.2-17.8 m may be correlative with a similar unit in the bottom of 89-01. Figure 21 shows geochemical results for the three samples taken from this hole.

Drill hole 89-03 was oriented -80° east in order to provide some stratigraphic data to correlate with the volcanic units cut in 89-01. This hole was lost at 41.1 m at the sheared contact of an andesitic feldspar porphyry dyke. Figure 22 shows geochemical results for the four samples taken from this

hole.

Drill holes 89-04, 05, 06 are located on a northwest-southeast section (Figure 23).

Drill hole 89-04, oriented -47^{0} at azimuth 133^{0}, was intended to test Terra's north-south-trending, zone 3 I.P. anomaly as well as a weak to moderate, northeast-trending, Ag-in-soil anomaly. From the bottom of the casing at 9.1 m to 80.9 m, the drill hole cut an altered pyritic fragmental unit marked by strong pervasive sericitization and 10-15% pyrite as fine-grained disseminations, clast replacements, and dry fracture-fillings. Thin-sections from this unit show it to be an altered quartz, feldspar, and biotite-bearing tuffaceous volcanic. It is unclear in thin-section how much of the quartz is primary and how much is a form of pervasive silicification. Thus the original composition could fall anywhere between andesite and dacite. K-feldspar is, however, conspicuous by its absence. The lower contact at 80.9 m is marked by a zone of shearing. From 80.9-84,4 m is a feldspar porphyritic andesite with 10-15% pyrite. This unit may be the protolith for the overlying altered unit. Geochemical profiles for this hole (Figure 24) suggest a major change in lithologies at approximately 80 m where marked increases in Zn, Mn, Cr, V, Sr, Ca, Mg, Al, and a marked decrease in Mo occur.

From 84.4 - 139.5 m, the hole cut latitic fragmentals with minor flows. Alteration is dominantly weak propylitic but the rock contains 7-10% disseminated pyrite throughout. A small zone of hydrothermal, magnetite-bearing, crackle breccia occurs from 96.3 - 100.5 m but does not appear to be enhanced geochemically.

From 139.5 m to the bottom of the hole at 200.25 m, relatively unaltered homogeneous, hornblende-feldspar porphyry flow of latitic to trachytic composition was intersected. Pyrite occurs in minor amounts but disseminated magnetite comprises a uniform 3-4% of the rock.

Geochemically, drill hole 89-04 provided no economically significant values. The latite fragmental unit does display relatively enhanced levels in Ag (up to 3.6 ppm), Zn (100-795 ppm), Pb (up to 398 ppm), and As (up to 232 ppm).

Drill hole 89-05, collared at the same site as 89-04, was drilled vertically to a depth of 108.8 m. Purpose of this hole was to provide stratigraphic correlation with units cut by 89-04. From the bottom of the casing at 6.1 m to 30.0 m the drill hole cut the same altered pyritic fragmental unit as in 89-04. At 30.0 m, a faulted zone marks the contact with porphyritic andesitic tuff. This tuff, from 30.0 - 54.0 m, appears to correlate with the andesite from 80.9-84.4 m in 89-04. Both the altered pyritic fragmental and the andesitic

tuff in 89-05 contain 10-15% pyrite.

From 54.0 - 86.0 m, the hole intersected latitic flows and fragmentals with a brecciated and extremely pyritic (15-20% disseminated, fracture-filling, replacement) section from 60.0 - 69.0 m. This brecciated zone could correlate with the narrow breccia zone in 89-04 but one is pyrite-dominant while the other is magnetite-dominant.

From 86.0-108.8 m the hole cut magnetite-bearing, relatively unaltered, homogeneous feldspar porphyry similar to the bottom of 89-04.

There appears to be a good stratigraphic correlation between drill holes 89-04 and 89-05. Apparent dips are approximately 10^0 to the southeast. Brecciated zones in both holes within the latite fragmental unit may be conformable. The altered pyritic fragmental "unit" in the top of both holes appears to represent a discordant alteration feature within the andesite.

Geochemical profiles (Figure 25) for 89-05 are similar to those for 89-04. Again, no significant mineralization occurs.

The updip projection of the Ag-Zn-Pb-As-enhanced latite fragmental unit should outcrop upslope of the collar for drill hole 89-06 and may contribute to the multi-element soil anomaly in this area.

Drill hole 89-06, collared 268 m northwest of 89-04, was oriented -45^{0} to the southeast to test Terra's northeast-trending zone 2 I.P. anomaly. The hole intersected fragmentals and flows cut by abundant shears and a major fault-shear zone from approximately 126-168 m. Overall core recoveries averaged 66% with the section from 126-168 m averaging 58%.

From the bottom of the casing at 15.2 m to 32.6 m the hole intersected latitic to trachytic hornblende-feldspar porphyry. The rock is weakly to moderately magnetic and stained samples indicate 60-70% k-feldspar in the groundmass.

From 39.6 - 147.6 m is a tuff or flow with a large proportion of k-feldspar, some of which is definitely secondary in origin. The occurrence of rare 1 mm quartz phenocrysts indicates that the protolith was not an undersaturated alkaline rock but of a composition approximating dacite to quartz latite. K-feldspar is particularly prominent as a pervasive replacement and along fracture envelopes from 42-92 m associated with an increase in pyrite to 10%. This section is geochemically anomalous in Ag (up to 3.5 ppm), As (up to 319 ppm), Pb (up to 285 ppm), and Zn (up to 574 ppm) (Figure 26) and would correlate approximately with the position of the I.P. anomaly

From 147.6 m to the end of the hole at 196.0 m is a lapilli tuff with subrounded clasts averaging 3 cm in size and comprising approximately 50% of the rock. No quartz phenocrysts were noted in the matrix but some were seen within clasts. K-feldspar is prominent mainly in clasts but locally as patchy replacement of matrix. Near the centre of the major shear zone is a 2 cm wide banded quartz-carbonate-pyrite vein which parallels the core axis from 152.9 - 156.0 m. The veined section is marked geochemically by anomalous As (up to 251 ppm), Pb (up to 175 ppm), and Zn (up to 696 ppm). The symmetrically-banded and vuggy nature of the vein suggests an epithermal origin.

At 193.6 m are two 1 cm wide subparallel carbonate-pyrite-galena-chalcopyrite-sphalerite veins. The sample from 192-194 m yielded 340 ppb Au, 2.5 ppm Ag, 416 ppm Cu, 1926 ppm Pb and 4540 ppm Zn.

The amount of shearing in 89-06 suggests proximity to a major fault structure, perhaps the north-south-trending feature indicated by the magnetics to occur just west of 89-06. The amount of secondary k-feldspar in this drill hole is noteworthy.

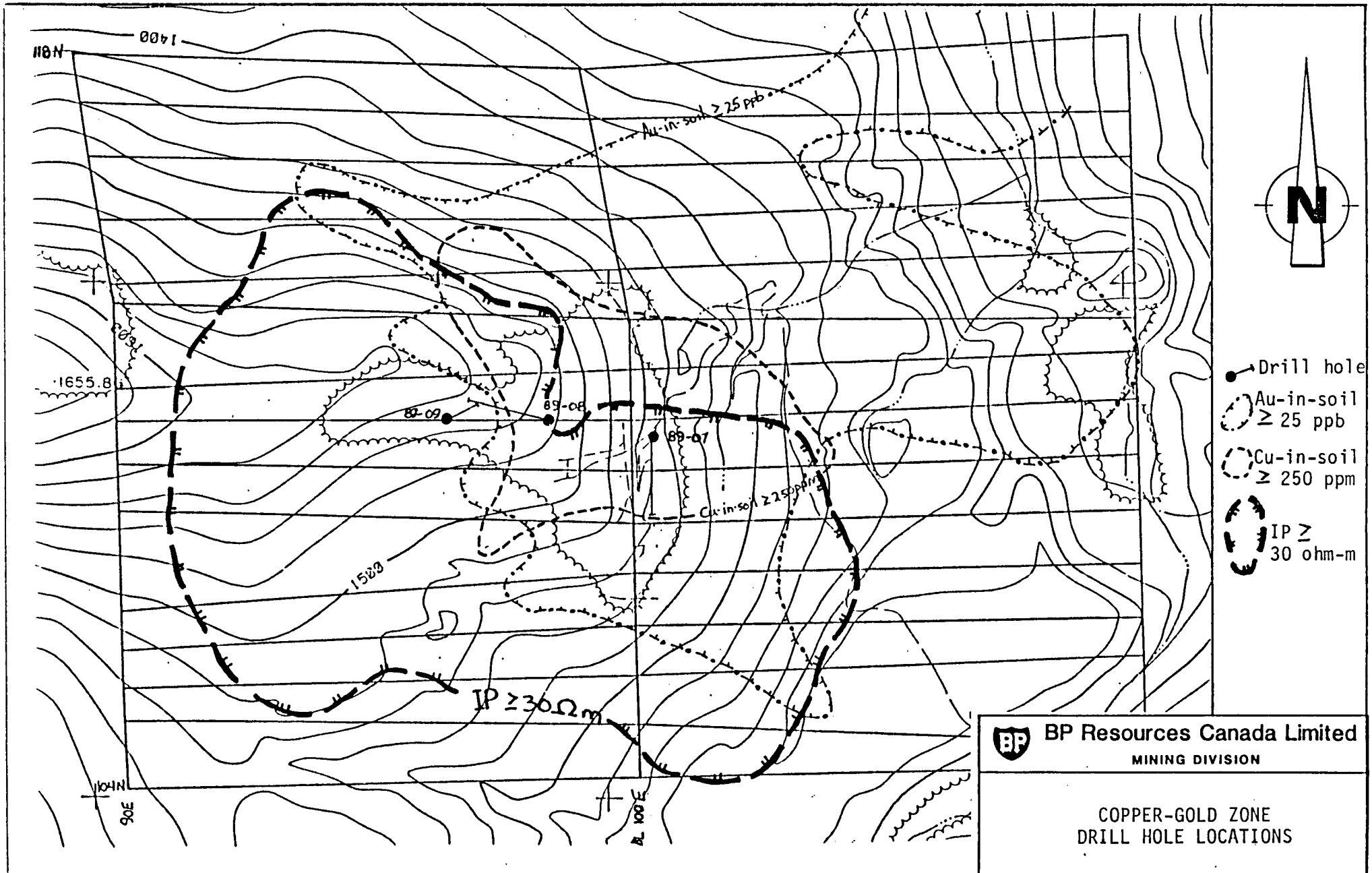
The six holes drilled in the multi-element zone, two of which were lost at shallow depths, indicate a gently east to southeast dipping stratigraphy comprised of andesitic-dacitic,

latitic, and trachytic flows and fragmentals. Intrusive rocks are relatively insignificant. I.P. and geochemical anomalies appear to be related to a number of narrow sulphide-bearing structural zones with multi-element enhancements. Some of these may be epithermal in origin. The pyritic, k-feldspar flooded zone intersected in 89-06 (42-92 m) appears to be a broader feature and represents a more interesting style of alteration/mineralization, perhaps related to a porphyry system.

B) Copper-Gold Zone

Drilling in the copper-gold zone was intended to test an area of coincident Cu-Au-in-soil geochemistry near the periphery of a sulphide-bearing monzodiorite stock (Figure 27). Previous trench samples from this area had yielded up to 1356 ppm Cu and 223 ppb Au over 33 m.

Drill hole 89-07 was drilled due south at -46 dip to test 50-100 m below the trenched area (Figure 28). From the bottom of the casing at 9.1 m to 96.1 m the hole intersected strongly magnetic, medium-grained, hornblende-bearing, plagioclase-porphyritic monzonite with a k-feldspar-rich aphanitic groundmass. The monzonite is medium green in colour and contains 5-6% very fine-grained disseminated primary magnetite. An usual feature is the occurrence of biotite crystals up to 2 cm in length as disseminations and fracture-coatings. Weak chlorite-epidote alteration with 1-2% pyrite



Scale 1 : 10 000

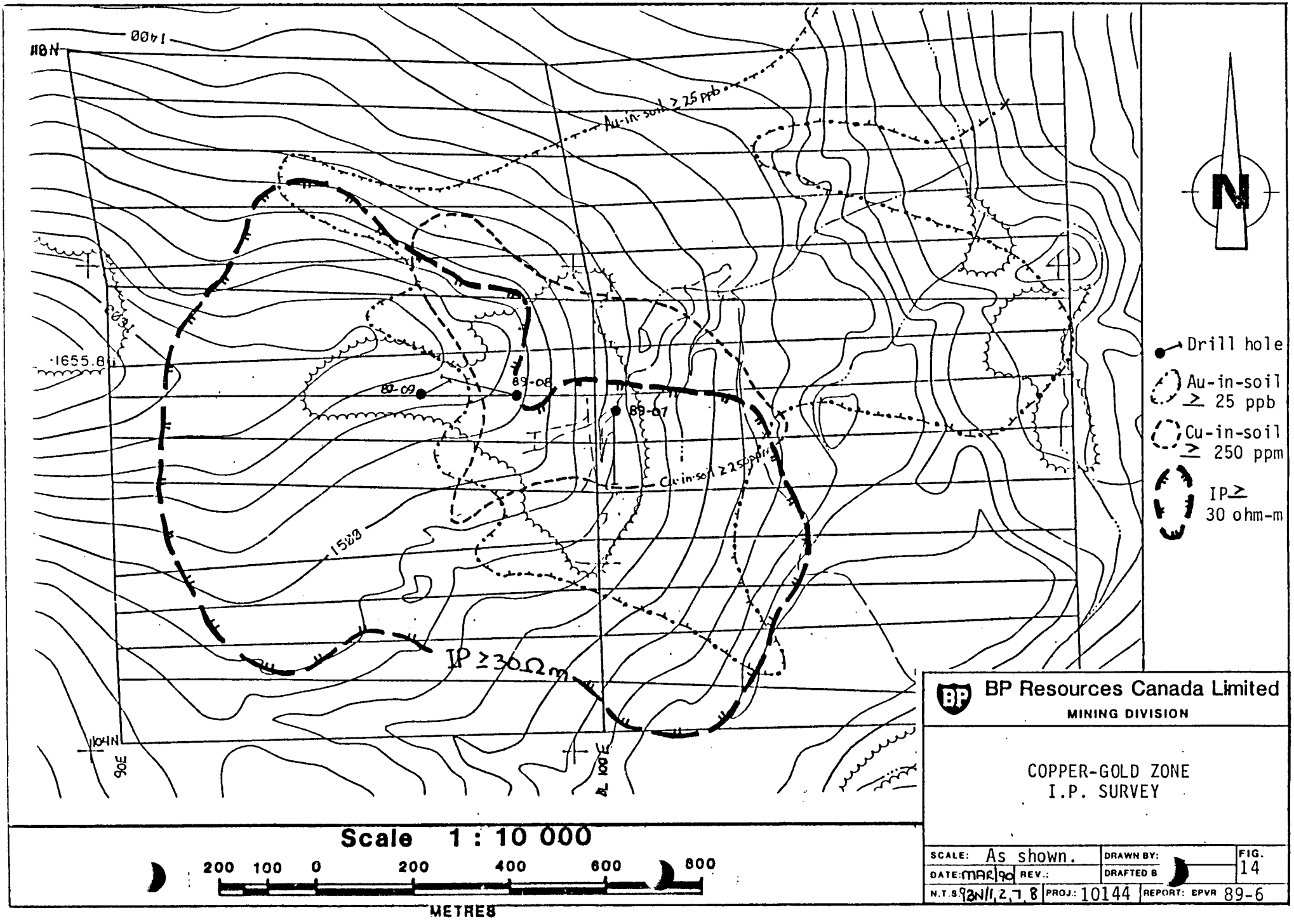
200 100 0 200 400 600 800

METRES

BP Resources Canada Limited
MINING DIVISION

COPPER-GOLD ZONE DRILL HOLE LOCATIONS

SCALE: As shown.	DRAWN BY:		FIG. 27
DATE: mar 90	REV.:	DRAFTED E	
N.T.S. 93N 1,2,7,8	PROJ.: 10144	REPORT: BPVR	89-6



Scale 1 : 10 000

200 100 0 200 400 600 800

METRES

BP Resources Canada Limited

MINING DIVISION

COPPER-GOLD ZONE I.P. SURVEY

SCALE: As shown.	DRAWN BY:		FIG. 14
DATE: MAR 90	REV.:	DRAFTED B	
N.T.S. 92N/11,2,7,8	PROJ.: 10144	REPORT: EPVR 89-6	

grades into moderately strong fracture-controlled k-feldspar-epidote alteration with 5-10% fracture-filling pyrite and up to 2% chalcopyrite as the siltstone contact is approached. Magnetite is replaced by sulphide as the degree of alteration increases. This observation is supported by a corresponding decrease in magnetic susceptibility of the monzonite over the mineralized interval (Figure 29).

From 96.1 m to the bottom of the hole at 210.9 m, the hole cut mainly hornfelsed, bedded, tuffaceous siltstone intruded by a few narrow monzonite and andesite dykes. The siltstone is cut by numerous carbonate-fillings of epidote-k-feldspar-carbonate-pyrite-chalcopyrite. Bedding is generally at 30-40^{o} to the core axis. Pyrite, as disseminations along bedding, comprises 2-5%.

Enhanced copper-gold levels in 89-07 occur from 38-138 m (Figure 29) with an average grade* of .28% Cu and .32 g/t Au over the 100 m. Ag levels are also enhanced over this interval with values up to 7.8 ppm over 2 m intervals. Within this 100 m interval are higher grade portions as shown below:

38-138 m	100 m	@	.28% Cu	and	.32 g/t Au
38- 52 m	14 m	@	.29% Cu	and	.27 g/t Au
82- 98 m	16 m	@	.75% Cu	and	1.13 g/t Au
122-138 m	16 m	@	.39% Cu	and	.35 g/t Au

* ICP copper and geochemical gold determinations

Check fire assays of Acme's ICP copper and geochemical gold determinations were run by Acme and Bondar-Clegg Laboratories with no significant bias (Appendix V).

While the overall mineralized zone is roughly symmetrical about the main monzonite-siltstone contact, the best grade of mineralization (82-98 m) is very specific to the contact at 96.1 m.

Drill hole 89-08 was collared approximately 200 m west of 89-07 and drilled -47^{0} at an azimuth of 284^{0}. The drill hole was intended to test the centre of a discrete magnetic high some 150 - 200 m in diameter at the upslope edge of the copper and gold soil anomalies.

The drill hole intersected mainly magnetite-rich diorite porphyry cut locally by narrow andesite dykes (Figure 30). The diorite porphyry contains 50% fine to medium-grained plagioclase phenocrysts with approximately 15% acicular hornblende in an aphanitic groundmass that contains no k-feldspar. Magnetite occurs as fine-grained disseminations and as discontinuous veinlets comprising 8-10%. Overall the diorite porphyry is 1.5 to 3 times more magnetic than the monzonite intersected in 89-07 (based on magnetic susceptibility averages).

Diorite porphyry displays a weak propylitic chlorite-epidote alteration with $\leq$ 1% pyrite but locally contains zones of weak to moderate k-feldspar-epidote-pyrite-chalcopyrite fracture envelopes with sulphide content up to 3-4% overall. From 152 - 200 m, the average grade is .25% Cu and .24 g/t Au. Higher grade sections within this interval include 6 m from 156 - 162 m of .43% Cu and .55 g/t Au, and 14 m from 186 - 200 m of .31% Cu and .37 g/t Au.

From 66-7 - 70.5 m is a siltstone inclusion within the diorite porphyry. The siltstone is irregularly dyked by diorite and is strongly brecciated with a matrix of chlorite-magnetite. The proportion of magnetite veining within the diorite shows a marked increased for 20-30 m on either side of the siltstone.

A geochemical profile for 89-08 is shown in Figure 31. Of note is the strong Cu-Au-Ag correlation for the overall mineralized interval, as well as a distinct Mo association (Mo values up to 330 ppm). As in drill hole 89-07, magnetic susceptibility readings show a definite decrease over the mineralized interval, supporting observations that sulphide mineralisation occurred at the expense of magnetite. (i.e., sulphides replace Fe-oxides).

Drill hole 89-09 was positioned approximately 200 m west of 89-08 and oriented -65^{0} toward the northeast intending to

investigate the western edge of the magnetic high as well as further test mineralization near the bottom of 89-08.

The drill hole was collared in monzonite similar to that encountered in 89-07. However, sulphide content is noticeably higher (5+% pyrite as disseminations and dry fracture-fillings) as much of the primary magnetite has been replaced. A moderate propylitic alteration, consisting of chlorite-pyrite ± epidote, carbonate, is evident in the monzonite.

From 54.6 - 71.8 m is a zone of siltstone, monzonite and diorite porphyry which marks the general contact between monzonite and siltstone. From 71.8 - 109.9 m is hornfelsed, pinkish to dark green, bedded siltstone locally containing narrow diorite porphyry sills. Alteration consists mainly of silicification related to the hornfelsing and some fracture-controlled k-feldspar flooding. Pyrite as fine fracture-fillings and disseminations comprises 3-5%. Bedding is commonly at 30^{0} to the core axis.

From 109.9 m to the bottom of the hole at 188.1 m is diorite porphyry. The contact with siltstone is marked by a 1.5 m chilled zone in the diorite. Alteration is variable from weak propylitic to weak to moderate, fracture-controlled k-feldspar-epidote-pyrite-chalcopyrite. A weak zone of mineralization from 170-186 m averaged .11% Cu and .20 g/t Au

over the 16 m. This zone may correlate with mineralization near the bottom of 89-08.

A geochemical profile for 89-09 (Figure 32) shows the weak nature of the mineralization.

The three drill holes completed in the copper-gold zone show that:

- economic grades of mineralization were intersected over significant lengths;
- at least two phases of intrusion occur; an early magnetite-rich diorite porphyry which constitutes the discreet magnetic anomaly, and a younger monzonite which appears to be related to a significant sulphide system; and
- sulphide mineralization occurs at the expense of magnetite and is associated with k-feldspar-dominated alteration.

More drilling is clearly warranted in this area. Results of the I.P. and ground magnetometer surveys, which were not fully available at the time of drilling, should be utilized in conjunction with the current soil geochemistry, surface geology and drill data to prioritize targets for 1990 drill testing.

7. CONCLUSIONS AND RECOMMENDATIONS

Multi-Element Zone:

Diamond drill testing of anomalous I.P. and soil geochemical features shows the area to be underlain by a gently east to southeast-dipping series of volcanic flows and fragmentals ranging from andesite-dacite to trachyte in composition. Intrusive rocks constitute only a very minor lithologic component on the two drill sections tested.

While no economic mineralization was intersected in the drilling, a number of structurally-controlled and possibly stratigraphically-controlled zones of enhanced Ag-Pb-Zn-As, As-Pb-Zn, Pb-Zn-Ag-Au, Au-Ag-Cu, and As $\pm$ Ag were intersected which collectively may account for the disposition and nature of the multi-element soil anomaly. Individually, none of these zones appear to constitute economic targets, however, they may represent distal manifestations of a larger mineralizing system. The postulated major north-south trending structure which separates the multi-element zone from the copper-gold zone may represent the ultimate structural control for the weak mineralization encountered in the drilling.

No further work is recommend in the multi-element zone.

Copper-Gold Zone:

Results of drilling in the copper-gold zone give evidence for

the occurrence of a porphyry-type copper-gold mineralizing system in the immediate area. Grades, lengths, and metal ratios for the mineralization intersected, compositions and multiplicity of intrusions present, and nature of associated hydrothermal alteration are all favourable with respect to the presence of an alkaline porphyry deposit. While hydrothermal alteration evident in the mineralized zones is not particularly intense, this may indicate that the centre of the system, presumably containing the highest grades, has yet to be drilled.

A systematic program of diamond drilling is recommended with initial holes stepping out no more than 100 m from mineralization in 1989 drill holes. A combination of ground magnetic, I.P., soil geochemical, surface geologic and drill hole data should serve as a basis from which to establish drill targets peripheral to the 1989 drilling. A minimum of 20 drill holes of approximately 160 m each is warranted to test the 1989 grid area. Once targeted, holes should be completed in a systematic manner with no omissions.

Evidence from the 1989 drilling suggests that copper and gold-bearing sulphide mineralization occurs where magnetite is replaced or sulphidized. Therefore, the periphery, rather than the centres of magnetic anomalies, particularly where I.P. data indicates anomalous chargeability. should be high priority drill targets.

The current grid area in the copper-gold zone should be expanded to the north, south and west to close off existing I.P. anomalies.

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APPENDIX I

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, Russell H. Wong of #700 - 890 West Pender Street, in Vancouver, in the Province of British Columbia, do hereby state:

1. That I am a graduate of the University of British Columbia, Vancouver, B.C., where I obtained a B.Sc., in Geology in 1975.

2. That I have been active in mineral exploration since 1973.

3. That I have practiced my profession continuously as a staff geologist for BP Resources Canada Limited, since 1979.

Russell H. Wong
Project Geologist

March, 1990
Vancouver, B.C.

APPENDIX II

Statement of Costs

STATEMENT OF COSTS

1.	**LINE-CUTTING**	
	Grassroots Enterprises Ltd. 31.8 line-km	$ 42,000.00
2.	**GEOPHYSICAL SURVEYS**	
	Terra Surveys Ltd. (11 line-km I.P., includes line-cutting)	$ 19,392.00
	Lloyd Geophysics Limited (30 line-km I.P.)	$ 29,791.00
	Lloyd Geophysics Limited (30 line-km ground magnetometer)	$ 4,950.00
3.	**DIAMOND DRILLING**	
	Advance Diamond Drilling Ltd. (1376.2 m NQ core)	$109,450.00
4.	**GEOCHEMICAL ANALYSIS**	
	Acme Analytical Laboratories (504 core samples for ICP plus geochemical Au @ $12.35)	$ 6,224.00
5.	**GEOLOGICAL LABOUR**	
	R. Wong - project geologist (52 days @ $225)	$ 11,700.00
	W. Harris - geologist (55 days @ $165)	$ 9,075.00
6.	**ACCOMMODATION**	
	93 man-days @ $25/day	$ 2,325.00
7.	**VEHICLES**	
	One four-wheel drive truck for 47 days @ $35/day	$ 1,645.00
8.	**MISCELLANEOUS**	
	Freight	$ 800.00
	Consumable supplies	500.00
	TOTAL:	$237,852.00

APPENDIX IV

Diamond Drill Hole Logs CH 89-01 to 09

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MINING DIVISION

DRILL LOG

HOLE NO CH-89-01

DRILLING CO: ADVANCE	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: AUG 30, 1989	PROJECT: CHUCHI	
		COLLAR	-45°	090°	DATE COMPLETED: SEPT 2, 1989	NTS: 93N/7	
		181.7m	-44°		COLLAR ELEV: 1340 m	LOCATION: MULTIELEMENT ZONE	
					NORTHING: 6123550		
					EASTING: 402900	LON, 170E	
					AZIMUTH: 090°		
HOLE TYPE: DDH					DEPTH: 188.7 m	DATE LOGGED: SEPT 1, 2, 3, 1989	
					CORE SIZE: NQ	LOGGED BY:	

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
0	12.2	CASING								
12.2	22.0	ANDESITE FRAGMENTAL	Medium to dark green, aphanitic to fine grained, microporphyritic tabular plagioclase crystals 20-30% (1-2 mm long), weak to moderate altered to epidote. 1-2% fine grained, disseminated subhedral pyrite crystals. Very calcareous. Mainly a propyllitic alteration (epidote, chlorite, pyrite). Local fragmental sections (5 to 40 cm wide) with angular fragments of andesite bleached and replaced by Kspar. 5-20% Kspar replacement throughout section						No C.A. for contacts. 2 to 3 fractures per metre @ 30°-40° C.A. and 80°-90° C.A.	

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MINING DIVISION

DRILL LOG

HOLE NO. CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
12.2	14.0	Andesite Fragmental	Mainly a flow. 13.5 stained section shows Kspar as secondary replacement 5-20% (patchy and appears to be selective).				1-2%	diss. fg. py		12.5 Fault gouge @ 80° C.A. 13.0 Fault gouge @ 30° C.A	
14.0	16.0	Andesite Frag.	5-20% Kspar replacement				1-2%	diss. fg. py		14.2-14.4 broken core, 15.7-16.0 rounded broken core. 2 to 3 fractures/m	
16.0	18.0	Andesite Frag.	16.0-16.4 angular fragments from 1 to 6 cm long, bleached and replaced by Kspar				5-20% diss fg. py trace cpy and blebs		diss 2mm	2 to 3 frac/m	
18.0	20.0	Andesite Frag.	18.6-18.7 1 to 3 cm angular fragments. 19.5-19.6 1/66 cm angular fragments replaced by Kspar, py				5-20% diss fg. py 1% cpy - 5mm veinlet discordant at 18.1 with Kspar envelope			2 to 3 frac/m	
20.0	22.0	Andesite Frag	21.8-22.0 2/66cm subangular fragments. 20.4-28% Kspar replacement (sample representative)				5-20% diss. and blebs of fg. py trace of disseminated fg. cpy			2 to 4 frac/m pyrite along occasional fracture.	

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DRILL LOG

HOLE NO. CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
22.0	50.0	LATITE FLOW WITH LOCAL FRAGMENTAL SECTIONS	Medium to dark green, aphanitic to fine grained, microporphyritic tabular plagioclase crystals 1 to 2mm long altered to epidote at the contact 2 to 20% very fine grained disseminated pyrite. Very calcareous. Local fragmental sections from .5 to 2.5 m long. Staining revealed 50-60% primary Kspar, uniform distribution. Plagioclase phenocrysts less altered with increase in Kspar (more sodic-albite)						2 to 4 fractures per metre occurring @ 30°-40° C.A. and 80°-90° C.A. Gradational contact from upper unit.	
22.0	24.0	Latite Frag.	Mainly a fragmental section with subangular to angular fragments of latite replaced by Kspar and pyrite				10-20% diss. and frac of fg py. subhedral.		2 to 4 Fracs/m - occ. frac. containing pyrite.	
24.0	26.0	Latite Frag.	Rounded broken core				3-5% diss. fg py		(?)	
26.0	28.0	Latite Frag	Rounded broken core				10% diss. fg. py py repl. fragment		(?)	

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BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
28.0	30.0	Latite Frag.	Fragmental with Kspar and pyrite alteration				10-20% diss. f.g. pyrite - some py. is replacing fragmentals			2 to 4 fractures per metre	
30.0	32.0	Latite Flow	microporphyritic - homogenous				2 to 3% diss. v.f.g. pyrite.			2 to 4 fractures per metre. 30.05 - fracture @ 45° C.A., 30.1 fault gouge @ 30° C.A. 30.6 - 31.0 Fault gouge @ ~10° C.A.	
32.0	34.0	Latite Flow	microporphyritic - homogenous magnetic				2 to 3% diss.	v.f.g. py.		2 to 4 fractures per metre @ 30-40° C.A. and 80-90° C.A.	
34.0	36.0	Latite Flow	microporphyritic - homogenous stained sections - 50 to 60% primary Kspar. 35.5 to 36.0 Fragmental - angular 2 to 6cm fragments - some slight hematitic staining on fragments				2 to 3% diss.	v.f.g. py		2 to 4 fractures per metre @ 30-40° C.A. and 80-90° C.A.	
36.0	38.0	Latite Frag.	36.0 to 36.6 Fragmental with angular clasts 1 to 5cm long 37.4-37.8 Fragmental with angular clasts 1 to 5cm long				5% diss. f.g. py occ. blebs (1-2cm long)			2 to 4 fractures per metre @ 30-40° C.A. and 80-90° C.A.	
38.0	40.0	Latite Flow	microporphyritic - homogenous				5% diss f.g. py and py along fractures			2 to 4 fractures per metre @ 30-40° C.A. and 80-90° C.A. 39.9-40.0 Fault gouge no C.A. angle.	

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DRILL LOG

HOLE NO. CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
400	420	Latite Flow	Rounded broken core				5% diss. fg. py.			(?)	
420	440	Latite Frag.	Fragmental with 1 to 5 cm rounded to subangular fragments of hematitic stained felsic clasts (calcareous)				10-15% diss fg. py-py			(?) Grind - last 1.1m of core - 45% recovery.	
440	460	Latite Flow	Slight hematitic staining				2-5% diss. fg. py			(?) broken core	
460	480	Latite Flow	Slight hematitic staining				2-5% diss fg. py			(?) broken core.	
480	500	Latite Frag.	angular clasts 1 to 5 cm long - latite comp. 499-500 Crackle breccia - contact to hybrid zone				10-15% diss fg. py. 25% diss. and blebs fg. pyrite. Trace to 1% diss. fg. cpy.			2 to 4 fractures per metre	

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
50.0	62.0	HYBRID ZONE SYENOMONZONITE TO SYENITE "PSEUDOFRAGMENTS" IN A LATITE FLOW		Medium to dark green, aphanitic to fine grained, microporphyritic tabular plagioclase phenocrysts (1 to 2 mm) 10-20%. 5 to 20% blebs, replacement and disseminated fine grained pyrite (sub-euhedral), 10% aphanitic augite(?)-hornblende(?). A latite flow with pseudofragments of syenomonzonite to syenite. Staining revealed 60 to 80% primary Kspar. Pseudofragments may be an interfingering between volcanics and intrusive rocks, high-up in a system. Very Calcareous.					Gradational contact. 2 to 4 fractures per metre @ 45° C.A. and ~ 90° C.A.
50.0	52.0	Hybrid zone					10-20% diss, blebs, repl. f.g. py.		2 to 4 fractures per metre @ 45° and 90° C.A.	
52.0	54.0	Hybrid zone					10% diss f.g. py.		2 to 4 fractures per metre @ 45°, 90° C.A.	
54.0	56.0	Hybrid zone					10-15% diss f.g. py		2 to 4 fractures per metre @ 45° & 90° C.A.	
56.0	58.0	Hybrid zone					10-15% diss f.g. py		2 to 4 fractures per metre @ 45° & 90° CA	

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BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
58.0	60.0	Hybrid Zone	Hematitic stained felsic crystals					10% diss f.g. py. 5% 5mm py frac. 90° C.A.		2 to 4 fractures per metre @ 45-90° C.A.	
60.0	62.0	Hybrid Zone					10-15% diss f.g. py 61.1 5mm carb frac @ 30° C.A.			2 to 4 fractures per metre mainly carb fractures.	
62.0	76.0	LATITE FRAGMENTAL	Medium to dark green, aphanitic to fine grained, microporphyritic tabular plagioclase 1 to 2 mm long (10-20%), 2 to 10% replacement blebs (1 to 15 mm long) and disseminated fine grained pyrite. Staining revealed approx. 50% primary kspar, 10% aphanitic augite(?)-hornblende(?). Fragments of monzonite to syenite and latite composition. Slight hematitic staining of fragments. Fragmentals make up 40 to 60% of the rock - subangular to angular.							4 to 6 fractures per metre @ 60 to 90° C.A., 30° C.A. and sub-parallel to C.A. Gradational contact.	
62.0	64.0	Latite Frag.	Fragments replaced by epidote, kspar, carb, py. 5 to 10% replacement and diss py.							4 to 6 fractures per metre @ 30; 60; 90° C.A.	

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DRILL LOG

HOLE NO CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
64.0	66.0	Latite Frag.	Rounded broken core.				2 to 5% diss. v.f.g. py			(?)	
66.0	68.0	Latite Frag.	Rounded broken core				3 to 5% diss v.f.g. py			(?)	
68.0	70.0	Latite Frag.	Fragments replaced by kspar, epidote, carb., py .5 to 5cm long fragments.				2 to 4% diss., repl v.f.g. py.			4 to 6 fractures per metre	
70.0	72.0	Latite Frag	Fragments repl. by carb, epid., kspar, py. .5 to 5 cm long hematitic stained fragments Fault gouge 71.4-71.5 ~45° C.A				2 to 4% diss., repl v.f.g. py.			4 to 6 fractures per metre.	
72.0	74.0	Latite Frag.	Fragments repl. by carb., epid., kspar, py. .5 to 5cm long. hematitic stained.				5 to 10% diss., repl frac v.f.g. py. trace diss. v.f.g. cpy in carb frac.			4 to 6 fractures per metre.	
74.0	76.0	Latite Frag.	Fragments altered-repl by carb, kspar, py, epid., .5 to 5cm long, hematitic stained				4 to 6% diss, repl frac, v.f.g py. Trace diss v.f.g. cpy in late stage carb. fractures			4 to 6 fractures per metre.	

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BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
76.0	86.0	LATITE FLOW WITH LOCAL FRAGMENTAL ZONES	Medium to dark green, aphanitic to fine grained, microporphyritic tabular plagioclase (crystals 1 to 2 mm long (10-20%). 2 to 15% v.f.g. pyrite occuring in fractures, replacement and disseminated 10% aphanitic augite (?) or hornblende (?). Felsic crystals (5%) replaced by carbonate and hematitic stained (1 to 3mm long) Fragments from .5 to 5 cm long having the same latite texture but replaced by carbonate, Kspar, pyrite and lesser amount of epidote (1%) with a hematitic stain. Fragments subangular to angular.						Gradational contact. 4 to 6 fractures per metre @ 30-45° C.A. and sub-parallel.	
76.0	78.0	Latite Flow	76.0-76.2 Fragments (10%) of latite comp, hematitic stained upper contact with Fragmental					5 to 10% diss frac. of v.f.g. py., trace diss. v.f.g. cpy in carb frac.	4 to 6 fractures per metre @ 30-45° C.A. and subparallel.	
78.0	80.0	Latite Flow	3 py-carb frac (.5 to 1cm wide) per metre.					10-15% diss, frac. of v.f.g. py. Trace diss v.f.g. cpy in carb. fracture	4 to 6 fractures per metre @ 30-45° C.A. and subparallel 79.9 Fault gouge a/o C.A.	

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MINING DIVISION

DRILL LOG

HOLE NO. CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
80.0	82.0	Latite Flow	Broken core fragment (1-3cm) repl. by carb and py.		- occasional		10-15% diss, frac of v.f.g. py.		4 to 6 fractures per metre @ 30-45° and subparallel	
82.0	84.0	Latite Flow	83.5 to 84.0 Fragmental - angular (2 to 5cm long) replaced by py, carb, kspar.				10-15% diss, frac, replacement of v.f.g. py. Trace of v.f.g. cpy in carb frac.		4 to 6 fractures per metre @ 30-45° and subparallel.	
84.0	86.0	Latite Flow	Fractures infilled with py and/or carb.				10-15% diss frac v.f.g. py. Trace cpy in carb frac.		4 to 6 fractures per metre mainly @ 45° C.A.	
86.0	104.0	LATITE FRAGMENTAL	As described from 62.0 to 76.0 with up to 15% v.f.g. diss, replacement and fracture filled pyrite.						4 to 6 fractures per metre mainly @ 45° C.A. Gradational contact.	
86.0	88.0	Latite Frag.	.5 to 5 cm angular to sub-angular fragments, carb, py, chloritic altered/replace.				5 to 10% diss. v.f.g. pyrite.		86.9 - 87.0 Fault gouge @ 45° C.A.	
88.0	90.0	Latite Frag.	Broken core. 88.4 dissent carb-py fractures.				5-10% diss v.f.g. pyrite.		4 to 6 fractures per metre mainly @ 45° C.A.	

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS (MINERALIZATION, TYPE, AGE RELATIONS)
90.0	92.0	Latite Frag.	.5 to 5cm angular to subangular fragments - carb, py, chl, altered/replaced. 90.9 1cm carb - py frac @ 30° C.A.				5-10% diss f.g. euhedral py		4 to 6 fractures per metre @ 30-45° C.A	
92.0	94.0	Latite Frag.	Broken core - fragments altered (as above) and hematitic stained.				10-15% diss. frac of f.g. to m.g. euhedral py		(?)	
94.0	96.0	Latite Frag.	fragments carb, chl, py altered/replaced and hematitic stained				10-15% diss, frac of f.g. to m.g. euhedral py.		Fractures (4 to 6) @ 45°-60° C.A. 94.5 Fault gouge material - no C.A. - broken core	
96.0	98.0	Latite Frag	Broken core				5 & 10% diss, frac of f.g. to m.g. euhedral py		4 to 6 Fractures per metre @ 30-45° C.A. - carb and/or py.	
98.0	100.0	Latite Frag.	fragments altered/replaced by chl, carb, py, hematitic stained - subangular				5% diss, repl, frac f.g. py.		4 to 6 fracture per metre @ 30°, 45°, 60° C.A.	
100.0	102.0	Latite Frag.	fragments altered/replaced as above. .5 to 5cm rounded to subangular				5% diss, repl, frac f.g. py.		4 to 6 fractures per metre @ 30°, 45°, 60° C.A.	
102.0	104.0	Latite Frag	Broken core.				5% diss, repl, frac. f.g. py. (?)			

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION							STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS (MINERALIZATION, TYPE, AGE RELATIONS)
			COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE			
104.0	115.0	LATITE FLOW	Medium to dark green, aphanitic to fine grained microporphyritic tabular plagioclase phenocrysts 1 to 2 mm long (10%), 5 to 10% disseminated subhedral to euhedral fine grained pyrite. Very calcareous, weak sericitic alteration of plagioclase phenocrysts. Fractures contain pyrite and/or carbonate. 5-10% aphanitic augite (2)" hornblende(?). 50% kspar. (v.f.g.) Homogenous.							2 to 4 fractures per metre @ 30 & 45° C.A. and 80° to 90° C.A. Gradational contact.	
104.0	106.0	Latite Flow					5-10%	diss, frac	f.g. py	105.3 Fault gouge @ 35° C.A. 2 to 4 fracture per metre @ 30-45° C.A. and 80-90° C.A.	
106.0	108.0	Latite Flow					5-10%	diss, frac	f.g. py	2 to 4 frac/m @ 30-45° C.A. and 80-90° C.A	
108.0	110.0	Latite Flow					5-10%	diss, frac	f.g. py	2 to 4 frac/m @ 30-45° C.A. and 80-90° C.A	
110.0	112.0	Latite Flow					5-10%	diss, frac	f.g. py	2 to 4 frac/m @ 30-45° C.A. and 80-90° C.A.	
112.0	114.0	Latite Flow					5-10%	diss, frac	f.g. py	2 to 4 frac/m @ 30-45° C.A. and 80-90° C.A.	
114.0	115.0	Latite Flow					5-10%	diss, frac	f.g. py	2 to 4 frac/m @ 30-45° C.A. and 80-90° C.A.	

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DRILL LOG

HOLE NO. CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
115.0	156.0	ANDESITE - LATITE - TRACHYTE FRAGMENTAL	As described from 62.0 to 76.0 with pyrite content from 5 to 15% f.g. disseminated and fractures. Fragments altered/replaced by carb, kspar, pyrite, - hematitic stained.							4/ to 6 fractures per metre @ 30-45° C.A. and 80-90° C.A. A few subparallel frac. Gradational contact(?) broken core. Fragments are angular to subangular consisting of 60-80% of the rock and ranging in size from .5 to 10 cm long.	
			STAINING: Upper part of fragmental has trachyte fragments 10-20% in an andesitic matrix. The fragmental becomes more trachytic after approx 120m with Kspar being 80-90% of the rock. At ~126.0 the fragmental becomes more latitic with Kspar being 50-60%								
115.0	116.0	Andesite Frag.					10% diss and frac	fg	py		
116.0	118.0	Latite Frag.					10% diss and frac	fg	py		
118.0	120.0	Trachyte Frag.					10% diss and frac	fg	py		
120.0	122.0	Trachyte Frag					10% diss, frac	fg	py		
122.0	124.0	Trachyte Frag					10% diss, frac	fg	py		

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DRILL LOG

HOLE NO. CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
124.0	126.0	Trachyte Frag					10-15% diss, frac fg. py trace cpy in carb frac.				
126.0	128.0	Latite Frag					10-15% diss frac fg. py				
128.0	130.0	Latite Frag.					10-15% diss, frac fg. py				
130.0	132.0	Latite Frag.					10-15% diss, frac fg. py tr-1% cpy in py-carb frac				
132.0	134.0	Latite Frag					10-15% diss, frac fg. py.			132.7 - 1cm py-carb discordant veinlet(?) vugs @ 30° C.A.	
134.0	136.0	Latite Frag.	135.0-136.0 fragmental appears as a breccia.				10-15% diss fg. py.			4 to 6 fractures per metre @ 30-45° C.A. and 80-90° C.A.	
136.0	138.0	Latite Frag.					10-15% diss, f.g. py.				
138.0	140.0	Trachyte Frag.	angular to subangular fragments from .5 to 5cm long. fragments appear andesitic and replaced/ altered by py-ite, chlorite(?), carb. and make up ~50% of the rock. Some fragments are a fine grained feldspar (plag) porphyry. Many are rimmed by carb. with hematite staining				10-15% diss, repl (frag) f.g. euhedral py. trace cpy in carb fractures - late stage			4 to 6 fractures per metre @ 30-45° C.A and 80-90° C.A.	

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DRILL LOG

HOLE NO. CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
140.0	142.0	Trachyte Frag					10-15% diss, repl frac f.g. euhedral py. Trace cpy in carb frac.		4 to 6 fractures per metre @ 30-45° C.A. and 80-90° C.A.	
142.0	144.0	Trachyte Frag					10-15% diss, repl, frac f.g. euhedral py. Trace cpy in carb frac.		4 to 6 fractures per metre @ 30-45° C.A and 80-90° C.A.	
144.0	146.0	Trachyte Frag.	Occ. large fragment (4 to 6 cm) has 5mm tabular plag. phenocrysts. Rock is grey-green may be slightly cooked.				10-15% diss, repl, frac f.g. euhedral pyrite. Trace cpy in carb fracture - late stage		4 to 6 fractures per metre @ 30-45° C.A. and 80-90° C.A.	
146.0	148.0	Trachyte Frag	Broken core				10-15% diss, repl, frac., f.g. euhedral py. Trace cpy in carb frac.		(?) - where it is solid core there is 4 to 6 fractures per metre @ 30-45° & 80-90° C.A.	
148.0	150.0	Trachyte Frag	angular to subangular fragments from .5 to 5 cm long (andesitic) which are replaced by carb, pyrite, chlorite(?).				10-15% diss, repl, frac. f.g. py. Trace cpy in carb frac.		4 to 6 fractures per metre @ 30-45° & 80-90° C.A	
150.0	152.0	Trachyte Frag	Broken core - appears the same as above.				10-15% diss, repl, frac. f.g. py. Trace cpy in carb. frac.		4 to 6 fractures per metre @ 30-45° C.A. and 80-90° C.A.	

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DRILL LOG

HOLE NO. CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
152.0	154.0	Trachyte Frag.	Broken core - appears as above. 152.3 - 153.6 carb-py (20%) Frag breccia				10-15% diss, repl, frac. f.g. py. Trace cpy in carb frac.		(?) 4 to 6 fractures per metre @ 30-45° C.A. and 80-90° C.A.	
154.0	156.0	Trachyte Frag.	Altered - "cooked" fragmental grey-green				15% diss, repl, frac, f.g. euhedral pyrite occ. tr. cpy in carb frac		4 to 6 fractures per metre @ 30-45° C.A. and 80-90° C.A.	
156.0	157.2	SYENOMONZONITE FELDSPAR PORPHYRY DYKE.	Semi-crowded to crowded plagioclase phenocrysts weak to moderately aligned @ ~30° C.A. . 10 to 15% diss. fine grained pyrite . 10% mafic-aphanitic (augite or hornblende) . Grey-green, fine to medium grained, non-magnetic, calcareous 80% kspar				Tabular (1 to 4mm)		Contact @ 90° C.A. (?) may be gradational contact with upper fragmental. Lower contact @ ~ 35° C.A.	
157.2	168.0	LATITE FRAGMENTAL	Medium grey-green becoming more greenish away from contact with feldspar porphyry, aphanitic to fine grained with fragments from <1 to 4cm comprising 30% of the rock and being sub-rounded to sub-angular. The fragments are altered/replaced by pyrite, carb, kspar. There is 10 to 15% very fine grained disseminated, replacement, and fracture filled pyrite.						There are 4 to 6 fractures per metre occuring @ 30-45° C.A. and 80-90° C.A. with carb and/or pyrite along fractures. Many of the 30° fractures are at the same direction not randomly orientated.	

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MINING DIVISION

DRILL LOG

HOLE NO. CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
158.0	160.0	Latite Frag.	Grey-green with fragments "cobbel", altered to sacb, py, Kspar.				10% f.g. py.	diss, frac, repl.		4 to 6 fractures per metre @ 30-45° C.A. and 80-90° C.A.	
160.0	162.0	Latite Frag	grey-green				10% f.g. py.	diss, frac, repl,		4 to 6 fractures per metre @ 30-45° C.A. and 80-90° C.A.	
162.0	164.0	Latite Frag	162.0 to 162.1 crowded feldspar porphyry dyke.				10-15% f.g. py.	diss, frac, repl		162.0 Fault gouge @ 80° C.A. @ contact with porphyry dyke.	
164.0	166.0	Latite Frag	Broken core - green				10-15% f.g. py.	diss, frac, repl		(?) broken core.	
166.0	168.0	Latite Frag	green				10-15% f.g. py.	diss, frac, repl		4 to 6 fractures per metre @ 30-45° C.A. and 80-90° C.A.	
168.0	175.0	LATITE FLOW	Medium to dark green, aphanitic to fine grained with 15% aphanitic augite(?) or hornblende(?). 10 to 15% disseminated, blebs (up to 1cm long) and replacement(?) subhedral to euhedral pyrite. Occ. fragment of latite in flow (1 to 6cm long).							2 to 4 fractures per metre @ 30-45° C.A. and 80-90° C.A. Many are infilled with pyrite.	

DRILL HOLE NO. CH-89-01

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MINING DIVISION

DRILL LOG

HOLE NO CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
168.0	170.0	Latite Flow					10-15% f.g. py.	diss, rare fine		2 to 4 fractures per metre @ 30-45° C.A. and 80-90° C.A.	
170.0	172.0	Latite Flow					10-15%	py		As above	
172.0	174.0	Latite Flow					10-15%	py.		As above	
174.0	176.0	Latite Flow	175.0 contact between flow and augite-feldspar porphyry				10%	py		As above	
175.0	178.0	AUGITE - FELDSPAR PORPHYRY DYKE (TRACHYTE)	Dark green, fine to medium grained with 5-10% fine grained augite crystals and approx 10% fine grained tabular (1mm) plagioclase crystals in an aphanitic matrix. Magnetic, calcareous. Plagioclase crystals are weakly to mod. altered to sericite. Volcanic dyke.							No contact - broken core.	
178.0	188.7 E.O.H.	LATITE FLOW	Medium to dark green, aphanitic to fine grained with 5 to 10% disseminated and fracture filled fine grained pyrite. 178.0 to 180.0 is a fault zone composed mainly of carbonate, fault gouge and latite flow material (fragments) and epidote altered.							178.0 to 180.0 Fault zone. Contact of fault zone @ 30° C.A. (?) 2 to 4 fractures per metre @ 30-45° C.A., 60° C.A., and 80-90° C.A.	

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MINING DIVISION

DRILL LOG

HOLE NO. CH-89-01

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
178.0	180.0	Latite Flow	-Fault zone and latite frag.				5% diss. fg-pg	and fros		Fault zone @ 45° C.A.	
180.0	182.0	Latite Flow	Broken core - grey-green "cooked" due to fault.				5-10%	diss, frac	fg-pg		
182.0	184.0	Latite Flow	light green to grey around Fault gouge				5-10%	diss, frac	fg-pg	Fault gouge @ 45°-°C.A. from 183.2-183.4	
184.0	186.0	Latite Flow	-homogenous with randomly orientated microfractures of pg				10%	diss, frac	fg-pg	20+ microfractures per metre randomly orientated infilled with pyrite	
186.0	188.7 E.O.H.	Latite Flow	-homogenous with randomly orientated microfractures of pg				10%	diss, frac	fg-pg	20+ microfractures per metre randomly orientated infilled with pyrite.	

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MINING DIVISION

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MAG. SUSC.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
50001	12.2	14.0	1.8	.1	78	.4		3	.2	38	35	6	174	23
2	14	16	2	0	65	.7		1	.3	126	46	1	161	20
3	16	18	2	0	85	.3		15	1.0	166	106	7	157	24
4	18	20	2	0	90	.2		16	.6	140	111	6	145	24
5	20	22	2	.1	95	.1		38	.8	185	76	7	148	31
6	22	24	2	0	95	.1		52	1.0	24	43	12	135	23
7	24	26	2	0	35	1.3 } broken		141	2.3	465	126	15	142	12
8	26	28	2	0	65	.7 }		51	.9	260	53	9	157	18
9	28	30	2	0	80	.4		111	2.2	28	85	23	129	18
10	30	32	2	0	90	.2		110	1.6	96	26	4	143	25
11	32	34	2	1.7	100	0	32-33.4 > 2.0 NS	4	.2	227	58	2	147	31
12	34	36	2	.5	100	0		1	.1	26	9	3	157	25
13	36	38	2	.2	97	.05		9	.1	69	19	3	139	26
14	38	40	2	0	55	.9		17	.1	71	34	2	121	19
15	40	42	2	.1	35	1.3 } broken		26	.2	41	46	15	143	18
16	42	44	2	0	45	1.1 }		14	.5	246	93	17	236	12
17	44	46	2	0	50	1.0 }		7	.1	24	44	5	200	14
18	46	48	2	0	50	1.0 }		13	.2	65	27	7	163	13
19	48	50	2	0	80	.4		18	.1	145	44	5	146	12
20	50	52	2	.1	90	.2		29	.6	164	89	5	214	14
21	52	54	2	0	85	.3		43	.2	353	67	7	167	21
22	54	56	2	.1	75	.5		46	.3	33	47	9	172	19
23	56	58	2	0	90	.2		67	1.0	172	62	9	176	28
24	58	60	2	0	100	0		79	1.0	208	57	13	170	26
25	60	62	2	.1	100	0		46	.7	97	57	2	154	13
26	62	64	2	.1	90	.2		22	.5	62	19	2	146	28

Sample Nos 50001 – 50088

DRILL HOLE NO. CH 89-01

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MAG. SUS.	CORE RECOVERY %	CORE RECOVERY AMT. LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
50027	64	66	2	0	40	1.2 } broken		139	3.5	163	76	16	154	27
28	66	68	2	.1	55	.9 }		9	.4	136	32	11	159	21
29	68	70	2	0	100	0		14	.1	348	31	12	165	38
30	70	72	2	0	75	.5		29	.1	186	22	3	174	35
31	72	74	2	.1	85	.3		19	.2	157	34	6	149	16
32	74	76	2	.2	100	0		36	.2	291	30	10	149	20
33	76	78	2	.1	75	.5		26	.2	364	27	6	204	12
34	78	80	2	.1	80	.4		79	.5	51	54	2	123	16
35	80	82	2	0	80	.4		172	1.2	59	44	2	116	21
36	82	84	2	.1	80	.4		159	.5	269	50	2	130	17
37	84	86	2	.1	85	.3		73	.3	114	58	2	123	38
38	86	88	2	0	95	.1		101	.5	47	59	2	129	39
39	88	90	2	.1	75	.5		116	.6	115	86	2	147	33
40	90	92	2	0	80	.4		18	.2	217	46	2	123	45
41	92	94	2	0	80	.4		90	.6	23	85	7	121	27
42	94	96	2	0	70	.6		135	.5	114	75	2	144	46
43	96	98	2	0	50	1.0		106	.4	40	52	2	120	33
44	98	100	2	0	95	.1		147	.4	413	46	6	154	39
45	100	102	2	0	75	.5		103	.4	637	29	2	157	31
46	102	104	2	.1	50	1.0 broken +	8m @ 643 Au	440	5.0	192	81	5	154	26
47	104	106	2	.1	55	.9 gouge	5.4 Ag, 676 Cu	1110	10.8	1770	68	2	103	26
48	106	108	2	.1	100	0		540	3.9	273	110	3	102	17
49	108	110	2	.3	95	.1		480	2.0	471	57	4	129	33
50	110	112	2	.3	85	.3		240	2.2	251	81	7	128	23
51	112	114	2	.2	95	.1		196	2.1	37	98	6	126	25
52	114	116	2	.1	85	.3		23	.3	178	60	7	146	28

DRILL HOLE NO. CH 89-01

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PAGE

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MAG SUSC	CORE RECOVERY %	CORE RECOVERY AMT. LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
SD053	116	118	2	.1	85	.3		36	.2	134	56	4	162	30
54	118	120	2	.1	85	.3		23	.4	154	40	6	173	19
55	120	122	2	0	95	.1		18	1.3	222	51	10	143	25
56	122	124	2	.1	85	.3		147	3.1	35	28	12	90	16
57	124	126	2	0	90	.2		93	2.8	42	44	6	143	8
58	126	128	2	0	100	0		63	1.7	28	27	10	87	10
59	128	130	2	0	95	.1		165	4.8	49	55	12	98	9
60	130	132	2	.1	90	.2		140	3.7	67	45	12	82	20
61	132	134	2	.1	70	.6		136	2.4	39	56	24	107	22
62	134	136	2	0	75	.5		47	2.9	42	67	13	113	23
63	136	138	2	0	90	.2		177	3.4	96	44	9	148	27
64	138	140	2.	.1	95	.1		86	.8	91	48	9	171	15
65	140	142	2.	.1	95	.1		107	.7	181	73	11	187	20
66	142	144	2.	0	100	0		33	.4	62	52	14	178	17
67	144	146	2.	0	95	.1		78	1.8	108	118	30	189	19
68	146	148	2.	.1	80	.4		101	1.5	54	103	22	110	12
69	148	150	2	0	95	.1		60	.6	82	51	8	140	16
70	150	152	2	0	95	.1		44	.7	103	76	15	130	14
71	152	154	2.	0	90	.2		63	1.1	434	99	16	105	12
72	154	156	2.	0	90	.2		38	.8	79	38	9	120	9
73	156	158	2	.1	85	.3		11	.4	167	64	8	112	30
74	158	160	2.	.1	90	.2		11	.5	234	91	11	160	21
75	160	162	2.	.1	100	0		7	.4	103	34	16	129	16
76	162	164	2.	0	100	0		18	1.5	201	75	8	123	28
77	164	166	2.	.1	90	.2		10	.6	183	71	9	134	20
78	166	168	2	.1	95	.1		10	.5	150	87	11	160	19

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DRILL HOLE NO. C11-89-01

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	TOTAL METRES	MAG SUSC	CORE RECOVERY %	CORE RECOVERY AMT. LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
50079	168	170	2.	.1	100	0		9	.3	156	208	16	130	21
80	170	172	2.	0	100	0		27	1.8	272	140	14	171	36
81	172	174	2.	0	100	0		298	1.1	170	224	15	127	28
82	174	176	2.	.9	95	.1	] Dike	178	.2	134	1604	8	95	158
83	176	178	2.	2.8	100	0		11	.2	146	88	2	76	386
84	178	180	2.	.1	95	.1		168	.6	91	180	14	81	30
85	180	182	2.	.1	95	.1		16	.7	138	57	15	125	28
86	182	184	2.	.2	95	.1		21	.9	151	100	12	143	29
87	184	186	2.	.1	100	0		8	.3	233	27	8	145	25
88	186	188.7	2.7	.1	100	0	EOH	15	.7	111	65	12	120	20
			Total Recovery =			90%								

DRILL HOLE NO. CH89-01

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH. 89-02

DRILLING CO: Advance Drilling	LOCATION SKETCH: N	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: Sept 3, 1989.	PROJECT: CHURCH
		COLLAR	-65°	270°	DATE COMPLETED: aborted Sept 4, 1989	N.T.S.: 93N/7
					COLLAR ELEV: 1375m	LOCATION: 160 m due east of DH 89-01
					NORTHING: 6123575	
					EASTING: 403060	
					AZIMUTH: 270°	
HOLE TYPE: DDH.					DEPTH: 28.3m (93')	DATE LOGGED: Sept 4, 1989.
					CORE SIZE: NQ	LOGGED BY: R.W.

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
0	12.2	CASING - broken bedrock from ~1.5m								Casing subsequently deepened to ~27m	
12.2	17.8	Aug-feld porph - Flower dyke; mod-st magnetic similar to dyke at bottom of 89-01. 16-18m rock is bleached due to clay alt^{n}, relict patches (pseudo fragments) of unbleached porph.	Dk gray green	1-2 mm non-align plag phenos ~25%, 1mm Aug, aphanitic gm		Mod clay± sericite assc with shearing St perv carb, mod chlor of aug wlk carb rem on shear fr (late)	tr disp Py 3-4% tr diss Py	diss+ff Py	12.2-14.0 14-16 16-18		Broken core 12.2-16.0m. Shear-related clay alt^{n}/bleaching from 16-17.8m. Contact obscurred by 20 cm of broken rock. Fractured predom 5-30° CA. Rep sample at 16.4m = weak patchy kspar stain in gm " " " 21.8m = clasts and some gm stain for kspar

DRILL HOLE NO. CH 89-02

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-02

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
17.8	28.3	Lithic fragmental (possibly flow) bx locally. Clasts 1-5cm are subor, predom lithic fg flow or tuff and comprise 10-75% of rock. Matrix is fg flow or tuff.	Med grey green	Fg to aphanitic		Perv carb throughout. Mod perv + fr-coat epidote.				Relatively solid core from 17.8-24.2m. Significant zone of fracturing and clay gouge from 24.2-28.3m @ 10-15° to CA. Strong gouge 24.6-24.9m.	
						1-2 carb veins/m @ 50-60° to CA.	3% fg diss Py		18-20		
							"		20-22		
							"		22-24		
							"		24-26		
							"		26-28.3		
										Hole abandoned - casing pulled	

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DRILL HOLE NO. CH 89-02

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	TOTAL METRES	M.S. ~~Sp. Gr.~~	CORE RECOVERY %	CORE RECOVERY AMT. LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
	12.2	14	1.8	2.4	33	1.2								
	14	16	2	1.1	65	.7								
	16	18	2	1.8	75	.5								
50089	18	20	2	0	65	.7		7	.5	101	34	8	186	14
90	20	22	2	.1	95	.1		5	.6	145	42	4	155	14
91	22	24	2	.1	100	0		10	.6	116	39	4	148	22
	24	26	2	0	55	.9								
	26	28.3	2.3	0	v100	abundant core	EOH							

TOTAL RECOVERY = 74 %

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DRILL HOLE NO. CH 89-02

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-03

DRILLING CO: Advance Drilling	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: Sept 4, 1989	PROJECT: CHUCHI	
		COLLAR	-80°	090°	DATE COMPLETED: Sept 8, 1989	N.T.S.: 93N/7	
					COLLAR ELEV.: 1375 m	LOCATION: LO-350E Multielement zone. Approx 160m E of CH-89-01	
					NORTHING: 6123575		
					EASTING: 403060		
					AZIMUTH: 090°		
					DEPTH: 41.1m (135')	DATE LOGGED: Sept 9, 1989	
HOLE TYPE: DDH					CORE SIZE: NQ	LOGGED BY: RW	

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
0	31.1	CASING								* bulldozed near drill site exposed by cat is pyritiferous light-blue-grey latite, well-fractured with 5+% fg	
31.1	~32	fg-mg Aldridge porph dyke, mod magnetic. (Kspar phenos?)	lt grey-green	~2mm felt laths ~40-50%, 10% dkgy phenos	fg-mg porph Aphanitic grn	wk pervasive propylitic Minor carb on fract (no pink)	≤1% disseminated fg	fg		Baked core from 31.1 to ~37m, strong clay gouge from 37-40m, solid core from 40-41m, hole ends in another zone of clay gouge. Fract predom 0-10° to CA, clay gouge zones at ~60° CA	
~32	~40	Latite fragmental with ~30-40% subr clasts from 1-4 cm. Clasts predom fg lt (?) latite within fg latitic matrix	Med grey green lt green clay gouge	fg to aphanitic	fragmental	clay assoc w shearing wk pervasive chlorite	5% fg 〃 3% 3%	disseminated fg veins fg	32-34 34-36 36-38 38-40	" "	Rep Sample 38.8m

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DRILL HOLE NO. CH89-03

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-03

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
32	40 CONT	May be flow breccia, no exotic clasts seen.							Clay gouge localized preferentially with fragmental (dykes may be post shearing - not pyritic, shearing only at contacts).	
									Rep Sample 38.8m = clasts and some (?) gm. stains for K-spar	
40	~41.1 EOH	Feldspar porph dyke - ~40% phenos to 3mm long, 5-10% Hb (cut augite?) locally wk - mod magnetic	Med to dk grey green	My phenos plagioclase gm	Porph	wk perv carb, wk perv clay wk chlor	Tr fg diss Py	6-8	From ~41m to end is cave and clay gouge (probable lower contact of dyke)	
									Rep Sample 40.5m = does not stain	

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DRILL HOLE NO. CH89-03

BPRB-2

DRILL HOLE NO. CH89-03

BP Resources Canada Limited
MINING DIVISION

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	TOTAL METRES	M.S. Sp~~.Gr~~	CORE RECOVERY %	CORE RECOVERY AMT. LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
	31.1	32.0	.9	.8	67	.3	56 ppm							
50092	32	34	2	0	50	1.0	7	54	.6	96	127	19	144	32
93	34	36	2	0	50	1.0	7	11	.6	196	157	16	132	37
94	36	38	2	0	25	1.5	8	22	.9	194	153	16	149	32
95	38	40	2	0	70	.6	8	200	.5	239	9466	9	69	39
	40	41.1	1.1	.2	100	0	lots of additional core							
					TOTAL RECOVERY = 60%									

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DRILL HOLE NO. CH89-03

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. 89-04

DRILLING CO: ADVANCE DRILLING	LOCATION SKETCH: N	DEPTH: COLLAR	TESTS DIP ANGLE: -47°	AZIMUTH: 135° from grid N	DATE STARTED: Sept 8, 1989	PROJECT: CHUCHI
					DATE COMPLETED: Sept 11, 1989	N.T.S.: 93N/7
					COLLAR ELEV: 1400m	LOCATION: IP LINE 2 - 480E
		200.25	-45°	grid N	NORTHING: 6123780	
					EASTING: 403150	
					AZIMUTH: 135° from grid N	
					DEPTH: 200.25m (657')	DATE LOGGED: Sept 9-11, 1989
HOLE TYPE: NH					CORE SIZE: NQ	LOGGED BY: RW.

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
0	9.14	CASING									
9.14	80.9	ALTERED PYRITIC FRAGMENTAL: relatively uniform and homogeneous lt to med pink-grey with consistent 10-15% vfg py as diss, clast replacement, dry fr-filling. Angular to subr clasts up to 5cm of fg grey tuff?, pinkish fg tuff, and fg flow in 50% 3m of fg plag and pyrite. Uniformly non-magnetic and massive. Clasts commonly obscured by strong alteration and/or shearing-broken core. No kspar! Orig composition andesitic?				Pervasive clay-sericite ?	12-15% fg Py		9.1-10		Poor recoveries from 9.1-16m (<65%), most core loss from 12m and 14m. Fracturing predom at 10-30° CA. Weak tectonic fabric developed locally at 30° CA assoc with perv dull pink mineral after plag (or mafics?) and fg py
							12-15		10-12		
							12-15		12-14		
							10%		14-16		
							12-15		16-18		
							12-15		18-20		14-16m is fr of vfg diss silver black metallic mineral (not mag or hem.)
							12-15		20-22		
											Average ~ 10-12 fr/m
											Overall hardness of rock is 3-4; alteration type possibly clay or sericite?, local dots of yellow-green waxy clay (?)
											No silica, carbonate, or kspar.

DRILL HOLE NO. CH 89-04.

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-04

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS (MINERALIZATION, TYPE, AGE RELATIONS)
9.14	80.9	Alt'd Pyritic Fragmental (con't)	Med grey with pink patches			Perv clay -sericite?	10% Py		22-24	- low core recovery (50%), 23.7 possible clast of yellow-green waxy mineral	
							10-15% Py		24-26		
							"		26-28		
	~20.14	- 23.5 m is	coarse fragmental				"		28-30		
		of lt to med	grey-green colour,				"		30-32	Major core loss and clay gouge 31-32.6m @ ~30° to CA	
		contacts broken with probable					"		32-34		
		fault at 23.5m. No decrease					"		34-36	Clasts not obvious from 23.5-42m, obscured by shearing/fract centred at ~37m	
		in Py. (could be large clast)				ONLY 5cm of core			36-38		
							15% Py		38-40	- Good Py clast replacement 38-40m	
							"		40-42	- Clots of waxy yellow-green mineral (clasts?)	
							"		42-44	- Distinct fragments evident	
							12-15% Py		44-46		
		Good clastic texture at 58-60m,								41.5m strong gouge	
		less obvious in broken and									
		sheared zones					10-15% Py		46-48	Solid core to ~54m, fr common @ 10° CA	
							"		48-50		
		No obvious alignment of				Perv alt	"		50-52		
		clasts				decreasing	"		52-54		
						in intensity	"		54-56	Major gouge 54.5-55.5, probable low	
							"		56-58	angle to CA, broken core 61.8-63.1m,	
							10-12% Py		58-60	66.1-67.3m, 70.1-72m, 75.3 →	
							12%		60-62	80.9 (contact) m. Extremely gouged, all	
							15%		62-64	zones @ 10-15° CA	
			lt to med grey				12-15%		64-66	Local clots of interstitial waxy yellow	
			colour				15%		66-68	green mineral (eg 69.3m)	
							10%		68-70		

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DRILL HOLE NO. CH 89-04

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-04

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS (MINERALIZATION, TYPE, AGE RELATIONS)
9.14	80.9 cont	Alt^{d} pyritic Fragmental	Med grey colour			Wk-mod perv chl- seric	10-12% Py 15% 12%		70-72 72-74 74-76	- only 50% recovery; st gouge @ 10-15° CA	
							12%		76-78	- major gouge zone 75.3-80.9 m, fault bx still contains 10-15% Py, shears 10-30° CA, py milled to black film on shears but still intact as crystals within clay filled bx	
		73.7 m is good fragmental texture with extremely pyritic gm					12%		78-80		
		Contact at ~80.9 m marked by fault, pyrite continues into lower unit									
80.9	84.4	Crowded fg feldspar-porphyry andes-dacite: stubby plag phenos 1-2 mm comprise 60%, bb latks 1-2 mm ~10% with mod replacement by Py. No alignment of phenos. Gm is vfg plag + py. No primary Kspar (does not stain) Lt to med green colour	Minor carb fill, wk-mod seric				10% Py 12-15%		80-82 82-84	Broken core from 84-86 m marks contact with latite fragmental. Small zone of increased magnetism at ~85 m due to 1% diss Mt (could be a small dyke within this broken zone)	
84.4	96.3	Latite Fragmental: med grey-green, subr andes-dac crowded porph clasts and fg latite from 1-10 cm; fg to aphanitic gm is pyritic.	Wk-mod perv chlor- seric, minor carb fill				5-7% Py 10-15% 10-15% 7-10% 10%		84-86 86-88 88-90 90-92 92-94	- 88.9-89.3 m gouge at 20° CA - some pyrite clast replacement - 93.6-94.2 m gouge at 20° CA	

DRILL HOLE NO. CH 89-04

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-04

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS (MINERALIZATION, TYPE, AGE RELATIONS)
84.4	96.3	Latite Fragmental					10% Py		94-96		
	CONT	- variable % gm but matrix supported									
		- From 90-96.3m clasts are rare, could be feldspar-rich crystal tuff ± lithic clasts									
96.3	100.5	Crackle brecciated tuff with fg magnetite matrix:				wk chl-seric	Py 4-7% Mt 3-5%		96-98		
		- host rock appears to be same as above but brecciated (no clast rotation) Mt also dissem in clasts					"		98-100		
							Py 10%		100-102	- gouge at 45° CA, 50% recovery	
		- continues to gouge zone at 100.5m									
		- upper contact at 96.3m marked by sharp increase in Mt and - bx, less Py (Mt replaces Py or vice versa?)									
100.5	~106.0	Latite Fragmental:				wk-mod chl-seric Perv carbonate in gm		12% Py 12-15%	102-104 104-106	- gouge 102-102.7m - broken core sub // CA	
		- similar to 84.4-96.3m									
		- 5 bins ~50% fs-kspar predom in clasts. Gm is fg to mg feld porphyritic. Med to dark green									

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DRILL HOLE NO. CH 89-04

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-04

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
~106.0	122.0	Feldspar porphyry flow:				wk chl-carb	12-15% diss fg Py		106-108	wk propylitic alt'n throughout — no epidote	
		- homogeneous flow with rare clasts, trachytic texture					10% "		108-110		
		- med green colour				Mod perv carbonate	"		110-112		
		- composition is latite — several samples from 107.7 to 121.0m stain 30+ % for kspar					"		112-114		
							"		114-116		
							"		116-118	116.3-116.7 small auto-bx zone	
							"		118-120		
						↓	"		120-122		
122.0	~139.5	Fine-gr porphyry flow: (latik)				wk chl-seric, mod-st carb on micro-fr	5-7% Py		122-124	Py ends at ~123.1 where Mt starts	
		- fld and Hb phenos ≤1mm comprise ~30% in med green aphanitic gm (kspar-rich)					3%	Mt diss	124-126		
							"		126-128	10% Py in local fault bx	
							"		128-130	- phenos larger, matrix is chilled (?), up to 20% Py in fragmental band 128.2-128.35m	
		- distinctly magnetic (increased mag at ~123.1 due to 3% diss vfg Mt)					3-10% Py		130-132		
						Mod-st chl-seric-py	2-15%		132-134	Pyritization from 130-139.5m is localized by fracturing and brecciation	
							"		134-136		
		- contact at 122.0 gradational over 10-20cm				carb	5-10% Py		136-138	Py replaces Mt along fr envelopes	
							"		138-140	Some cg silvery sericite pseudomorphs Hb	
		128.2-128.35m is fragmental pyritic band or clast, sharp pyritic upper contact @ 15-20° CA. Subang felsic clasts ~35% within matrix of fg porphyry								133.2-134.0 is fault gouge bx @ 10° CA	
		- gm stains for kspar, phenos of plag do not.								Chilled contact from 139-141m	
										136-142m 0-25° CA fract with thin clayey coatings ± hematite	
										Pyritic envelopes form darker brownish bands at various orientations ± carb fr-fill in centre	

DRILL HOLE NO. CH-89-04

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-04

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS (MINERALIZATION, TYPE, AGE RELATIONS)
139.5	200.25	Hb-Feld porphyry flow:			V	wk chl-epid	3-4% Mt, no Py		140-142	Calcite mod common on fr @ 45-60° CA	
	EOH	-fg to mg, dark to med grey-green							142-144	Wk local alignment of phenos throughout at ~30° CA	
		-trachytic to latitic							144-146		
		-122-139.5 may represent chilled equivalent of this unit			~	Fresh			146-148		
									148-150		
							Minor local Py		150-152	-151.3m is vfg py along 3cm wide sulphidized envelope @ 45° CA	
							3-4% Mt		152-154		
		-Hb 5-10% as 2-5mm laths, plag 1-2mm ~20%							154-156		
						wk chl-epid			156-158		
						} epidot²			158-160	} up to 8/m of 2-4 cm wide epidot²	
	*	-uniformly mod-st magnetic				} fr envelopes			160-162	} fr envelopes @ 45-60° CA commonly	
		-aphanitic med to dk grey green gm, rare lithic inclusions				wk perv epid			162-164	with 1mm calcite centres	
									164-166		
									166-168		
		-uniform 3-4% fg diss Mt							168-170		
									170-172		
	*	Several samples from 146.1 to 187.6 stain for primary ksp, gm is predom ksp, phenos are plag							172-174		
								5% Py	174-176	-174.5-175.5 m Py ~5% occurs as fract	
									176-178	envelopes forming crackle bx (Cf. 130.2m)	
									178-180	Broken core 178.9-179.3 m	
									180-182		
									182-184	176-192 m increased fract + carb fr-fil ± hematite	
	*	probably correlates with unit at bottom of 87-05 and top of 87-06							184-186		
									186-188		
									188-190		
									190-192		

2-86dB

DRILL HOLE NO. CH 89-04

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-04

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
139.5	200.25	Hb-feld porph flow				v.wk ch	-	0-2% Mt	192-194	191.9-197.2 m is zone of strong fract, carb fr-fill, gouge; decrease in Mt from 192.5-198.8 correlates with most intense fracturing (0-45° CA)	
	CONT					epid		"	194-196		
						↓	Py 3-5%	"	196-198		
								"	198-200.25 EOH		
										Pyrite From 195.8 – EOH occurs as vfg diss along Fract envelopes.	

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DRILL HOLE NO. CH 89-04

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S Gp Gr	CORE RECOVERY %	CORE RECOVERY AMT. LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Bi ppm
50096	9.1	10.0	.9	0	55	.4		5	.4	62	39	18	8	13
	10	12	2	.1	65	.7								
97	12	14	2	.1	55	.9		2	.1	25	43	10	4	23
98	14	16	2	0	50	1.0		5	.2	32	23	4	7	15
99	16	18	2	0	90	.2		8	.2	39	32	3	6	13
50100	18	20	2	0	55	.9		7	.2	72	40	8	9	14
01	20	22	2	0	60	.8		7	.6	246	29	16	71	25
02	22	24	2	0	60	.8		7	.6	121	39	20	38	22
03	24	26	2	0	60	.8		11	.8	188	46	17	46	23
04	26	28	2	.1	85	.3		18	.7	175	59	23	50	24
05	28	30	2	0	80	.4		12	1.2	103	55	38	29	16
06	30	32	2	0	20	1.6		1	.6	37	46	18	19	18
07	32	34	2	0	65	.7		13	.9	57	37	41	32	15
08	34	36	2	0	65	.7		1	.6	76	32	37	14	17
No Sample	36	38	2	0	3	1.95	* No Sample							
09	38	40	2	0	90	.2		1	.5	121	58	15	21	15
50110	40	42	2	0	85	.3		6	.4	241	110	9	21	23
11	42	44	2	.1	90	.2		10	.5	327	139	11	26	20
12	44	46	2	0	100	0		4	.2	39	27	12	9	19
13	46	48	2	0	95	.1		1	.3	55	32	13	12	18
14	48	50	2	0	100	0		1	.2	53	40	17	12	17
15	50	52	2	.1	85	.3		3	.3	53	53	12	12	20
16	52	54	2	0	80	.4		8	.2	54	41	14	11	19
17	54	56	2	0	65	.7		3	.2	40	33	4	10	18
18	56	58	2	.1	90	.2		4	.1	40	30	2	11	18
19	58	60	2	0	55	.9		5	.1	18	34	4	7	19

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DRILL HOLE NO. CH89-04

BP Resources Canada Limited
MINING DIVISION

DRILL LOG sample data

SAMPLE				N.S.	CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	~~Sp. G.~~	%	AMT. LOST		Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
50120	60	62	2	0	90	.2		4	.1	23	24	2	7	22
21	62	64	2	0	75	.5		1	.2	62	28	15	13	15
22	64	66	2	.1	100	0		3	.1	31	33	9	9	15
23	66	68	2	.1	80	.4		3	.2	50	25	10	11	13
24	68	70	2	.1	95	.1		10	.3	51	24	21	13	18
25	70	72	2	0	50	1.0		7	.4	54	26	27	15	23
26	72	74	2	0	85	.3		1	.5	94	29	16	22	24
27	74	76	2	0	70	.6		19	.7	67	21	27	22	72
28	76	78	2	0	60	.8		4	.6	51	22	18	46	37
29	78	80	2	.1	55	.9		20	1.1	56.4	31	29	41	36
30	80	82	2	0	65	.7		22	1.8	174	35	16	209	24
31	82	84	2	.1	55	.9		10	1.4	124	26	17	243	27
32	84	86	2	.4	40	1.2		9	.8	93	22	19	146	43
33	86	88	2	.1	90	.2		22	1.1	70	36	22	132	30
34	88	90	2	.1	100	0		171	1.1	56	108	22	128	35
35	90	92	2	.1	100	0		44	1.2	126	37	16	173	36
36	92	94	2	.1	65	.7		55	.8	88	26	14	141	34
37	94	96	2	.1	95	.1		87	1.3	139	67	30	182	30
38	96	98	2	1.0	100	0	* CONTACT	21	.6	35	51	15	138	89
39	98	100	2	2.1	90	.2		17	.5	39	81	18	145	115
40	100	102	2	.3	50	1.0	* CONTACT	31	3.6	130	93	38	105	28
41	102	104	2	.1	75	.5		47	1.5	252	37	25	217	33
42	104	106	2	.1	65	.7		28	.8	54	17	11	183	38
43	106	108	2	.1	75	.5		23	.7	149	18	16	136	30
	108	110	2	.1	100	0								
44	110	112	2	.1	90	.1		10	.6	163	18	19	107	37

DRILL HOLE NO. CH 89-04

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S. Sp. Gr	CORE RECOVERY %	CORE RECOVERY AMT. LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
	112	114	2	0	100	0								
50145	114	116	2	.1	100	0		15	.4	112	28	15	133	36
	116	118	2	0	100	0								
146	118	120	2	0	95	.1		13	.8	136	164	33	211	39
	120	122	2	0	100	0								
147	122	124	2	.7	100	0	* CONTACT	20	.6	50	37	92	242	70
	124	126	2	.5	95	.1								
148	126	128	2	.4	100	0		33	1.9	64	56	398	795	73
	128	130	2	1.5	100	0								
149	130	132	2	0	85	.3		43	.3	49	97	34	229	42
150	132	134	2	.1	100	0	Pyrrhotite Mt	163	1.1	69	232	97	392	24
	134	136	2	.1	100	0								
151	136	138	2	0	80	.4		84	.5	37	144	71	626	59
	138	140	2	.4	85	.3	* CONTACT							
152	140	142	2	1.2	60	.8		54	.2	59	57	12	127	181
	142	144	2	2.4	75	.5								
	144	146	2	2.4	100	0								
153	146	148	2	2.7	100	0		6	.1	31	17	4	63	157
	148	150	2	2.5	95	.1								
	150	152	2	2.1	100	0								
154	152	154	2	2.7	100	0		10	.1	48	22	8	71	303
	154	156	2	3.0	100	0								
	156	158	2	3.0	100	0								
155	158	160	2	3.1	100	0		6	.2	67	20	7	49	148
	160	162	2	3.2	100	0								
	162	164	2	3.2	100	0								

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DRILL HOLE NO. CH 89-204

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S. ~~Sp Gr~~	CORE RECOVERY %	CORE RECOVERY AMT. LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Sb ppm	Zn ppm	Ba ppm
50156	164	166	2	2.4	100	0		7	.1	80	15	13	56	214
	166	168	2	3.5	95	.1								
	168	170	2	1.8	100	0								
157	170	172	2	1.3	95	.1		1	.1	77	15	7	64	119
	172	174	2	2.4	100	0								
158	174	176	2	3.1	95	.1		2	.1	72	14	9	73	87
	176	178	2	2.4	95	.1								
	178	180	2	3.2	95	.1								
159	180	182	2	2.5	85	.3		3	.1	75	10	7	75	73
	182	184	2	2.9	95	.1								
	184	186	2	2.9	90	.2								
160	186	188	2	2.8	80	.4		2	.2	75	15	7	98	117
	188	190	2	2.6	70	.6								
	190	192	2	2.6	90	.2								
161	192	194	2	.3	65	.7	*CONTACT } dear/fr	7	.2	106	28	10	129	56
	194	196	2	.1	65	.7	*CONTACT } zone - Mt							
162	196	198	2	2.1	95	.1	destruction	20	.2	76	109	14	172	111
	198	200.25	2.25	1.5	40	1.35								

TOTAL RECOVERY = 76%

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DRILL HOLE NO. CH-89-04

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-05

DRILLING CO: ADVANCE	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: SEPT 11, 1989	PROJECT: CHUCHI	
		COLLAR	-90°	—	DATE COMPLETED: SEPT 15, 1989	NTS: 93N/7	
					COLLAR ELEV: 1400 m	LOCATION:	
					NORTHING: 6123780		
					EASTING: 403150		
					AZIMUTH: —		
HOLE TYPE					DEPTH: 108.8 m	DATE LOGGED: SEPT 13-15, 1989	
					CORE SIZE: NQ	LOGGED BY:	

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS (MINERALIZATION, TYPE, AGE RELATIONS)
0	6.1	CASING								
6.1	20.0	ALTERED SERICITE-PYRITIC FRAGMENTAL	Medium grey, aphanitic to fine grained fragmental with .5 to 10 cm l/ang. subangular to angular fragments. 10-15% fracture filled, replacement, and disseminated very fine grained sub to euhedral pyrite cubes. Fragments are partially replaced by pyrite, as well as rimmed by pyrite. Clasts appear to be volcanic with the similar texture as groundmass. Occasional fragment (xtal.) of gypsum. Fragments are mod to strongly aligned @ ~45° C.A. Non calcareous, non-magnetic. Rock is mainly feldspar which has been very strongly altered to sericite. Mafics (~5%)						4 to 6 fractures per metre @ 30° to 45° C.A. 6.1 fault gouge @ 15° C.A. - yellowish brown clay 6.5-6.6 fault gouge @ 15-20° C.A. - yellowish brown clay	

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-05

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
		CONT.	Possibly hard bleached altered to a pinkish clay (? mineral (1 to 3 mm long, prismatic). No Kspar from representatives.				stained			
6.1	8.0	Fragmental	Pyrite repl of clasts				10-15% diss, frac, repl v.f.g. py		6.1, 6.5 to 6.6 Fault gouge @ ~15° C.A.	
8.0	10.0	Fragmental	Pyrite repl of clasts no kspar.				10-15% diss, frac, repl v.f.g. py		9.4-9.7 Fracture @ ~10° C.A. yellowish-brown clay	
10.0	12.0	Fragmental	As above				10-15% diss, frac, repl v.f.g. py			
12.0	14.0	Fragmental	As above				10-15% diss, frac, repl v.f.g. py.		12.5, 12.8, 13.7 Fault gouge @ 45° & 60° C.A. 4 to 6 fractures per metre @ 45° C.A.	
14.0	16.0	Fragmental	As above				10-15% diss, frac, repl v.f.g. py		15.9 Fault gouge. No C.A.	
16.0	18.0	Fragmental	Broken core				10-15% diss, frac, repl v.f.g. py		16.1, 16.3 Fault gouge No C.A. (45°?)	
18.0	20.0	Fragmental	Broken core - fault zone				10-15% diss, frac, replacement of very fine grained pyrite		18.0-20.0 Mainly fault zone - rounded broken core with gouge material mixed in.	

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BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-05

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
20.0	24.3	HORNBLENDE FELDSPAR PORPHYRY	Medium to dark green, fine to medium grained, with 20% hornblende prismatic phenocrysts 1 to 3 mm long and 15-20% tabular plagioclase phenocrysts 1 to 3 mm long. There is 5-15% (local areas) of replacement, fractures and disseminated very fine grained pyrite. No Kspar in stained representatives. Possible dyke.						Fault contact - no C.A. - rounded broken core.	
20.0	22.0	H.F.P.	Light to medium green slightly altered due to upper contact with fault.				5 to 10% diss, repl, frac. v.f.g. py.		Upper fault contact (no C.A.) rounded broken core.	
22.0	24.3	H.F.P.	med to dark green - local shear zone.				5 to 10% diss, repl, frac. v.f.g. py		22.9 - 23.1 local "sheared" zone with 15%+ pyrite in fractures @ 45° C.A.(?) - distorted.	
24.3	30.0	ALTERED SERICITE - PYRICTIC FRAGMENTAL	Med grey, fine to medium grained with 15% (+) of replacement, fractures and disseminated very fine grained pyrite. Fragments from .5 to 5 cm are rimmed with pyrite. Non calcareous, non magnetic. Similar to 6.1 to 20.0. Fragments are subrounded to subangular. No Kspar.						Upper contact - last core (broken) 10 to 15 fractures per metre mainly @ 45° C.A.	

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BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-05

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
24.3	26.0	Fragmental	Hornblende feldspar porphyry grading into a sheared U.F.P. and a fragmental with the same porphyry texture but altered and pyritic.				5 to 10% diss, repl frac v.f.g. py			
26.0	28.0	Fragmental					15% diss, repl, frac v.f.g. py			
28.0	30.0	Fragmental	28.1-29.0 late stage carb fracture distorted - discontinuous				15% diss, repl, frac v.f.g. py		29.2 Fault gouge @ 45° C.A.	
30.0	54.0	ANDESITE FRAGMENTAL (CRYSTAL LITHIC TUFF)	Medium to dark green, fine to medium grained, hornblende-feldspar microporphyritic to porphyritic with prismatic hornblende crystals (20%) from .5 to 3mm long and plagioclase tabular crystals (15%) from 1 to 3 mm long. Disseminated, replacement, fractures of very fine to fine grained pyrite (10-15%). Fragments make up 10 to 50% of the rock. They range in size from .5 to 10 cm and may be as large as 20 cm. Average length is 3 to 5 cm. Fragments are composed of similar material as ground mass. with occasional fragment being a coarser grained feldspar porphyry (up to 4 mm plag phenocrysts). Many of the						Gradational contact. 4 to 6 fractures per metre mainly @ 45° C.A. ALTERATION Plagioclase crystals are mod-strongly altered to sericite. The mafics are weak to mod altered to chlorite and partially replaced by pyrite. Light pink-yellowish clay mineral (v.f.g. diss). Unit may be the same as altered pyritic fragmental. Unit may also be a latite fragmental with the k-spar altered to clay.	

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BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-05

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
		CONT.	fragments are replaced and/or rimmed by very fine grained pyrite. Note at 35.2 small fragment replaced by amethyst, calcite, and small (≤1mm) hexagonal crystals of quartz within carbonate cement. Weak to mod. calcareous, occasional calcite crystal and late stage carb fractures - discontinuous. Fragments are subrounded to subangular. Kspar varies from 5 to 10% from stained representatives.							
30.0	32.0	Fragmental	Hornblende-feldspar microporphyry occ. blebs of fg. euhedral pyrite cluster.				10-15% diss, frac repl. fg. py		4 to 6 Fractures per metre @ 30° to 45° C.A.	
32.0	34.0	Fragmental	Fragments 10-20%. Sections with med grained feldspar porphyry. 5% Kspar				10-15% diss, frac, repl. fg. py		4 to 6 fractures per metre @ 30° to 45° C.A.	
34.0	36.0	Fragmental	Fragments 20-30%. 10% Kspar				10-15% diss, frac, repl. fg. py		6 fractures per metre @ 30° to 45° C.A.	
36.0	38.0	Fragmental	Small section which appears sheared and py flooded.				15% diss, frac, repl fg. py.		40-50 microfractures of pyrite per metre (distorted.)	

DRILL HOLE NO. CH-89-05

BP Resources Canada Limited
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DRILL LOG

HOLE NO. CH-89-05

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
38.0	40.0	Fragmental	Fragments are the rock. Pyrite flooding		40-50% of		15%+ f.g. pyrite	diss, frac, repl		38.2 fault gouge @ 20° C.A. 39.9 fault gouge @ 60° C.A.	
40.0	42.0	Fragmental	Fragments are the rock. 5% Kspar		40-50% of		15% f.g. py.	+ diss, frac, repl.			
42.0	44.0	Fragmental	Fragments are rock		20% of the		10-15% f.g. py	diss, frac, repl			
44.0	46.0	Fragmental	Fragments are rock. 5% Kspar		20% of the		10-15% f.g. py	diss, frac, repl			
46.0	48.0	Fragmental	Fragments are rock.		10% of the		10-15% repl. v f.g. py	diss, frac,			
48.0	50.0	Fragmental	Fragments are rock. 5-10%		10% of the Kspar		10-15% repl., v.f.g.	diss, frac., py.		4 to 6 fractures per metre @ 30° to 45° C.A. Randomly orientated microfractures of py ~20 to 30 per metre.	
50.0	52.0	Fragmental	Fragments are the rock.		40-50% of		15%+ v.f.g.	diss, frac, repl py		50.9 Fault gouge @ 45° C.A.	
52.0	54.0	Fragmental	Fragments are rock. 10% Kspar		20% of the		15%+ v.f.g.	diss, frac, repl py		20 to 30 microfractures per metre of py mainly @ 75° C.A.	

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-05

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
54.0	60.0	LATITE FLOW	Medium to dark green, fine to medium grained, slight hornblende - feldspar porphyry with less than 10% of the rock containing fragments. Fragments appear less than 2cm. Hornblende (10-15%) occuring as short prismatic crystals ~1mm long. Plagioclase (10-15%) occuring as tabular crystals ~1mm long. Pyrite (10-15%) occuring as disseminated, micro-fractures, and replacement in subhedral to euhedral very fine grains. Weak to mod calcareous, non to slightly magnetic (local zones). Occasional carbonate blebs 1 to 3 cm long (vug-fracture(s)) 30% Kspar from stained representative						4 to 6 fractures per metre @ 30° to 45° C.A., 20 to 30 microfractures of pyrite @ 45° to 75° C.A. ALTERATION Hornblende crystals weakly altered to chlorite - Plagioclase - weakly altered to sericite. Pyrite partially replacing some of the mafics.	
54.0	56.0	Latite Flow					15% diss, frac, repl py: v.f.g.		Gradational contact from upper unit	
56.0	58.0	Latite Flow	Slight microporphyry		hornblende - feldspar		15% diss, frac, repl py v. f.g.			
58.0	60.0	Latite Flow	Occ.	Fragments 30%	Kspar		15% diss, repl, frac. v.f.g. py		58.0 - 2cm wide veinlet - may be sheared flow recrystalized @ 20° C.A. with 5% v.f.g. diss. py	

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DRILL HOLE NO. CH-89-05

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-05

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
60.0	69.0	LATITE INTRUSIVE TO SUBVOLCANIC SUBPORPHYRITIC FELDSPAR PORPHYRY BRECCIATED	Medium grey, fine to medium grained with clasts from .5 to 5cm. 15%+ of disseminated, fracture-filled, replacement very fine grained pyrite. Fragments are subrounded to subangular and range in size from .5 to 5cm. The clasts are of the same texture as the groundmass but are moderately altered to chlorite, sericite and partially replaced by pyrite. Clasts make up 10-40% of the rock. Kspar is 20-40% from stain representatives.						Gradational contact.	
60.0	62.0	Latite	Breccia with most of the pyrite occuring rimmed around fragments. 70%+ Fragments.				15-20% v.f.g. diss, frac, repl py		30 to 40 microfractures per metre of v.f.g. py randomly orientated - late stage continuous fractures @ 45° C.A.	
62.0	64.0	Latite	Breccia as above. 20% Kspar				15-20% v.f.g. diss, frac, repl py		30 to 40 microfractures per metre as above.	
64.0	66.0	Latite	Breccia as above 30-40% Kspar				15-20% v.f.g. diss frac, repl py		64.2-65.9 Fault gouge lost >60% core orientation may be 45° C.A. (?)	

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO CH-89-05

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
66.0	68.0	Latite	Breccia	as above			15-20% diss, v.f.g. py	frac, repl			
68.0	70.0	Latite	Breccia core at 69.0 estimated contact	as above. rounded broken			15-20% diss, v.f.g. py	frac, repl		4 to 6 fractures per metre @ 45-60° C.A. 30+ microfractures per metre randomly orientated.	
69.0	86.0	LATITE FRAGMENTAL	Medium to dark green, fine to medium grained with 10-15% fine grained prismatic hornblende crystals and 10-15% fine grained (1 to 3 mm) laths of plagioclase. 10 to 15% very fine grained pyrite occuring as disseminated, replacement of fragments and fracture-filling. Fragments are .5 to 15 cm long (average about 3 cm long), subrounded to subangular. Calcareous, non magnetic. Trace of quartz "eyes"							6 to 8 fractures per metre @ 30-45° C.A. and 75° C.A.	
70.0	72.0	Latite Frag.	Rounded broken core				10-15% diss, repl, frac v.f.g. py.			70.0 Fault gouge @ 30° C.A.	
72.0	74.0	Latite Frag.	Rounded broken core				10-15% diss, repl, frac v.f.g. py				
74.0	76.0	Latite Frag	Fragments 50-70% of rock				10% diss, repl, frac v.f.g. py			qtz eyes in representative	

DRILL HOLE NO. CH-89-05

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DRILL LOG

HOLE NO. CH-89-05

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
76.0	78.0	Latite Frag.	Groundmass appears sub-porphyritic				3-5% diss, repl, frac v.f.g. py			Low angle fracture @ 10° C.A. Local magnetic "clast" @ 77.5	
78.0	80.0	Latite Frag.	As above. blebs of carb. local zones up to 10% f.g. m.g. py				5-10% diss, blebs, repl frac f.g. py			6 to 8 fractures per metre, 30 to 40 microfractures of v.v.f.g. pyrite	
80.0	82.0	Latite Frag	As above				10-15% diss, blebs, repl, frac f.g. py			6 to 8 fractures per metre. 30 to 40 microfractures of v.v.f.g pyrite.	
82.0	84.0	Latite Frag	As above				10-15% diss, blebs, repl, frac f.g. - m.g. py			6 to 8 fractures per metre. 30 to 40 microfractures per metre of v.v.f.g. pyrite.	
84.0	86.0	Latite Frag	As above				10-15% diss, blebs, repl, frac f.g. - m.g. py			6 to 8 fractures per metre. 30 to 40 microfractures per metre of v.v.f.g. pyrite.	
86.0	108.8	FELDSPAR PORPHYRY	Dark green, fine grained with 1 to 3mm long tabular (laths) of plagioclase 20%. Very fine grained (1mm) prismatic hornblende crystals (18-15%). Disseminated and occasional fracture of very fine grained euhedral pyrite cubes (2 to 10%). Plagioclase laths aligned @ 45° C.A. Weakly calcareous, weak to mod magnetic (trace to 1% magnetite locally the magnetite is being replaced							4 to 6 fractures per metre @ 20 to 45° C.A. most @ 45° C.A. Mainly infilled with carbonate, few contain pyrite with the carbonate.	

DRILL HOLE NO. CH-89-05

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MINING DIVISION

DRILL LOG

HOLE NO. CH-89-05

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS (MINERALIZATION, TYPE, AGE RELATIONS)
		CONT.	by pyrite. Near end of unit plagioclase laths are altered to epidote. Unit is quite homogenous.								
86.0	88.0	F.P.	med grained - homogenous				5% diss fg. py			Broken core. Fractures @ 45° C.A.	
88.0	90.0	F.P.	fine - med grained				5% diss fg. py			Fractures @ 20-45° C.A	
90.0	92.0	F.P.	medium grained				5-10% diss fg. py			Fractures @ 20-45° C.A	
92.0	94.0	F.P.	medium grained				2-5% diss fg. py			Fractures @ 20-45° C.A	
94.0	96.0	F.P.	medium grained				Tr-2% diss fg. py Tr cpy in carb fracture			Fractures @ 20-45° C.A	
96.0	98.0	F.P.	medium grained				2-5% diss fg. py			As above	
98.0	100.0	F.P.	py repl. magnetite, tr. epidote along fractures				5% diss fg. py			Fractures mainly @ 45° C.A.	
100.0	102.0	F.P.	medium grained, py replacing magnetite, Tr. epidote along frac.				Tr-3% diss fg. py			As above	
102.0	104.0	F.P.	medium grained, py repl. magnetite? plagioclase altering to epidote				Tr-2% diss fg. py			As above.	

DRILL HOLE NO. CH-89-05

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-05

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
104.0	106.0	F.P.	medium grained. py repl magnetite. plag altering to epidote				Tr-5%	diss f.g. py		105.3-105.4 Fault gouge no C.A broken 105.9-106.0 Fault gouge no C.A	
106.0	108.8 E.O.H.	F.P. - Fault gouge	Fault gouge - sand with 5 to 10% v.f.g. pyrite. 2 pieces of core 2-3cm long with 15 to 20% f.g. diss py HOLE LOST IN "SAND" (FAULT ZONE)				5-10%	v.f.g. py		106.0-108.8 - Fault zone - sand material with 5-10% v.f.g. py	

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DRILL HOLE NO. CH-89-05

CH-89-05

BP Resources Canada Limited
MINING DIVISION

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	TOTAL METRES	MAG. SUS. SI=CGS	CORE RECOVERY %	CORE RECOVERY AMT. LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
50163	6.1	8.0		0	65	.7		6	.6	36	33	9	23	18
50164	8.0	10.0		0	100	0		2	.1	33	12	4	7	24
50165	10.0	12.0		0	100	0		7	.3	63	36	11	7	14
166	12.0	14.0		0	100	0		9	.3	100	45	12	12	14
167	14.0	16.0		0	70	.6		11	.4	95	49	19	13	16
168	16.0	18.0		0	50	1.0		6	.3	104	43	26	15	20
169	18.0	20.0		0	25	1.5		8	.5	111	68	26	20	22
170	20.0	22.0		0	50	1.0		5	.5	84	40	16	186	25
171	22.0	24.0		0	95	.1		7	1.7	132	37	16	107	22
172	24.0	26.0		0	85	.3		3	.4	90	29	16	98	23
173	26.0	28.0		.1	100	0		5	.2	142	19	13	112	14
174	28.0	30.0		0	90	.2		11	.7	137	47	25	115	11
175	30.0	32.0		0	85	.3		7	.7	147	45	21	122	21
176	32.0	34.0		0	95	.1		6	.6	154	33	16	145	29
177	34.0	36.0		0	100	0		2	.4	126	29	11	115	14
178	36.0	38.0		0	100	0		13	1.0	60	45	30	96	7
179	38.0	40.0		0	100	0		7	.7	66	33	11	97	25
180	40.0	42.0		0	90	.2		3	.4	76	27	17	120	22
181	42.0	44.0		0	95	.1		6	.4	57	35	16	88	25
182	44.0	46.0		0	95	.1		3	.5	132	32	18	109	22
183	46.0	48.0		.1	100	0		2	.9	96	34	25	107	17
184	48.0	50.0		0.1	95	.1		2	.5	239	27	16	168	34
185	50.0	52.0		0.1	75	.5		8	1.0	69	38	137	275	27
186	52.0	54.0		.1	90	.2		5	.6	133	26	21	158	27
187	54.0	56.0		.1	100	0		7	.5	119	23	15	145	28
50188	56.0	58.0		1.5	100	0		1	.3	137	9	11	155	51

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DRILL HOLE NO. CH-89-05

CH-89-05

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	Sp. Gr	%	AMT. LOST		Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
50189	58.0	60.0		0.3	100	0		2	.4	263	13	10	124	39
190	60.0	62.0		0	90	.2		1	.9	541	17	25	63	21
191	62.0	64.0		0	100	0		5	1.3	213	5	13	67	19
192	64.0	66.0		0	35	1.3		3	1.3	256	41	151	322	28
193	66.0	68.0		0	100	0		6	.8	216	8	20	79	23
194	68.0	70.0		0	70	.6		2	1.5	250	17	13	109	30
195	70.0	72.0		0	60	.8		1	.5	192	19	16	254	64
196	72.0	74.0		0	35	1.3		1	.5	252	19	17	244	76
197	74.0	76.0		0	95	.1		1	1.1	71	21	23	72	36
198	76.0	78.0		0.7	85	.3		1	.4	171	3	5	160	121
199	78.0	80.0		0.1	100	0		9	1.4	243	15	20	189	29
200	80.0	82.0		0	85	.3		1	1.2	427	9	12	212	31
50201	82.0	84.0		0	100	0		13	1.6	536	13	18	117	20
202	84.0	86.0		0	70	.6		19	1.5	168	59	14	155	20
203	86.0	88.0		0.1	80	.4		5	.4	94	58	6	97	33
204	88.0	90.0		1.0	40	.2		1	.5	180	22	6	100	28
205	90.0	92.0		1.0	95	.1		3	.5	143	25	15	118	55
206	92.0	94.0		1.0	65	.7		3	.6	313	22	8	115	47
207	94.0	96.0		1.4	75	.5		1	.4	150	7	8	113	80
208	96.0	98.0		2.0	100	0		1	.7	217	18	13	119	58
209	98.0	100.0		2.3	100	0		13	.5	83	39	10	106	90
210	100.0	102.0		2.0	100	0		1	.5	81	64	7	104	65
211	102.0	104.0		2.2	100	0		1	.3	105	10	5	106	326
212	104.0	106.0		0.5	85	.3		4	1.2	96	45	67	115	30
213	106.0	108.8	E.O.H.	0.5	17	3.4		11	1.3	164	65	149	273	15

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DRILL HOLE NO. CH-89-05

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-06

DRILLING CO: Advance Drilling	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: Sept 15, 1989	PROJECT: Chuchi	
		COLLAR 196m	-45°	120°	DATE COMPLETED: Sept 20, 1989	N.T.S.: 93N/7	
			-45°		COLLAR ELEV.: 1330 m	LOCATION:	
					NORTHING: 6123965		
					EASTING: 402945		
					AZIMUTH: 120°		
HOLE TYPE: ΔΔH					DEPTH: 196 m (643')	DATE LOGGED: Sept 17-21, 1989	
					CORE SIZE: NQ	LOGGED BY: RJ	

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
0	15.2	CASING								Subsequently deepened to 39.6m (no core recovered from 32.6-39.6m).	
15.2	32.6	TRACHYTE PORPHYRY:									
		- medium to dark grey green,				Mainly gouge	2% fg diss Py after Hl and Hb		15.2-18	Extremely broken with abundant fault gouge bx from 15.2 - 30.0m; commonly 30° to CA	
		- plag laths .5 to 4mm ~20-25%,				Mod chl, wk-mod epidote	2% Py		18-20		
		Hb .1-2mm ~5-10%, aphanitic					1% Py		20-22		
		kspar gm 60-70% (+stained)									
		- subrounded clasts/inclusions of					2-3% Py		22-24	Intact fault gouge bx 23.0-23.6m @ 30° CA	
		mafic volc .5-3cm in size,									
		locally comprise up to 20%, clasts					3-4% Py,		24-26	Mainly gouge, bleached.	
		commonly rimmed by epidote;				Local carb fr-fill	minor as dry fr-fill				
		plag laths show flow alignment									
		around clasts									
		- flow or sill?				Clay+carb	3-4%	diss Py	26-28	≤ 50% recovery, mainly gouge	
		- ~2% primary diss Hl commonly									
		altered to pyrite				Mainly chl	3-4%	diss Py	28-30	" "	

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MINING DIVISION

DRILL LOG

HOLE NO. CH 89-06

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
15.2	32.6	TRACHYTE PORPH				Wk chl, tr epid	3% diss Py		30-32.6	CF: 89-04 82.2m and 89-05 91.8m	
	CONT	- 29.5m plag is more stubby, mod foliation at ± 30° CA, has angular mafic inclusions; 50+% kspar in gm (latite to trachyte).									
32.6	39.6	Casing deepened - no core recovered									
39.6	58.7	Tuff or Flow (ALTERED):									
		- lt grey to grey-green, abundant fract'r, pyritization and local flooding by kspar and albite (?).				Clay-carb seric, mafics completely altered	5-7% diss fg and fr-fill Py		39.6-42	Fractures predom @ 45° CA, pyritic envelopes locally	
		- alteration and faulting obscure primary features, uniformly non-magnetic					8-12% Py diss + fr-fill		42-44	Intense bleaching from 42-43 m, brecciated with py-carb matrix. 75% perv kspar in stained sample 43.0 m (secondary?)	
		- bleached due to perv of mafics to pale pink mineral, primary kspar (60+%) in gm unchanged, plag phenos to 1mm ~ 15%), rare qtz phenos ~1mm compose 2-3%					12% Py diss = fr-fill		44-46	43.8m = pinkish vfg - aphanitic clasts	
			lt to med green			Perv carb, chl mafics, flksp ~fresh	12-15% fg Py fr-fill > diss		46-48	- a few dk green fragments, 47.6m has kspar flooding superimposed on albitized (?) tuff	
		- qtz phenos more evident in less bleached zones (eg 45.7m)				Patchy kspar mod ch carb	10-12% Py mainly fr-fill		48-50	Major gouge 50-50.5 m @ 30° CA, lots of Py in gouge	
									50-52	" " 53.4-53.5 @ 0-10° CA	
			lt to med grey with brown-pink mottling (kspar flooding)				10% fg mainly dissem		52-54	Gouge/broken 57.7-58.0 m, kspar flooding increases to abrupt contact at 58.7m. Black fg metallic mineral with Py in kspar envelopes.	
						↓	10% Py, diss = fr-fill		54-56		
									56-58		

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MINING DIVISION

DRILL LOG

HOLE NO. CH89-06

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
CONT'D		- indistinct clasts seen locally - good qtz eyes at 55 m								Contact at 58.7m marked by decrease in kspar flooding and bleaching, gradational over ~ 2m. Since qtz eyes were noted locally, this unit is probably altered equiv of tuff starting at 58.7m.	
58.7	147.6	LATITE-TRACHYTE TUFF: - variable from crystal-lithic to ash to lithic lapilli tuff but distinguished by consistent occurrence of 2-5% qtz eyes/crystals (.5-2mm, glassy to whitish, often hexagonal prismatic) - no bedding evident, med to dk green, non-magnetic (possibly due to sulphidation of primary Mt) - plag 1-2mm variable to 60%, lath-like to equant, Hb laths 1-2mm ~ 10-15%, grn is kspar rich - ash to crystal tuff predominant	Mod-st kspar, dl Mod dl, wk seric-dky wk dl-seric local kspar wk dl-seric local st kspar wk-mod				10-12% ff Py 10% 3-5% Py 10% 2-4% ff Py 10% diss Py 5-12% Py diss = fr-fill perv seric	fg diss Py diss Py diss Py diss Py	58-60 60-62 62-64 64-66 66-68 68-70	- Kspar decreases to ~ 62 m Broken 60-60.3 m - local kspar envelopes @ 10° and 70° CA, contain Py Broken core 66.3-68.4 @ ~ 5-30° CA., low recoveries. - kspar flooding esp intense at 69 m, broken core 69.7-72.5, kspar in grn alt to seric	
	65.9-	69.9 is crystal-rich section with increased kspar alt^ (could be intrusive?), lt to med green									
69.9-	83.6	med to dk green ash/crystal tuff	Mod-st chl-py-			10% seric	Py, diss > ff		70-72	Mafics totally altered to Py-ch, st alt of feld to dull pink clay (?)	

DRILL HOLE NO. CH89-06

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DRILL LOG

HOLE NO. CH 89-06

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
cont'd		Diss py after mafics and Mt(?)				chl-Py, perv sericite, diss local kspar	10-15% fg Py = ff		72-74	Bleached slightly to mid grey in areas of broken core. Minor late stage carb fr-fill.	
		(Composition possibly more felsic as sample at 76m stained only 25% for kspar.)				↓	10% Py, ff = diss		74-76	- Possible albite (?) flooding at 75.3m	
							10-15% Py ff = diss		76-78	Broken 77.9-78.5	
		78.7 possible felsic pyritized clast subr 2-3 cm				Perv kspar flooding	10% diss Py		78-80	Major gouge and broken core from 80-83.6. End of broken zone at 83.6m marked by 5cm of mass carb vein, also marks contact with crystal-rich zone.	
	83.6-	84.7 crystal-rich section, plag 1-2mm ~50%, hex qtz 1-3mm ~5%, hb 1-2mm equant clots ~15-20% (possibly a dyke?), lower contact approximate, may continue to 87.5m; lt to med green				Clay ↓	8-10% diss Py		80-82	- Mainly gouge	
							5-8% Py		82-84	- Mainly gouge/broken to 83.6	
						wk-med chl-seric	10-12% Py diss = FF		84-86		
	84.7-	147.6 predom dk green ash-tuff with qtz eyes (avg 1mm xtals, ~5%), rare rounded mafic-rich clasts to 1cm				Med-st kspar	5-7% diss Py 5% ff Py		86-88	- local zone of kspar-py envelopes	
						wk-med chl-seric					
						wk-med chl-seric	5-7% diss Py 2% ff		88-90	Broken 89.4 m	
						kspar, wk-med chl-seric	12-15% Py diss = ff		90-92	kspar stkwk 90.5-91.0, 92-92.5 Broken 92.5-93.5, 94-96m (35% recov)	

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-06

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
CON'T'D		Zone of sulphidizations ends at 94m, continues from 94m	same lithology				10→5	% diss Py	92-94	Py decreases markedly to 94m, coincides with sharp increase in magnetism due to primary unsulphidized Mt. Pyritization is sporadic from 94m, mainly on fr.	
		Dark green with pale maroon (unsericitized kspar) grn.				Mod seric of plag, wk chl.	2-3% Mt, 2% ff Py	fg diss	94-96	Broken, 35% Recov	
						wk-mod chl-seric	2% Mt, 2-5% Py	2-5 mainly ff	96-98	Broken 97.3-97.7 @ ~30° CA, perv carbonate	
						wk chl-seric	2-3% Mt, 2% ff Py		98-100	98.8-100.2 broken, local gouge 30-40°, decreased magnetism, rare kspar envelopes.	
						wk chl ↓ epid	2-3% Mt ↓	1-3% Py ↓	100-102	- isolated kspar envelopes @ 70° CA	
		104-106 local rounded mafic-ncl clasts to 1cm							102-104	Broken 103.2-105 @ 20-45° CA, some gouge	
									104-106	" 106.2-106.7 @ 30° CA	
		Locally xtal-rich				Mod chl-seric	10-12% Mt + ff Py	% diss in fr zones	106-108		
						wk-mod chl-epid	2% Py, 2-3% Mt		108-110	Some patchy perv hematization of Mt	
						wk epid on fr	1-2% Py, 2-3% Mt		110-112	Py slightly coarser on fr with epid and black chl (?)	
						↓	↓	↓	112-114	Broken 112-114.5 @ 35° CA	
		Locally xtal-rich				wk-mod epid			114-116	0-10° fr	

DRILL HOLE NO. CH89-06

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-06

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	DESCRIPTION: GRAIN SIZE	DESCRIPTION: TEXTURE	DESCRIPTION: ALTERATION	DESCRIPTION: ORE MINERALS	DESCRIPTION: FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
CONT'D		117m xtl-rich (plag)			wk-mod perv epid	2% ht, 2% Py		116-118		Broken/gouge 116-122, extreme gouge 117.5-117.9, 119-119.2	
								118-120			
								120-122			
					Rare kspar			122-124		local kspar-py envelopes @ 124, 125.6m	
					Rare kspar			124-126			
		Major gouge zone 126-147.6m, low recoveries, Mt destroyed.			Mainly gouge			126-128		Extreme gouge 126-128, 131.5-132.2, 136-136.5, 137.5-139.3, 142.3-144, 146-147.6.	
					wk epid, clay strong	Tr to 2% Py		128-140			
					Perv carb, wk chl	2-10% fg dis Py		140-142		Locally pyritic to 10%.	
					St chl-clay	2-7% Py		142-144		Green chloritic gouge 142.3-144 m	
						5-7% Py diss		144-146		Strong carbonate fr-fill.	
						5-15% Py		146-148		147.6 contact marked by gouge	
		Major contact at 147.6 is probably a fault contact, shearing present in both units									

BP88-2

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-06

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS (MINERALIZATION, TYPE, AGE RELATIONS)
147.6	196.0 EOH.	LITHIC LAPILLI TUFF: - matrix supported fragmental with subround clasts up to 10cm (avg 3cm); matrix is fg and comprises 40-50%, contains no qtz eyes (clasts may contain qtz eyes) - clast type predominantly light green to pink (secondary kspar) fine gr vcl porphyry, lesser subbng blck clkritic clasts - gen wk-mod magnetic but variable due to shearing and kspar flooding				Albit?(K)	10% fg diss and mg ff Py		148-150		- sporadic qtz-carb-py veins @ 60-70° CA.
						St chl-clay	~5% fg Py		150-152.9		- Gouge zone.
						Clay shear	Vfg crushed Py ≥ 5%		152.9-156		
						chl-clay	Vfg Py	5-10%	156-158		
						shear		"	158-160		158.3-159.8 is portion of subparallel qtz-carb ribbon vein
						(kspar clast replacement)		"	160-162		} much gouge with brecciated and disrupted qtz-carb vein up to 3cm wide (qtz centre, carb selvedges) subparallel to ~165m
								"	162-164		
147.6-150.0		steady altered + pyritic (albit?)						"	164-166		165m is start of relatively unsheared rock (end of major crush/fault zone from 126-165m), this coincides with increase in magnetism.
150-152.9		green chloritic gouge zone									
152.9-156.0		subparallel qtz-carb-py ribbon vein ~2cm wide with smeared black pyritic selvedges. From 155.4-156 vein is tectonically brecciated. Fine (.1-1mm) laminations on vein wall at 159m (qtz-carb-py).				wk chl, patchy kspar	3-4% diss Py Mt	1-2%	166-168		166.7m Cp+Py assoc with kspar envelope 1cm wide.
						wk chl	3-4% diss Py		168-170		Carb-hem FF subparallel CA.
160-166		Good fragmental texture.					3-4% Py		170-173		Gouge 170.4-171.0 @ 10° CA, fg silica-carb (chalcedonic) envelope marks start of gouge. Local kspar envelopes along low angle ff.

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BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-06

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
CONT'D			Colour is gen dk green with pink patches due to sec kspar.	med to		Mod chl-clay, kspar clast replacement, local kspar envelopes	3-4% fg diss Py		172-174	Broken 172.4-173.4, "syenitic" clasts are kspar altered volc clasts and brecciated zones of altered volc.	
							3-4% Py mainly in matrix		174-176	Broken 175.9-176.4, 177-178.9	
							"		176-178		
							2-3% Py		178-180	Broken/gouge 180-182.5, 183-184.4	
		188-190 qtz eyes evident in clasts						"	180-182	Erratic pyritization (erratic magnetic susc) From 178-196	
								"	182-184		
								"	184-186		
								"	186-188		
						wk-mod kspar alt'n	4-5% Py		188-190		
							2-3% Py		190-192	190.6 minor Cp in .7cm wide kspar-carb-py vein at 35°. Broken 192-192.3.	
							2-3% Py		192-194		
							local galena-cpy			* 193.6 two subparallel 1cm wide carb-py-tr Cp-significant galena veins @ 45° CA	
							3-7% diss and ff Py		194-196	3-4 carb-py veins @ 60-70° CA From 194-195 m	
									ECH		

BP88-2

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-06

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
		Sulphidization (pyritization mainly) and alteration in this hole progresses as follows:									
		Py on fr assoc with kspar flooding + chl-sericite Py perv after Mt and mafics Total ~10% Py				Py on local fr with kspar Minor py after Mt Predom epid alt Total ≤ 5% Py			→	Rare Py on fr or diss, strongly magnetic due to presence of primary Mt Wk propylitic alt Total ≤ 1% Py	

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DRILL HOLE NO. CH 89-06

CH-89-06

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	Sp Gr [illegible]	%	AMT. LOST		Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
214	15.2	18.0	2.8	0.5	50	1.4		2	.2	59	32	9	207	112
	18.0	20.0	2.0	1.0	30	1.4								
215	20.0	22.0	2.0	0.8	55	0.9		6	.7	59	41	13	147	96
	22.0	24.0	2.0	0.5	80	0.4								
216	24.0	26.0	2.0	0	25	1.5		111	1.7	67	102	14	129	37
	26.0	28.0	2.0	0.2	40	1.2								
217	28.0	30.0	2.0	1.0	20	1.6		290	.8	216	38	3	228	82
	30.0	32.6	2.6	1.2	42	1.5								
	CASING													
218	39.6	42.0	2.4	0	63	0.9		25	.8	102	311	35	52	26
219	42.0	44.0	2.0	0	95	0.1		3	.8	199	319	25	58	22
220	44.0	46.0	2.0	0	60	0.8		13	.6	107	251	31	40	29
221	46.0	48.0	2.0	0	95	0.1		1	.5	48	108	9	45	26
222	48.0	50.0	2.0	.1	90	0.2		1	.5	32	77	2	22	25
223	50.0	52.0	2.0	0	60	0.8		38	.2	92	93	14	29	13
224	52.0	54.0	2.0	0	65	0.7		17	.2	67	17	7	31	12
225	54.0	56.0	2.0	.1	80	0.4		20	.3	56	27	8	27	11
226	56.0	58.0	2.0	0	75	0.5		11	.1	62	21	11	27	13
227	58.0	60.0	2.0	0	55	0.9		39	.1	137	48	13	70	16
228	60.0	62.0	2.0	0	65	0.7		49	1.2	233	103	11	104	19
229	62.0	64.0	2.0	0	80	0.4		22	.3	214	82	9	107	27
230	64.0	66.0	2.0	0	60	0.8		27	.3	359	57	8	111	24
231	66.0	68.0	2.0	.1	55	0.9		51	2.3	566	71	6	101	22
232	68.0	70.0	2.0	0	55	0.9		26	2.1	54	29	21	41	18
233	70.0	72.0	2.0	.1	55	0.9		45	1.8	26	32	95	45	21
234	72.0	74.0	2.0	0	80	0.4		47	1.9	17	27	8	19	19

DRILL HOLE NO. CH-89-06

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S. Sp. Gr	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
50235	74	76	2	0	80	0.4		21	1.3	146	51	7	60	22
236	76	78	2	0	65	.7		24	1.0	24	18	10	70	26
237	78	80	2	0	90	.2		42	1.2	25	48	17	63	10
238	80	82	2	0	50	1.0		62	2.6	171	38	285	574	8
239	82	84	2	0	60	.8		49	2.3	125	63	27	65	6
240	84	86	2	0	100	0		23	.5	62	31	19	129	23
241	86	88	2	.1	80	.4		22	.2	258	28	9	134	20
242	88	90	2	0	75	.5		19	.2	108	33	15	114	22
243	90	92	2	0	95	.1		19	.1	82	39	16	153	14
244	92	94	2	.1	70	.6		63	3.5	170	181	50	260	23
245	94	96	2	1.9	35	1.3	Contact at 94m ~	48	1.7	616	66	15	161	28
246	96	98	2	2.3	85	.3	end of sulphidation.	9	.2	186	19	5	167	43
	98	100	2	.9	95	.1								
247	100	102	2	1.7	85	.3		7	.1	170	35	10	124	38
	102	104	2	1.7	80	.4								
248	104	106	2	2.2	60	.8		8	.3	359	31	4	132	63
	106	108	2	1.6	65	.7								
249	108	110	2	1.5	75	.5		33	1.1	234	96	12	160	39
	110	112	2	1.9	50	1.0								
250	112	114	2	2.7	55	.9		17	.2	268	25	10	136	54
	114	116	2	1.7	75	.5								
251	116	118	2	1.1	60	.8		19	.3	133	52	28	176	26
	118	120	2	1.4	55	.9								
252	120	122	2	1.7	45	1.1		15	.3	175	28	12	136	32
	122	124	2	3.2	50	1.0								
253	124	126	2	2.5	85	.3		5	.1	237	18	21	146	65

DRILL HOLE NO. 83-03

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	Sp. Gr.	%	AMT. LOST		Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
	126	128	2	1.1	40	1.2								
0254	128	130	2	1.7	60	.8		15	.5	521	19	15	107	40
	130	132	2	1.0	40	1.2								
255	132	134	2	1.0	55	1.1		17	.6	3374	30	11	151	37
	134	136	2	0.5	15	1.7								
256	136	138	2	0.5	50	1.0		79	4.3	847	33	15	139	16
	138	140	2	0	40	1.2								
257	140	142	2	2.0	45	1.1		38	.3	132	35	10	119	29
258	142	144	2	.2	30	1.4		33	.6	92	26	25	115	32
259	144	146	2	.1	60	.8		37	.4	77	36	21	119	24
260	146	148	2	.1	65	.7		57	.9	126	50	33	77	16
261	148	150	2	0	55	.9		64	.8	185	42	13	71	15
262	150	152	2	0	55	.9		46	.4	252	45	15	139	8
263	152	154	2	0	75	.5		81	1.2	188	103	13	61	26
264	154	156	2	0	75	.5		95	.8	107	167	13	48	10
265	156	158	2	.1	60	.8		114	.4	215	251	8	117	25
266	158	160	2	0	100	0		94	1.1	256	108	29	74	8
267	160	162	2	0	95	.1		84	.9	72	123	84	696	14
268	162	164	2	0	80	.4		101	1.1	126	114	175	140	10
269	164	166	2	1.0	85	.3	165.5 increased 11.5	52	.7	121	69	31	141	27
270	166	168	2	.4	40	1.2	→ 166.2, 168→169	53	.7	198	66	17	120	21
271	168	170	2	1.0	70	.6		177	.8	482	60	11	129	22
272	170	172	2	.1	65	.7		102	1.2	146	101	118	96	9
273	172	174	2	0	85	.3		51	1.0	367	50	25	114	17
274	174	176	2	0	100	0		44	1.0	554	30	13	83	16
275	176	178	2	.1	40	.2		39	.6	191	34	13	95	15

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DRILL HOLE NO. CH/84-06

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	Sp Gr	%	AMT. LOST		Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
50276	178	180	2	.5	70	.6	Increased Py at 179–181.5	16	.4	85	19	2	83	31
277	180	182	2	2.7	45	1.1		41	.7	447	16	10	113	88
278	182	184	2	1.7	85	.3		26	.6	119	24	15	120	44
279	184	186	2	.7	90	.2	Py decrease at 185.5m	41	.7	377	26	6	95	23
280	186	188	2	.1	100	0		53	.7	127	31	4	95	21
281	188	190	2	.1	80	.4		49	.7	336	34	13	100	22
282	190	192	2	.6	85	.3	Local Py to .7	65	.7	250	19	7	96	35
283	192	194	2	.1	65	.7		340	2.5	416	62	1926	4540	16
284	194	196	2	.2	100	0		43	.7	352	27	14	103	18
		204												

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DRILL HOLE NO. CH84-06

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO CH-89-07

DRILLING CO: ADVANCE	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: SEPT 20, 1989	PROJECT: CHUCHI	
		COLLAR 210.9	-46° -44°	180°	DATE COMPLETED: SEPT 24, 1989	N T S:	
					COLLAR ELEV: 1415 metres	LOCATION: Cu-Au Zone 100+45 E, 110+70N	
					NORTHING: 6124715		
					EASTING: 402090		
					AZIMUTH: 180°		
HOLE TYPE					DEPTH: 210.9 metres	DATE LOGGED: SEPT 22-24, 1989	
					CORE SIZE: NQ	LOGGED BY:	

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS (MINERALIZATION, TYPE, AGE RELATIONS)
0	9.1	CASING			
9.1	96.1	MONZONITE	Medium to dark green, medium grained, sub-crowded to crowded porphyritic (weak to non alignment of phenocrysts.) Phenocrysts of tabular, equant plagioclase from 1 to 3 mm long comprises 20 to 30% of the rock. Plag is weakly altered to sericite. Phenocrysts of hornblende, prismatic from 1 to 2 mm long comprises 5 to 10% of the rock. Hornblende crystals are moderate to strongly altered to chlorite. Phenocrysts of biotite occuring from 1 to 20 mm long, platy crystals comprising 10% of the rock. Biotite appears to be a late magmatic event with	Alteration: Epidote (1-2%), chlorite (5-10%) sericite (2%) plus occasional Kspar flooding and minor quartz fractures (45° C.A.) with silicified envelopes from 2 to 4 cm wide. 5 to 10 pyrite microfractures per metre @ 40-50° C.A. Magnetite is destroyed in areas of fracturing where there is Kspar flooding or silicification, usually narrow zones (less than 20 cm wide.) Overall a weak to moderate potassic (Kspar-epidote-chlorite-sericite) assemblage. Many subparallel fractures skews apparent alteration.	

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-07

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
		CONT.	much of the coarser grained biotite found along fractures (weakly to non altered). Weak to mod calcareous strongly magnetic. Trace to 1% of very, very fine grained pyrite occuring in microfractures							
9.1	12.0	Monzonite	Subcrowded porphyritic epidote (2%) along fractures and 5cm blebs & Kspar along fractures				1% v.v.f.g. py in microfractures Tr. cpy in frac @ 45° C.A.		5 to 10 microfractures of pyrite @ 40-50° C.A 2 qtz (banded) fractures @ 45° C.A slight silicified envelopes. Oxidized (rust stained) fractures.	
12.0	14.0	Monzonite	Subcrowded porphyritic. epidote (2%) along fractures and blebs. Kspar along fractures.				1% v.v.f.g. py in microfractures @ 40-50° C.A. Tr cpy along frac		8 to 10 fractures per metre of py, qtz, epid, Kspar. Qtz frac @ 60° (banded)	
14.0	16.0	Monzonite	Subcrowded porphyritic - broken core, 15.0 - 15.2 nonporphyritic				Tr - 1% v.v.f.g. py in microfractures. Tr cpy in microfractures.		8 to 10 fractures per metre of py, qtz, carb, epid, Kspar.	
16.0	18.0	Monzonite	Subcrowded porphyry to 16.7 nonporphyritic to 17.0 (fragments) and then subcrowded porph.				Tr v.v.f.g. py in microfractures and diss Tr. cpy in microfractures.		8 to 10 fractures per metre of epid, Kspar, py, qtz, carb.	

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BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-07

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
18.0	20.0	Monzonite	Subcrowded porphyry with 2 to 3% Kspar. Abundant Kspar frac @ 19.0m				Tr - 1% v.f.g. py in microfrac and diss. Tr cpy in frac		8 to 10 fractures per metre @ 45°-90° C.A of epid, Kspar, qtz, carb, py	
20.0	22.0	Monzonite	Subcrowded porphyry with 1% Epid, to Kspar silicified section from 21.5 - 21.6				Tr - 1% v.f.g. py in microfrac and diss. Tr cpy in frac		8 to 10 fractures per metre @ 45°-90° C.A.	
22.0	24.0	Monzonite	Subcrowded porphyry. Epid Tr along frac. & Kspar frac.				Tr - 1% v.f.g. py, c.py along fractures		8 to 10 fractures per metre @ 45°-60° C.A and 90° C.A. of qtz, epid, py, Kspar.	
24.0	26.0	Monzonite	Crowded to non porphyritic. Tr epid & Kspar along frac.				Tr - 1% v.f.g. py and cpy along fractures		8 to 10 fractures per metre @ 45°-60° and 90° C.A. of qtz, epid, Kspar, py.	
26.0	28.0	Monzonite	Subcrowded porphyry 26.5 - 27.0 Carb breccia 27.0 - 28.0 Subcrowded porph.				Tr - v.f.g. py, cpy along fractures.		8 to 10 fractures per metre 26.5 to 27.0 carb breccia.	
28.0	30.0	Monzonite	Subcrowded porphyry. 1% Epid blebs - 2cm long.				1% v.f.g. py in frac Tr cpy along frac.		8 to 10 fractures per metre. - banded qtz @ 60° C.A. & 90° C.A. and py, epid, carb, Kspar @ 60° C.A. & 90° C.A.	
30.0	32.0	Monzonite	Subcrowded porphyry. 1% epid blebs and frac.				1% v.f.g. py in frac. Tr cpy with py in frac with epid and Kspar		8 to 10 fractures per metre. 1mm or less of qtz, carb, epid, Kspar, py. 1cm frac @ 30.1m discontinuous.	

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BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO CH-89-07

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
32.0	34.0	Monzonite	Crowded porphyry. epid blebs 1cm., occ 3cm angular			1% zeolith	Tr. v.f.g. py Tr. cpy with py frac			8 to 10 fractures per metre of qtz, carb, epid, Kspar, py	
34.0	36.0	Monzonite	Crowded porphyry. Tr. epid 2% zeoliths from 1-3cm				Tr. py, cpy in frac			6 fractures per metre of kspar, epid, py	
36.0	38.0	Monzonite	Crowded porphyry. Tr epid, kspar, occ. small < 1cm zeolith				Tr. py, cpy in frac			4-6 fractures per metre. Qtz-banded @ (frac) 80° C.A. Epid, kspar, py, cpy in fractures	
38.0	40.0	Monzonite	Crowded porphyry. kspar, occ. fragmeat.			Tr epid	Tr. py, cpy in frac.			4 to 6 fractures per metre. Qtz, epid-kspar-py-cpy in fractures @ 80° C.A. 39.0 - 2cm siderite-hematite-py veinlet @ 30° C.A.	
40.0	42.0	Monzonite	Crowded porphyry. and kspar, occ. frag.			Tr. epid	Tr. py, cpy in frac.			4 to 6 fractures per metre, of qtz (banded), epid-kspar-py-cpy	
42.0	44.0	Monzonite.	Crowded to sub crowded porphyry. 1% epid and blebs (1cm)			frac	Tr. py, cpy in frac. 45° C.A.			6 to 8 fractures per metre *43.0-43.1 kspar-epid-massive cpy, py vein @ 45° C.A.	
44.0	46.0	Monzonite.	Crowded to sub crowded porphyry. 1% epid, 1% kspar in frac., epid blebs 1cm.				Tr. py, cpy in frac			8 to 10 fractures per metre. Epid frac @ 45-60° C.A., qtz-banded @ 60° C.A. py-cpy and kspar with epid. frac.	

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DRILL LOG

HOLE NO CH-89-07

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
46.0	48.0	Monzonite	Subcrowded 1% epid. blebs		porphyry & frac.		¼ to ½% v.f.g. py and cpy in fractures			8 to 10 fractures per metre. 46.0, 46.1, 46.3 carb stringers @ 60° C.A. 46.3 with 1cm py-cpy fracture @ 60° C.A. *46.4 - 2.5 cm massive cpy, py, mag @ 60° C.A.	
48.0	50.0	Monzonite	Subcrowded porphyry. bleb, frac. kspar with			Tr. epid epd	Tr. v.f.g. py frac		(cpy) in	8 to 10 fractures per metre of epid, kspar, carb, py-cpy mainly @ 45° C.A.	
50.0	52.0	Monzonite	Subcrowded porphyry. and kspar frac.			Tr. epd	Tr. v.f.g. py frac		(cpy) in	8 to 10 fractures per metre of epid, kspar py-cpy. 45° - 60° C.A.	
52.0	54.0	Monzonite	Subcrowded porphyry kspar frac. 52.9 of biotite (phlogopite) 1.62 cm long - appear to be fragment or vug.			Tr. epd crystals in a	Tr. v.f.g. py (cpy) in frac. @ 45° C.A.			8 to 10 fractures per metre as above.	
54.0	56.0	Monzonite	Crowded to subcrowded with 1% epid-kspar frac and blebs.			porphyry	1% v.f.g. py-cpy in frac with epid-kspar			8 to 10 fractures per metre : 3 to 4 fracture of epid-kspar ± py-cpy, 3 to 4 of carb., and 3 to 4 of py-cpy.	
56.0	58.0	Monzonite	Crowded to subcrowded with 1% epid-kspar and blebs.			porphyry frac.	1% v.f.g. py in frac - epid-kspar		(cpy-tr)	57.1 1cm py-epid-kspar-(cpy) veinlet @ 25° C.A 6 fractures per metre epid-kspar-py-(cpy)	

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HOLE NO. CH-89-07

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
58.0	60.0	Monzonite	Crowded to Subcrowded porphyry with 1% epid and kspar along frac. and blebs				2% v.f.g. py (cpy tr.) in frac.			10 to 15 fractures per metre of epid, kspar, py, cpy (tr) @ 45° to 60° C.A 20 to 30 microfractures per metre of carb. @ 30° to 45° C.A. and 75 to 90° C.A	
60.0	62.0	Monzonite	Subcrowded porphyry with 1 to 2% epid and kspar along fractures and blebs.				2 to 4% v.f.g py (cpy tr.) in frac		py (cpy	15 to 20 fractures per metre of epid, kspar, py, cpy (tr) @ 45° to 60° C.A. and 20 to 30 carb microfractures per metre @ 30°-45° and 75° to 90° C.A	
62.0	64.0	Monzonite	Subcrowded porphyry with 10% kspar and 5-10% epid flooding - fractures				5 to 10 % py in frac and occurring with kspar and epidote - disseminated and blebs.			15 to 20 fractures per metre @ 45° to 60° C.A kspar, epid, py, cpy (tr) and carb. microfracture 20 to 30 @ 30 to 45° and 75 to 90° C.A.	
64.0	66.0	Monzonite	Non to subcrowded porphyry. 5% epid in blebs, 2-4% kspar				5 to 10% py in frac and diss-(blebs) with epid and kspar			10 fractures per metre @ 45° to 60° C.A kspar - epid - py cpy (tr.) and 20 microfracture per metre of carb @ 30-45° C.A. and 75-90° C.A.	
66.0	68.0	Monzonite	Subcrowded porphyry phenocrysts med. aligned @ 45° C.A. 2 to 3% epd fractures and blebs (tr)			plag. in kspar	5% py in frac and occurs with kspar and epid. frac and blebs Tr. hematite with py			10 fractures per metre @ 45° to 60° C.A. of kspar - epid - py - cpy (tr). 10 microfractures per metre of carb @ 30 to 45° C.A	

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HOLE NO. CH-89-07

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
68.0	70.0	Monzonite	Subcrowded porphyry. Phenos @ 45° C.A. 3 to 5% Kspar, 2 to 4% epid blebs and frac., 69.2 Kspar flooding Occ. xenolith of v.f.g. dark green volcanic (latite) fragments				2 to 3% py in frac, diss, v.f.g. Occ tr. cpy. Diss may throughout section 1% v.f.g.			10 fractures per metre @ 45° C.A. of Kspar, epid, py, cpy (tr.) ± carb.	
70.0	72.0	Monzonite	Non to subcrowded porphyry with 5 to 10% Kspar flooding (increased fracturing) and 5% epidote frac. and blebs 71.9 qtz veinlet @ 45° C.A Silicified envelope 5cm wide.				3 to 5% py in frac and diss. tr. hemat			20 to 30 fractures and microfractures per metre with Kspar, epid, py, (cpy) occurring @ 30-45° C.A. Few are subparallel.	
72.0	74.0	Monzonite	Subcrowded porphyry. Phenos @ 50° C.A 5 to 10% epid., 1% Kspar flooding. Epid occurring as blebs < 1cm and along fractures				5 to 8% diss, frac of v.f.g. py. tr. cpy in frac.			20 to 30 fractures per metre (and microfrac) with epid, py, carb ± Kspar @ 30° to 45° C.A	
74.0	76.0	Monzonite	Non to Kspar-epid @ ~50° C.A 10% epid, 5% Kspar		subcrowded porphyry altered. Phenos		10% diss "bleb" at 75.4.	f.g. py and a	large.	30+ microfractures and fractures per metre @ 30°-45° C.A. and a few subparallel fractures of Kspar, epid, py, cpy (tr.) ± carb.	

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INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
76.0	78.0	Monzonite	Non to Poor alga of phenos. 77.0-77.2 Hydrothermal alteration with 5-10% biotite crystals med-coarse grained.	Subcrowded porphyry.			1-2% frac	f.g. py in and diss.		10 microfractures per metre @ 30°-45° C.A and 80°-90° C.A	
78.0	80.0	Monzonite	Subcrowded to crowded porph non-align phenos. 5% epid, 5% Kspar. Plag phenos still weakly alt. to sericite. Hornblende phenos mod. to strong alter to chlorite. 1% ± diss f.g. magnetite				Tr-1% in frac	f.g. py and diss.		10 microfractures per metre @ 30°-45° C.A and subparallel of kspar, epid, py, cpy (tr.)	
80.0	82.0	Monzonite	Subcrowded to noncrowded porph. no alga of phenos 80.6 to 81.0 low angle py-cpy-carb				2 to 3% f.g. py in frac @ subparallel to 10° C.A. Tr cpy in frac			10 to 20 microfractures per metre @ 30-45° C.A and subparallel of kspar, epid, py, cpy (tr.)	
82.0	84.0	Monzonite	Subcrowded porphyry no aligned phenos, Kspar flooding 20% abundant around heavy frac. areas. Epid. 5% along fractures and blebs.				5% and diss. 30-45° C.A and subparallel. 1-2% cpy in kspar frac	f.g. py in frac @	in carb:	10 to 20 microfractures per metre @ 30 to 45° C.A. and subparallel. 83.7 to 84.0 2cm wide carb-kspar-cpy (5%)-py veinlet @ 10° C.A.	

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INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
84.0	86.0	Monzonite	Subcrowded porphyry - no aligned phenos, kspar - flooding 20% assoc with frac areas epid 5% frac and blebs				5% and 1-2%	f.g. py diss @ 30 & 45° C.A. and cpy in fractures	in frac subparallel	10 to 20 microfractures per metre @ 30° to 45° C.A. and subparallel. 85.8 to 86.0 - 80% kspar, 2% cpy, carb veinlet 1-2 cm wide with kspar envelope.	
86.0	88.0	Monzonite	Non to with kspar	subcrowded porph. 5% epid and 5 to 10%			5 to 10% frac in late stage frac kspar	f.g. diss, py + 1-2% cpy carb cross-cutting frac.		15 to 20 microfractures per metre @ 30° to 45° C.A. and subparallel of kspar, epid, py, carb, cpy 86.9 (Rep) high grade cpy-py-carb frac (2 cm wide) subparallel	
88.0	90.0	Monzonite.	Non porphyritic with 5 to 10% kspar	Strong alta epid, 10-15% flooding - fracturing.			5 to 10% frac cpy in carb kspar	f.g. diss. py, 1 to 2% in late stage frac cross-cutting frac.		20 to 30 microfractures per metre @ 30° to 45° C.A. and subparallel of kspar, epid, py, cpy, carb. 2 to 3 <1cm fractures per metre @ 10°/30° C.A of carb with 5% cpy ± 20-50% py	
90.0	92.0	Monzonite	Non porphyritic intense alta. flooding and epid in	Strong to 10-20% kspar and frac 5-10% frac. and blebs.			5 to 10% frac cpy fractures.	f.g. diss, py, 1 to 2% in late carb		30+ microfractures per metre @ 30 to 45° C.A and subparallel with py, kspar, epid, cpy ± carb. 5 fractures per metre (.5 to 1 cm) @ ~10° C.A. of py-carb, cpy.	
92.0	94.0	Monzonite	Non porphyritic alta flooding,	Intense with 10-20% 10-20%	kspar epid.		10 to 15% diss, 1 to 2% cpy in carb	f.g. frac py fractures	-m.g.	30+ microfractures per metre @ 30 to 45° C.A and subparallel. As above.	

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INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE: FRACTURES, FAULTS, FOLDING, BEDDING, ETC	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
94.0	96.1	Monzonite	Non porphyritic. Coarse			alt'n with 10 to 20% kspar flooding, 10 to 20% epid. Chilled zone.	10-15% f.g.-m.g. diss. frac py. 1-2% cpy in late carb fractures			30± microfractures per metre @ 30° to 45° C.A and subparallel. 5 to 8 fractures per metre (.5" to 1cm) @ ~10° C.A. of py - carb - cpy ± epid. ± kspar.	
96.1	122.8	SILTSTONE	Light to med grey, aphanitic, hornfelsed siltstone with 100± microfractures per metre randomly orientated. Late stage carb - py (10-30%), cpy (2-5%) ± epidote ± kspar ± siderite ± magnetite fractures (.5" to 2.5" cm) occurring @ ~10° C.A. and occasional carb fracture @ 30° to 45° C.A., 3% v.v.f.g. disseminated sub-euhedral pyrite cubes. Silicified.							Contact @ 80° to 90° C.A. 100± microfractures per metre randomly orientated, discontinuous carbonate.	
96.1	98.0	Siltstone	5 to 10% kspar 5 to 10% epid Hornfelsed, silicified.		Flooding, frac, blebs		5 to 10% py v.v.f.g. diss py and 3 to 5% m.g. py in frac @ ~10° C.A 1-2% cpy in carb frac ~ 10° C.A.	3 to 5%		100± microfractures per metre of carb. 3 to 5 fractures (.5" - 2.5cm) of py, cpy, epid, kspar, carb, siderite @ ~10° C.A	
98.0	100.0	Siltstone	1 to 2% kspar, silicified.		1 to 2% epid.		1 to 3% v.v.f.g. diss py			100± microfractures per metre of carb. random orientated. Late pyritic microfrac @ 60° 90° C.A	

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INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
100.0	102.0	Siltstone	As above				1-3% py.	v.v.f.g	diss	100 + microfractures per metre of carb	Late pyritic microfractures. 10 per metre
		102-106	Hornfelsed andesitic dyke contact @ 80°C.A with kspar epid frac @ 45°C.A - propylitic altered.								
102.0	104.0	Siltstone	broken core. Hornfelsed and silicified.				1-3% py and occ. microfrac of py.	v.v.f.g.	diss	100 + microfractures per metre of carb.	
104.0	106.0	Siltstone	Hornfelsed-silicified 105.3 to 105.5 qtz-carb brecciated vein				1-3% and occ. microfrac of py @ 60-75°C A	v.v.f.g.	diss py	As above	
106.0	108.0	Siltstone	Hornfelsed-silicified. 1% kspar flooding/fracturing 106.8-106.9 pyritic fragment 10% py dyke (?)				1-3% py and occ. microfrac of py @ 75°C A	v.v.f.g.	diss	As above	
108.0	110.0	Siltstone	Hornfelsed-silicified occ. kspar and/or epid py frac various C.A				1-3% py and occ. microfrac of py @ 75°C.A.	v.v.f.g	diss	As above	
110.0	112.0	Siltstone	As above				As above			As above	

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INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
112.0	114.0	Siltstone	As above - 3 to 5% py contact with dyke.			near	As above			As above	
		112.9-114.2	ANDESITIC HORNFELSED DYKE Dk green, aphanitic with 2% pig phenocrysts from 1 to 3 mm long, weak-mod aligned @ 45° C.A. Non calcareous, magnetic.							Contact @ 75° C.A	
114.0	116.0	Siltstone	Hornfelsed, silicified 114.9-115.3 qtz-carb-py-cpy-epid-kspar veinlet approx 2 cm wide @ 10° C.A				1-3% v.v.f.g. diss py @ 115.7 5-10% v.f.g diss py.			100+ microfractures per metre of carbonate at various C.A.	
116.0	118.0	Siltstone	Hornfelsed, silicified 117.0-117.1 kspar flood/frac + epid; + py + (cpy tr.) no C.A.				Tr-1% v.v.f.g. diss py.			100+ microfractures per metre @ various C.A. of carb. Last stage of fracturing @ 10-20° C.A cutting previous fractures.	
118.0	120.0	Siltstone	Hornfelsed, silicified - increase in v.v.f.g. biotite. Occ. qtz-carb-epid-kspar-py frac (<0.5 cm) @ 45° C.A to subparallel				Tr-1% v.v.f.g. diss py increasing to 5-10% around local qtz-carb-epid-kspar-py fractures (veinlets)			50+ microfractures per metre @ various C.A. of carb, last stage of fracturing @ 10-20° C.A.	
120.0	122.8	Siltstone	As above				As above			As above	

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INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
122.8	127.7	MONZONITE	As described from 96.1 to 96.1 is interfingering siltstone unit as it is coming up along bedding planes @ 40° C.A. ? 2 to 5% fg. diss, frac. py. Tr. cpy					Et in carb frac		Contact may be along bedding plane @ 40° C.A. 50+ microfractures per metre as above	
127.8	124.0	monzonite	Interfingering with siltstone Local zones 2 50cm of kspar epid flooding				alteration.	Tr-4% f.g. diss py. increasing in % around kspar epid flooding		50+ microfractures per metre @ various C.A.	
124.0	126.0	monzonite	5 to 10% kspar flooding, 5-10% epid. altn. 124.4 1cm py, cpy, carb veinlet @ 45° C.A					2-5% f.g. diss, frac py. Tr-1% cpy	f.g. in frac	50+ microfractures per metre @ various C.A - many @ 40-45° C.A	
126.0	127.7	monzonite	5 to 10% kspar and epid altn					2-5% f.g. diss, frac, py. Tr-1% cpy f.g. in frac		10-20 microfractures per metre @ 40-45° C.A. and subparallel	
127.7	136.0	SILTSTONE	As described from 96.1				to 122.8.			No upper contact - may be along bedding @ 25° C.A	
127.7	130.0	siltstone	interfingering with monzonite (1.66cm wide). Monzonite coming up bedding @ 25° C.A. has recrystal diss py. Certain beds are altered & biotite				3-5% f.g diss py and frac @ 25° C.A 129.0 5cm qtz breccia vein @ 40° C.A 1% epid frac & blebs			20+ microfractures per metre of pyrite, qtz, carb @ 20 to 45° C.A.	

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INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
130.0	132.0	siltstone	Occ interbed of Hornfelsed-silicified			monzonite as above	3 to 5% fg. diss py and frac @ 25-45° C.A			20 microfractures per metre of pyrite, carb, qtz, chlorite, epid.	
132.0	134.0	siltstone	Hornfelsed (biotite) interbeds Py is recrystalized to 1mm diss blebs. Pyrite is within certain beds which are more chloritized forming trains of blebs in narrower units.				3 to 4% diss, fg py and frac in selective beds			Bedding @ ~25° C.A. 20 microfractures per metre @ 25° C.A. parallel with bedding and @ 45° C.A ~ 1 to bedding.	
134.0	136.0	siltstone	As above. 135.5 - 135.8 qtz (amethyst) 2cm veinlet @ 10° C.A 135.8° gradational contact to a propylitic altered andesitic dyke.				3% diss, frac, fg py			20 microfractures per metre @ 25° C.A. and 45° C.A. ~ 1 to 25° C.A fractures.	
136.0	139.0	ANDESITE DYKE	Dark green, aphanitic with pyrite, carb, kspar, chalcopyrite blebs and ccc subparallel veinlets from 1 to 7 cm long composing 5 to 10% of the rock. Occasional equant plag phens 1mm long.							5 fractures per metre @ 45° C.A qtz-carb Upper contact is gradational with sst. Lower contact is @ 45° C.A. with sst.	

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INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
139.0	164.0	SILTSTONE	As described from 96.1 to 123.8 with occasional interfingering of 1 to 15 cm wide andesitic and monzonitic beds coming up along bedding					1 to 5		Contact @ 45° C.A. Bedding @ 30° C.A.	
139.0	140.0	siltstone	Andesite dyke								
140.0	142.0	Siltstone	Hornfelsed - silicified - occ (≤1cm) andesitic bed.			As above	3 to 5 % diss - recrystal py with trains of py parallel with bedding.			Bedding @ 30° C.A 20+ microfractures per metre @ 20° to C.A. ~1 to bedding - mainly carbonate.	
142.0	144.0	Siltstone	Hornfelsed - silicified - As above				3 to 5 % diss - recrystal py as above.			Bedding @ 30° C.A 50+ microfractures per metre @ 45° to subparallel to C.A.	
144.0	146.0	siltstone	Hornfelsed - silicified with occ. monzonitic bed (1 to 15 cm wide).			As above	3 to 5 % py		as above	Bedding @ 30° C.A. As above.	
146.0	148.0	Siltstone.	Hornfelsed - silicified As above.				3 to 5 % py		as above	As above.	
146.0	150.0	siltstone.	Hornfelsed - silicified As above				3 to 5 % py		As above	As above	

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INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
150.0	152.0	Siltstone	Horafelsed, bleached, silicified interbeds are biotized with occ. interbed of andesitic to monzonitic units coming up bedding. Local andesitic dyke from 151.8-152.3 Alteration coalescence leaving remnants of biotite patches in a milky white bed isochemical. Biotite patches are spherical with milky silica rimmed around the patches.				3 to 5% diss recrystalized py			Bedding @ 30° C.A. 50 microfractures per metre ⊥ to bedding @ ~45° C.A. and subparallel with bedding.	
152.0	154.0	siltstone	As above. occ. low angle pyritic fracture.				3 to 5 % diss py.		recrystal	As above.	
154.0	156.0	Siltstone	As above. 154.5 - 10cm brecciated milky white silica.				3 to 5 % diss py.		recrystal	As above	
156.0	158.0	Siltstone	As above 157.9 epidote fracture @ 10° C.A				3 to 5 % diss py		recrystal	As above	
158.0	160.0	Siltstone	As above. 159.0 - 15cm monzonitic dyke.				As above			As above.	

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INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS (MINERALIZATION, TYPE, AGE RELATIONS)
160.0	162.0	Siltstone	As above				3 to 5% diss recrystal py.		Bedding @ 35° C.A 50 microfractures per metre @ 35° to 45° C.A and subparallel - mainly carbonate.	
162.0	164.0	Siltstone	As above				3 to 5% diss recrystal py		As above	
164.0	170.3	MONZONITE	Dark green, fine to medium grained, subequigranular porphyritic - non to weak alignment of phenocrysts @ 45° C.A. Feldspar phenos from 1 to 3 mm long - equant and tabular laths ~20 to 30% weakly altered to sericite. 4 to 8% fine grained biotite xtals weakly altered. Trace of fine grained disseminated pyrite. Very weakly calcareous with late stage carbonate fractures @ 30-45° C.A. Magnetic - trace of fine grained, disseminated magnetite.						Contact @ 60° C.A. 5 to 10 fractures per metre @ 30-45° C.A mainly of carbonate.	
164.0	166.0	monzonite	As described above				Tr. diss py		As above	
166.0	168.0	monzonite	As above. Tr. epid alt assoc with carb frac.				Tr. diss py		As above	
168.0	170.3	Monzonite.	As above. Tr. epid alt with carb frac.				Tr. diss py		As above.	

BPRB 2

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-07

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
170.3	210.9 E.O.H.	SILTSTONE	Light grey to greenish, light beige to brown (biocalcbed) aphanitic, thinly layered bioclastic, silicified sst with interbeds which are composed of 80% + of v.f.g. biotite. As described from 90.1 to 122.8. Interbeds of andesitic to monzonitic units have come up bedding. Alteration coalescence leaving remnants of biotite round patches in a milky white bed-a contact metamorphic event. Trace to 5% recrystalized disseminated pyrite - usually confined to certain beds - those which appear intrusive to volcanic. Occasional interbed of a coarse tuff unit 1 to 15 cm wide with equant plag. crystals.						Contact @ 80° to 90° C.A. Bedding is at a low angle ~10° C.A up to 174.5' then it is 45° C.A. 50 to 100 microfractures per metre @ 45° C.A. ⊥ to bedding and at low angles 10-20° C.A. mainly carbonate	
170.3	172.0	Siltstone	As described		above		Tr-5% diss, recrystal Py		As described above	
172.0	174.0	siltstone	As above				Tr-5% diss recrystal Py		As above	
174.0	176.0	siltstone	As above				Tr-5% diss recrystal Py		As above	
176.0	178.0	siltstone	As above				Tr-5% diss recrystal Py		As above	

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO CH-89-07

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
178.0	180.0	siltstone	Hornfelsed - bleached - silicified 180.0 1cm breccia qtz vein @ 45°C.A	11 to bedding			Tr-5% diss recrystal py occ. biotite spheroidal being repl by py			Bedding @ 45°C.A 50+ microfractures per metre @ 45°C.A ⊥ and 11 to bedding and @ low angles ~10°C.A	
180.0	182.0	siltstone	As desc. above				Tr-5%	diss recrystal py		As above	
182.0	184.0	siltstone	80%+ of the beds are hornfelsed - composed mainly of biotite				2-3% py repl occ. py	diss & repl py biotite spheroidal frac @ 90°C.A		Bedding @ 45°C.A 50+ microfractures per metre @ 45°C.A 11 & ⊥ to bedding and low angles 10°-20°C.A	
184.0	186.0	siltstone	As above. 184.5 coarse tuff unit-sericite and chlorite altered and py replacement				2-3% diss py has been recrystalized. Repl py is replacing biotite	diss & repl py		As above	
186.0	188.0	siltstone	As above - Hornfels sust occ. epid frac.				2-3% As above	diss & repl py		As above	
188.0	190.0	siltstone	As above.				As above.			As above	
190.0	192.0	siltstone	As above. 191.3 py-ep-cl-kspar veinlet 1cm wide @ 45°C.A.				As above			As above	
192.0	194.0	siltstone	Hornfelsed and silicified				3-5% diss py	repl py		Bedding @ 45°C.A 20°C.A @ 194.0 20+ microfractures	

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DRILL HOLE NO. CH-89-07

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-87-07

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
194.0	196.0	siltstone	Hornfels - silicified as above				3-5% recryst. fg py	fg repl, diss py		Bedding @ 20° C.A to 10° C.A @ 196.0 20 + microfractures per metre various C.A. carb and qtz occ.	
196.0	198.0	siltstone	As above. 197.5 to 197.9 siltst. brecciated chl-sericite altered Kspar flooded				3-5% recryst. fg	fg repl, diss py		Bedding @ 10° C.A.	
198.0	200.0	siltstone	Hornfels - silicified interbeds 199.0 Kspar, epid, py veinlet 3-4cm wide @ 45° C.A.				3-5% fg py	fg repl, diss		Bedding @ 45° C.A 20 + microfractures per metre at various C.A.	
200.0	202.0	siltstone	As above				As above			Bedding @ 45° C.A.	
202.0	204.0	siltstone	As above				As above.			Bedding @ 45° C.A back to 10° C.A @ 204.0	
204.0	206.0	siltstone	Hornfels - silicified with 3-5% recrystalized diss py - mainly in biotite (hornfels) interbeds 205.0-206.0 broken core abundant low angle carb fractures .1 to 1cm wide @ various C.A with epid along fractures.				3-5% fg py repl diss			Bedding @ 10° C.A 20 + microfractures per metre @ various C.A.	

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DRILL HOLE NO. CH-87-07

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-07

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
2060	2080	siltstone	Hornfels - silicified - abundant microfine from 106.0-107.0 Kspar flooding - violet 1cm @ 10°C.A. // with bedding Epid altn assoc. with minor fracturing				3-5% diss and repl fg py			Bedding @ 10°C.A 50+ microfractures per metre @ various C.A.	
2080	2109 EOH	siltstone	Hornfels - silicified epid altn assoc. with microfractures and/or qtz C.A. Pyrite xtals which long biotite to calcite		fracture occ. replacing biotite xtals occ.	occ. carb @ various due. 1 to 3mm altered	3-5% fg. py		diss. repl	Bedding @ 10°C.A. last 1 metre @ ~1°C.A 50+ microfractures per metre @ various C.A. many are ⊥ to bedding - prefered direction	

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DRILL HOLE NO. CH-89-07

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	Sp. Gr.	%	AMT. LOST		Au	Ag	Cu	Pb	Zn	Zn	Fe
50285	9.1	12.0	2.9	5.0	59	1.2		61	.4	167	11	16	72	535
	12.0	14.0	2	1.6	85	0.3								
286	14.0	16.0	2	8.0	80	.4		38	.9	247	13	150	319	193
	16.0	18.0	2	6.0	85	.3								
287	18.0	20.0	2	4.5	95	.1		310	1.1	[illegible]	19	2	83	27
	20.0	22.0	2	2.5	95	.1								
288	22.0	24.0	2	3.4	85	.3		21	.2	191	10	2	51	98
	24.0	26.0	2	5.5	100	0	289	25	.1	430	15	4	[illegible]	225
289-291	26.0	28.0	2	5.4	100	0	289 = 26.0 to 26.5 290	3	.1	[illegible]	11	2	31	49
	28.0	30.0	2	5.3	90	.2	290 = 26.5 to 27.0 291	16	.2	163	8	26	67	257
292	30.0	32.0	2	3.5	75	.5	291 = 27.0 to 28.0	1	.3	673	5	2	40	49
	32.0	34.0	2	3.2	80	.4								
293	34.0	36.0	2	5.4	100	0		34	.1	[illegible]	7	3	47	41
50477	36.0	38.0	2	5.1	100	0		33	.1	231	4	2	33	50
294	38.0	40.0	2	2.8	95	.1	over 14m	240	.8	[illegible]	9	2	65	51
50478	40.0	42.0	2	3.7	100	0	.27 g/t Au	39	.1	517	5	3	32	37
295	42.0	44.0	2	3.7	95	.1	.288% Cu	760	3.4	[illegible]	22	4	133	22
50479	44.0	46.0	2	3.9	100	0	.87 g/t Ag	42	.1	466	5	3	42	31
296	46.0	48.0	2	2.8	85	.3		210	1.1	[illegible]	13	2	62	36
50480	48.0	50.0	2	4.5	100	0		48	.1	466	3	5	33	39
297	50.0	52.0	2	2.1	90	.2		560	.5	[illegible]	10	2	[illegible]	34
50481	52.0	54.0	2	3.8	100	0		12	.1	495	4	3	31	42
298	54.0	56.0	2	2.6	100	0		62	.1	[illegible]	4	2	32	35
299	56.0	58.0	2	2.9	100	0		29	.7	[illegible]	11	2	49	39
300	58.0	60.0	2	2.5	90	.2		53	.7	1050	7	3	35	27
301	60.0	[illegible]	2	.7	90	.2		120	1.0	[illegible]	12	2	[illegible]	23

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DRILL HOLE NO. CH-87-07

BP Resources Canada Limited
MINING DIVISION

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	Sp. Gr	CORE RECOVERY %	CORE RECOVERY AMT. LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Ag	Au	Cu	As	Pb	Zn	Fe
503302	62	64	2	.2	95	.1		11	.9	1884	17	4	41	20
303	64	66	2	1.8	95	.1		50	.4	[illegible]	9	5	35	30
304	66	68	2	4.0	100	0		54	.5	[illegible]	14	[illegible]	26	42
305	68	70	2	2.5	100	0		61	.5	1101	10	[illegible]	[illegible]	26
306	70	72	2	1.0	95	.1		186	.6	1242	30	[illegible]	[illegible]	30
307	72	74	2	1.7	95	.1		167	.8	1597	9	[illegible]	[illegible]	50
308	74	76	2	.2	90	.2		107	.5	891	10	[illegible]	[illegible]	23
309	76	78	2	2.4	100	0		628	.3	5772	4	[illegible]	[illegible]	21
310	78	80	2	3.5	90	.2		760	.8	7360	4	[illegible]	[illegible]	140
311	80	82	2	5.7	90	.2	82-98 m	210	1.0	[illegible]	7	[illegible]	[illegible]	63
312	82	84	2	1.4	95	.1	over 1.20 :	870	[illegible]	[illegible]	12	[illegible]	[illegible]	37
313	84	86	2	1.7	90	.2	1125 Au	1760	[illegible]	5124	12	[illegible]	[illegible]	30
314	86	88	2	2.4	95	.1	7552 Cu	2240	[illegible]	[illegible]	40	[illegible]	[illegible]	35
315	88	90	2	.9	65	.7	3.7 Ag	430	4.8	3875	9	2	63	46
316	90	92	2	.5	85	.3	* CONTACT	830	[illegible]	[illegible]	17	4	81	47
317	92	94	2	.2	100	0		480	[illegible]	[illegible]	17	2	72	33
318	94	96	2	.6	80	.4		980	4.0	[illegible]	18	3	117	19
319	96	98	2	.1	90	.2		640	2.4	[illegible]	18	3	[illegible]	39
320	98	100	2	0	75	.5		13	.1	[illegible]	2	[illegible]	13	22
321	100	102	2	.1	65	.7		5	.1	[illegible]	7	[illegible]	26	71
322	102	104	2	.1	90	.2		28	.1	[illegible]	7	[illegible]	15	36
323	104	106	2	.1	90	.2		16	.1	[illegible]	18	[illegible]	11	23
324	106	108	2	0	100	0		200	[illegible]	[illegible]	7	[illegible]	[illegible]	15
325	108	110	2	0	95	.1		260	[illegible]	[illegible]	10	[illegible]	[illegible]	27
326	110	112	2	0	100	0		15	.1	[illegible]	5	[illegible]	[illegible]	21
327	112	114	2	.4	100	0	* CONTACT 113.2	10	.3	[illegible]	17	[illegible]	[illegible]	49

DRILL HOLE NO. [illegible]

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	N.S. Sp-Gr	CORE RECOVERY %	CORE RECOVERY AMT. LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au	Ag	Cu	As	Pb	Zn	Ba
50528	114	116	2	.5	95	.1	* contact at 111.2	1037	.24	1757	5		24	25
29	116	118	2	0	100	0		135	.3	1699	3	2	18	19
30	118	120	2	0	100	0		2	.2	1130	5	2	17	16
31	120	122	2	0	95	0	122-128 cm :	20	.3	832	6	3	17	14
32	122	124	2	0	100	0	over 1cm	1-1	.10	2062	5	10	26	11
33	124	126	2	.5	95	.1	250 Au	1210	4.0	8201	21		122	6
34	126	128	2	.1	100	0	3924 Cu	70	.7	1564	2	2	15	14
35	128	130	2	0	100	0	1.3 Hg	68	.2	1141	3	4	17	21
36	130	132	2	0	100	0		68	.1	1819	6	2	22	18
37	132	134	2	0	90	.2		55	.3	1021	3	4	21	15
38	134	136	2	0	100	0		40	.10	4062		2	67	19
39	136	138	2	0	95	.1		1040	4.0	12055	8	3	59	8
40	138	140	2	0	95	.1		50	.3	13	10	4	23	2
41	140	142	2	0	90	.2		17	.1	1241	6	5	14	21
42	142	144	2	0	100	0		10	.2	1555	4	2	14	18
43	144	146	2	0	100	0		41	.1	815	6	2	16	18
44	146	148	2	0	100	0		70	.3	1471	6	2	20	18
45	148	150	2	0	100	0		8	.2	807	5	2	13	31
	150	152	2	0	100	0								
46	152	154	2	0	100	0		47	.2	1473	2	2	15	37
	154	156	2	0	95	.1								
47	156	158	2	0	100	0		14	.1	1115	2	4	10	27
	158	160	2	0	100	0								
48	160	162	2	0	100	0		23	.1	2220	2	2	11	46
	162	164	2	0	95	.1								
49	164	166	2	1.5	100	0	4 cm incl 166	5	.1	11	2	2	29	9

BP 88-3

DRILL HOLE NO. 88-02

BP Resources Canada Limited
MINING DIVISION

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	Sp Gr	%	AMT. LOST		Au	Ag	Cu	As	Pb	Zn	Ba
	166	168	2	1.2	85	.3			-					
50850	168	170	2	1.6	85	.3		41	.1	4.5	41	2	38	11
	170	172	2	0.5	100	0	Contact @ 172							
51	172	174	2	0	100	0		3	.1	111	7	2	16	11
	174	176	2	0	100	0								
52	176	178	2	0	95	.1		16	.1	366	6	3	15	36
	178	180	2	0	100	0								
53	180	182	2	0	85	.3		10	.1	244	3	2	13	36
	182	184	2	0	100	0								
54	184	186	2	.2	100	0		23	.1	1062	5	4	10	32
	186	188	2	.2	95	.1								
55	188	190	2	.1	100	0		7	.1	153	4	2	14	34
	190	192	2	.1	90	.2								
56	192	194	2	.1	100	0		86	.6	2079	10	2	11	13
	194	196	2	.1	90	.2								
57	196	198	2	.2	95	.1		20	.3	219	1.1	7	16	25
	198	200	2	.2	95	.1								
58	200	202	2	.2	95	.1		19	.1	220	7	3	13	24
	202	204	2	.2	100	0								
59	204	206	2	.2	100	0		17	.1	459	8	3	14	16
	206	208	2	.1	85	.3								
60	208	210	2	.1	100	0		22	.1	320	5	3	11	32
	210	210.9	.9	.1	100	0								

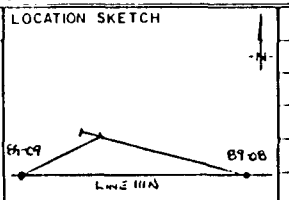
BP 888-3

DRILL HOLE NO. 1-88-05

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-08

DRILLING CO: Advance Drilling	LOCATION SKETCH: 	DEPTH: COLLAR 214.0	TESTS DIP ANGLE: −47° / −45°	AZIMUTH: 284°	DATE STARTED: Sept 26, 1989 DATE COMPLETED: Sept 28, 1989 COLLAR ELEV: ~1525m NORTHING: 6124740 EASTING: 401895 AZIMUTH: 284° DEPTH: 214.0m (702 Ft) CORE SIZE: NQ	PROJECT: Chuchi N.T.S.: 93N/7 LOCATION: Cu-Au Zone 111N 98+44E DATE LOGGED: Sept 26-29, 1989. LOGGED BY: RW.
HOLE TYPE: DDH						

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
0	9.1	CASING									
9.1	45.8	DIORITE PORPHYRY:				Kspar-epid	No sulphide		9.1-12	- Oxidized + broken. Perv kspar cut by epid ± fill from 10-12m	
		- equant tabular zoned plag 1-3mm ~50%, no consistent alignment				Wk kspar-py	1%	fg Py ff	12-14	- Mod chlorit² of Hb but Bi fresh, wk perv epid	
		- acicular Hb 1-3mm ~15%				Wk chl-epid	No Sulphide		14-16		
		- fg diss Mt 4%, locally veinlets				"		"	16-18	- Local kspar envelopes on low ∠ ± cut by epid ± fill	
		of Mt comprise 5%				"		"	18-20	" " "	
		- aphanitic gm lt to med grey ~15-20%				"		"	20-22		
		- med to dark grey-green colour (darker colour due to increased Mt)				"		"	22-24	- low angle discont Mt veinlets (0-20° CA)	
								"	24-26		
		- coarse to very coarse (1-2m) blk biotite occurs locally as diss along fractures (deuteric?)				"		"	26-28	- Mt veinlets; cg biot unaltered	
						"		"	28-30	- local kspar envelopes (wk)	
						"		"	30-32	- " " "	
						"	Tr	Py, Cp	32-34	low ∠ envelopes of kspar - clotty epidote - chl - Mt - Py - ± Cp (eg 33.5m)	

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH89-08.

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
						Wk chl-epid	No Sulph		34-36	Broken 35.4-41.6, slightly bleached	
						"		"	36-38		
						"		"	38-40	Local carbonate fr-fill.	
						"		"	40-42	Relatively solid core from 42m	
						"	Tr	Py	42-44	Minor kspar along fr. 42.5m is 5mm qtz-py vein @ 45° CA	
	44.2	45.8 is mixed zone with andesite inclusions, irreg clots of epidote 1-2 cm, irreg masses of cg biot-Mt (destructive) up to 10% Mt locally				Epid clots and fr-fill in mixed zone	Tr to	3% Py	44-46	Tr Py in mixed zone, fg diss along microfr probably replacing Mt.	
45.8	47.7	ANDESITE MICROPORPHYRY DYKE: -chilled upper and lower contacts sharp at ~45°CA -.5-1mm plag phenos ~15% in aphanitic dk green to black gm. Non-magnetic. Sub-circular .5-1cm clots of epid and fg py could be pseudomorphs after augite (?) -definitely post-dates diorite porphyry but not alteration event.				Epid clots and fr envelopes	Tr	Py	46-48	Tr py also in kspar-epid envelope in dilate adj to contact at 47.7 (all exploits zone of struct weakness	

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-08

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS (MINERALIZATION, TYPE, AGE RELATIONS)
47.7	66.7	DIORITE PORPHYRY: - dark green similar to above but contains much more Mt as dissem, veinlets and gm (up to 15-20%) - local chloritized andesite inclusions to 5 cm				Wk-mod kspar-epid envelopes	Tr	Py	48-50	Local 1cm wide kspar-epid-py envelopes gen @ 45°CA (~3/m); little perv alt^n	
						Local perv epidot^2	Tr	Py + Cp	50-52	50.5-51m zone of epid clts and andes inclusions; epid-kspar-py-tr Cp on 20° envelope marks start of this zone.	
						kspar-epid Py envelopes (3/m)	1-2%	Py	52-54	- alt envelopes are irreg or 45°CA, Primary Mt preserved in envelopes, some replacement by Py. Kspar alt almost bx-like (eg 53.0m)	
						"	1-2%	Py	54-56	Very wk perv alt^n	
						Lesser kspar, wk-mod epid ff	1-2%	Py + clotty Py	56-58		
						Wk epid ff	1%	Py	58-60	.5-2mm Py xtals on fr with epidote	
						Wk epid	Tr	to 3% Py Tr Cp	60-62	Py increasing from 61.6 downward, occurs as fg-mg discontinuous 'interstitial' dissem along fr with epid or chl replacing Mt. Pyritic fr gen 10° CA, tr Cp	
						Wk epid chl calc fr		3% Py	62-64	low angle kspar envelope 63.8-64.1 with minor Py	
		64-66 some large clots and veinlets of Mt comprise matrix to incipient Mt-crackle bx				Local kspar-epid envelopes (2/m)	Tr	Py	64-66	(NB) heavy "copper-coat" on core in this interval, may yield false Cu anomaly	

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH89-08

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
66.7	70.5	SILTSTONE :									
		-possibly large inclusion within diorite porphyry				Wk-mod epid, kspar	3+ % Py	Flooding occurs in	66-68	Py predom diss along low angle fr parallel to contact, also v fg diss in slst. Mod-st magnetic due to Mt-chl fr-fill.	
		-contact at 66.7 appear relatively sharp @ 20° CA but diorite "fingers" occur to ~67.3m.				silstone, chlty epidote					
		-siltstone is lt to dk green, locally black, locally pink (kspar-silt?) with no bedding evident				Wk-mod kspar	1-2 % Py	mainly on	68-70	fr	
		-gen strongly brecciated with matrix of chl-Mt				Wk-mod kspar in slst and Mod-st pervasive chlorite² of diorite	2% Py		70-72		
		-lower contact marked by 20 cm of Mt bx with clasts of angular diorite, slst and andesite (?)				Wk-mod epid.					
70.5	98.3	DIORITE PORPHYRY :				Wk-mod kspar-epid envelopes (2-3/m) Mod pervasive chlorite²	1-2% Py		72-74	Mt up to 30% as bx matrix	
		-same as above but contains numerous zones of incipient Mt-Bx				Moderate kspar-epid	1-2% Py	on fr with epid	74-76	Good Mt bx	
		-1-4m angular clasts of andesite rimmed by Mt				Wk local kspar-epid	1% Py		76-78	Local Mt Bx, local cg biot on fr (freak)	

DRILL HOLE NO. CH 89-08

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-08

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
						wk local kspar-epid	Tr Py		78-80	Local Mt Bx	
						"	Tr Py		80-82	Good Mt Bx ; 80-80.5 kspar-epid altd	
						Mod kspar-epid envelopes	3% Py		82-84	Alt envelopes 30+45° CA, contain py centres	Py replaces Mt in envelopes. Heavy Mt.
						wk epid	Tr Py		84-86		
						wk kspar-epid	Tr Py		86-88	Mt Bx	
						wk-mod kspar-epid	1% Py, tr to 1% Cp		88-90	89.6-90.0 Cp replacing Mt as fg 'sieve' texture adj to 50° 1cm wide Py-Cp-qtz vein and replacing partially chlorit² biot and completely chlorit² Hb	
						Minor kspar-epid	Tr-1% Py		90-92	Mt Bx	
			Nk green to blk due to mt content, occasional veg biot flakes			wk kspar, mod epid-chl	Py 2-3% Tr Cp		92-94	Less Mt-Bx. Sulphides commonly fg diss replacements and along epidot² fr	
						"	2-3% Py? Tr Cp		94-96	Py replacing Mt clots	
						wk-mod kspar-epid	3% Py		96-98		
98.3	99.6	ANDESITE MICROPORPHYRY DYKE: - same as 458-477, chilled contacts sharp @ 45°				wk-mod epid perv	Tr Py		98-100	Mainly dyke, minor Py fr-fill with epid	

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BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH89-08

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
99.6	165.3	DIORITE PORPHYRY:				wk chl-epid	Py ~2% predom on fr with epid		100-102		
		- same as above but less Mt (~5% diss Mt, no incipient Mt-Bx)				Mod kspar-epid, mod carb on fr	1-15% Py		102-104	Narrow carb bx at 103.8m, 102.5-103.2 is non-magnetic strongly sulphidized zone with up to 15% Py along low angle dry fr, wk to mod kspar flooding, all Mt is sulphidized.	
						Mod kspar-epid	Py 1-2%		104-106		
						Minor kspar, wk-mod epid-chl	Py 1-2%		106-108	Low angle Mt veins locally replaced by Py-epid	
						wk epid, mod chl, mod kspar to ~111m	Py 1-3% on fr		108-110		
						Mod kspar-epid, wk chl	Py 1-2%, tr Cp		110-112		
						wk local kspar-epid-py	Py ≤ 1%		112-114	113.4 is 10cm seam of Mt-rich sand (settling of cuttings)	
						wk epid	Py 1-2% on fr + epid		114-116		
						Minor kspar, epid	Py 1-2% on fract		116-118	carb veins @ 45-70° (6-8/m)	
						↓	↓		118-120		
						Patchy kspar 121-122	2-3% Py from 121-122		120-122	Minor pyritization of Mt in kspar zones (eg 121.1m)	

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MINING DIVISION

DRILL LOG

HOLE NO. CH 89-08

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
						Mod kspar flooding	Py along low ∠ envelopes	2%	122-124	Low angle discontinuous Mt 'veins'	
						wk-mod kspar-epid	Py	3% on ft with clay & epid	124-126		
						V wk kspar-epid, wk clay		2-3% Py tr Cp	126-128	- py predom on clay low angle ft 127.5-128.0	
								1-2% Py	128-130		
								1-2% Py tr Cp	130-132		
								1-2% Py	132-134		
								"	134-136		
								tr Py	136-138		
			Minor rounded →					Tr Py tr Cp	138-140	- tr Cp in kspar envelope at 140m, replaces Mt	
			andesite(?) inclusions to 3 cm					tr Py	140-142		
								tr Py tr Cp	142-144	- 143.1 is 10cm crackled andesite inclusion with Mt-Bi matrix, Cp-Py assoc with chlorit Bi	
								~1% Py	144-146	- py with kspar-epid alt^ patches, whit (clay) bleaching of plag phenos along 45-90°	
						wk kspar-epid env, wk pery chl		2-3% Py tr Cp	146-148	- alt and sulphides gen along 20-30° ft (slight increase in both)	

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BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-08

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
						Only v.wk chl	Tr Py		148-150	- some white bleaching of plag adj to fr ± carb	
						wk epid wk chl	Py Tr Cp	2%	150-152	- bleaching of plag, 1-3mm Mt veins @ 70-80° CA. Sulphides along low angle epidot² fr.	
						Mod kspar-epid env from 152-153m, wk chl	Py Tr Cp	2%	152-154		
						wk kspar-epid, v.wk chl	Tr Py		154-156	- some black biot xtals to 3cm on fr	
						V wk kspar-epid, wk-mod chl	Py .5% Cp	2%	156-158	- Vfg Cp + Py along low angle chloritic micro fr and dissem in chlorit² Hb, biot-Cp from 157.5-158.0m	
		Biot chalcop from 156-162m				↓	Py .5-1% Cp	3%	158-160	- same sulphide habit, some thicker and more coarse-gr Py + Cp in veins @ 0-25° CA	
			* NB: Sharp decrease in M. Susceptibility due mainly to shearing			Wk kspar-epid on low ∠ envelopes wk-mod chl	Py Cp	1% 1%	160-162	- splashy Cp along 0-20° fr with epidot or chl. Biot Cp seen around chlorit Bi	
						Mod-st chl, wk clay, epid	chl, Py Cp	1-2% ≤.5%	162-164	- 162.4-164.8 zone of low angle chl-carb veined wk shear. Cp + Py continue along low angle fr	
165.3	167.7	ANDESITE MICROPORPHYRY DYKE - sharp upper contact broken but healed by carb @ 35° CA. - chilled contacts, lower one sharp @ 40° - min² in dichite on both sides of				Mod epid-chl	Py Tr Cp	3-4%	164-166	- wkly sheared. Py as vfg diss in dyke, local Py-Cp on dry fr. Splashy Cp on 25-45° fr @ 166.7	
						wk epid dyke.	ff. Py fg diss and	3% as on dry fr	166-168	- dyke is pre-mineral ± Cp	

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-08

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS (MINERALIZATION, TYPE, AGE RELATIONS)
167.7	173.4	DIORITE PORPHYRY :				wk-mod kspar-epid ew 10-30°	Py 3-5%, tr Cp		166-170	- most of Mt has been sulphidized	
		- same as above									
						wk kspar, wk epid, wk-mod	Py 3%, carb, Cp .5%, chl		170-172	- splashy Cp but gen along 0-10° fr, wk local bleaching of plag.	
						wk kspar, epid, mod	Py 3%, Cp .5%, chl		172-174	- wk bleaching, 30° sulphide fr-fill	
173.4	173.6	ANDESITE MICROPORPHYRY DYKE				Mod kspar flooding	Py 3%		174-176	Good vfg Cp after Bi in areas of kspar flooding	
	*	- sharp chilled 40° contacts				175.3-176.4	Cp 1%				
		- lower contact strongly chloritized and has .5cm wide Py-Cp vein				Mod chl					
173.6	214.0	DIORITE PORPHYRY :									
		- same as above									
		- large biotite xtals locally				wk-mod epid ew,	kspar-wk-m chl	Py 3% Cp .5%	176-178	- sulphides as vfg dissem with chl after Hb+Bi, also dissem in zones of kspar alt, envelopes @ 45° to CA	
						Mod-st flooding,	kspar wk chl	Py 3% Cp .3%	178-180	- Py replacing Mt, local Mt-Bi bx at 180m	
						Mod-st flooding, mod-st	kspar locally chlor	Py 3+% Cp 1%	180-182	- kspar flooding 180.4-180.7 with st chl of bi and good Cp. 181.7 vcg Py subio (.5cm) with interstitial Cpy (seems to be on low angle fr with dk red hematite)	

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DRILL HOLE NO. CH-89-08

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MINING DIVISION

DRILL LOG

HOLE NO. CH 89-08

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION COLOUR	DESCRIPTION GRAIN SIZE	DESCRIPTION TEXTURE	DESCRIPTION ALTERATION	DESCRIPTION ORE MINERALS	DESCRIPTION FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
						wk kspar, epid, chl	Py	1-2% tr Cp	182-184	- Good Cp min ends ~ 182.2, minor carb on fr	
						wk-mod epid, chl, minor kspar	Py	1%	184-186		
						Minor kspar - epid		Tr Py Tr Cp	186-188	- wk kspar-epid along 30° fr	
						↓		Py 1-2% Tr Cp	188-190	- bleaching of plag adj to 0-15° chloritic shearing which starts at 190.6, continues intermittently to ~ 200cm. Wk gouge 191.0-191.1 Shearing follows min and chlorit² of low angle fr (post-dates min/alt)	
						St chl shear	Py	4-5% Tr to 5% Cp	190-192	- sulphides along 5-25° dry fr.	
						local kspar flooded, st chl	Py	2-3% shear.	192-194	* 191.4 Mo on one irreg low angle dry fr x-cutting Py-Cp ff	
		local dark patches (eg 195.1m) appear to be assoc with clots to 1cm	chloritized biotite, subround epid			Minor kspar, wk epid-chl	Py	2-3% Tr Cp	194-196	- local carb ff, sulphide in dry micro fr in chlorit wallrock	
						wk-mod epid	Py	3-5% Tr Cp	196-198	- predom low angle to subparallel fr with epid-py	
						"		"	198-200	- minor kspar envelopes	
						wk epid	Py	2% Tr Cp	200-202	- local bleaching of plag adj to zone of chl shear	
						wk kspar - epid env	Py	2%	202-204	- py restricted to kspar-epid	
						↓		↓	204-206		

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BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH 89-08

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
						Minor kspar-epid		Py 1%	206-208		
						Only minor epid		Py ≤ 1%	208-210		
						wk epid		Py 2% TrCp	210-212	= py on low angle dry fr	
						wk kspar-epid envelopes		Py 2-3% TrCp	212-214 EOH	= Minor carb ff	

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DRILL HOLE NO. CH 89-08

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BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	I.S. Sp. Gr.	CORE RECOVERY %	CORE RECOVERY AMT. LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
	9.1	10	.9	2.2	55	.4								
	10	12	2	.3	35	1.3								
	12	14	2	3.2	60	.8								
50361	14	16	2	4.0	95	.1		14	.1	149	6	7	37	34
	16	18	2	2.7	90	.2								
	18	20	2	2.1	45	1.1								
362	20	22	2	3.5	65	.7		33	.3	555	6	5	53	31
	22	24	2	3.6	80	.4								
	24	26	2	1.8	75	.5								
363	26	28	2	3.1	95	.1		22	.1	220	5	2	35	28
	28	30	2	2.5	100	0								
	30	32	2	3.8	70	.6								
364	32	34	2	5.6	85	.3		38	.1	221	8	6	38	21
	34	36	2	3.1	70	.6								
	36	38	2	2.2	40	1.2								
365	38	40	2	2.2	50	1.0		34	.3	258	8	4	45	31
	40	42	2	2.4	45	1.1								
	42	44	2	4.5	75	.5								
366	44	46	2	6.5	85	.3		51	.1	296	4	2	38	77
	46	48	2	1.3	100	0	Andesite dyke							
50482	48	50	2	7.0	100	0		330	.1	222	4	4	38	61
367	50	52	2	16.0	95	.1		610	.6	1392	3	4	52	28
368	52	54	2	14.0	100	0		63	.3	308	9	8	43	26
369	54	56	2	11.0	95	.1		27	.1	201	4	5	37	31
370	56	58	2	8.5	100	0		15	.3	254	6	8	40	34
50483	58	60	2	11.0	100	0		36	.1	217	5	4	43	52

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DRILL HOLE NO. CHR1-08

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S Sp-Gr	CORE RECOVERY %	CORE RECOVERY AMT. LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
50371	60	62	2	11.0	100	0		53	.1	388	6	4	41	29
372	62	64	2	10.5	100	0		51	.2	654	13	9	35	38
373	64	66	2	14.8	95	.1		25	.1	247	5	3	46	40
374	66	68	2	9.0	90	.2		29	.2	448	10	3	37	20
375	68	70	2	2.8	80	.4		31	.1	457	6	5	30	31
50484	70	72	2	4.1	100	0		44	.1	482	3	2	38	41
376	72	74	2	13.0	100	0		520	1.7	4612	9	4	53	19
50485	74	76	2	15.0	100	0		39	.1	261	7	3	39	53
50486	76	78	2	11.0	100	0		13	.1	158	2	4	43	56
377	78	80	2	8.0	100	0		23	.1	270	3	2	45	44
378	80	82	2	19.0	100	0		29	.1	307	9	6	45	41
379	82	84	2	13.0	100	0		24	.1	343	16	5	29	27
380	84	86	2	12.0	90	.2		27	.1	228	9	6	35	42
381	86	88	2	13.0	90	.2		24	.2	418	3	4	41	46
382	88	90	2	17.0	100	0		100	.6	1625	8	5	51	54
383	90	92	2	15.0	85	.3		59	.3	754	5	6	44	65
384	92	94	2	10.0	80	.4		71	.4	907	5	2	45	50
385	94	96	2	8.0	95	.1		95	.5	972	8	6	34	44
386	96	98	2	11.0	100	0		84	.3	965	4	4	39	38
50487	98	100	2	6.0	100	0	Andesite dyke	9	.2	618	3	2	46	45
387	100	102	2	8.0	100	0		210	.8	1415	9	3	40	49
388	102	104	2	2.3	100	0		290	1.1	2093	28	6	50	32
389	104	106	2	8.0	80	.4		84	.3	705	5	8	38	53
390	106	108	2	12.0	80	.4		35	.2	330	6	6	37	57
391	108	110	2	6.3	90	.2		15	.2	311	6	4	34	58
392	110	112	2	11.0	100	0		38	.1	457	3	11	36	62

DRILL HOLE NO. CH 82-08

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	I.S. Sp Gr	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
50488	112	114	2	14.0	90	.2		200	.4	1241	10	2	42	45
50373	114	116	2	6.0	100	0		107	.5	1254	10	4	41	40
50489	116	118	2	8.0	100	0		20	.2	1021	5	4	47	47
50490	118	120	2	6.5	100	0		74	.1	661	3	5	47	39
394	120	122	2	10.0	100	0		86	.2	855	4	6	44	41
50491	122	124	2	12.0	95	.1	↓	240	.3	1447	3	3	52	75
395	124	126	2	5.3	90	.2	122 - 200 m =	144	.7	1460	8	6	45	30
396	126	128	2	7.5	100	0	78 m @	101	.3	826	4	4	46	31
50492	128	130	2	11.5	100	0		210	.4	1219	6	2	54	52
50493	130	132	2	8.0	100	0		164	.3	1306	3	5	52	63
397	132	134	2	6.8	100	0		420	.9	3042	6	14	76	80
50494	134	136	2	10.0	100	0		260	.4	1005	2	8	51	77
50495	136	138	2	6.8	100	0		51	.1	415	2	6	50	66
398	138	140	2	6.7	100	0		70	.2	772	5	6	51	76
50496	140	142	2	10.0	100	0		63	.2	852	6	3	54	66
399	142	144	2	2.5	100	0		124	.5	1860	4	12	70	54
50497	144	146	2	8.0	95	.1		320	.5	2106	3	5	69	50
400	146	148	2	7.7	85	.3		83	.4	1018	5	2	53	51
50498	148	150	2	9.0	100	0		2	.1	526	4	4	49	65
50499	150	152	2	10.2	90	.2		220	.2	979	7	9	57	68
401	152	154	2	14.2	100	0		127	.8	1656	7	7	70	54
402	154	156	2	11.5	100	0		114	.6	1300	7	5	64	48
403	156	158	2	11.3	100	0	6m @ 553 ppb Au,	300	2.0	5323	8	16	102	75
404	158	160	2	6.1	100	0	4322 ppm Cu →	430	2.3	6566	5	2	124	54
405	160	162	2	3.7	95	.1	2.2 ppm Ag	930	2.4	6402	11	3	88	61
406	162	164	2	4.3	95	.1		154	1.1	2769	7	5	64	59

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DRILL HOLE NO. CH-89-08

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S. Sp-Gr.	CORE RECOVERY %	CORE RECOVERY AMT. LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
50407	164	166	2	3.0	100	0	Contact	89	.6	1327	9	3	60	48
408	166	168	2	1.1	100	0		83	.4	842	12	2	46	93
409	168	170	2	2.7	100	0	152-200m =	97	.5	1108	7	2	45	35
410	170	172	2	4.0	100	0	48m @	127	.6	1850	5	3	50	66
411	172	174	2	7.1	100	0	213ppb Au,	260	1.2	3001	7	7	53	114
412	174	176	2	4.7	100	0	2517 ppm Cu,	99	.7	1560	5	2	45	114
413	176	178	2	3.3	100	0	1.06 ppm Ag	113	.8	1674	7	8	53	72
414	178	180	2	7.2	100	0		51	.2	428	5	2	43	100
415	180	182	2	4.0	100	0		132	.7	1530	7	2	53	83
416	182	184	2	5.3	70	.6		76	.3	641	3	2	43	51
417	184	186	2	4.5	100	0		53	.3	385	7	2	41	47
418	186	188	2	9.4	95	.1	14m @ 373ppb Au,	250	.5	1144	2	2	43	44
419	188	190	2	7.3	100	0	3149 ppm Cu,	156	.8	1854	7	2	49	45
420	190	192	2	4.0	85	.3	1.4 ppm Ag	920	3.3	6295	11	23	97	97
421	192	194	2	3.8	100	0		72	.5	991	6	3	45	53
422	194	196	2	2.6	100	0		360	1.2	2813	8	7	63	42
423	196	198	2	2.4	100	0		590	1.9	5020	6	4	77	63
424	198	200	2	2.8	100	0		260	1.8	3926	9	2	60	49
425	200	202	2	3.9	85	.3		76	.5	872	5	4	51	116
426	202	204	2	4.3	100	0		123	.7	1336	2	3	53	31
427	204	206	2	6.1	100	0		107	.3	421	4	4	47	49
428	206	208	2	5.1	75	.5		37	.3	593	4	3	44	34
429	208	210	2	5.8	90	.2		51	.2	451	2	2	49	34
430	210	212	2	3.8	90	.2		41	.4	564	7	2	52	25
431	212	214	2	4.9	100	0		111	.5	1117	5	4	42	29
			EOH											

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DRILL HOLE NO. CH-84-06

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO CH-89-09

DRILLING CO: ADVANCE	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: SEPT 29, 1989	PROJECT: CHUCK II	
		COLLAR: 188.1	-65°	065°	DATE COMPLETED: OCT 2, 1989	NTS:	
			-65°	-	COLLAR ELEV: 1548 m	LOCATION: Cu-Au Zone L.111N, 96+40E	
					NORTHING: 6124735		
					EASTING: 401695		
					AZIMUTH: 065°		
HOLE TYPE					DEPTH: 188.1	DATE LOGGED: SEPT 30, OCT 1-2, 1989	
					CORE SIZE: NQ	LOGGED BY:	

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS (MINERALIZATION, TYPE, AGE RELATIONS)
0	10.4	CASING								
10.4	54.6	MONZONITE	Hornblende-feldspar porphyry. Light pink to white groundmass with dark green phenocrysts (1 to 4 mm long) of hornblende (30%) moderate to strongly altered to chlorite. Phenocrysts of plagioclase (5 to 10%) from 1 to 3 mm long (equant and tabular) weakly altered to sericite. 5% disseminated and dry fracture-filled of very fine grained subhedral pyrite. Blebs of epidote 2 to 10 mm long (1 to 5%). Phenocrysts are non to moderately aligned @ 60° C.A. Weakly calcareous, weak-mod magnetic. Trace of very fine grained magnetite. Subporphyritic to equigranular. Homogeneous.						20 to 40 fractures per metre. mainly @ 30° C.A. few are randomly orientated.	

DRILL HOLE NO. CH-89-09

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-09

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
10.4	12.0	Monzonite	Pk frac .5cm @ 30°C.A Hornblende weakly alter to chl.			at 11.7m	5% diss, frac fg-py py frac have epid envelope	tr. diss magnetite		20 fractures per metre @ ~30°C.A axialy.	
12.0	14.0	Monzonite	Subporphyritic As above occ carb frac @ 30°C.A.				5% diss., frac fg.py tr. diss v.f.g. mag			30 fractures per metre @ ~30°C.A.	
14.0	16.0	Monzonite	Subporphyritic increase in epid blebs (5%) Weak align phenocrysts @ 60°C.A				5% diss, frac fg-py tr. diss v.f.g. mag.			30 fractures per metre @ ~30°C.A.	
16.0	18.0	Monzonite	Subporph to equilgranular				5% diss, frac f.g. py tr diss v.f.g. mag			20-30 fractures per metre @ ~30°C.A	
18.0	20.0	Monzonite	Subporph to equilgranular epid. and/or Kspar alter assoc with frac.				5% diss, frac fg-py tr. diss v.f.g. mag.			20-30 fractures per metre @ ~30°C.A	
20.0	22.0	Monzonite	Equilgranular				5% diss, frac fg. py. tr. magnetite.			15-20 fractures per metre @ 30°C.A.	
22.0	24.0	Monzonite	Equilgranular. Cont'd of v.f.g. chloritized Volcanic fragment		Occ 1 to 3cm		5% diss and frac f.g. py. tr.		mag	20 fractures per metre @ 30°C.A 23.8-24.0 Healed fault gouge with each vein 1cm (cement)	

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BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-09

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
24.0	26.0	Monzonite	Porphyritic plag phenos 2 to 5 mm long (15%)			altered to kspar	5% diss, frac tr. mag		fg. py	15 fractures per metre @ various C.A	
26.0	28.0	Monzonite	Equilgranular, epidote, kspar,		weak chloritic sericite alt'n		2 to 4% diss, frac f.g. py. tr. mag			5 fractures per metre 30°-45° C.A.	
28.0	30.0	Monzonite	Equilgranular		homogenous.		5 to 8% frac, diss. py tr. mag.			5 fractures per metre @ 30-45° C.A. 29.0 .7cm m.g. py veinlet @ 30° C.A.	
30.0	32.0	Monzonite	Equilgranular		homogenous		5 to 6% frac, diss. py tr. mag.			5 to 10 fractures per metre @ 30°-45° C.A 30.9 to 31.1 epid fractures @ 45° C.A with kspar flooding.	
32.0	34.0	Monzonite	Equilgranular		occ zealith		As above			As above	
34.0	36.0	Monzonite	Equilgranular on section has plag and hornblende xtls aligned @ ~45° C.A.		occ. 10 to 30		5 to 8% frac., diss py. tr. mag.			5 to 10 fractures per metre @ 45° C.A.	
36.0	38.0	Monzonite	As above				As above			As above.	
38.0	40.0	Monzonite	As above				5% frac, diss py tr. mag			5 fractures per metre @ 45° C.A.	

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MINING DIVISION

DRILL LOG

HOLE NO. CH-89-09

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
40.0	42.0	Monzonite	Equilgranular, occ. zeolith from 1 to 3 cm long. 2% blebs 1cm long.			epid.	3-5% f.g. py. tr. mag	frac., diss		5 fractures per metre @ 30°-45° C.A.	
42.0	44.0	Monzonite	Equilgranular				3-5% tr. diss mag.	frac, diss f.g. py		5 fractures per metre @ 30°-45° C.A	
44.0	46.0	Monzonite	Equilgranular - crystals @ 50° C.A		aligned		5% diss., tr. mag	frac f.g. py		5 fractures per metre @ 30°-45°C.A.	
46.0	48.0	Monzonite	Equilgranular crystals aligned @ 50° C.A.				5-8% tr. f.g.	diss, frac f.g. py diss. mag		5 fractures per metre @ 30°-45°C.A.	
48.0	50.0	Monzonite	Equilgranular crystal aligned @ 50° C.A.				5-8% py. tr. mag	diss., frac., f.g. diss. f.g.		5 fractures per metre @ 30°-45°C.A.	
50.0	52.0	Monzonite	Equilgranular - crystals non to poorly aligned @ 50°C.A occ. zeolith.				5% diss., tr. diss	frac., f.g. py mag.		5 fractures per metre @ 45°C.A.	
52.0	54.6	Monzonite	Equilgranular crystals to non aligned			poorly	5% py. tr. diss	frac., diss, f.g. mag		5 fractures per metre @ ~45°C.A.	

DRILL HOLE NO. CH-89-09

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-09

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
54.6	58.1	SILTSTONE	Light to dark green, aphanitic, hornfelsed v.f.g. biotite interbeds some containing f.g. disseminated pyrite. Occasional interbed less than 5cm wide of monzonite. 5% Kspar flooding around monzonite fragments and occasional fracture of Kspar. 5% v.f.g. disseminated pyrite in occasional interbed. Altered - bleached - silicified - hornfelsed						Upper contact @ 20°-30° C.A. - broken core (est.) 10-20 microfractures per metre @ various C.A.	
54.6	56.0	siltstone	Sltst is hornfelsed, silicified and Kspar altered (5%)				3-5% diss., frac. fg-mg. py. Occ mg. py on frac.		10-20 microfractures per metre @ various C.A.	
56.0	58.1	siltstone	Hornfelsed, silicified, occ interfingering of monzonite - 5% Kspar flooding				5% diss., frac., fg. py tr. of cpy v.f.g. diss.		As above.	
58.1	64.2	MONZONITE	As described from 10.4-54.6m with occasional xenolith of v.f.g. dark green volcanic and/or dark green hornfelsed siltstone fragment 1 to 2cm long 3 to 5% disseminated and fractures of fine grained pyrite						Upper Contact @ 30° C.A. (?) 5 fractures per metre @ 30-45° C.A. and subparallel to C.A.	

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DRILL LOG

HOLE NO. CH-89-09

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
58.1	60.0	Monzonite	med. green	med. grained,	epid blebs, occ. zeolith (3%) - 59.4 4mm py frac. @ 45°C.A. with Kspar envelope.		3-5% py.	diss., frac. f.g.		5 fractures per metre @ 30°-45° C.A.	
60.0	62.0	Monzonite	Equigranular -		occ. zeolith (2%)		3-5%	diss., frac. f.g. py		5 fractures per metre @ 30°-45°C.A.	
62.0	64.2	monzonite	As above				As above			As above	
64.2	67.7	SILTSTONE CRACKLE BRECCIA	Light to dark green, aphanitic, fragments from .5 to 10cm long. Interbeds are discontinuous. Occasional fragment (5%) of monzonite - bleached - epid - kspar altered. Pyrite replacing fragments.							Upper contact @ 45° C.A. (?)	
64.2	66.0	siltstone	Brecciated - as described above.		as described		5% repl. frac, diss py			10-20 microfractures per metre @ Various C.A. No bedding - broken - brecciated.	
66.0	67.7	siltstone	As above				As above			As above	
67.7	71.8	DIORITE PORPHYRY	Medium to dark green, fine to medium grained with 1 to 3mm laths of plagioclase (30-40%), 3 to 5% biotite (1 to 10 mm long xtals) Trace to 2% f.g. diss. pyrite and f.g. pyrite along fractures. Trace to 2% fine grained disseminated magnetite.							Upper contact @ 45° C.A. 3 to 5 microfractures per metre @ various C.A.	

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DRILL LOG

HOLE NO. CH-89-09

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
67.7	70.0	Diorite	Porphyry - no aligned phenocrysts				Tr-2% v.f.g. py		3-5 fractures per metre @ various C.A.	
			ccc. epid. frac, carb frac				Tr-2% diss. enc			
70.0	71.8	Diorite	As above				As above		5-8 fractures per metre @ various C.A.	
71.8	109.9	SILTSTONE (WITH DIORITE INTERBEDDING IN TOP PORTION)	White to pinkish to grey-dark green, aphanitic with Kspar - epid alteration around brecciated sections. From 71.8 to 79.0 many diorite interlayers from 10 to 30 cm wide. Diorite is fine grained with 1 to 2mm plagioclase phenocrysts (20-30%). Siltstone is bleached-hornfelsed - silicified and occasionally Kspar flooded. Pyrite occurs very fine to fine grained - disseminated along certain beds (usually along hornfelsed beds) and it occurs in fractures from .5 to 4mm wide. Siltstone is very brittle and has 20 to 50 microfractures per metre @ Various C.A.						Gradational contact 10 to 20 microfractures per metre @ Various C.A.	
71.8	74.0	siltstone/diorite	Diorite is fine grained. Siltstone is hornfelsed and brecciated				5% some repl. py	f.g. frac py	10 to 20 microfractures per metre @ Various C.A.	
74.0	76.0	siltstone/diorite	As above. 74.3 - 4cm epid vein @ 70° C.A.				5% py	frac, repl f.g.	As above.	

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DRILL LOG

HOLE NO. CH-89-09

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
76.0	78.0	siltstone/sltst	As above				5-10% diss f.g.-m.g.	frac., repl., py		As above. py fractures @ 30° C.A	
78.0	80.0	siltstone	Hornfelsed-silicified-brecciated				3-5% diss., frac. f.g.-m.g.	py		5 pyrite fractures per metre @ 30° C.A. 20 mkn fractures per metre @ various C.A.	
80.0	82.0	siltstone	Hornfelsed-silicified				5% diss, frac	m.g.	py	Bedding @ 45° C.A. 20+ microfractures per metre @ various C.A.	
82.0	84.0	siltstone	Hornfelsed-Silicified-Kspar, epid alt.				5% diss. frac.	m.g.	py	Bedding @ 45° C.A. 82.1 - 6mm py veinlet @ 30° C.A. 5 pyrite fractures per metre @ mainly 30° C.A.	
84.0	86.0	siltstone	Hornfelsed-silicified-bleached kspar flooding and occ. kspar along fractures				5% diss, frac,	f.g.	py	Bedding @ 30° C.A. 50+ microfractures per metre @ various C.A.	
86.0	88.0	siltstone	Hornfelsed-silicified-bleached occ. Kspar flooding along frac.				5% diss., frac.	f.g.	py	Bedding @ 30° C.A. 50+ microfractures per metre @ various C.A.	
88.0	90.0	siltstone	Hornfelsed-silicified-bleached occ. kspar flooding along frac				2-4% diss, frac	fg.	py	Bedding @ 30° C.A. 20-30 microfractures per metre @ various C.A.	
90.0	92.0	siltstone	As above. 91.0-91.7 Hornfelsed-dark green with 10% m.g. diss. pyrite.				As above			As above	

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DRILL LOG

HOLE NO. CH-89-09

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
92.0	94.0	Siltstone	As above				As above			As above	
94.0	96.0	Siltstone - crystal tuff - diorite - sist	siltstone - hornfelsed - silicified - bleached. 95.0 - 95.3 crystal tuff - med green, med grained trace diss fg. py. Epid. frac. Upper contact lost.							Bedding @ 30° C.A. 20 to 30 microfractures per metre @ various C.A.	
			95.3 - 95.7 Diorite dyke as described from 67.7 to 71.8				tr - 2% diss fg. py			Upper Contact @ 65° C.A.	
96.0	98.0	Siltstone	Hornfelsed - silicified - bleached				5% diss. frac. fg. py			Bedding @ 30° C.A. 20 to 30 microfractures per metre @ Various C.A.	
98.0	100.0	Siltstone	As above				As above			As above	
100.0	102.0	Siltstone	As above				As above			As above Bedding @ 40° C.A.	
102.0	104.0	Siltstone	Hornfelsed - silicified - bleached occ. hornfelsed "fragment" in interbeds occ. kspar flooding along frac.				5% diss, frac, & fg. py			Bedding @ 45° C.A. 20 to 30 microfractures per metre @ Various C.A.	
104.0	106.0	Siltstone	As above				2-5%	diss, frac, & fg. py		Bedding @ 45° C.A.	
106.0	108.0	Siltstone	As above				2-5% diss, frac, & fg. py			As above	

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DRILL LOG

HOLE NO. CH-89-09

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
108.0	109.9	siltstone	As above.				2-5%	diss., frac, f.g. py	Bedding @ ~45° C.A	
109.9	188.1 E.O.H.	DIORITE PORPHYRY	Medium to dark green, fine grained with laths of plagioclase 1 to 3mm long (30-40%) weakly sericite altered. Trace of diss. fine grained magnetite, trace to 3% of disseminated very fine grained pyrite. Feldspar crowded to subcrowded porphyry. Occasional fracture with epidote - kspar alteration.						Upper Contact last - broken core - fine grained crowded porphyry at chilled margin ~(1.5 m).	
109.9	112.0	Diorite	f.g. crowded porphyry altā w.th occ frac.			Tr. epid	2-5%	diss., frac f.g. py	20 to 30 microfractures per metre @ Various C.A.	
112.0	114.0	Diorite	m.g. crowded porphyry 112.4 - 2cm Kspar - epid - py veinlet @ 45° C.A.				2-5%	diss, frac f.g. py	10 to 20 microfractures per metre @ Various C.A.	
114.0	116.0	Diorite	m.g. crowded porphyry epid altā with fractures			occ	2-4%	diss, frac f.g. py	5-10 microfractures per metre @ Various C.A. and subparallel with C.A. 116.0-116.4 carb-epid fracture subparallel.	
116.0	118.0	Diorite	m.g. crowded porphyry 10cm dark green, aphanitic hornfelsed "raft" of Slight epd - kspar altā			117.5 - silstone assoc.	2-4% py	diss., frac, f.g.	5 fracture per metre @ 30°-45° C.A. and subparallel. Phenocrysts aligned @ 55° C.A.	

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DRILL LOG

HOLE NO. CH-89-09

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
118.0	120.0	Diorite	m.g. crowded porphyry. Tr epid alta with frac.				2 to 4% diss, frac f.g. py		5 to 10 microfractures per metre @ various C.A. 5 fractures per metre @ 30-45° C.A. and subparallel Phenocryst aligned @ 55° C.A.	
120.0	122.0	Diorite	m.g. crowded porphyry. Tr epid alta with frac.				2-3% diss, frac. f.g. py		As above	
122.0	124.0	Diorite	As above				2-4% diss, frac, f.g. py		As above	
124.0	126.0	Diorite	m.g. crowded porphyry. phenocryst up to 4cm long. At 125.8-126.0 kspar flooded, m.g. py frac @ 45° C.A ~10% py				3-6% diss, frac f.g. py.		As above	
126.0	128.0	Diorite	m.g. crowded porphyry phenos @ 45° C.A. 127.1-1cm kspar-epid-py veinlet @ 45° C.A ⊥ to aligned phenocryst. 127.9-128.0 epidote-kspar vein no C.A				2-4% diss, frac, of f.g.-m.g. py. At 126.0-5mm m.g. py veinlet @ 30° C.A Tr cpy assoc with kspar flooding		5 fractures per metre ∥ and ⊥ to aligned phenocryst @ 45° C.A	
128.0	130.0	Diorite	m.g. crowded porphyry section has abundant epid-kspar frac (3-5%) and frac which have bleached pkg phenos white				2-4% diss, frac, f.g. py. 128.8-4mm py veinlet @ 45° C.A ⊥ to aligned phenos		10-15 fractures per metre @ 45° C.A. py-kspar-epid.	

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INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
130.0	132.0	Diorite	m.g. crowded porphyry As above				2 to 4% diss, frac, of f.g. py-cpy. Tr cpy in c.g. py fracture		10-15 fractures per metre @ various C.A. of py-kspar-epid-(cpy) ± 411 to C.A.	
132.0	134.0	Diorite	m.g. crowded porphyry poor to non aligned phenocrysts				2 to 4% diss., frac., of f.g. py. Tr. cpy in py fractures.		As above	
134.0	136.0	Diorite	m.g. crowded porphyry As above				2 to 3% diss, frac., of f.g. py.		5 to 10 fractures per metre. @ various C.A.	
136.0	138.0	Diorite	m.g. crowded porphyry poor to non aligned phenos				1 to 2% diss., frac of f.g. py		5 fractures per metre @ various C.A.	
138.0	140.0	Diorite	m.g. crowded porphyry				1 to 3% diss, frac f.g. py		5 fractures per metre @ 45°-60° C.A. occ. epid. ± Kspar ± py fractures.	
140.0	142.0	Diorite	m.g. crowded porphyry 141.0 - 2cm epid-Kspar veinlet bleached-altered envelope 2cm either side.				1 to 3% diss., frac., f.g. py. occ. magnetite frac.		5 to 8 fractures per metre @ 45°-60° C.A. and subparallel	
142.0	144.0	Diorite	m.g. crowded porphyry 2 to 3% epid alt., 2 to 3% Kspar flooding.				1 to 3% frac & diss. of f.g. py. 3 to 5% magnetite frac Tr cpy in frac. w f.g.		10 to 15 fractures per metre @ various C.A.	

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INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
144.0	146.0	Diorite	m.g. crowded aligned py stringers - coarse grained	pheaos	porphyry. 144.8 - 145.0 veinlets	no 2cm py veinlet	2 to 4 % frac, veinlet, diss of f.g. - c.g. py tr. mag. diss. & frac			8 to 10 fractures per metre @ Various C.A.	
146.0	148.0	Diorite	m.g. crowded 3 py veinlets .5 to 1cm wide per metre with kspar - epid altn assoc envelopes		porphyry.		2 to 3 % frac. diss f.g. py			6 to 8 fractures per metre @ Various C.A.	
148.0	150.0	Diorite	m.g. crowded epid frac 149.4 - Kspar flooded 5cm section		porphyry. occ		2% frac, diss f.g. py			4 to 6 fractures per metre @ Various C.A.	
150.0	152.0	Diorite	m.g. crowded no aligned phenocrysts. Tr. epid. altn. plag phenos non to very weak sericite alt.		porphyry		2% frac., diss f.g. py			5 fractures per metre @ Various C.A	
152.0	154.0	Diorite	m.g. crowded 152.4 - 152.6 Brecciated mag With kspar flooding		porphyry		1 to 3% frac., diss., f.g. py. Tr of cpy in fracs (2) @ 45° C.A assoc. with brecciated section.			10 to 15 fractures per metre @ Various C.A.	

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MINING DIVISION

DRILL LOG

HOLE NO. CH-89-09

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
154.0	156.0	Diorite	m.g. crowded aligned phenos. Kspar - alt'n assoc. with frac.		porphyry	no epid	1-3% frac., diss., f.g. py. 155.0 c.g. 1cm py veinlet @ 45° C.A.			5 to 10 fractures per metre @ various C.A.	
156.0	158.0	Diorite	m.g. crowded As. above.		porphyry		1-3% frac., diss f.g. py. 157.6 - 1cm c.g. py veinlet @ 45° C.A. py cubes 1cm² Cpy (tr) in frac			5 to 10 fractures per metre @ various C.A.	
158.0	160.0	Diorite	m.g. crowded As above. 158.6 - 5cm Kspar bleb, 3% epid in 1 to 3cm bleb frac of biotite 10 to 15 per metre - not altered.		porphyry	As above	3-5% frac., diss., f.g. py			10-15 fractures per metre @ various C.A.	
160.0	162.0	Diorite	m.g. crowded 1% epid in blebs. 2 fractures per metre of biotite		porphyry		2% frac., diss f.g. py tr. cpy in py frac.			5 fractures per metre @ various C.A.	
162.0	164.0	Diorite	m.g. crowded 163.0 - 3cm *epid + py.		porphyry Kspar biotite fracture	flooded	1-3% py f.g. tr. cpy		diss. frac.	6 to 8 fractures per metre many @ 45° C.A. randomly orientated.	

DRILL HOLE NO. CH-89-09

BP88-2

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-09

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS: MINERALIZATION, TYPE, AGE RELATIONS
164.0	166.0	Diorite	m.g. crowded aligned phenos in blebs assoc. with ksp and py		porphyry, 2-3% epid. assoc. with frac	no	1-3% f.g. diss, frac py. Tr. cpy assoc with ksp alloy fractures		10 to 15 fractures per metre @ various C.A. and subparallel.	
166.0	168.0	Diorite	m.g. crowded aligned phenos 2-3% epid in blebs + epid-ksp alt'n		porphyry, no 167.8-168.0		1-3% f.g. diss, frac py. tr. cpy in frac		10 fractures per metre @ various C.A.	
168.0	170.0	Diorite	m.g. crowded As above		porphyry		1-2% fracy, diss f.g py. Tr. cpy in frac		10 fractures per metre @ various C.A many @ 45° C.A.	
170.0	172.0	Diorite	m.g. crowded porphyry 170.6-171.0 * mag stringers (3mm) @ 30° C.A. being 10 to 60% replaced by pyrite 171.8-172.0 10% py in veinlets @ 45° C.A				2 to 3% fracy, diss, repl f.g. py. 2% mag f.g in frac. Tr cpy in frac		10 to 15 fractures per metre @ various C.A. (many @ 45° C.A.) * magnetite is v.f.g. with no alt'n assoc. = magmatic fluids not hydrothermal / dilantant frac = host rock was crystalized and then fractured.	
172.0	174.0	Diorite	m.g. crowded porphyry with 3% epid and 3% ksp.				2 to 3% frac, diss, repl f.g. py. tr. cpy		5 to 10 fractures per metre @ Various C.A.	
174.0	176.0	Diorite	m.g. crowded porphyry with 2 to 3% epid. and ksp occurring in 2-3cm blebs				2 to 3% diss, fracy f.g. py. Tr. cpy in frac. 1% t in mag in frac stringers		7 to 10 fractures per metre @ various C.A.	

DRILL HOLE NO. CH-89-09

BP Resources Canada Limited
MINING DIVISION

DRILL LOG

HOLE NO. CH-89-09

INTERVAL FROM	INTERVAL TO	ROCK TYPE	DESCRIPTION: COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS (MINERALIZATION, TYPE, AGE RELATIONS)
176.0	178.0	Diorite	m.g. crowded porphyry with 2-3% epid-kspar blebs 176.7 - 2cm epid-carb breccia vein @ 70° C.A.				2% frac + diss f.g. py. Tr. cpy in frac. massive magnetite @ 176.8 veinlet 2cm wide @ 45° C.A.		10 to 12 fractures per metre mainly @ 45° C.A.	
178.0	180.0	Diorite	m.g. crowded porphyry 1-2% epid-kspar altn assoc with frac. Occ fragmented (1-3m)				2% frac., diss f.g. py Tr. cpy in microfrac 2 to 3 per metre		5 to 8 fractures per metre @ various C.A. Kspar fractures @ 20° C.A.	
180.0	182.0	Diorite	m.g. crowded porphyry 1% epid-kspar altn in frac and < .5 cm blebs				2% frac, diss fg. py Tr. cpy in microfrac 2 to 3 per metre		10 to 15 fractures per metre @ various C.A. (30-45°, 80-90°, subparallel)	
182.0	184.0	Diorite	m.g. crowded porphyry. 1% epid altn assoc with frac				2% frac., diss fg. py. tr. cpy in microfrac.		As above	
184.0	186.0	Diorite	m.g. crowded porphyry 1% epid-Kspar blebs + along frac.				2% frac., diss fg py Tr cpy in microfrac (1-3%)		10-12 fractures per metre @ various C.A. (as above)	
186.0	188.1 E.O.H.	Diorite	m.g. crowded porphyry 1-2% epid-Kspar altn assoc along fractures and in blebs.				2% frac + diss f.g. py Tr. cpy in microfractures (1 to 3 per metre).		8 to 10 fractures per metre @ various C.A.	

2-85-08

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S. Sp Gr	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
50432	10.4	12.0	1.6	1.4	69	.5		1	.2	121	5	6	12	31
	12	14	2	.5	100	0								
	14	16	2	1.2	75	.5								
433	16	18	2	.8	85	.3		30	.4	306	9	4	13	29
	18	20	2	1.7	95	.1								
	20	22	2	1.8	85	.3								
434	22	24	2	.2	95	.1		1	.3	88	7	4	14	29
	24	26	2	.2	100	0								
	26	28	2	.9	90	.2								
435	28	30	2	.7	90	.2		13	.2	144	6	3	10	38
436	30	32	2	.9	100	0		1	.1	116	7	2	9	37
	32	34	2	.4	90	.2								
437	34	36	2	2.1	100	0		10	.2	96	3	8	15	38
	36	38	2	.5	85	.3								
	38	40	2	1.7	80	.4								
438	40	42	2	1.7	95	.1		1	.2	125	3	5	20	38
	42	44	2	1.2	90	.2								
	44	46	2	.8	90	.2								
439	46	48	2	1.0	100	0		1	.3	231	3	10	26	55
	48	50	2	1.5	100	0								
	50	52	2	3.5	100	0								
440	52	54	2	3.2	100	0		1	.3	255	3	10	21	68
	54	56	2	2.4	80	.4								
441	56	58	2	.5	95	.1		221	1.3	1815	5	4	41	50
	58	60	2	1.2	95	.1								
442	60	62	2	1.7	90	.2		44	.2	255	2	2	23	49

DRILL HOLE NO. CH-87-02

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S. Sp. G.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
	62	64	2	2.8	90	.2								
50443	64	66	2	.7	95	.1		137	.7	1013	8	4	40	56
444	66	68	2	.8	90	.2		207	.5	858	8	5	40	57
445	68	70	2	4.7	95	.1		137	.4	251	6	2	44	82
	70	72	2	3.4	100	0								
446	72	74	2	3.8	85	.3		2	.4	634	4	2	31	57
447	74	76	2	.7	95	.1		136	.5	706	6	5	27	44
448	76	78	2	2.2	85	.3		1	.6	570	11	4	28	49
	78	80	2	.1	100	0								
449	80	82	2	.1	85	.3		361	1.7	2462	25	3	40	28
	82	84	2	0	100	0								
450	84	86	2	.1	85	.3		75	.4	699	12	5	26	60
	86	88	2	.4	90	.2								
451	88	90	2	.2	95	.1		1	.4	413	5	2	12	41
	90	92	2	.2	100	0								
452	92	94	2	.1	100	0		240	.7	1020	10	8	22	40
	94	96	2	1.3	95	.1	Dyke							
	96	98	2	0	90	.2								
453	98	100	2	.1	90	.2		225	.3	574	9	6	18	45
	100	102	2	0	100	0								
	102	104	2	0	100	0								
454	104	106	2	0	95	.1		1	.3	492	8	5	17	52
	106	108	2	0	100	0								
	108	110	2	1.3	80	.4								
455	110	112	2	6.2	95	.1		132	.4	783	2	3	41	57
	112	114	2	3.8	100	0								

BP 98-3

DRILL HOLE NO. CEL89-09

BP Resources Canada Limited
MINING DIVISION

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	~~Sec Wt~~ Sec	%	AMT LOST		Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
	114	116	2	5.8	100	0								
50456	116	118	2	2.0	95	.1		193	.7	877	5	2	49	75
	118	120	2	4.2	90	.2								
	120	122	2	3.8	100	0								
457	122	124	2	4.4	100	0		67	.4	422	2	10	49	68
458	124	126	2	3.4	100	0		132	.5	637	2	6	42	68
459	126	128	2	4.3	90	.2		85	.6	997	18	6	35	40
460	128	130	2	2.2	100	0		128	.3	280	5	9	30	51
461	130	132	2	2.1	100	0		88	.6	672	6	8	36	55
462	132	134	2	5.3	100	0		150	.3	523	2	5	43	72
463	134	136	2	5.0	100	0		1	.4	720	4	6	45	75
	136	138	2	5.7	100	0								
464	138	140	2	6.6	100	0		1	.2	195	2	5	50	74
	140	142	2	4.2	100	0								
465	142	144	2	11.0	100	0		211	.5	467	2	5	48	63
466	144	146	2	5.0	100	0		152	.5	717	8	3	45	59
467	146	148	2	5.5	95	.1		75	.3	297	2	2	45	65
	148	150	2	5.3	100	0								
468	150	152	2	4.4	100	0		10	.1	388	4	5	45	53
	152	154	2	6.9	100	0								
	154	156	2	5.7	100	0								
469	156	158	2	5.2	100	0		180	.8	1690	2	2	52	48
	158	160	2	8.0	100	0								
470	160	162	2	4.3	100	0		240	.3	711	2	7	48	55
	162	164	2	6.6	100	0								
471	164	166	2	5.2	100	0		55	.3	639	2	2	50	49

BP RMR 3

DRILL HOLE NO. CH-89-09

BP Resources Canada Limited
MINING DIVISION

DRILL LOG — sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	~~GM~~ SG Mud Susc	%	AMT LOST		Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Ba ppm
	166	168	2	5.3	100	0								
50472	168	170	2	4.4	100	0		16	.5	717	3	4	47	42
50500	170	172	2	4.6	100	0	170 - 186 m	210	.4	1132	6	2	55	70
473	172	174	2	4.8	100	0	16 m @	230	.9	1853	6	6	66	42
50501	174	176	2	4.3	95	.1	.114% Cu,	131	.2	778	5	3	52	45
474	176	178	2	7.5	100	.1	.20 g/t Au	340	1.0	1912	4	4	67	37
50502	178	180	2	5.3	100	0	.44 g/t Ag	76	.2	516	2	2	45	45
475	180	182	2	6.4	100	0		250	.1	601	2	2	47	40
50503	182	184	2	6.6	95	.1		200	.3	1235	5	2	48	59
476	184	186	2	6.2	85	.3		240	.3	1046	5	6	50	44
50504	186	188.1	2.1	6.4	86	.3		6	.1	599	2	6	45	55

BP R8-3

DRILL HOLE NO. CH-89-09

APPENDIX V

Drill Hole Analytical Results

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: SEP 7 1989 DATE REPORT MAILED: Sept 9/89 SIGNED BY. C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

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SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50001	1	38	6	174	.2	12	24	3312	6.33	35	5	ND	1	81	1	2	2	129	5.41	.130	7	14	2.37	23	.02	6	2.99	.01	.12	4	3
A 50002	1	126	7	167	.3	13	27	3169	6.33	46	5	ND	1	82	1	2	2	118	5.88	.127	6	10	2.37	20	.02	2	2.64	.01	.09	4	7
A 50003	1	166	7	157	1.0	14	47	2684	8.86	106	5	ND	1	66	1	2	2	139	4.57	.130	7	11	2.23	24	.02	3	2.61	.01	.11	3	45
A 50004	1	140	6	145	.6	13	24	2692	9.10	111	5	ND	1	67	1	2	2	129	5.04	.131	7	14	2.17	24	.01	4	2.41	.01	.11	2	46
A 50005	1	185	7	148	.8	13	25	2964	8.50	75	5	ND	1	67	1	2	2	138	5.27	.130	8	10	2.53	31	.01	5	2.88	.01	.13	3	38
A 50006	1	24	12	135	1.0	16	23	2681	8.91	43	5	ND	1	69	1	2	2	136	5.48	.132	8	11	2.81	23	.01	2	2.65	.01	.13	2	58
A 50007	3	465	15	142	2.3	12	21	2645	9.13	126	5	ND	1	83	1	3	2	130	6.48	.120	7	10	2.51	12	.01	5	2.54	.01	.08	4	141
A 50008	8	260	9	157	.9	14	23	2739	7.52	53	5	ND	1	80	1	2	2	148	5.99	.141	8	13	2.36	18	.01	4	2.92	.01	.10	1	51
A 50009	1	28	23	129	2.2	12	26	2119	10.47	85	5	ND	1	53	1	2	2	128	4.43	.144	8	9	2.63	18	.01	11	2.36	.01	.13	1	111
A 50010	1	96	4	143	1.6	15	28	2747	8.76	26	5	ND	1	84	1	2	3	138	5.01	.149	8	9	2.89	25	.02	7	2.78	.01	.13	4	170
STD C	18	63	38	129	6.7	67	29	977	4.14	37	19	7	36	46	18	15	22	58	.50	.090	37	53	.91	167	.07	37	1.98	.06	.14	13	-
A 50011	1	227	2	147	.2	13	21	2986	7.15	58	5	ND	1	84	1	4	2	161	4.51	.147	7	9	2.31	31	.05	2	2.77	.01	.08	1	4
A 50012	1	26	3	157	.1	11	12	2787	7.05	9	5	ND	1	89	1	2	2	133	5.89	.138	8	8	2.74	25	.01	4	2.83	.01	.14	3	1
A 50013	1	69	3	139	.1	14	21	3031	5.82	19	5	ND	1	74	1	2	3	118	5.63	.134	8	11	2.32	26	.01	9	2.68	.01	.19	2	9
A 50014	1	77	2	121	.1	12	18	2390	6.56	34	5	ND	1	60	1	2	10	120	5.19	.129	8	10	2.13	19	.01	10	2.30	.01	.15	1	17
A 50015	1	41	15	143	.2	3	17	2895	6.96	46	5	ND	1	60	1	2	3	114	5.17	.138	8	6	2.11	18	.01	4	2.37	.01	.14	1	25
A 50016	1	246	17	236	.5	10	19	2958	6.92	95	5	ND	1	56	1	2	2	109	5.13	.137	8	12	2.43	12	.01	3	2.56	.01	.16	3	14
A 50017	1	24	5	200	.1	8	13	2895	6.46	44	5	ND	1	67	1	2	2	97	5.60	.136	8	6	2.13	14	.01	10	2.43	.01	.19	2	7
A 50018	1	65	7	163	.2	12	18	2598	7.10	27	5	ND	1	73	1	2	2	110	6.12	.132	8	8	2.49	13	.01	11	2.63	.01	.15	2	13
A 50019	3	145	5	146	.1	12	23	2775	7.63	44	5	ND	1	87	1	2	2	124	6.76	.129	8	10	2.59	12	.01	2	2.71	.01	.14	3	18
A 50020	2	164	5	214	.6	15	30	2368	9.25	89	5	ND	1	65	1	4	2	139	5.14	.131	9	16	2.92	14	.01	7	2.74	.01	.11	2	29
A 50021	1	353	7	167	.2	14	24	2093	7.98	67	5	ND	1	77	1	2	3	128	5.80	.138	9	11	2.66	21	.01	10	2.62	.01	.12	1	43
A 50022	1	33	9	171	.3	14	26	1936	9.27	47	5	ND	1	69	1	3	2	148	5.26	.138	8	10	3.09	19	.01	5	2.85	.01	.12	3	46
A 50023	1	172	9	176	1.0	15	25	2018	10.26	62	5	ND	1	57	1	3	2	163	4.61	.137	8	8	3.31	28	.01	3	2.90	.01	.09	2	67
A 50024	1	208	13	170	1.0	14	30	2361	10.14	57	5	ND	1	66	1	3	2	158	5.54	.146	9	14	3.42	26	.01	6	3.00	.01	.12	2	79
A 50025	1	97	2	154	.7	15	24	2882	6.99	57	5	ND	1	83	1	3	2	126	7.65	.130	8	18	3.14	13	.01	11	2.77	.01	.13	2	46
A 50026	1	62	2	146	.5	18	18	3212	7.06	19	5	ND	1	83	1	2	2	121	7.26	.133	9	19	3.25	28	.01	9	2.96	.01	.17	3	22
A 50027	15	163	16	154	3.5	18	32	3031	7.83	76	5	ND	1	73	1	2	2	110	6.85	.135	8	15	2.61	27	.01	9	2.33	.01	.14	2	139
A 50028	2	136	11	159	.4	17	27	3094	7.41	32	5	ND	2	73	1	2	2	131	6.17	.143	8	21	2.97	21	.01	7	2.89	.01	.14	4	9
A 50029	1	348	12	165	.1	18	26	2937	7.96	31	5	ND	1	74	1	2	14	137	5.93	.146	8	14	3.09	38	.01	4	3.08	.01	.14	2	14
A 50030	1	186	3	174	.1	12	22	3155	8.21	22	5	ND	1	75	1	2	2	140	6.74	.144	9	15	3.36	35	.01	15	3.17	.01	.13	2	13
A 50031	2	157	6	149	.2	18	34	2721	8.36	34	5	ND	1	73	1	3	2	128	6.07	.136	8	18	2.75	16	.01	8	2.63	.01	.13	2	19
RE A 50027	15	158	14	150	3.4	19	31	2925	7.65	75	5	ND	1	70	1	3	2	108	6.81	.130	7	16	2.59	30	.01	12	2.24	.01	.14	2	135
A 50032	1	291	10	149	.2	16	29	2829	7.64	30	5	ND	1	82	1	3	3	127	6.45	.141	9	23	2.66	20	.02	15	2.54	.01	.14	2	36
A 50033	1	364	6	204	.2	11	19	2892	8.09	27	5	ND	1	71	1	2	2	129	5.65	.141	9	10	2.95	12	.01	10	2.79	.01	.16	2	26
A 50034	1	57	2	123	.6	10	19	2093	9.35	54	5	ND	1	42	1	3	2	136	3.45	.130	6	10	2.64	16	.01	5	2.52	.01	.11	4	79
A 50035	2	59	2	116	1.2	15	28	1804	11.74	44	5	ND	1	32	1	3	2	154	2.29	.131	6	10	2.65	21	.01	4	2.44	.01	.10	2	172
A 50036	1	259	2	130	.5	10	16	1956	9.19	50	5	ND	1	47	1	3	2	139	3.70	.135	7	12	2.49	17	.01	4	2.49	.01	.12	3	156
STD C/AU-R	19	63	37	132	6.5	67	28	963	4.16	40	17	7	36	48	18	18	22	58	.51	.089	38	56	.91	179	.07	34	2.01	.06	.14	12	520

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50037	1	114	2	123	.3	7	19	1767	3.27	50	5	ND	1	49	2	2	2	111	2.95	.105	6	6	1.90	39	.01	8	2.45	.01	.14	2	73
A 50038	1	47	2	129	.5	10	22	1939	8.44	59	5	ND	1	53	1	2	3	119	3.21	.105	5	7	2.05	39	.01	8	2.59	.01	.12	2	101
A 50039	1	115	2	147	.6	6	20	2037	9.10	86	5	ND	1	53	1	2	2	128	3.30	.101	7	11	2.25	33	.01	4	2.84	.01	.12	1	116
A 50040	1	217	2	123	.2	8	11	1939	7.43	48	5	ND	1	61	1	2	3	116	3.55	.108	6	7	1.99	45	.01	2	2.50	.01	.15	1	78
A 50041	1	23	7	121	.6	8	22	1949	6.52	85	5	ND	1	45	2	2	2	118	2.67	.106	5	11	2.20	27	.01	4	2.58	.01	.13	1	90
A 50042	1	114	2	144	.5	8	19	2201	7.93	75	5	ND	1	47	1	2	2	131	3.02	.110	6	6	2.42	48	.01	2	2.88	.01	.15	1	135
A 50043	1	40	2	120	.4	7	14	1991	8.04	52	5	ND	1	44	1	2	2	126	2.64	.106	5	7	2.32	33	.01	7	2.54	.01	.11	2	106
STD C	18	61	37	132	6.7	69	29	993	4.01	37	18	7	38	50	17	15	23	57	.46	.094	38	56	.87	172	.07	41	2.00	.06	.13	12	-
A 50044	1	413	6	154	.4	9	23	2112	8.26	46	5	ND	1	61	1	2	5	116	3.70	.113	7	7	2.33	39	.01	11	2.79	.01	.15	2	147
A 50045	1	637	2	157	.4	8	14	2319	5.30	29	5	ND	1	76	1	2	5	115	4.52	.112	8	9	2.17	31	.01	8	2.56	.01	.15	2	103
A 50046	1	192	5	154	5.0	11	22	2243	10.57	81	6	ND	1	47	2	2	4	134	2.74	.105	5	9	2.38	26	.01	5	2.85	.01	.11	2	640
A 50047	1	1773	2	103	10.8	3	21	2184	10.30	68	5	ND	1	66	1	2	5	127	3.46	.125	7	8	1.51	26	.01	4	1.91	.01	.10	1	1110
A 50048	1	273	3	101	3.9	9	13	2333	9.90	110	5	ND	1	58	1	2	2	113	3.33	.140	7	7	1.19	17	.01	2	1.78	.01	.12	1	540
A 50049	1	471	4	129	2.0	10	17	2097	10.66	57	5	ND	2	64	1	2	2	170	3.55	.158	9	12	1.80	33	.01	6	2.21	.01	.10	2	480
A 50050	6	291	7	118	2.2	10	24	1848	12.37	81	5	ND	1	58	1	2	4	146	3.53	.149	9	8	1.77	23	.01	4	1.99	.01	.10	1	240
A 50051	6	37	6	126	2.1	8	22	1813	10.45	98	5	ND	1	51	1	2	4	124	3.44	.139	8	9	1.93	25	.01	2	2.03	.01	.13	1	196
A 50052	1	178	7	146	.3	14	19	2128	7.38	60	5	ND	1	66	1	2	2	113	4.58	.136	8	21	2.48	28	.01	6	2.28	.01	.13	2	23
A 50053	1	134	4	162	.2	16	22	2108	6.77	56	5	ND	1	55	1	2	2	102	4.31	.103	6	39	2.84	30	.01	9	2.34	.01	.11	1	36
A 50054	2	154	6	173	.4	16	22	2507	6.90	40	5	ND	1	58	1	2	2	111	4.41	.112	7	40	3.05	19	.01	7	2.61	.01	.13	2	23
A 50055	2	222	10	143	1.3	17	24	1876	7.38	51	5	ND	1	35	1	2	2	133	2.54	.100	4	37	2.98	25	.01	3	2.36	.01	.07	2	78
A 50056	2	35	12	90	3.1	19	23	1247	7.41	28	5	ND	1	31	1	2	2	127	1.96	.102	4	32	2.17	16	.01	9	1.51	.02	.07	1	147
A 50057	2	82	6	143	2.8	13	25	1899	9.66	44	5	ND	1	27	1	4	4	130	2.39	.108	4	45	3.02	8	.01	5	2.48	.01	.09	1	93
A 50058	2	28	10	87	1.7	23	25	944	8.86	27	5	ND	1	19	1	2	3	120	1.02	.103	3	39	1.89	10	.01	2	1.37	.02	.08	1	63
A 50059	3	49	12	98	4.8	22	26	950	10.69	55	5	ND	1	17	1	3	5	124	.98	.113	2	38	1.94	9	.01	11	1.44	.01	.07	1	165
A 50060	2	67	12	82	3.7	17	24	1201	9.22	45	5	ND	1	30	1	4	2	111	1.78	.100	3	32	1.70	20	.01	2	1.22	.01	.07	1	140
A 50061	3	30	14	107	2.4	18	23	1349	10.05	56	9	ND	1	25	1	4	15	133	1.67	.107	4	37	2.35	22	.01	6	1.73	.01	.08	2	136
A 50062	3	42	13	113	2.9	17	26	1465	9.83	67	5	ND	1	32	1	3	2	128	2.01	.108	4	31	2.33	23	.01	10	1.77	.01	.08	1	97
A 50063	8	96	9	148	3.4	20	26	1881	8.92	44	5	ND	1	40	1	2	2	155	2.86	.121	5	32	3.07	27	.01	6	2.42	.01	.08	1	177
A 50064	1	91	9	171	.8	18	24	2308	8.62	48	5	ND	1	57	1	2	4	144	3.97	.130	6	29	3.50	15	.01	6	2.78	.01	.13	3	86
A 50065	1	181	11	187	.7	16	23	3006	8.51	73	5	ND	1	79	1	2	2	157	5.40	.135	7	28	3.69	20	.01	10	3.00	.01	.11	2	107
A 50066	2	62	14	178	.4	15	23	1950	8.50	52	5	ND	1	60	1	3	2	151	3.30	.137	5	25	3.41	17	.01	2	2.39	.01	.10	2	33
RE A 50062	3	41	12	116	2.7	19	27	1527	10.06	70	5	ND	1	33	1	4	4	132	2.04	.111	4	32	2.36	25	.01	8	1.82	.01	.08	1	100
A 50067	3	108	30	189	1.8	17	29	1762	9.12	118	5	ND	1	65	1	2	2	97	3.69	.127	4	17	2.02	19	.01	5	1.46	.01	.13	2	78
A 50068	3	58	22	110	1.5	19	33	1209	11.67	103	5	ND	2	29	1	2	18	125	1.46	.120	3	27	2.17	12	.01	3	1.53	.01	.08	3	101
A 50069	1	82	8	140	.6	16	25	1997	8.55	51	5	ND	1	61	1	2	2	150	3.01	.117	4	33	3.07	16	.01	2	2.30	.02	.07	1	60
A 50070	4	103	15	130	.7	17	30	1549	9.02	76	5	ND	1	42	1	2	2	135	2.08	.126	4	27	2.92	14	.01	5	2.18	.01	.09	1	44
A 50071	1	434	16	105	1.1	15	30	1350	11.66	99	5	ND	1	48	1	2	13	110	1.59	.126	3	10	2.42	12	.01	2	1.78	.02	.13	1	63
A 50072	2	79	9	120	.8	16	34	1515	10.43	38	5	ND	1	50	1	3	2	121	1.64	.131	3	11	2.93	9	.01	7	2.12	.01	.11	1	38
STD C/AU-R	18	61	38	133	6.6	69	31	1050	4.25	37	18	7	38	48	19	15	17	58	.50	.088	38	55	.95	172	.07	33	1.96	.06	.14	13	480

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50073	2	167	6	112	.4	15	23	1438	7.74	64	5	ND	1	57	1	2	2	119	1.95	.143	5	12	2.53	30	.01	6	2.11	.01	.10	2	11
A 50074	2	234	11	160	.5	15	24	2012	8.13	91	5	ND	1	65	2	2	2	137	2.12	.144	4	17	3.34	21	.01	14	3.05	.02	.10	3	11
A 50075	2	103	16	129	.4	16	27	1700	8.10	34	5	ND	1	62	1	2	2	122	1.94	.142	4	14	2.86	16	.01	6	2.44	.02	.13	2	7
A 50076	2	201	8	123	1.5	14	21	1586	6.96	75	32	ND	5	62	1	2	2	118	1.99	.138	6	14	2.67	28	.01	2	2.13	.03	.22	2	18
A 50077	2	183	9	134	.6	15	26	1633	8.49	71	5	ND	1	73	2	2	2	129	1.42	.146	3	16	2.87	20	.01	2	2.31	.02	.08	2	10
A 50078	1	150	11	160	.5	15	21	2252	6.72	87	5	ND	1	37	2	2	2	132	3.47	.154	5	13	2.69	19	.01	4	2.32	.02	.09	2	10
A 50079	1	155	16	130	.3	10	24	1630	7.48	105	5	ND	1	80	1	2	2	143	2.27	.146	3	11	2.51	21	.01	2	2.02	.01	.08	2	9
STD C	19	63	36	132	7.3	70	29	992	4.13	43	17	7	37	47	19	16	22	59	.51	.093	37	52	.98	171	.07	34	2.00	.06	.14	13	-
A 50080	1	272	14	171	1.9	10	26	2095	7.84	140	5	ND	2	83	1	2	2	170	2.52	.144	3	9	3.02	36	.01	12	2.50	.02	.07	3	27
A 50081	2	170	15	127	1.1	10	20	1671	7.02	224	5	ND	2	32	2	2	2	105	2.29	.147	5	8	2.26	28	.01	10	2.10	.01	.13	2	290
A 50082	2	134	8	95	.2	13	18	1231	5.16	1604	5	ND	2	105	1	2	2	120	3.77	.164	9	19	1.84	156	.05	4	2.07	.02	.14	1	170
A 50083	3	146	2	76	.2	14	19	1242	5.66	88	5	ND	2	178	2	2	2	170	4.64	.154	8	25	2.29	386	.11	9	2.54	.04	.19	2	11
A 50084	3	91	14	81	.6	11	15	3365	5.17	180	5	ND	2	224	2	2	2	57	9.49	.116	5	10	1.23	30	.01	8	1.37	.01	.16	1	160
RE A 50080	1	267	13	167	1.6	10	26	2030	7.57	137	5	ND	1	82	2	2	2	165	2.50	.140	3	9	2.99	34	.01	10	2.43	.02	.06	3	30
A 50085	4	138	15	125	.7	16	16	1424	6.15	57	5	ND	1	91	1	2	2	91	2.11	.133	5	10	1.76	28	.01	8	1.72	.01	.16	1	16
A 50086	3	151	12	143	.9	19	18	1202	6.61	100	5	ND	1	67	1	2	2	100	1.74	.128	5	20	1.90	29	.01	4	1.80	.01	.18	2	21
A 50087	2	233	8	145	.3	14	11	2100	6.43	27	5	ND	1	77	1	2	2	202	2.01	.127	6	21	2.58	25	.01	4	2.56	.02	.09	1	8
A 50088	2	111	12	120	.7	15	16	1731	6.43	55	5	ND	1	70	1	2	2	185	1.95	.128	5	26	2.27	20	.01	4	2.04	.02	.08	2	15
A 50089	1	101	8	186	.5	17	19	2659	6.50	34	5	ND	3	90	1	2	2	124	5.53	.138	9	13	3.13	14	.01	4	3.18	.01	.11	3	7
A 50090	1	145	4	155	.6	15	21	2296	6.19	42	5	ND	2	87	1	2	2	118	5.43	.130	9	10	2.70	14	.01	2	2.77	.01	.11	3	5
A 50091	1	116	4	148	.6	12	18	2496	5.76	39	5	ND	2	101	1	2	2	95	6.46	.128	9	10	2.62	22	.01	3	2.72	.01	.14	2	10
STD C/AU-R	19	62	38	132	6.8	70	31	1017	4.15	43	17	7	33	48	19	15	20	60	.51	.091	38	55	.98	175	.07	34	2.03	.06	.14	13	485

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

CH&HL

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: SEP 14 1989 DATE REPORT MAILED: Sept 18/89 SIGNED BY. C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 540 LOC#10144 File # 89-3670 Page 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50092	1	96	19	164	.6	13	24	2701	7.19	127	5	ND	1	92	1	7	2	102	4.34	.128	6	18	2.36	32	.02	5	2.77	.01	.19	1	54
A 50093	1	196	16	132	.6	13	17	2162	7.07	157	5	ND	1	74	1	7	2	115	3.89	.140	7	22	2.27	37	.04	6	2.59	.02	.15	1	11
A 50096	1	194	16	149	.9	11	10	3223	7.03	153	5	ND	1	91	1	8	2	96	4.67	.129	5	15	2.43	32	.01	4	3.02	.01	.21	1	22
A 50095	1	239	9	69	.5	12	20	2345	5.10	9466	6	ND	1	146	1	8	2	49	5.80	.156	7	22	1.33	39	.01	8	2.02	.01	.32	1	200
A 50096	4	62	18	9	.4	16	32	37	7.28	39	5	ND	1	29	1	2	2	15	.05	.006	2	3	.03	13	.01	4	.40	.01	.18	1	5
A 50097	4	25	10	4	.1	9	13	25	3.39	43	5	ND	1	99	1	2	3	7	.06	.015	2	1	.01	23	.01	3	.24	.01	.09	3	2
A 50098	5	32	4	7	.2	13	18	13	5.78	23	5	ND	1	56	1	2	2	5	.03	.009	2	1	.01	15	.01	2	.12	.01	.04	1	5
A 50099	3	39	3	6	.2	12	17	9	5.52	32	5	ND	1	77	1	2	2	5	.03	.035	2	1	.01	13	.01	6	.13	.01	.04	2	8
A 50100	5	72	8	9	.2	14	22	11	5.96	40	5	ND	1	66	1	2	2	7	.04	.012	2	1	.01	14	.01	3	.28	.01	.12	1	7
A 50101	2	249	16	71	.6	9	19	364	6.15	89	5	ND	1	49	1	2	2	43	.36	.151	4	11	1.11	25	.01	7	1.60	.01	.24	1	7
A 50102	1	121	20	38	.6	10	19	124	7.12	39	5	ND	1	21	1	2	2	34	.44	.175	3	9	.38	22	.01	7	1.05	.01	.34	1	7
A 50103	3	138	17	46	.9	11	23	152	7.69	46	5	ND	1	23	1	2	2	41	.38	.169	2	12	.63	23	.01	9	1.41	.01	.32	1	11
A 50104	1	175	23	53	.7	13	27	202	7.45	59	5	ND	1	26	1	2	2	35	.44	.155	2	8	.39	24	.01	7	1.11	.01	.23	1	19
A 50105	1	103	33	29	1.2	13	22	44	9.52	55	5	ND	1	20	1	2	2	21	.37	.144	2	4	.04	16	.01	19	.72	.01	.30	1	12
A 50106	1	37	18	15	.6	12	23	30	7.03	46	5	ND	1	23	1	2	2	25	.38	.144	4	4	.05	18	.01	11	.72	.01	.32	1	1
A 50107	1	57	41	22	.9	18	43	23	11.32	37	5	ND	1	21	1	2	3	31	.32	.131	3	8	.04	15	.01	5	.66	.01	.29	1	13
A 50108	6	75	37	14	.6	14	31	30	7.82	32	5	ND	1	26	1	2	2	24	.20	.131	4	3	.04	17	.01	6	.58	.01	.26	1	1
A 50109	4	121	15	21	.5	16	41	18	9.39	58	5	ND	1	35	1	11	2	19	.18	.116	2	3	.02	15	.01	8	.56	.01	.22	2	1
A 50110	1	241	9	21	.4	9	20	55	5.39	110	5	ND	1	30	1	11	3	20	.43	.191	2	3	.03	23	.01	3	.73	.01	.33	1	5
A 50111	3	327	11	25	.5	13	27	49	9.35	139	5	ND	1	30	1	10	2	21	.40	.165	2	4	.04	20	.01	8	.71	.01	.31	1	10
A 50112	4	39	12	9	.2	12	18	16	5.72	27	5	ND	1	74	1	2	2	9	.16	.057	2	1	.01	19	.01	6	.43	.01	.20	1	4
STD C	18	57	42	132	6.8	68	30	1022	4.10	39	22	7	37	47	19	16	20	58	.48	.094	37	55	.90	169	.07	34	1.95	.06	.13	13	-
A 50113	4	55	13	12	.3	12	25	21	7.86	32	6	ND	1	43	1	2	2	17	.23	.110	2	1	.02	18	.01	10	.55	.01	.24	1	1
A 50114	4	53	17	12	.2	14	36	12	8.20	40	5	ND	1	31	1	2	2	20	.30	.130	2	4	.02	17	.01	6	.65	.01	.29	1	1
RE A 50111	3	326	8	28	.5	13	27	53	8.59	139	5	ND	1	31	1	12	2	21	.41	.169	2	3	.04	21	.01	7	.71	.01	.32	1	8
A 50115	8	53	12	12	.3	11	22	11	7.06	53	5	ND	1	74	1	2	2	13	.20	.107	2	1	.01	20	.01	5	.53	.01	.21	1	3
A 50116	14	54	14	11	.2	11	22	12	6.21	41	5	ND	1	73	1	2	2	12	.20	.084	2	1	.01	19	.01	5	.48	.01	.20	1	8
A 50117	4	40	4	10	.2	11	19	10	5.60	33	5	ND	1	62	1	2	3	9	.05	.023	2	1	.01	18	.01	3	.32	.01	.12	1	3
A 50118	3	40	2	11	.1	11	21	10	5.51	30	5	ND	1	55	1	2	2	7	.04	.016	2	1	.01	18	.01	2	.25	.01	.10	1	4
A 50119	5	18	4	7	.1	8	14	10	4.09	34	5	ND	1	54	1	2	2	5	.04	.004	2	1	.01	13	.01	7	.28	.01	.14	1	5
A 50120	5	23	2	7	.1	8	13	7	3.68	29	5	ND	1	72	1	2	2	5	.07	.029	2	1	.01	22	.01	3	.37	.01	.16	1	4
A 50121	6	62	15	13	.2	14	24	14	8.00	23	5	ND	1	37	1	2	2	12	.05	.058	2	1	.01	15	.01	3	.59	.01	.20	1	1
A 50122	6	31	9	9	.1	10	16	12	5.36	33	5	ND	1	71	1	2	2	6	.21	.095	2	1	.01	15	.01	6	.47	.01	.19	1	3
A 50123	11	50	10	11	.2	13	23	10	6.39	25	5	ND	1	44	1	2	2	9	.24	.146	2	1	.01	13	.01	16	.59	.01	.25	1	3
A 50124	6	51	21	13	.3	12	21	13	6.68	24	5	ND	1	55	1	2	2	14	.22	.156	2	1	.02	18	.01	7	.65	.01	.27	1	10
A 50125	21	54	27	15	.4	10	24	15	6.79	26	5	ND	1	53	1	2	2	19	.35	.153	6	3	.24	23	.01	5	.66	.01	.31	1	7
A 50126	7	34	15	22	.5	12	21	17	7.09	29	5	ND	1	50	1	7	2	21	.41	.155	4	5	.06	24	.01	9	.75	.01	.37	1	1
STD C/AU-R	17	59	38	132	6.7	68	30	1036	4.15	43	21	7	37	47	18	15	20	57	.48	.094	37	55	.90	174	.07	36	1.94	.06	.14	12	490

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50127	22	67	27	22	.7	11	26	46	7.74	21	6	ND	1	30	1	2	3	16	.33	.112	3	9	.05	72	.01	14	.53	.01	.30	2	19
A 50128	23	51	13	46	.6	42	25	22	6.32	22	5	ND	1	47	1	2	2	18	.34	.113	4	3	.05	37	.01	15	.71	.01	.32	2	4
A 50129	23	564	29	41	1.1	12	25	67	7.60	31	7	ND	1	52	1	2	3	22	.35	.117	4	14	.31	36	.01	17	.83	.01	.29	2	20
A 50130	1	174	15	209	1.8	11	16	1520	6.35	35	5	ND	1	124	1	2	2	69	2.32	.138	6	15	2.23	24	.01	17	1.74	.02	.22	1	22
A 50131	1	124	17	243	1.4	10	14	1821	5.54	26	5	ND	1	155	2	4	2	56	3.31	.133	7	15	2.25	27	.01	15	1.36	.02	.22	1	10
A 50132	2	93	13	146	.8	9	14	1323	5.03	22	5	ND	1	237	1	4	2	66	4.05	.130	3	14	1.66	43	.01	5	1.76	.02	.19	1	9
A 50133	1	70	22	132	1.1	9	16	2066	5.36	36	5	ND	1	294	1	4	2	52	5.16	.126	3	17	1.47	30	.01	7	1.57	.01	.21	1	22
A 50134	1	56	22	128	1.1	11	15	1774	5.19	108	5	ND	1	198	1	4	2	57	4.09	.129	8	15	1.53	35	.01	10	1.61	.02	.20	1	171
A 50135	1	126	16	173	1.2	10	17	1564	5.47	37	5	ND	1	180	1	5	2	61	3.42	.133	8	17	1.69	36	.01	7	1.80	.01	.22	1	44
A 50136	1	89	14	141	.3	9	15	1572	5.69	25	5	ND	1	152	1	2	2	71	3.03	.133	7	16	1.73	34	.01	5	1.75	.01	.20	1	55
A 50137	1	139	30	292	1.3	11	17	1812	5.85	67	5	ND	1	156	1	3	2	66	3.21	.129	8	18	1.62	30	.01	12	1.62	.02	.20	1	87
A 50138	1	35	15	139	.6	9	15	1865	5.51	51	5	ND	1	225	1	4	2	100	4.35	.131	9	16	1.52	89	.01	5	1.30	.02	.16	1	21
A 50139	1	39	18	145	.5	10	16	1750	4.99	31	5	ND	1	215	1	2	2	95	4.88	.128	9	18	1.44	115	.01	8	1.78	.02	.17	1	17
A 50140	2	130	38	105	3.6	9	17	1925	5.23	93	5	ND	1	256	1	2	2	49	4.46	.147	7	12	.78	28	.01	3	1.25	.01	.25	1	31
A 50141	5	252	25	217	1.5	12	16	1981	7.60	37	5	ND	1	182	1	3	2	83	3.18	.161	11	28	1.75	33	.01	8	2.28	.02	.23	1	47
A 50142	3	54	11	192	.8	9	18	1345	7.60	17	5	ND	1	267	1	5	2	101	3.86	.157	10	19	2.23	38	.01	11	2.72	.03	.22	1	28
A 50143	7	149	16	136	.7	8	15	1724	7.97	19	5	ND	1	165	1	4	2	102	2.68	.155	9	16	1.88	30	.01	8	2.08	.02	.20	1	23
A 50144	3	163	19	187	.5	3	13	1513	5.07	18	5	ND	1	156	1	2	2	90	2.49	.154	9	10	1.64	37	.01	7	1.83	.02	.21	1	10
A 50145	5	112	15	133	.4	3	15	1630	6.09	25	5	ND	1	124	1	2	2	84	3.35	.159	9	11	1.71	36	.01	5	1.78	.02	.20	1	15
A 50146	5	136	33	211	.3	3	13	1753	5.70	164	7	ND	1	156	1	5	2	69	3.33	.151	10	9	1.35	39	.01	13	1.65	.01	.21	1	13
A 50147	1	50	92	242	.6	8	15	2041	4.97	37	5	ND	1	186	1	5	2	95	5.10	.131	9	15	1.30	70	.01	13	2.04	.02	.18	1	20
A 50148	1	64	398	795	1.9	9	15	1963	5.35	56	5	ND	1	185	6	9	2	100	4.56	.130	9	15	1.50	73	.01	5	1.83	.03	.20	1	33
STD C/AU-R	18	59	44	122	6.7	59	31	962	4.17	42	21	8	37	47	19	15	20	58	.48	.096	37	55	.92	174	.07	34	2.04	.06	.14	12	470

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

CHUCHI.

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: SEP 20 1989 DATE REPORT MAILED: Sept 25/89 SIGNED BY. C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 540 LOC-10144 File # 89-3776 Page 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50149	1	49	34	229	.3	6	15	3870	4.38	97	5	ND	3	190	1	3	2	69	5.25	.116	10	7	1.58	42	.01	3	1.78	.01	.16	1	43
A 50150	1	69	97	392	1.1	9	15	3756	4.46	232	5	ND	3	160	2	6	2	24	5.77	.109	8	9	.57	24	.01	4	.79	.01	.18	1	163
A 50151	1	37	71	626	.5	10	17	3674	4.77	144	5	ND	3	200	3	3	2	89	5.13	.126	12	10	1.23	59	.01	4	1.72	.02	.18	2	84
A 50152	1	59	12	127	.2	11	16	1607	4.83	57	5	ND	2	168	1	2	2	144	4.89	.124	9	16	1.42	181	.09	2	1.73	.03	.12	1	54
A 50153	2	31	4	63	.1	12	16	896	4.60	17	5	ND	2	172	1	2	2	152	2.89	.136	8	13	1.19	157	.14	5	1.60	.04	.09	2	6
A 50154	2	48	8	71	.1	9	16	956	4.58	22	5	ND	1	124	1	2	2	157	3.11	.135	9	13	1.05	303	.15	3	1.58	.04	.11	1	10
RE A 50159	1	75	6	75	.1	11	15	1083	4.74	11	5	ND	1	154	1	2	2	158	2.92	.136	9	13	1.08	69	.14	11	1.89	.03	.08	2	3
A 50155	2	67	7	49	.2	14	14	809	4.31	20	5	ND	2	164	1	2	2	149	2.99	.130	8	17	.94	148	.17	7	1.61	.04	.11	3	6
A 50156	2	80	13	56	.1	11	14	784	4.16	15	5	ND	2	172	1	2	2	148	2.78	.130	8	14	.89	214	.17	7	1.57	.04	.11	1	7
A 50157	2	77	7	64	.1	12	14	823	4.34	15	5	ND	2	185	1	2	2	155	2.84	.131	8	14	.96	119	.15	4	1.63	.04	.13	2	1
A 50158	2	72	9	73	.1	11	15	968	4.54	14	5	ND	2	163	1	3	2	158	3.03	.135	8	14	1.16	87	.15	2	1.87	.04	.10	1	2
A 50159	1	75	7	75	.1	11	15	1079	4.74	10	5	ND	2	152	1	2	2	158	2.89	.133	9	13	1.07	73	.14	8	1.89	.03	.08	2	3
A 50160	2	75	7	98	.2	13	16	1331	5.01	15	5	ND	2	177	1	2	2	161	2.84	.139	10	16	1.15	117	.14	19	1.76	.04	.07	2	2
A 50161	1	106	10	129	.2	9	16	1909	4.55	28	5	ND	4	252	1	2	2	77	6.01	.123	10	9	1.21	56	.06	4	1.91	.01	.20	1	7
A 50162	1	76	14	172	.2	10	17	2381	4.96	109	5	ND	2	222	1	2	2	91	5.27	.126	12	11	1.12	111	.04	7	1.73	.02	.18	1	20
A 50163	7	36	9	23	.2	16	24	6	5.82	33	5	ND	2	40	1	2	4	5	.02	.024	2	7	.01	18	.01	3	.13	.01	.12	1	6
A 50164	5	33	4	7	.1	11	13	75	3.69	12	5	ND	1	55	1	2	2	6	.13	.008	2	5	.03	24	.01	2	.16	.01	.07	1	2
A 50165	4	63	11	7	.3	15	25	6	7.06	36	5	ND	1	33	1	3	2	6	.04	.005	2	5	.01	14	.01	2	.19	.01	.10	1	7
A 50166	3	100	12	12	.3	14	33	12	9.03	45	5	ND	1	26	1	3	2	13	.15	.055	2	1	.01	14	.01	6	.40	.01	.19	1	9
A 50167	2	95	19	13	.4	16	33	11	9.19	49	5	ND	1	28	1	3	2	14	.21	.075	2	1	.01	16	.01	5	.44	.01	.19	1	11
A 50168	3	104	26	15	.3	13	24	14	6.97	43	5	ND	1	43	1	2	2	13	.31	.118	2	1	.02	20	.01	4	.48	.01	.22	1	6
A 50169	2	111	26	20	.5	10	25	16	7.34	68	5	ND	1	52	1	2	2	15	.14	.055	2	1	.02	22	.01	2	.50	.01	.22	1	8
A 50170	1	84	16	186	.5	10	27	2135	7.06	40	5	ND	2	60	1	2	2	72	1.39	.177	10	6	1.24	25	.01	5	1.34	.01	.23	1	5
A 50171	1	132	16	107	1.7	9	23	983	6.72	37	5	ND	2	47	1	2	2	67	1.09	.194	7	7	1.50	22	.01	9	1.54	.01	.24	1	7
A 50172	1	90	16	98	.4	10	21	919	6.81	29	5	ND	1	45	1	2	3	81	1.08	.196	6	7	1.86	23	.01	2	1.69	.01	.23	1	3
A 50173	1	142	13	112	.2	9	25	1200	6.98	19	5	ND	1	72	1	2	4	59	1.48	.172	6	5	1.59	14	.01	5	1.38	.01	.22	1	5
A 50174	1	137	25	115	.7	8	24	976	6.60	47	5	ND	2	91	1	2	3	33	1.87	.193	7	3	.59	11	.01	5	.80	.01	.29	1	11
A 50175	1	147	21	122	.7	10	25	1334	6.83	45	5	ND	1	83	1	2	4	79	1.67	.182	9	6	1.77	21	.01	13	1.68	.01	.24	1	7
A 50176	1	154	16	145	.6	8	19	1724	5.96	33	5	ND	2	128	1	2	4	97	2.28	.191	10	6	1.93	29	.01	7	2.00	.01	.23	1	6
A 50177	1	126	11	115	.4	9	18	1558	6.20	29	5	ND	1	113	1	2	2	86	2.10	.182	9	7	1.86	14	.01	3	1.84	.01	.22	1	2
A 50178	1	60	30	96	1.0	7	20	892	6.68	45	5	ND	1	52	1	3	2	63	.88	.184	6	6	1.48	7	.01	2	1.49	.01	.24	1	13
A 50179	1	66	11	97	.7	6	24	1270	6.46	33	5	ND	2	35	1	2	2	67	.72	.169	7	5	1.33	25	.01	2	1.39	.01	.22	1	7
A 50180	1	76	17	120	.4	10	22	1297	6.06	27	5	ND	1	55	1	2	2	80	1.19	.160	7	7	1.86	22	.01	2	1.68	.01	.20	1	3
A 50181	1	57	16	88	.4	7	19	1146	5.56	35	5	ND	1	91	1	2	2	81	1.81	.158	6	5	1.71	25	.01	2	1.49	.01	.21	1	6
A 50182	1	132	18	109	.5	7	18	1131	5.67	32	5	ND	1	74	1	2	3	83	1.39	.164	7	6	1.87	22	.01	4	1.76	.01	.23	1	3
A 50183	1	96	25	107	.9	9	21	1189	6.46	34	5	ND	1	56	1	3	2	58	1.29	.177	7	5	1.69	17	.01	5	1.60	.01	.25	1	2
A 50184	1	239	16	158	.5	7	17	1476	5.52	27	5	ND	1	97	1	2	3	103	2.18	.162	8	8	2.10	34	.01	7	2.32	.01	.18	1	2
STD C	17	59	36	125	6.8	69	29	977	3.76	40	17	7	35	46	17	15	21	54	.45	.082	35	55	.82	163	.06	33	1.79	.06	.14	13	-
[illegible]	1	69	137	275	1.0	8	15	1149	5.33	38	5	ND	1	70	1	2	4	75	1.44	.176	7	6	1.60	27	.01	9	1.57	.01	.22	1	9

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50186	1	133	21	158	.6	7	16	1370	6.71	26	5	ND	1	116	1	3	2	116	2.26	.170	7	16	2.35	27	.01	5	2.26	.02	.13	2	5
A 50187	1	119	15	145	.5	8	17	1346	6.71	23	5	ND	1	87	1	2	2	131	1.96	.184	8	15	2.32	28	.01	5	2.45	.02	.16	1	7
A 50188	1	137	11	155	.3	7	13	1595	6.37	9	5	ND	1	121	1	2	2	117	2.49	.167	9	15	2.39	51	.01	8	2.65	.02	.15	2	1
A 50189	1	263	10	124	.4	7	16	1143	6.50	13	5	ND	1	96	1	2	2	129	2.03	.191	7	16	2.47	39	.01	5	2.70	.02	.19	1	2
A 50190	10	541	25	163	.9	8	23	644	6.21	17	5	ND	1	141	1	2	2	56	1.70	.192	6	13	1.60	21	.01	9	1.48	.02	.26	1	1
A 50191	3	213	13	67	1.3	10	19	801	7.40	5	5	ND	1	110	1	2	2	47	2.04	.161	5	14	1.14	19	.01	6	1.26	.03	.29	1	5
A 50192	1	256	151	322	1.3	9	14	1386	6.36	41	5	ND	1	115	1	2	2	87	2.65	.174	6	17	1.64	28	.01	4	1.86	.02	.22	1	3
A 50193	1	216	20	79	.8	7	17	852	6.51	8	5	ND	1	93	1	2	2	79	1.80	.195	5	18	1.93	23	.01	5	1.70	.02	.26	1	6
A 50194	2	250	13	109	1.5	9	20	938	6.54	17	5	ND	1	57	1	2	2	72	1.01	.193	6	14	1.48	30	.01	6	1.54	.01	.25	1	2
A 50195	1	192	16	254	.5	7	15	1857	7.82	19	5	ND	1	35	1	2	2	121	.69	.173	8	15	2.58	64	.01	4	2.93	.02	.14	1	1
A 50196	1	252	17	244	.5	8	15	1838	7.57	19	5	ND	1	76	1	2	2	122	1.59	.166	9	19	2.40	76	.01	10	3.05	.03	.22	1	1
A 50197	1	71	23	72	1.1	7	18	1338	4.73	21	5	ND	1	214	1	2	2	61	3.57	.179	6	11	1.16	36	.01	8	1.39	.02	.23	1	1
A 50198	1	171	5	160	.4	8	11	1503	7.15	3	5	ND	1	106	1	3	2	128	2.16	.162	9	22	2.49	121	.01	2	2.87	.02	.15	1	1
A 50199	1	243	20	189	1.4	13	21	1378	7.39	15	5	ND	1	67	1	2	2	158	1.24	.154	4	24	2.89	29	.01	4	2.81	.04	.09	1	9
A 50200	1	427	12	212	1.2	15	25	1563	8.52	9	5	ND	1	32	1	2	2	162	.80	.150	4	32	2.87	31	.01	2	3.00	.03	.09	1	1
A 50201	2	536	18	117	1.6	15	23	882	6.13	13	5	ND	1	68	1	2	3	109	1.25	.148	3	23	2.24	20	.01	5	2.01	.03	.17	1	13
A 50202	2	168	14	155	1.5	15	31	1208	7.24	59	5	ND	1	58	1	3	2	107	1.28	.158	3	23	2.26	20	.01	5	2.03	.03	.18	1	19
A 50203	1	94	6	97	.4	8	18	888	5.79	58	5	ND	1	75	1	2	2	68	2.15	.148	5	15	1.73	33	.01	7	1.76	.02	.20	1	5
A 50204	2	180	6	100	.5	6	17	1014	5.65	22	5	ND	1	80	1	2	2	82	2.58	.145	7	14	1.53	28	.01	6	1.75	.02	.16	1	1
A 50205	1	143	15	118	.5	5	14	1393	5.87	25	5	ND	1	91	1	3	2	68	2.96	.159	9	17	1.64	55	.01	2	2.12	.02	.19	1	3
A 50206	1	313	8	115	.6	5	13	1293	5.88	22	5	ND	1	81	1	2	2	74	2.49	.150	8	12	1.65	47	.01	6	2.17	.04	.26	1	3
A 50207	1	150	8	113	.4	4	11	1374	5.41	7	5	ND	1	95	1	2	3	67	3.29	.151	9	15	1.57	80	.01	5	1.93	.02	.14	1	1
A 50208	1	217	13	119	.7	4	11	1541	5.44	18	5	ND	1	122	1	2	2	63	3.85	.149	9	13	1.44	58	.01	2	1.77	.02	.15	1	1
A 50209	1	83	10	106	.5	4	13	1420	4.98	39	5	ND	1	111	1	2	2	63	3.76	.144	11	13	1.42	90	.01	8	1.75	.02	.18	1	13
A 50210	1	81	7	104	.5	4	13	1274	4.99	64	5	ND	1	117	1	2	2	55	3.77	.152	9	11	1.34	65	.01	2	1.70	.02	.18	1	1
A 50211	1	105	5	106	.3	4	9	1242	5.22	10	5	ND	1	176	1	2	2	75	3.56	.135	11	14	1.33	326	.01	7	1.57	.02	.14	1	1
A 50212	1	96	67	115	1.2	5	16	1217	5.11	45	5	ND	1	115	1	2	2	62	2.97	.154	9	10	1.40	30	.01	5	1.58	.02	.19	1	4
A 50213	3	164	149	273	1.3	11	23	916	7.18	65	5	ND	1	97	1	2	2	47	1.96	.167	6	19	.89	15	.01	5	1.26	.01	.23	30	11
RE A 50209	1	83	7	105	.5	4	12	1413	4.97	39	5	ND	1	110	1	2	2	62	3.77	.144	11	14	1.42	86	.01	6	1.76	.02	.17	1	15
A 50214	1	59	9	207	.2	9	12	2573	4.45	32	5	ND	1	109	1	2	2	67	3.20	.112	5	15	1.36	112	.06	3	1.75	.02	.13	1	2
A 50215	1	59	13	147	.7	10	12	2219	4.26	41	5	ND	1	149	1	2	2	74	3.33	.112	5	18	1.47	96	.07	10	1.85	.02	.14	2	6
A 50216	1	67	14	129	1.7	10	15	2287	5.30	102	5	ND	1	153	1	3	2	63	3.11	.112	5	17	1.34	37	.06	3	1.73	.01	.16	1	111
STD C	18	57	37	127	6.7	66	31	1010	4.07	40	21	7	37	46	18	17	20	55	.45	.092	38	54	.86	166	.06	34	1.84	.06	.14	13	-
A 50217	1	216	3	228	.8	9	12	2227	5.04	38	5	ND	1	144	1	2	2	96	2.78	.114	5	19	1.38	82	.08	4	1.75	.02	.12	1	290
A 50218	2	102	35	52	.8	12	19	837	6.30	311	5	ND	1	71	1	2	3	29	1.96	.155	4	9	.33	26	.01	6	.64	.01	.24	1	25
A 50219	3	199	25	58	.8	12	22	1512	7.40	319	5	ND	1	81	1	2	2	18	3.48	.150	4	9	.09	22	.01	8	.41	.01	.23	1	3
A 50220	1	107	31	40	.6	12	21	1014	5.78	251	5	ND	1	85	1	2	2	21	2.13	.124	4	5	.12	29	.01	5	.54	.01	.24	1	13
A 50221	1	48	9	45	.5	12	27	1042	7.81	108	5	ND	1	85	1	2	2	32	2.58	.151	5	13	.24	26	.01	14	.75	.02	.26	1	1
A 50222	4	32	2	22	.5	14	25	1378	8.42	77	5	ND	1	80	1	2	2	22	2.99	.145	4	7	.12	25	.01	2	.49	.01	.24	1	1
STD C/AU-R	17	57	39	132	6.7	67	31	994	4.12	41	22	7	37	47	18	15	19	58	.48	.093	38	55	.88	174	.07	33	1.94	.06	.14	13	530

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: SEP 26 1989 DATE REPORT MAILED: Oct 3/89 SIGNED BY. C. Leong .D.TOYE, C.LIONG, J.WANG; CERTIFIED B.C. ASSAYERS

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CHUCHI.

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50223	5	92	14	29	.2	11	20	1430	7.53	93	5	ND	1	81	1	2	2	26	3.34	.112	4	3	.23	13	.01	9	.48	.01	.20	1	38
A 50224	1	67	7	31	.2	13	21	1303	6.76	17	5	ND	1	82	1	2	4	34	3.15	.127	4	3	.43	12	.01	12	.60	.02	.19	1	17
A 50225	1	56	8	27	.3	10	25	1158	6.86	27	5	ND	1	74	1	2	2	22	3.32	.130	4	2	.16	11	.01	6	.39	.01	.19	1	20
A 50226	1	62	11	27	.1	12	23	914	5.32	21	5	ND	1	59	1	2	2	44	2.09	.122	4	3	.40	13	.01	3	.56	.02	.20	1	11
A 50227	2	137	13	70	.1	10	15	1290	4.52	48	5	ND	1	61	1	2	2	76	2.34	.124	5	6	1.39	16	.01	4	1.19	.01	.19	1	39
A 50228	1	233	11	104	1.2	10	9	1045	5.40	103	5	ND	2	55	1	2	2	104	1.49	.138	5	6	2.29	19	.01	12	1.93	.01	.29	1	49
A 50229	1	214	9	107	.3	10	14	984	5.75	82	5	ND	1	47	1	2	2	108	1.45	.140	5	6	2.37	22	.01	4	2.08	.01	.17	1	22
A 50230	1	359	8	111	.3	11	18	1136	5.29	57	5	ND	1	51	1	2	2	111	1.86	.146	5	6	2.13	24	.01	14	1.95	.01	.16	1	27
A 50231	1	566	6	101	2.3	12	14	1291	4.44	72	5	ND	1	84	1	2	2	94	2.21	.167	5	5	1.94	22	.01	6	1.77	.01	.24	1	51
A 50232	2	54	21	41	2.1	12	20	1185	4.63	29	5	ND	2	60	1	2	2	43	2.20	.160	5	2	.60	18	.01	6	.33	.01	.23	1	26
A 50233	1	26	95	45	1.8	13	24	1177	4.99	32	5	ND	2	55	1	2	2	40	2.15	.143	5	2	.57	21	.01	5	.78	.01	.26	1	45
A 50234	1	17	8	19	1.9	15	25	696	6.41	27	5	ND	2	51	1	2	2	21	1.82	.166	4	2	.20	19	.01	5	.56	.01	.30	1	47
A 50235	1	146	7	60	1.3	14	19	1084	5.47	51	5	ND	1	65	1	2	2	82	2.07	.185	7	8	1.57	22	.01	9	1.48	.01	.27	1	21
RE A 50240	1	62	17	133	.3	15	17	1504	5.59	30	5	ND	2	86	1	2	2	135	2.10	.191	5	14	2.56	23	.01	16	2.33	.01	.19	2	19
A 50236	1	24	10	70	1.0	15	19	925	5.09	18	5	ND	1	66	1	2	2	77	2.00	.184	6	8	1.73	26	.01	10	1.55	.01	.26	1	24
A 50237	3	25	17	63	1.2	14	22	619	7.75	48	5	ND	1	53	1	2	2	72	1.43	.163	4	7	1.66	10	.01	4	1.33	.01	.21	1	42
A 50238	1	171	285	574	2.6	15	19	941	6.48	38	5	ND	1	76	6	6	2	91	1.72	.175	5	9	1.96	8	.01	9	1.58	.01	.23	1	62
A 50239	1	125	27	65	2.3	13	16	1949	5.14	63	7	ND	1	174	1	2	2	94	5.66	.145	8	12	1.64	6	.01	6	1.53	.01	.16	1	49
A 50240	1	62	19	129	.5	14	17	1572	5.32	31	5	ND	2	86	1	2	2	133	2.06	.178	5	14	2.50	23	.01	20	2.28	.02	.18	2	23
A 50241	1	258	9	134	.2	14	20	1239	6.72	28	5	ND	2	77	1	2	2	130	1.92	.175	5	15	2.67	20	.01	4	2.58	.01	.15	1	22
A 50242	1	108	15	114	.2	15	21	911	6.57	33	5	ND	1	81	1	2	2	126	1.89	.171	5	14	2.45	22	.01	9	2.31	.02	.14	1	19
STD C	18	60	37	135	6.7	68	31	1009	3.97	43	22	7	37	47	19	15	20	60	.44	.098	38	57	.90	171	.06	35	1.89	.06	.14	12	-
A 50243	1	82	16	153	.1	14	19	979	5.76	39	5	ND	1	85	1	2	2	142	1.97	.176	5	14	2.67	14	.01	20	2.30	.02	.14	1	19
A 50244	1	170	50	260	3.5	11	15	1308	6.11	181	5	ND	1	73	2	2	2	151	2.12	.163	6	10	2.40	23	.01	11	2.22	.02	.14	1	63
A 50245	1	616	15	161	1.7	11	13	1875	6.61	66	5	ND	1	87	1	2	2	139	3.05	.155	8	8	1.97	28	.01	3	2.11	.01	.16	1	48
A 50246	1	186	5	167	.2	13	16	1792	6.41	19	5	ND	1	102	1	2	2	160	3.62	.164	10	15	2.23	43	.02	12	2.32	.02	.11	1	9
A 50247	1	170	10	124	.1	13	14	1780	5.87	35	5	ND	1	97	1	2	2	164	3.17	.169	9	18	2.22	38	.07	16	2.17	.02	.09	1	7
A 50248	1	359	4	132	.3	15	13	2459	6.60	31	5	ND	1	95	1	2	2	167	3.49	.174	10	22	2.45	63	.06	3	2.53	.02	.11	1	8
A 50249	1	234	12	160	1.1	14	14	2137	7.04	96	5	ND	1	78	1	2	2	171	3.09	.168	11	20	2.60	39	.02	3	2.54	.02	.11	1	33
A 50250	1	268	10	136	.2	14	16	1789	6.37	25	5	ND	1	103	1	2	2	177	3.25	.158	10	24	2.27	54	.10	12	2.09	.02	.08	1	17
A 50251	1	133	28	176	.3	14	22	1622	6.16	52	5	ND	1	96	1	2	2	146	2.31	.171	8	20	2.44	26	.10	6	2.12	.02	.05	1	19
A 50252	1	175	12	136	.3	13	16	1766	6.37	28	5	ND	1	108	1	2	2	173	2.51	.168	10	18	2.47	32	.11	8	2.35	.02	.06	1	15
A 50253	1	237	21	146	.1	14	15	1675	6.13	18	5	ND	1	104	1	2	2	174	2.23	.170	8	22	2.37	65	.11	20	2.19	.02	.05	1	5
A 50254	1	521	15	107	.5	14	19	1774	6.41	19	5	ND	1	125	1	2	2	174	3.07	.179	12	21	2.32	40	.11	17	2.19	.01	.04	1	15
A 50255	1	3374	11	151	.6	15	13	1621	6.51	30	5	ND	2	148	1	2	2	172	3.78	.172	12	19	2.22	37	.05	3	2.21	.01	.07	1	17
A 50256	1	847	15	139	4.3	12	16	1630	5.51	33	5	ND	1	155	1	39	2	114	1.86	.174	9	13	1.89	16	.01	14	1.94	.01	.14	1	79
A 50257	1	132	10	119	.3	15	17	1463	6.79	35	5	ND	2	127	1	2	2	180	4.37	.203	10	19	2.19	29	.01	3	1.93	.02	.12	1	38
A 50258	4	92	25	115	.6	12	13	1466	5.66	26	5	ND	2	143	1	2	2	116	4.24	.155	6	11	1.74	32	.01	16	1.57	.02	.12	1	33
STD C/AU-R	18	57	38	133	6.6	68	30	984	3.92	41	23	7	36	47	18	15	20	59	.44	.097	37	53	.88	175	.05	37	1.82	.06	.14	12	510

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50259	2	77	21	119	.4	9	25	1125	5.47	36	5	ND	1	125	1	2	5	104	3.39	.145	3	16	1.67	24	.01	2	1.37	.02	.09	1	37
A 50260	1	126	33	77	.9	11	20	674	7.55	50	5	ND	1	95	1	2	6	83	1.92	.133	2	18	1.30	16	.01	3	1.21	.01	.15	1	57
A 50261	2	185	13	71	.8	14	23	749	7.33	42	5	ND	1	75	1	2	2	89	2.56	.136	3	17	2.07	15	.01	5	.94	.02	.12	1	64
A 50262	1	252	15	139	.4	12	19	791	7.00	15	5	ND	1	130	1	2	2	162	1.70	.142	2	27	3.21	8	.01	5	2.44	.02	.05	1	46
A 50263	1	188	13	61	1.2	10	13	912	5.41	103	5	ND	1	379	1	5	2	31	3.79	.057	2	10	1.86	26	.01	6	.71	.01	.11	1	81
A 50264	4	107	13	48	.8	9	14	881	4.71	167	5	ND	1	291	1	2	2	25	1.52	.082	2	24	.99	10	.01	12	.77	.01	.13	1	95
A 50265	1	215	8	117	.4	9	18	1234	6.85	251	5	ND	1	320	1	6	2	24	4.75	.113	2	11	2.91	25	.01	14	.69	.01	.16	1	114
A 50266	3	256	29	74	1.1	9	24	1119	6.30	108	5	ND	1	319	1	6	4	23	4.54	.095	2	17	1.75	8	.01	8	.57	.01	.17	1	94
A 50267	1	72	34	695	.9	11	13	1151	6.35	123	5	ND	1	221	7	2	2	33	3.98	.135	2	12	1.60	14	.01	6	.74	.01	.15	1	84
A 50268	1	126	175	140	1.1	9	16	1202	5.17	114	5	ND	1	191	2	2	4	21	3.93	.103	3	13	1.10	13	.01	2	.65	.01	.13	1	101
A 50269	1	121	31	141	.7	12	21	1193	7.22	69	5	ND	1	156	1	2	2	98	3.33	.125	4	20	2.09	27	.01	9	1.64	.01	.12	1	52
A 50270	1	198	17	120	.7	13	24	1217	7.97	66	5	ND	1	95	1	2	2	146	3.18	.132	3	35	2.51	21	.02	2	2.12	.02	.09	1	53
A 50271	1	482	11	129	.8	12	16	1293	8.82	60	5	ND	1	82	1	4	2	155	3.51	.131	3	27	2.63	22	.01	5	2.31	.02	.09	1	177
A 50272	1	146	118	96	1.2	11	23	1175	7.36	101	5	ND	1	106	1	2	2	57	3.06	.124	3	17	1.47	9	.01	6	1.13	.01	.14	1	102
A 50273	1	367	25	114	1.0	13	21	1259	7.38	50	5	ND	1	80	1	3	4	121	2.76	.136	3	23	2.43	17	.01	6	1.69	.02	.10	1	51
A 50274	1	554	13	83	1.0	12	21	1109	7.40	30	5	ND	1	86	1	4	4	159	3.52	.135	4	25	2.67	16	.01	2	2.08	.02	.06	1	44
A 50275	1	191	13	95	.5	11	17	1254	7.78	34	5	ND	1	78	1	2	2	140	3.47	.133	4	26	2.33	15	.01	4	1.96	.02	.07	1	39
A 50276	1	85	2	83	.4	12	20	1197	7.34	19	5	ND	1	97	1	2	2	168	3.59	.140	5	24	2.61	31	.01	7	2.22	.02	.07	1	16
A 50277	1	447	10	113	.7	12	15	1209	7.96	16	5	ND	1	90	1	2	2	174	3.27	.139	5	26	2.81	88	.01	5	2.51	.02	.06	1	41
A 50278	1	119	15	120	.6	10	15	1194	7.91	24	5	ND	1	69	1	2	2	175	3.09	.136	4	24	2.87	44	.01	12	2.63	.02	.05	1	26
A 50279	1	377	6	95	.7	12	19	1093	7.18	26	5	ND	1	81	1	2	2	136	3.24	.140	3	23	2.34	23	.01	2	1.95	.02	.09	1	41
A 50280	1	127	4	95	.7	12	22	1173	6.56	31	5	ND	1	89	1	2	2	124	3.28	.141	2	21	2.54	21	.01	3	1.55	.02	.08	1	53
A 50281	1	336	13	100	.7	12	27	1174	6.47	34	5	ND	1	92	1	2	4	128	3.38	.143	3	20	2.37	22	.01	3	1.48	.02	.08	1	49
A 50282	1	250	7	96	.7	14	13	905	7.43	19	5	ND	1	91	1	2	2	176	2.95	.131	4	28	2.85	35	.01	3	2.30	.02	.06	1	65
A 50283	2	415	1926	4540	2.5	13	16	1063	7.75	62	5	ND	1	98	30	5	2	131	3.43	.129	4	24	2.28	16	.01	14	1.85	.02	.09	1	340
A 50284	1	352	14	103	.7	13	23	869	7.48	27	5	ND	1	83	1	2	4	160	2.69	.134	4	31	2.69	18	.01	2	2.02	.02	.06	1	43
STD C/AU-R	18	59	39	133	6.7	67	30	1021	4.17	43	23	7	39	49	18	15	22	59	.48	.095	39	56	.91	176	.06	35	1.96	.06	.14	13	515

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

CHUCHI

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: SEP 27 1989 DATE REPORT MAILED: Oct 4/89 SIGNED BY..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

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SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50285	2	767	16	72	.4	11	10	527	4.84	11	5	ND	2	141	1	2	2	143	3.04	.131	11	15	1.32	335	.09	2	1.28	.02	.09	1	69
A 50286	1	297	150	319	.9	69	22	837	8.36	13	5	ND	2	220	3	2	2	244	3.51	.105	7	100	2.48	193	.10	3	1.87	.02	.09	1	38
A 50287	2	3267	2	83	1.1	14	28	580	5.22	19	5	ND	3	144	1	2	2	164	3.53	.288	12	15	1.44	27	.12	2	1.42	.03	.11	1	310
A 50288	2	491	2	51	.2	11	16	558	5.07	10	5	ND	2	127	1	2	2	167	2.95	.146	10	14	1.42	98	.11	4	1.45	.03	.10	1	31
A 50289	3	436	4	56	.1	14	21	676	6.17	8	5	ND	2	142	1	2	2	176	3.52	.214	13	17	1.95	225	.09	2	1.39	.03	.32	1	25
50290	74	364	2	39	.1	10	18	745	4.85	11	5	ND	2	796	1	2	2	84	8.04	.181	8	3	2.54	49	.01	2	.41	.02	.16	1	3
A 50291	1	163	26	67	.2	12	14	625	5.06	8	5	ND	2	158	1	2	2	145	3.23	.147	11	15	1.46	257	.06	6	1.07	.03	.15	1	16
A 50292	1	678	2	40	.3	10	13	335	4.83	5	5	ND	1	69	1	2	2	173	1.82	.152	9	12	1.06	39	.13	2	1.32	.03	.08	2	1
A 50293	3	257	3	47	.1	13	14	368	4.88	7	5	ND	1	91	1	2	2	181	1.86	.153	9	16	.90	41	.14	2	1.31	.03	.10	1	22
A 50294	11	4346	2	65	.8	17	12	339	5.16	9	5	ND	2	75	1	2	2	167	1.68	.144	10	26	1.13	37	.15	2	1.31	.03	.10	1	240
A 50295	3	8999	9	138	3.4	12	12	365	4.44	22	5	ND	1	97	2	14	2	103	1.84	.125	7	8	1.20	22	.11	2	1.21	.02	.06	1	760
A 50296	2	4151	3	62	1.1	12	16	456	5.28	13	5	ND	1	94	1	2	2	156	3.09	.143	9	10	1.31	36	.12	2	1.46	.03	.12	1	210
STD C	19	63	36	136	7.2	71	32	1017	4.30	42	20	7	41	51	19	15	20	63	.50	.096	41	57	.96	191	.06	39	1.96	.06	.13	13	-
A 50297	5	1249	2	47	.5	11	13	327	4.59	10	5	ND	1	83	1	2	2	166	2.03	.152	9	10	1.03	34	.14	13	1.33	.03	.09	1	560
A 50298	1	565	2	32	.1	7	11	304	4.29	9	5	ND	1	92	1	2	2	144	2.22	.145	8	9	.92	35	.13	15	1.26	.03	.07	1	62
A 50299	1	1622	7	49	.7	7	11	291	4.54	11	5	ND	1	76	1	2	2	156	2.03	.144	8	9	.95	39	.13	6	1.28	.03	.09	1	29
A 50300	1	1050	3	35	.7	9	11	260	4.51	7	5	ND	2	61	1	2	2	157	2.09	.139	8	9	.96	27	.13	2	1.28	.03	.09	1	53
A 50301	2	1827	3	41	1.0	11	6	265	4.16	12	5	ND	1	57	1	2	2	134	2.03	.141	7	11	.95	23	.12	6	1.23	.03	.08	1	120
A 50302	5	1884	4	41	.9	9	37	298	4.96	17	5	ND	1	53	1	2	2	136	2.03	.219	8	9	1.19	25	.12	2	1.42	.03	.08	1	11
A 50303	1	557	5	35	.4	9	16	261	4.97	9	5	ND	1	54	1	2	2	160	1.73	.161	8	11	1.14	30	.14	2	1.36	.03	.12	1	50
A 50304	1	764	2	26	.5	10	16	217	5.49	14	5	ND	2	53	1	2	2	152	1.79	.143	8	9	.84	42	.13	2	1.17	.03	.08	2	54
A 50305	1	901	7	29	.5	8	10	229	4.51	10	5	ND	2	55	1	2	2	155	2.14	.150	8	9	.93	26	.14	2	1.35	.03	.09	2	69
A 50306	7	1392	3	35	.6	7	6	290	3.42	30	5	ND	4	123	1	31	2	128	3.94	.390	12	7	.92	30	.09	12	.93	.02	.11	1	186
50307	2	1597	4	39	.8	11	17	248	4.64	9	5	ND	2	78	1	2	2	143	1.61	.147	8	9	1.17	50	.14	2	1.27	.03	.22	1	167
50308	3	801	3	35	.3	8	15	220	3.31	10	5	ND	1	68	1	2	2	123	1.77	.153	8	9	.96	23	.13	10	1.00	.03	.10	1	107
A 50309	1	572	2	35	.3	12	10	256	4.53	5	5	ND	2	59	1	2	2	157	1.93	.147	8	29	1.07	21	.14	2	1.23	.03	.08	2	68
A 50310	3	736	2	25	.3	11	13	254	4.43	5	5	ND	2	106	1	2	2	146	2.18	.163	9	15	.72	46	.14	6	1.08	.03	.12	1	76
A 50311	1	2019	3	38	1.0	9	12	303	4.86	7	5	ND	2	136	1	2	2	167	2.66	.151	9	12	.82	63	.14	24	1.08	.03	.11	1	210
A 50312	2	6157	2	52	3.4	12	13	217	3.91	12	5	ND	3	48	1	2	2	127	1.76	.166	8	13	.91	37	.15	2	.87	.02	.11	1	870
A 50313	1	5124	2	62	2.5	11	14	195	4.12	12	5	ND	1	46	1	2	2	135	1.67	.110	6	11	.73	30	.14	15	.79	.03	.09	1	1760
A 50314	1	17597	4	222	7.8	16	34	215	4.86	40	5	2	1	68	3	2	2	103	2.87	.161	8	5	.58	35	.13	2	.59	.02	.08	1	2540
A 50315	1	3875	2	63	1.8	8	11	179	2.69	9	5	ND	2	62	1	2	2	101	1.59	.141	9	9	.74	46	.12	12	.75	.03	.10	1	430
A 50316	1	6007	4	81	3.2	10	25	177	3.67	17	5	ND	1	46	1	2	2	84	1.54	.133	8	8	.69	47	.11	2	.73	.02	.10	1	800
A 50317	2	7211	2	92	3.6	13	54	186	4.29	17	5	ND	1	36	1	2	2	69	1.32	.152	8	9	.79	33	.09	6	.68	.02	.14	156	980
RE A 50314	2	17694	2	223	8.2	15	36	219	4.95	44	5	2	1	69	3	2	2	106	2.89	.166	9	6	.59	36	.13	2	.62	.03	.08	1	2940
A 50318	7	9407	3	117	4.6	16	31	236	5.19	18	5	ND	1	51	1	2	2	62	1.94	.123	10	8	.73	19	.08	2	.73	.02	.08	1	980
A 50319	4	5037	8	53	2.4	12	68	114	3.33	18	5	ND	2	49	1	2	2	57	1.45	.096	11	12	.41	39	.11	2	.59	.03	.07	1	640
A 50320	3	414	5	13	.1	9	10	97	1.91	2	5	ND	3	64	1	2	2	57	1.26	.098	10	12	.58	22	.12	15	.93	.04	.10	3	93
STD C/AU-R	18	60	38	132	6.5	68	31	962	4.02	39	19	8	38	48	18	15	19	58	.50	.089	38	56	.90	172	.05	33	1.93	.06	.14	13	530

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50321	4	346	5	26	.1	8	14	216	3.51	7	5	ND	1	184	1	2	2	66	1.23	.126	7	9	1.48	71	.13	2	1.58	.02	.42	1	5
A 50322	7	457	4	15	.1	11	12	111	2.18	7	5	ND	1	93	1	2	2	50	1.24	.087	9	11	.65	36	.10	12	.87	.03	.07	1	28
A 50323	4	251	2	11	.1	7	8	216	2.28	18	5	ND	1	106	1	2	2	28	3.27	.077	8	12	.49	23	.01	9	.57	.02	.10	1	16
A 50324	19	2319	3	30	1.1	11	9	145	1.94	7	5	ND	2	26	1	2	2	67	1.57	.087	9	14	.62	15	.09	2	.58	.02	.06	1	200
A 50325	33	1271	2	22	.4	12	6	113	1.91	10	5	ND	1	52	1	2	2	76	.86	.096	9	18	.69	27	.10	4	.63	.03	.11	1	260
A 50326	10	318	5	11	.1	11	5	82	1.23	5	5	ND	2	20	1	2	2	71	.68	.086	8	15	.50	21	.10	2	.42	.02	.09	1	13
A 50327	4	415	5	26	.3	11	14	348	3.95	11	5	ND	2	59	1	2	2	84	1.08	.152	7	13	1.60	49	.15	7	1.60	.03	.34	3	10
A 50328	5	1757	2	24	.4	12	8	148	2.06	5	5	ND	3	51	1	2	2	72	1.08	.092	7	15	.70	25	.11	3	.70	.03	.08	1	107
A 50329	5	1699	2	18	.3	14	8	97	1.82	3	5	ND	2	47	1	2	2	51	.94	.084	7	14	.41	19	.10	4	.59	.03	.06	1	135
RE A 50334	11	1560	3	24	.5	11	12	86	2.42	3	5	ND	1	37	1	2	2	61	.86	.083	8	21	.59	12	.10	16	.72	.03	.12	1	68
A 50330	5	1130	2	17	.2	15	11	119	2.10	5	5	ND	2	40	1	2	2	59	.91	.086	8	17	.55	16	.11	2	.67	.03	.06	1	2
A 50331	6	833	3	17	.3	9	17	97	2.53	6	5	ND	2	34	1	2	2	45	1.00	.084	8	20	.47	14	.11	6	.79	.04	.06	1	66
A 50332	3	2062	6	26	.6	10	13	105	2.53	5	5	ND	2	40	1	2	2	37	1.17	.084	9	9	.49	11	.09	6	.84	.03	.07	1	145
)333	4	8861	4	122	4.0	23	39	139	5.47	24	5	2	1	41	1	2	2	49	1.14	.074	6	4	.52	6	.05	2	.68	.01	.04	1	1290
,,)0334	9	1564	2	18	.4	13	14	90	2.44	2	5	ND	1	38	1	2	2	61	.85	.084	8	20	.58	14	.10	18	.73	.03	.11	1	70
A 50335	10	949	4	17	.2	18	17	100	3.57	3	5	ND	1	42	1	2	2	103	.71	.083	8	17	.86	21	.11	7	.94	.03	.20	1	68
A 50336	20	1819	2	22	.5	20	19	150	3.38	6	5	ND	2	47	1	2	2	75	.77	.079	7	18	.67	18	.12	4	.80	.03	.12	1	68
A 50337	21	1021	4	21	.3	17	16	90	2.80	3	5	ND	1	30	1	2	2	75	.81	.086	7	17	.69	15	.12	10	.70	.03	.09	1	55
A 50338	13	3062	2	27	.6	15	18	93	2.86	7	5	ND	2	64	1	2	2	78	.81	.091	9	32	.79	19	.12	4	.88	.04	.18	1	77
A 50339	3	12055	8	59	4.0	38	36	119	5.71	8	5	ND	1	53	1	2	2	61	1.19	.153	7	17	.68	8	.10	6	.85	.02	.06	1	1040
A 50340	8	713	4	23	.3	21	19	143	3.45	6	5	ND	1	66	1	2	2	75	2.36	.125	8	28	.95	2	.12	11	.86	.02	.03	2	50
A 50341	7	444	5	14	.1	20	15	96	3.39	6	5	ND	2	36	1	2	2	93	.86	.080	7	22	1.12	21	.13	15	1.05	.04	.21	1	17
A 50342	7	455	2	14	.2	17	16	99	3.56	4	5	ND	2	25	1	2	2	94	.80	.083	7	29	1.06	18	.12	22	1.04	.04	.19	2	10
A 50343	16	815	2	16	.2	16	19	105	3.53	6	5	ND	2	40	1	2	2	88	.86	.082	6	20	1.06	18	.11	2	1.02	.03	.16	1	41
A 50344	12	1771	2	20	.3	16	16	100	3.04	6	5	ND	1	40	1	2	2	90	.81	.079	5	19	.97	18	.11	4	.88	.03	.23	1	70
A 50345	6	807	2	13	.2	13	9	87	2.65	5	5	ND	2	37	1	2	2	98	.64	.081	6	21	1.08	31	.12	3	1.08	.05	.42	1	8
STD C	18	58	41	134	6.7	67	32	950	4.04	42	16	8	38	47	19	14	18	57	.49	.092	38	56	.89	172	.05	34	1.91	.06	.14	13	-
A 50346	6	1373	2	15	.2	14	8	91	2.30	2	5	ND	1	49	1	2	2	112	.68	.087	5	35	1.28	37	.13	2	1.23	.04	.42	1	47
A 50347	10	195	5	10	.1	15	12	100	2.10	2	5	ND	1	45	1	2	2	99	.57	.067	4	24	1.13	27	.11	2	.99	.03	.37	2	14
A 50348	49	420	2	11	.1	14	11	110	2.58	2	5	ND	2	40	1	2	2	121	.73	.080	5	24	1.34	46	.15	17	1.36	.05	.64	1	23
A 50349	2	141	2	29	.1	26	15	334	4.01	2	5	ND	1	62	1	2	2	124	1.63	.157	6	49	1.03	9	.14	20	1.64	.03	.12	1	6
)0350	3	143	2	38	.1	24	14	389	4.04	4	5	ND	1	57	1	2	2	130	1.80	.155	7	43	1.01	11	.15	11	1.78	.04	.10	1	4
,, 50351	8	111	2	16	.1	15	8	134	2.01	7	5	ND	2	35	1	2	2	115	.70	.078	4	29	1.39	11	.14	2	1.17	.04	.13	1	3
A 50352	17	356	3	15	.1	19	18	133	2.99	6	5	ND	2	90	1	2	2	126	1.14	.085	6	30	1.42	36	.17	2	1.83	.05	.49	1	16
A 50353	8	243	2	13	.1	14	12	110	2.66	3	5	ND	1	71	1	2	2	121	.82	.076	5	32	1.28	36	.14	2	1.49	.05	.51	1	10
A 50354	6	647	4	16	.1	21	17	127	3.40	5	5	ND	1	51	1	2	2	142	.82	.089	7	30	1.27	32	.16	14	1.39	.05	.53	1	23
A 50355	7	153	2	14	.1	19	14	133	3.25	4	5	ND	2	131	1	2	2	146	1.07	.093	6	35	1.45	34	.17	3	1.77	.05	.59	1	7
A 50356	38	2079	2	19	.6	20	16	96	3.09	6	5	ND	2	150	1	2	2	114	.89	.079	7	30	.99	13	.12	6	1.06	.03	.38	1	86
STD C/AU-R	18	60	38	132	6.5	68	31	962	4.04	44	19	7	37	47	19	15	19	58	.50	.090	38	55	.89	174	.05	35	1.95	.06	.13	13	490

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50357	6	219	7	16	.3	17	16	137	3.78	14	5	ND	3	275	1	2	5	157	2.02	.111	8	30	1.42	25	.16	2	3.12	.03	.47	1	20
A 50358	7	290	3	12	.1	20	11	105	2.84	7	5	ND	2	121	1	2	6	126	.79	.084	6	33	1.18	24	.14	12	1.47	.05	.52	1	19
A 50359	11	459	6	12	.4	24	23	119	4.10	8	5	ND	3	148	1	2	5	130	1.69	.111	7	32	1.31	16	.13	2	1.59	.03	.23	1	17
A 50360	6	320	6	11	.1	23	16	107	3.39	5	5	ND	2	42	1	2	2	137	.67	.079	6	28	1.11	32	.14	3	1.24	.05	.49	1	22

Assay Recommended for Cu > 1%

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: OCT 5 1989 DATE REPORT MAILED: Oct 10/89 SIGNED BY. C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

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SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50361	1	149	7	37	.1	9	9	237	5.08	6	5	ND	1	78	1	2	3	153	1.07	.099	5	13	.64	34	.11	2	1.05	.03	.09	2	14
A 50362	1	555	5	53	.3	12	12	284	4.48	6	5	ND	1	45	1	2	2	140	1.23	.110	5	14	.86	31	.13	11	1.28	.03	.11	1	33
A 50363	1	220	2	35	.1	8	8	209	3.52	5	5	ND	1	79	1	2	2	112	1.09	.107	6	9	.57	28	.09	5	.96	.03	.09	1	22
A 50364	1	221	6	38	.1	9	9	254	3.96	8	5	ND	1	46	1	2	2	123	1.02	.078	5	11	.87	21	.11	2	1.18	.03	.09	2	38
A 50365	1	258	4	45	.3	10	13	338	4.39	8	5	ND	2	62	1	2	2	135	1.12	.105	7	11	1.10	31	.11	2	1.49	.02	.13	1	34
50366	1	296	2	38	.1	12	16	316	4.86	4	5	ND	1	43	1	2	2	153	1.04	.078	4	12	1.28	77	.15	3	1.48	.03	.53	1	51
A 50367	132	1392	4	52	.6	12	18	256	7.90	3	5	ND	1	49	1	2	3	255	.96	.034	2	13	.71	28	.15	2	1.01	.03	.11	1	610
A 50368	2	308	8	43	.3	11	14	284	6.30	9	5	ND	1	118	1	2	2	206	1.05	.042	3	17	.90	26	.16	3	1.08	.02	.10	1	63
A 50369	1	201	5	37	.1	12	11	275	6.79	4	5	ND	1	46	1	2	2	227	.97	.029	2	13	.91	31	.15	2	1.12	.03	.17	1	27
A 50370	1	254	8	40	.3	12	14	261	5.94	6	5	ND	2	38	1	2	2	195	1.04	.037	3	17	.81	34	.15	3	.96	.03	.13	1	15
A 50371	6	388	4	41	.1	11	12	276	7.82	6	5	ND	1	42	1	2	2	264	1.27	.094	4	13	.78	29	.14	3	1.07	.03	.11	1	53
A 50372	5	654	9	35	.2	12	30	282	6.89	13	5	ND	1	49	1	2	3	222	1.37	.102	5	14	.91	38	.14	5	1.09	.04	.24	1	51
A 50373	1	247	3	46	.1	13	16	290	7.36	5	5	ND	1	47	1	2	2	243	.88	.062	3	14	.80	40	.14	12	.93	.03	.14	1	25
STD C	18	64	39	131	7.1	68	31	996	3.94	43	21	8	38	46	18	16	23	58	.46	.096	37	54	.85	174	.05	34	1.82	.06	.14	13	-
A 50374	1	448	3	37	.2	11	12	280	5.56	10	5	ND	1	57	1	2	2	176	1.07	.069	4	15	.81	20	.10	3	.97	.03	.07	1	29
A 50375	1	457	5	30	.1	9	12	207	4.30	6	5	ND	1	49	1	2	2	149	1.02	.054	4	19	.64	31	.11	3	.76	.03	.11	1	31
A 50376	6	4612	4	53	1.7	15	33	246	7.25	9	5	ND	2	68	1	2	2	236	1.29	.100	4	11	.72	19	.12	2	.88	.02	.07	1	520
A 50377	1	270	2	45	.1	13	14	281	6.63	3	5	ND	1	46	1	2	2	227	.96	.091	4	21	.78	44	.14	2	.96	.03	.22	2	23
A 50378	1	307	6	45	.1	14	19	284	9.61	9	5	ND	3	43	1	2	2	328	1.04	.110	6	17	.79	41	.14	8	.96	.03	.25	1	29
A 50379	3	343	5	29	.1	14	25	251	8.56	16	5	ND	2	44	1	2	3	255	1.51	.111	4	13	.69	27	.11	2	.89	.03	.16	1	24
A 50380	1	228	6	35	.1	13	13	256	7.22	9	5	ND	2	41	1	2	2	230	1.16	.133	5	16	.97	42	.13	2	1.19	.03	.27	1	27
A 50381	1	418	4	41	.2	14	13	271	7.88	3	5	ND	2	39	1	2	2	252	.85	.062	3	17	.92	46	.16	2	1.06	.03	.36	1	24
A 50382	2	1625	5	51	.6	14	21	252	8.19	8	5	ND	2	56	1	2	2	262	1.03	.099	5	13	.72	54	.14	2	.86	.03	.27	1	100
50383	1	754	6	44	.3	14	16	277	7.80	5	5	ND	1	62	1	2	2	257	1.06	.094	4	14	.95	65	.17	2	1.13	.03	.37	1	59
A 50379	4	345	6	31	.1	14	23	259	8.76	16	5	ND	1	46	1	2	2	257	1.55	.112	4	13	.70	28	.12	2	.92	.04	.16	1	21
A 50384	2	907	2	45	.4	14	16	260	6.87	5	5	ND	2	34	1	2	2	227	.85	.042	3	15	.87	50	.16	2	.98	.03	.30	1	71
A 50385	3	972	6	34	.5	12	16	245	6.68	8	5	ND	2	70	1	2	2	209	1.18	.097	4	10	.91	44	.13	10	1.23	.03	.25	1	95
A 50386	2	965	4	39	.3	11	12	272	6.29	4	5	ND	1	34	1	2	2	207	.99	.065	3	17	1.02	38	.15	2	1.20	.03	.28	1	84
A 50387	1	1415	3	40	.8	11	11	314	5.80	9	5	ND	2	76	1	2	2	185	2.19	.127	6	11	.68	49	.11	8	.99	.03	.15	1	210
A 50388	22	2093	6	50	1.1	21	41	384	10.22	28	5	ND	2	70	1	2	3	166	2.49	.120	5	11	1.31	32	.09	2	1.40	.02	.28	1	290
A 50389	2	705	8	38	.3	12	14	284	5.59	5	5	ND	1	39	1	2	2	161	1.03	.102	4	13	1.04	53	.13	2	1.06	.03	.30	1	84
A 50390	1	330	6	37	.2	12	12	296	6.88	6	5	ND	1	37	1	2	2	191	1.00	.109	4	13	1.22	57	.14	2	1.23	.03	.37	2	35
A 50391	2	311	4	34	.2	11	13	249	5.78	6	5	ND	2	38	1	2	2	174	1.20	.107	5	15	.96	58	.13	5	1.19	.03	.26	1	15
A 50392	1	457	11	36	.1	11	13	261	6.64	3	5	ND	1	59	1	2	3	203	1.21	.131	6	14	.91	62	.13	2	1.13	.03	.29	1	38
A 50393	2	1254	4	41	.5	13	13	359	6.19	10	5	ND	1	75	1	2	2	169	1.83	.121	5	12	1.14	40	.12	2	1.17	.03	.19	1	107
A 50394	1	855	6	44	.2	10	13	246	5.66	4	5	ND	1	41	1	2	2	187	1.11	.100	5	10	.57	41	.11	6	.81	.02	.13	1	86
A 50395	1	1460	6	45	.7	9	15	227	4.61	8	5	ND	2	119	1	2	2	133	1.47	.137	6	8	.55	30	.10	3	.89	.02	.09	1	144
A 50396	13	826	4	46	.3	13	22	246	5.46	4	5	ND	1	65	1	2	3	171	1.52	.144	7	13	.59	31	.11	4	.97	.03	.11	1	101
STD C/AU-R	18	63	44	132	7.0	67	30	1008	3.97	42	24	7	38	48	18	15	22	58	.49	.094	38	57	.86	174	.06	34	1.90	.06	.13	12	510

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50397	1	3042	14	76	.9	12	16	290	5.73	6	5	ND	1	71	1	2	2	164	1.42	.145	6	11	.84	80	.11	7	1.14	.03	.21	1	420
A 50398	1	772	6	51	.2	12	13	276	5.60	5	5	ND	1	55	1	2	2	193	1.39	.175	8	15	.72	76	.11	7	1.06	.03	.18	1	70
A 50399	1	1860	12	70	.5	10	16	319	5.71	4	5	ND	1	134	1	2	2	182	1.60	.129	6	19	.84	54	.12	9	1.09	.02	.16	1	124
A 50400	1	1018	2	53	.4	12	18	337	6.48	5	5	ND	1	54	1	2	2	213	1.44	.111	5	11	.79	51	.11	7	1.20	.02	.18	2	83
A 50401	1	1656	7	70	.8	12	16	352	7.97	7	5	ND	2	43	1	2	2	278	1.15	.131	6	10	.90	54	.12	2	1.12	.02	.28	1	127
A 50402	1	1300	5	64	.6	12	18	357	6.70	7	5	ND	1	53	1	2	2	227	1.43	.120	6	11	.92	48	.12	8	1.21	.03	.18	1	114
A 50403	1	5323	16	102	2.0	13	18	331	8.42	8	5	ND	2	53	1	2	4	289	1.42	.200	8	17	.89	75	.12	9	1.13	.03	.33	1	300
A 50404	1	6566	2	124	2.3	18	21	372	6.71	5	5	ND	2	58	1	2	2	176	1.77	.215	8	10	1.02	54	.11	4	1.33	.03	.22	1	430
A 50405	1	6402	3	88	2.4	14	22	336	5.89	11	5	ND	2	62	1	2	2	173	1.53	.245	9	9	1.03	61	.10	6	1.09	.03	.26	1	930
A 50406	5	2769	5	64	1.1	12	19	402	6.52	7	5	ND	1	60	1	3	2	236	1.72	.135	6	9	1.53	59	.11	4	1.54	.03	.28	1	154
A 50407	13	1327	3	60	.6	10	15	377	5.72	9	5	ND	2	96	1	2	3	180	1.58	.161	7	12	1.41	48	.11	2	1.40	.02	.21	2	89
A 50408	1	842	2	46	.4	7	15	436	4.58	12	5	ND	1	88	1	2	2	129	1.23	.193	6	5	2.29	93	.15	14	2.38	.04	1.06	1	83
A 50409	8	1108	2	45	.5	9	19	353	5.16	7	5	ND	1	57	1	2	2	142	1.70	.196	8	10	1.19	35	.09	3	1.29	.02	.12	3	97
50410	31	1850	3	50	.6	11	16	340	5.86	5	5	ND	2	81	1	2	2	208	1.60	.161	7	10	1.17	66	.11	8	1.27	.03	.21	1	127
50411	9	3001	7	53	1.2	13	26	369	6.52	7	5	ND	2	103	1	2	2	218	1.72	.253	9	15	1.42	114	.14	11	1.37	.02	.41	1	260
A 50412	4	1560	2	45	.7	13	20	330	5.28	5	5	ND	2	72	1	2	2	188	1.29	.201	8	12	1.39	114	.15	21	1.34	.03	.55	2	99
A 50413	63	1674	8	53	.8	12	24	327	5.31	7	5	ND	1	90	1	2	2	166	1.31	.216	9	12	1.26	72	.12	14	1.28	.03	.27	1	113
A 50414	1	428	2	43	.2	13	18	322	5.01	5	5	ND	2	57	1	2	2	182	1.57	.282	11	10	1.30	100	.15	4	1.28	.02	.48	1	51
STD C	17	56	38	125	7.0	64	30	974	3.84	40	19	7	36	48	17	14	20	53	.46	.082	35	53	.84	170	.06	33	1.83	.06	.14	13	-
A 50415	81	1530	2	53	.7	12	20	375	5.66	7	5	ND	2	96	1	2	2	185	1.85	.221	9	16	1.46	83	.15	12	1.42	.02	.41	1	132
A 50416	2	641	2	43	.3	8	12	310	4.98	3	5	ND	1	88	1	2	2	177	1.69	.106	5	11	.98	51	.11	6	1.08	.02	.16	2	76
A 50417	2	385	2	41	.3	9	14	335	5.77	7	5	ND	2	91	1	2	2	190	1.63	.183	8	12	1.11	47	.11	8	1.18	.02	.17	2	53
A 50418	4	1144	2	43	.5	9	16	304	5.58	2	5	ND	1	131	1	2	2	193	1.92	.170	7	10	.91	44	.10	4	1.06	.02	.10	1	250
A 50419	5	1854	2	49	.8	9	19	248	6.76	7	5	ND	1	91	1	2	2	224	1.94	.211	9	11	.70	45	.09	3	.96	.02	.10	1	156
RE A 50415	82	1532	7	56	.7	13	22	391	5.80	5	5	ND	3	100	1	2	2	189	1.89	.224	10	18	1.50	82	.15	10	1.47	.02	.42	1	140
A 50420	51	6295	23	97	3.3	10	20	309	5.90	11	5	ND	2	195	1	2	2	155	1.61	.168	9	23	1.16	97	.12	14	1.50	.05	.23	1	920
A 50421	1	991	3	45	.5	9	15	346	4.87	6	5	ND	2	111	1	2	2	154	1.56	.135	6	10	1.27	53	.11	9	1.23	.03	.18	1	72
A 50422	5	2813	7	63	1.2	9	20	471	5.14	8	5	ND	1	111	1	3	3	160	1.43	.159	7	11	1.67	42	.11	4	1.54	.02	.11	1	360
A 50423	330	5020	4	77	1.9	13	34	449	4.99	6	5	ND	2	118	1	3	3	155	1.29	.142	7	10	1.66	63	.13	5	1.59	.03	.37	1	590
A 50424	180	3926	2	60	1.8	9	25	396	4.93	9	5	ND	2	139	1	3	2	160	1.64	.169	6	12	1.48	49	.12	10	1.43	.02	.20	1	260
A 50425	1	872	4	51	.5	8	18	370	5.22	5	5	ND	1	148	1	2	2	182	1.38	.151	7	11	1.26	116	.12	6	1.42	.02	.36	1	76
50426	2	1336	3	53	.7	8	15	358	4.53	2	5	ND	1	93	1	2	2	146	1.63	.142	7	11	1.05	31	.11	4	1.22	.02	.09	1	123
50427	11	421	4	47	.3	11	13	323	4.42	4	5	ND	1	86	1	2	2	152	1.54	.142	6	11	.77	49	.10	7	1.17	.02	.11	2	107
A 50428	16	593	3	44	.3	8	12	295	4.44	4	5	ND	1	99	1	2	2	149	1.52	.133	6	14	.78	34	.10	8	1.14	.02	.09	2	37
A 50429	2	451	2	49	.2	10	14	328	4.88	2	5	ND	1	65	1	2	2	164	1.52	.154	8	15	.85	34	.10	7	1.19	.02	.11	2	51
A 50430	1	564	2	52	.4	8	15	377	4.91	7	5	ND	2	74	1	3	2	150	2.02	.144	8	11	.91	25	.10	8	1.18	.02	.09	1	41
A 50431	4	1117	4	42	.5	8	19	345	4.96	5	5	ND	2	93	1	2	3	149	1.85	.170	8	11	.94	29	.10	7	1.14	.03	.10	1	111
STD C/AU-R	17	59	41	132	7.1	64	30	1023	4.06	37	16	6	36	47	17	15	20	56	.50	.085	37	54	.88	173	.06	33	1.97	.06	.14	12	525

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: OCT 10 1989 DATE REPORT MAILED: Oct 17/89 SIGNED BY C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 540/LOC 10144 File # 89-4187 Page 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50432	2	121	6	12	.2	5	7	126	3.24	5	5	ND	2	51	1	2	3	72	1.19	.111	7	6	.33	31	.07	3	.81	.03	.09	1	1
STD C	18	58	41	129	6.6	68	30	1018	4.13	40	19	7	37	47	18	15	19	56	.48	.096	37	55	.85	172	.06	34	1.91	.06	.14	13	-
A 50433	3	306	4	13	.4	6	12	112	3.61	9	5	ND	2	41	1	2	3	51	1.02	.114	8	4	.32	29	.07	27	.73	.03	.10	1	30
A 50434	3	88	4	14	.3	6	8	280	3.32	7	5	ND	1	94	1	2	2	97	4.08	.103	7	12	1.08	29	.07	3	1.24	.03	.06	1	1
A 50435	2	144	3	10	.2	7	12	96	3.36	6	5	ND	2	43	1	2	2	65	1.06	.117	9	6	.26	38	.07	22	.78	.04	.10	1	13
A 50436	2	116	2	9	.1	7	17	97	3.16	7	5	ND	1	57	1	2	2	64	1.49	.114	8	5	.19	37	.07	3	.77	.03	.09	1	1
A 50437	2	96	8	15	.2	6	8	161	3.63	3	5	ND	1	64	1	2	3	98	1.62	.139	8	8	.50	38	.09	18	1.18	.04	.11	1	10
A 50438	2	125	5	20	.2	9	12	204	4.27	3	5	ND	1	80	1	2	2	96	1.82	.140	8	11	.79	38	.10	7	1.40	.04	.13	1	1
A 50439	6	231	10	26	.3	7	16	234	4.44	3	5	ND	1	75	1	2	2	98	1.55	.151	7	10	1.05	55	.12	9	1.30	.05	.24	1	1
A 50440	2	255	10	21	.3	7	16	218	4.92	3	5	ND	1	98	1	2	2	107	1.94	.148	7	12	.76	68	.11	4	1.44	.06	.22	1	1
A 50441	3	1815	4	41	1.3	9	11	142	2.74	5	5	ND	2	105	1	2	7	77	1.31	.106	8	13	.59	50	.09	10	.92	.05	.14	1	221
A 50442	1	255	2	23	.2	8	12	208	4.33	2	5	ND	1	95	1	2	2	102	1.72	.169	8	11	.85	49	.11	26	1.33	.05	.14	1	44
A 50443	2	1013	4	40	.7	9	17	253	5.08	8	5	ND	1	134	1	2	5	97	1.61	.116	7	18	1.20	56	.12	5	1.37	.03	.36	1	137
A 50444	15	858	5	40	.5	9	15	305	4.32	8	5	ND	1	101	1	2	4	99	2.16	.130	8	16	1.13	57	.12	18	1.31	.03	.34	1	207
A 50445	6	251	2	44	.4	7	20	449	5.39	6	5	ND	2	118	1	2	2	148	2.76	.170	10	12	.87	82	.11	26	1.30	.03	.21	1	137
A 50446	4	634	2	31	.4	9	13	252	4.68	4	5	ND	1	126	1	2	2	132	1.99	.139	8	18	.95	57	.12	13	1.24	.05	.25	1	2
A 50447	3	706	5	27	.5	9	16	196	3.85	6	5	ND	2	113	1	2	2	98	1.50	.113	7	19	.87	44	.12	10	1.07	.04	.22	1	136
A 50448	17	570	4	28	.6	10	20	242	4.78	11	5	ND	1	138	1	2	3	105	1.76	.123	9	16	.95	49	.11	15	1.24	.04	.15	1	1
A 50449	14	2462	3	40	1.7	18	20	120	2.91	25	5	ND	2	34	1	2	5	79	1.02	.088	10	17	.56	28	.09	2	.63	.03	.10	1	361
A 50450	7	699	5	26	.4	12	13	122	2.97	12	5	ND	3	56	1	2	2	123	1.50	.082	9	26	.83	60	.13	2	1.00	.07	.21	1	75
A 50451	21	413	2	12	.4	14	10	80	1.87	5	5	ND	3	37	1	2	3	82	.85	.090	7	18	.38	41	.14	3	.49	.04	.20	1	1
A 50452	6	1020	8	22	.7	23	18	89	2.13	10	5	ND	3	39	1	2	5	69	.82	.086	7	17	.36	40	.12	17	.55	.06	.13	1	240
A 50453	20	574	6	18	.3	20	13	91	2.04	9	5	ND	3	53	1	2	4	87	1.19	.084	9	21	.57	45	.12	15	.96	.08	.16	1	225
50454	6	492	5	17	.3	17	16	98	2.59	8	5	ND	3	65	1	2	2	86	.84	.094	8	20	.53	52	.13	2	.87	.07	.18	1	1
A 50455	3	783	3	41	.4	7	24	298	6.41	2	5	ND	1	86	1	2	3	150	1.52	.130	7	14	.80	57	.13	15	1.42	.04	.28	1	132
A 50456	14	877	2	49	.7	9	16	386	5.21	5	5	ND	1	97	1	2	2	142	1.98	.166	6	15	1.11	75	.13	3	1.58	.04	.27	1	193
RE A 50452	6	1018	7	22	.7	21	18	81	2.09	10	5	ND	3	39	1	2	3	70	.83	.085	7	17	.36	42	.13	14	.56	.05	.14	1	281
A 50457	1	422	10	49	.4	9	16	347	5.65	2	5	ND	1	90	1	3	2	149	1.78	.178	8	16	.96	68	.13	14	1.51	.06	.21	1	67
A 50458	1	637	6	42	.5	8	14	304	4.95	2	5	ND	1	68	1	2	4	140	1.61	.165	7	14	.92	68	.13	6	1.38	.03	.31	1	132
A 50459	5	997	6	35	.6	9	13	228	5.24	18	5	ND	1	102	1	2	4	125	1.93	.169	7	12	.70	40	.11	4	1.17	.03	.19	1	85
A 50460	12	280	9	30	.3	8	14	248	5.80	5	5	ND	1	127	1	2	2	130	1.87	.159	7	14	.83	51	.11	5	1.37	.03	.17	1	128
A 50461	3	672	8	36	.6	10	35	289	6.37	6	5	ND	1	77	1	2	2	137	1.68	.196	8	15	1.06	55	.12	5	1.48	.03	.28	1	88
A 50462	12	523	5	43	.3	9	13	298	4.89	2	5	ND	1	89	1	2	2	147	1.65	.156	7	14	.82	72	.12	25	1.32	.04	.19	1	150
A 50463	1	720	6	45	.4	10	16	301	5.52	4	5	ND	1	71	1	2	2	162	1.61	.179	7	15	.81	75	.12	6	1.29	.04	.21	1	1
A 50464	6	195	5	50	.2	8	12	338	4.63	2	5	ND	1	74	1	2	2	157	1.80	.223	9	14	.73	74	.11	13	1.33	.04	.18	1	1
A 50465	3	467	5	48	.5	10	20	326	7.12	2	5	ND	1	57	1	2	3	206	1.29	.139	6	17	.89	63	.13	10	1.21	.03	.30	1	211
A 50466	20	717	3	45	.5	12	19	303	7.01	8	5	ND	1	68	1	2	2	157	1.65	.206	8	16	.76	59	.11	6	1.23	.04	.25	1	152
A 50467	4	297	2	45	.3	10	16	309	5.75	2	5	ND	1	80	1	2	3	158	1.46	.164	8	16	.64	65	.11	14	1.19	.04	.17	2	75
STD C/AU-R	18	58	40	132	6.7	66	30	1031	4.13	40	19	8	37	48	18	15	21	57	.48	.095	37	55	.87	174	.06	34	1.92	.06	.14	12	495

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50468	4	388	5	45	.1	8	14	295	5.08	4	5	ND	1	74	1	2	2	154	1.44	.158	8	10	.68	53	.12	7	1.13	.03	.19	1	10
A 50469	5	1690	2	52	.8	8	14	350	6.35	2	5	ND	1	71	1	2	3	164	1.52	.168	8	10	.84	48	.11	2	1.19	.02	.20	2	180
A 50470	2	711	7	48	.3	7	18	306	4.78	2	5	ND	1	55	1	2	2	157	1.41	.154	8	8	.80	55	.12	7	1.17	.03	.23	1	240
A 50471	15	639	2	50	.3	7	21	301	4.91	2	5	ND	2	77	1	2	2	163	1.51	.156	8	8	.84	49	.11	4	1.11	.02	.14	1	55
A 50472	2	717	4	47	.5	8	18	305	5.94	3	5	ND	3	87	1	2	2	187	1.77	.167	8	9	.84	42	.11	3	1.18	.02	.14	1	16
STD C	17	60	38	130	7.1	67	30	908	3.90	38	18	6	36	46	17	15	20	56	.47	.089	36	55	.85	168	.06	32	1.91	.06	.14	12	-
A 50473	38	1853	6	66	.9	8	14	371	5.40	6	5	ND	1	80	1	2	2	171	1.49	.146	7	8	.99	42	.11	4	1.20	.02	.23	1	230
A 50474	5	1972	4	67	1.0	11	20	330	7.13	4	5	ND	1	69	1	2	2	232	1.53	.188	8	7	.95	37	.11	6	1.13	.02	.25	1	340
RE A 50473	39	1877	3	69	.9	8	15	410	5.74	4	5	ND	1	86	1	2	3	177	1.53	.152	8	9	1.06	51	.12	6	1.27	.03	.25	1	190
A 50475	2	601	2	47	.1	8	15	296	4.66	2	5	ND	1	99	1	2	2	158	1.60	.163	8	7	.65	40	.10	8	1.09	.02	.10	1	250
A 50476	1	1046	6	50	.3	8	18	304	5.84	5	5	ND	1	88	1	2	3	188	1.73	.154	8	8	.70	44	.11	4	1.19	.03	.15	1	240
STD C/AU-R	18	62	38	132	7.1	68	30	1025	4.00	40	17	7	36	47	18	15	22	57	.49	.090	37	56	.88	173	.06	31	1.94	.06	.14	12	520

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Files. Chuchi.

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: OCT 27 1989 DATE REPORT MAILED: Oct 31/89 . SIGNED BY.......D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 540 LOC #10144 File # 89-4526

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
A 50477	2	231	2	33	.1	14	13	367	4.78	4	5	ND	1	70	1	2	2	158	1.91	.146	9	16	.98	50	.12	3	1.20	.03	.11	1	33
A 50478	2	517	3	32	.1	7	10	307	4.20	5	5	ND	1	61	1	2	2	142	1.83	.139	8	10	.79	37	.12	14	1.14	.03	.10	1	39
A 50479	1	466	3	42	.1	10	13	366	4.77	5	5	ND	1	77	1	2	2	157	2.20	.145	9	10	1.07	31	.12	3	1.32	.03	.10	1	42
A 50480	8	466	5	33	.1	10	11	289	4.55	3	5	ND	1	61	1	2	4	156	1.81	.144	9	10	.89	39	.12	11	1.21	.03	.12	1	48
50481	3	495	3	31	.1	10	13	363	4.69	4	5	ND	1	66	1	2	2	150	2.31	.143	9	9	1.03	42	.11	6	1.31	.03	.10	1	12
A 50482	2	222	4	38	.1	11	12	238	5.44	4	5	ND	1	55	1	2	2	171	.95	.046	3	13	.68	61	.14	11	1.03	.04	.20	1	330
A 50483	1	217	4	43	.1	11	15	292	6.94	5	5	ND	1	53	1	2	2	230	1.19	.105	5	11	.81	52	.14	6	1.15	.04	.16	1	36
A 50484	2	482	2	38	.1	11	14	254	5.70	3	5	ND	1	70	1	2	2	172	1.18	.072	4	10	.72	41	.12	2	1.08	.05	.12	1	44
A 50485	2	261	3	39	.1	13	16	279	8.21	7	5	ND	1	51	1	2	2	257	.99	.048	3	17	.75	53	.15	2	1.02	.04	.25	1	39
A 50486	2	158	4	43	.1	13	15	291	6.92	2	5	ND	1	51	1	2	2	221	1.01	.060	3	15	.78	56	.15	2	1.08	.03	.24	1	13
A 50487	1	618	2	46	.2	9	17	353	6.32	3	5	ND	1	64	1	2	2	183	1.35	.131	5	6	1.35	45	.15	2	1.76	.04	.50	1	9
A 50488	4	1241	2	42	.4	12	23	279	8.40	10	5	ND	1	44	2	2	2	247	1.19	.127	6	10	.89	45	.13	9	1.16	.04	.21	1	200
A 50489	1	1021	4	47	.2	12	12	301	6.03	5	5	ND	1	64	1	2	2	183	1.45	.123	6	10	.78	47	.13	2	1.00	.03	.19	1	20
A 50490	2	661	5	47	.1	11	13	284	5.81	3	5	ND	1	55	1	2	2	187	1.36	.118	6	11	.65	39	.12	4	1.00	.03	.12	1	74
A 50491	2	1447	3	52	.3	11	17	262	7.46	3	5	ND	1	57	1	2	2	232	.98	.052	3	10	.60	75	.14	2	.98	.04	.22	1	240
A 50492	3	1219	2	54	.4	11	17	285	7.08	6	5	ND	1	78	1	2	2	229	1.69	.100	5	8	.64	52	.12	7	.98	.03	.14	1	210
A 50493	1	1306	5	52	.3	9	13	257	5.54	3	5	ND	1	57	1	2	2	184	1.32	.132	6	8	.58	63	.12	10	.95	.03	.16	1	164
A 50494	1	1005	8	51	.4	13	14	327	5.94	2	5	ND	1	54	1	2	3	192	1.65	.116	6	16	.95	77	.14	6	1.14	.03	.22	1	260
A 50495	1	415	6	50	.1	12	13	292	5.06	2	5	ND	1	72	1	2	2	173	1.39	.141	7	13	.80	66	.14	5	1.17	.03	.16	1	51
A 50496	1	852	3	54	.2	13	16	298	5.79	6	5	ND	1	60	1	2	2	192	1.52	.153	7	11	.74	66	.13	2	1.11	.03	.17	1	63
A 50497	15	2106	5	69	.5	10	15	369	5.81	3	5	ND	1	70	1	2	2	176	1.77	.156	7	9	1.07	50	.14	2	1.55	.03	.24	1	320
A 50498	1	526	4	49	.1	11	14	309	6.43	4	5	ND	1	51	1	2	2	225	1.23	.104	5	10	.75	65	.13	8	1.14	.03	.20	1	2
A 50499	8	979	9	57	.2	14	22	332	7.34	7	5	ND	1	51	1	2	2	261	1.25	.112	6	13	.86	68	.14	7	1.24	.03	.29	1	220
A 50500	10	1132	2	55	.4	11	19	345	6.60	6	5	ND	1	63	1	2	2	236	1.50	.173	8	8	1.00	70	.13	7	1.27	.03	.28	1	210
A 50501	2	778	3	52	.2	11	14	337	5.33	5	5	ND	1	56	1	2	2	174	1.45	.143	7	7	.86	45	.12	14	1.17	.04	.21	1	81
A 50502	2	516	2	45	.2	8	18	291	5.09	2	5	ND	1	61	1	2	2	167	1.33	.141	8	7	.62	45	.11	22	.98	.03	.16	1	76
A 50503	2	1235	2	48	.3	10	14	286	5.58	5	5	ND	2	103	1	2	3	193	1.72	.174	8	8	.71	59	.12	2	1.30	.04	.19	1	200
A 50504	1	599	6	45	.1	8	15	313	5.00	2	5	ND	1	92	1	2	2	171	1.66	.159	8	9	.77	55	.12	12	1.18	.03	.17	3	6
STD C/AU-R	18	58	38	132	7.1	68	31	1001	4.05	37	19	7	36	48	18	15	23	56	.49	.087	37	55	.89	173	.06	34	1.91	.06	.14	13	530

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BP RESOURCES - MINING
VANCOUVER, B.C.

ACME ANALYTICAL LABOR ORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 12 1989
DATE REPORT MAILED: Oct. 16/89

ASSAY CERTIFICATE

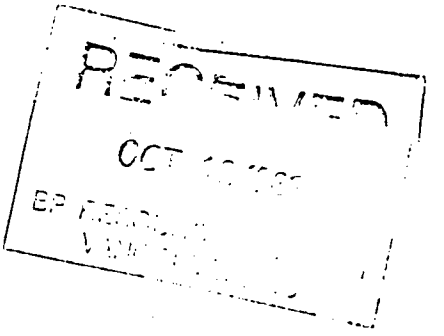
- SAMPLE TYPE: CORE PULP
AU** AND AG** BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY. C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 540 LOC #10144 FILE # 89-3946R

Church

SAMPLE#	Cu %	Ag** OZ/T	Au** OZ/T
A 50294	.40	.02	.009
A 50295	.91	.14	.022
A 50296	.37	.04	.006
A 50297	.11	.03	.020
A 50312	.58	.12	.033
A 50313	.45	.08	.043
A 50314	1.68	.24	.114
A 50315	.36	.06	.014
A 50316	.53	.10	.021
A 50317	.69	.11	.027
A 50318	.88	.13	.029
A 50319	.48	.09	.028
A 50332	.20	.02	.006
A 50333	.89	.14	.038
A 50334	.16	.01	.004
A 50335	.10	.02	.002
A 50336	.18	.02	.007
A 50337	.10	.02	.004
A 50338	.30	.04	.004
A 50339	1.18	.13	.038



Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Certificate of Analysis

REPORT: V89-06981.4 (COMPLETE)

REFERENCE INFO:

CLIENT: B.P. RESOURCES CANADA LTD.

SUBMITTED BY: R. WONG

PROJECT: NONE GIVEN

DATE PRINTED: 31-OCT-89

ORDER		ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	20	0.002 OPT		Fire Assay
2	Ag	Silver	20	0.02 OPT		Fire Assay
3	Cu	Copper	20	0.01 PCT		Atomic Absorption

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
D DRILL CORE	20	2 -150	20	SAMPLE SPLIT	20
				PULVERIZING	20

REPORT COPIES TO: MR. RUSS WONG

INVOICE TO: MR. RUSS WONG

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Certificate of Analysis

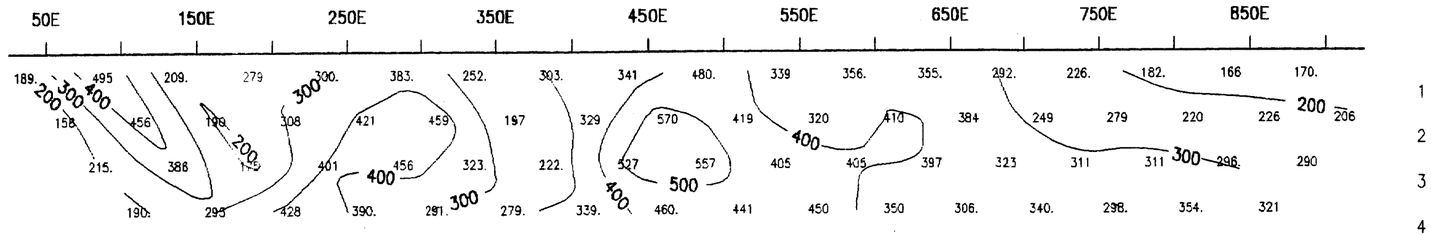
A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 31-OCT-89

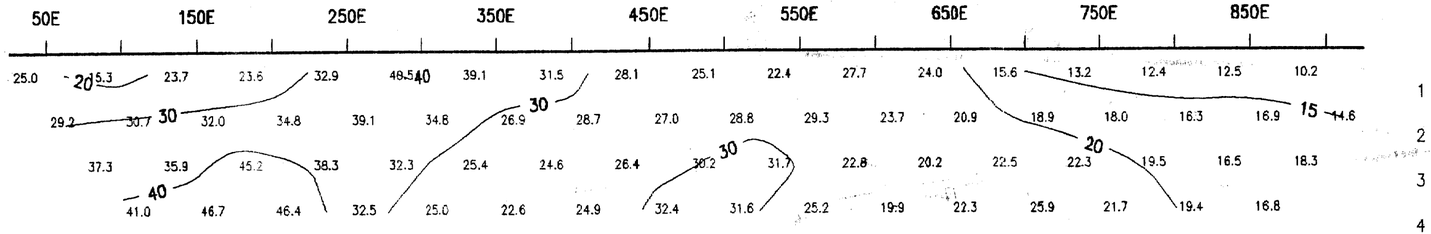
REPORT: V89-06981.4

PROJECT: NONE GIVEN PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Cu PCT
D2 A50294		0.006	0.03	0.32
D2 A50295		0.032	0.14	0.99
D2 A50296		0.040	0.08	0.43
D2 A50297		0.005	<0.02	0.13
D2 A50312		0.036	0.12	0.78
D2 A50313		0.016	0.07	0.51
D2 A50314		0.062	0.36	2.46
D2 A50315		0.017	0.08	0.45
D2 A50316		0.019	0.11	0.68
D2 A50317		0.024	0.13	0.77
D2 A50318		0.031	0.13	0.83
D2 A50319		0.020	0.08	0.48
D2 A50332		0.004	<0.02	0.18
D2 A50333		0.034	0.12	0.83
D2 A50334		0.016	<0.02	0.19
D2 A50335		0.003	<0.02	0.16
D2 A50336		0.003	<0.02	0.16
D2 A50337		0.003	<0.02	0.11
D2 A50338		0.005	0.03	0.34
D2 A50339		0.012	0.08	0.61



APPARENT RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)

MWH Geo-Surveys Ltd.

SCALE

m 100 0 100 m

DIPOLE LENGTH: 50 m

SCALE = 1: 2500

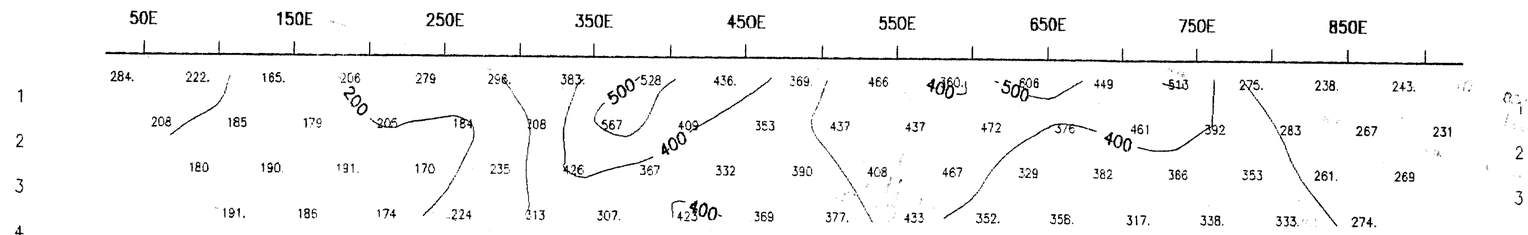
GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,018

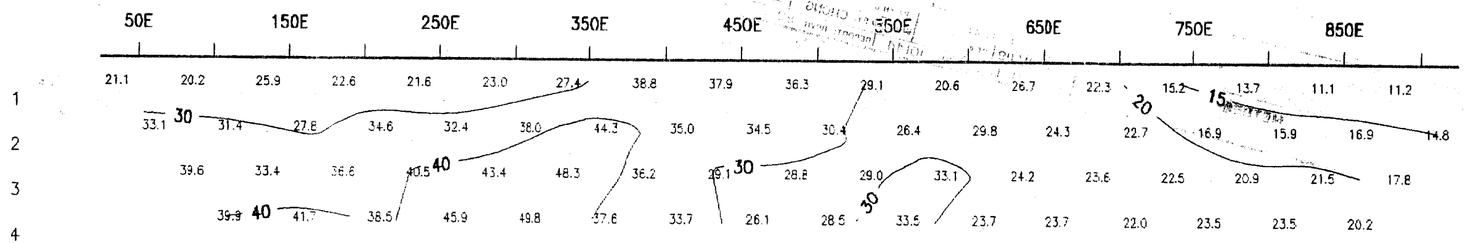
Part 1 of 2

FIGURE 10: BPVR 89-6

Pole-dipole I.P.	
CHUCHI CLAIMS CHUCHI LAKE, B.C. LINE 4 N	
AREA: CHUCHI LAKE	
for: B.P. MINERALS	
MWH Geo-Surveys Ltd.	
Surveyed by: jh	Date: June 17,89
Plotted by: jh	Project No:



APPARENT RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)

* MWH Geo-Surveys Ltd. *

SCALE

m 100 0 100 m

DIPOLE LENGTH: 50 m

SCALE = 1: 2500

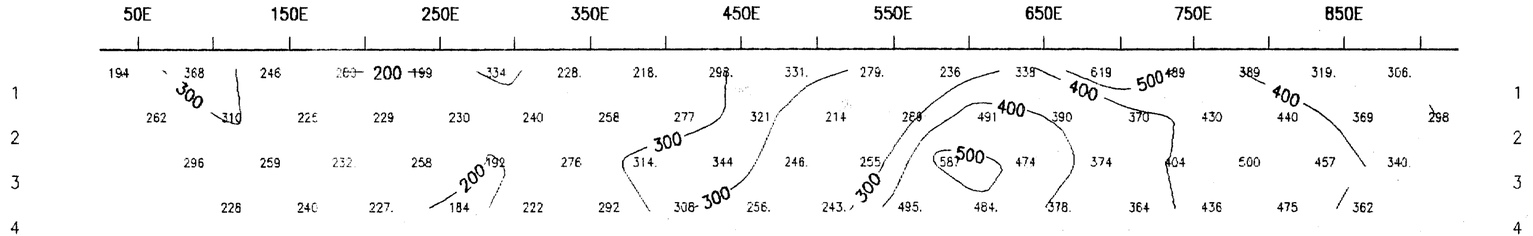
GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,018

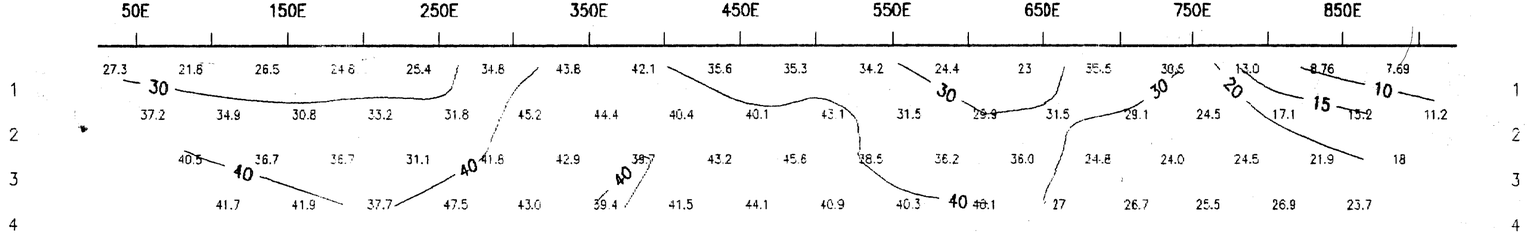
Part 1 of 2

FIGURE 9: BPVR 89-6

Pole-dipole I.P.	
CHUCHI CLAIMS	
CHUCHI LAKE, B.C.	
LINE 3 N	
AREA: CHUCHI LAKE	
for: B.P. MINERALS	
MWH Geo-Surveys Ltd.	
Surveyed by: jh	Date: June 16,89
Plotted by: jh	Project No:



APPARENT RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)

MWH Geo-Surveys Ltd.

SCALE

m 100 0 100 m

DIPOLE LENGTH: 50 m

SCALE = 1: 2500

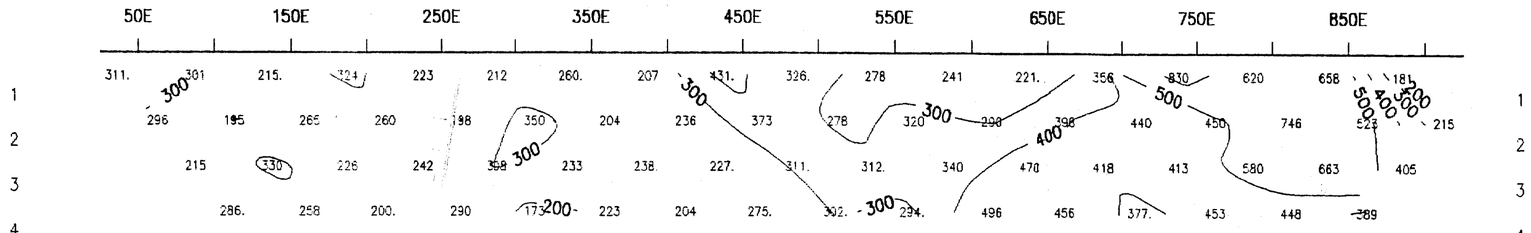
GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,018

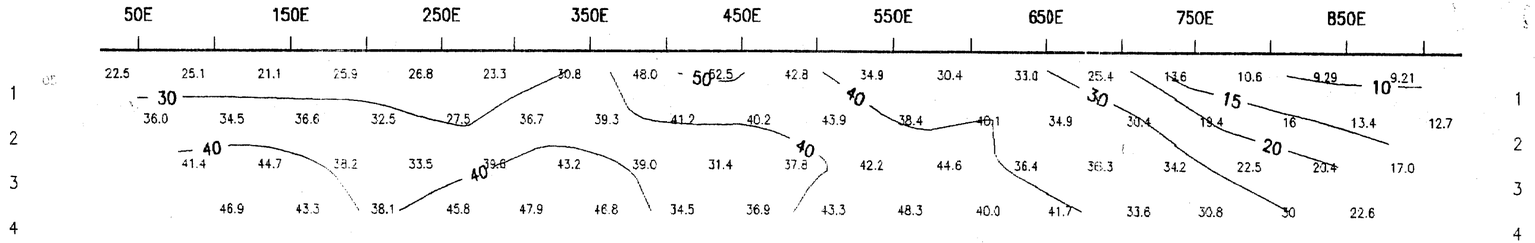
Part 1 of 2

FIGURE 8: BPVR 89-6

Pole-dipole I.P.	
CHUCHI CLAIMS	
CHUCHI LAKE, B.C.	
LINE 2 N	
AREA: CHUCHI LAKE	
for: B.P. MINERALS	
MWH Geo-Surveys Ltd.	
Surveyed by: jh	Date: June 18,89
Plotted by: jh	Project No:



APPARENT RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)

MWH Geo-Surveys Ltd.

SCALE

m 100 0 100 m

DIPOLE LENGTH: 50 m

SCALE = 1: 2500

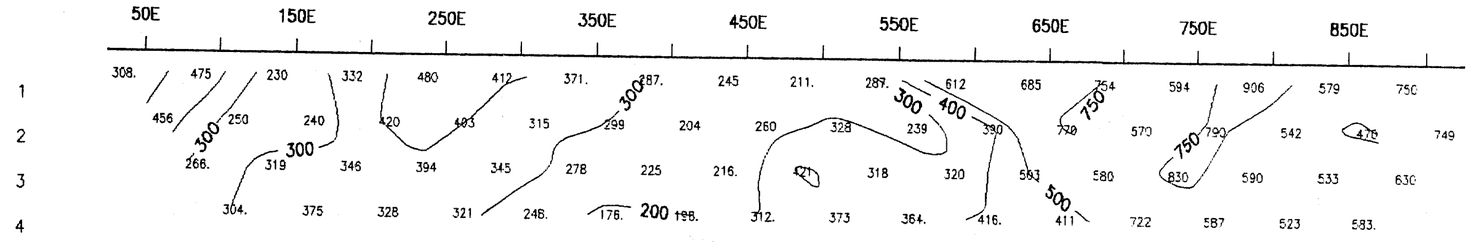
GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,018

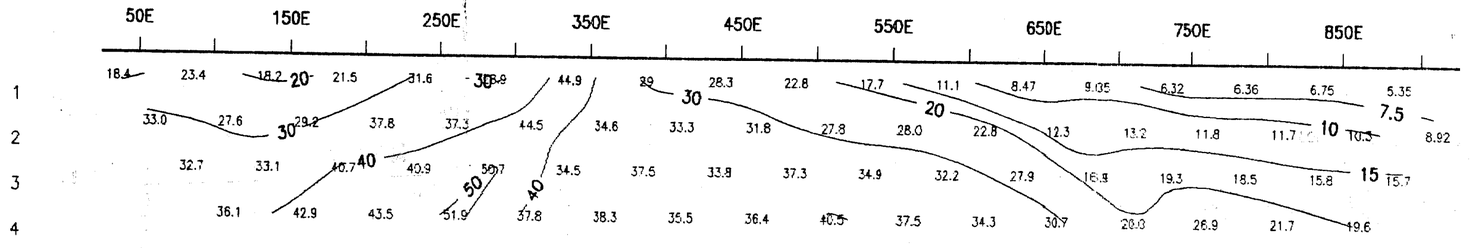
Part 1 of 2

FIGURE 7: BPVR 89-6

Pole-dipole I.P.
CHUCHI CLAIMS
CHUCHI LAKE, B.C.
LINE 1 N
AREA: CHUCHI LAKE
for: B.P. MINERALS
MWH Geo-Surveys Ltd.
Surveyed by: jh / Date: June 18,89
Plotted by: jh / Project No:



APPARENT RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)

MWH Geo-Surveys Ltd.

SCALE

m 100 0 100 m

DIPOLE LENGTH: 50 m

SCALE = 1: 2500

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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FIGURE 6: BPVR 89-6

Pole-dipole I.P.	
CHUCHI CLAIMS CHUCHI LAKE, B.C. LINE 0	
AREA: CHUCHI LAKE	
for: B.P. MINERALS	
MWH Geo-Surveys Ltd.	
Surveyed by: pn	Date: June 19,89
Plotted by: jh	Project No:

PHIL 13 PHIL 14

CHUCHI 1

CHUCHI 2

Outline of Copper - Gold Soil Anomaly

Outline of Multi - Element Soil Anomaly

6,7, 8a+b (inferred from drill holes)

CHUCHI SYENITE PLUTON

6?

1or3

6a

6a?

1 or 3

8b

89-01 89-02,03 89-04,05 89-06 89-07 89-08 89-09

1187.14 1161.58 1116.34 1655.80 1747.36 1717.72 1305.04 1370.62 1374.88 1366.84 1290.76 1486.96 1491.64 1337.50 1171.06 1613.68 1639.54 1527.04

N6126000 N6125000 N6124000 N6123000 N6122000

E399000 E400000 E401000 E402000 E403000 E404000 E405000

LEGEND

1	Monzonite to syenomonzonite	
2	Andesite dyke	
3	Diorite porphyry	
4	Siltstone	
5	Altered pyritic fragmental	
6	Andesite	a flow b fragmental
7	Latite	a flow b fragmental
8	Trachyte	a dyke b flow c fragmental
9	Hybrid zone (mixed intrusive & volcanic)	

Bedding

Geologic contact (assumed, approx.)

Fault (" , ")

Outline of soil geochemical anomaly

1989 diamond drill hole

Road

N

0 200 400 600 800metres

Formline interval 20 metres

GEOLOGICAL BRANCH
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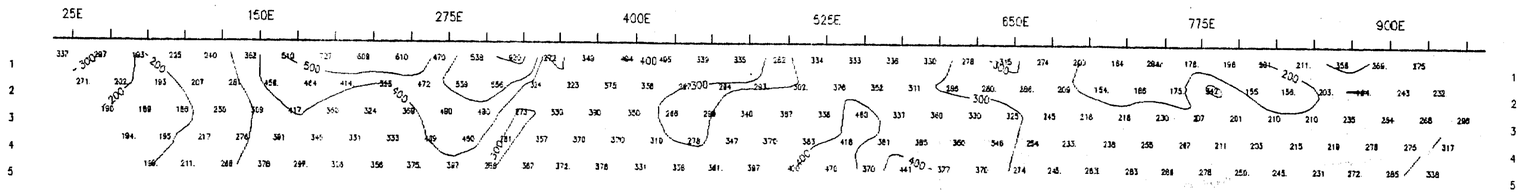
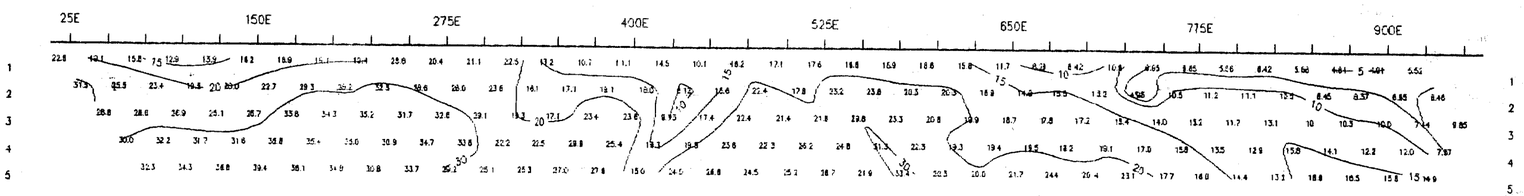
BP Resources Canada Limited
MINING DIVISION

PHIL 13 CLAIM GROUP
PROPERTY GEOLOGY

SCALE: 1:10,000		DRAWN BY: R. WONG	FIG. 4
DATE: MAR. '90	REV.:	DRAFTED BY: CHONG	
N.T.S. 93N/1,2,7,8	PROJ.: 1014	REPORT: BPVR 89-6	



APPARENT RESISTIVITY (CH#4-14)



CHARGEABILITY (MSEC)
MWH Geo-Surveys Ltd.

SCALE

m 100 0 100 m

DIPOLE LENGTH: 25 m

SCALE = 1: 2500

GEOLOGICAL BRANCH
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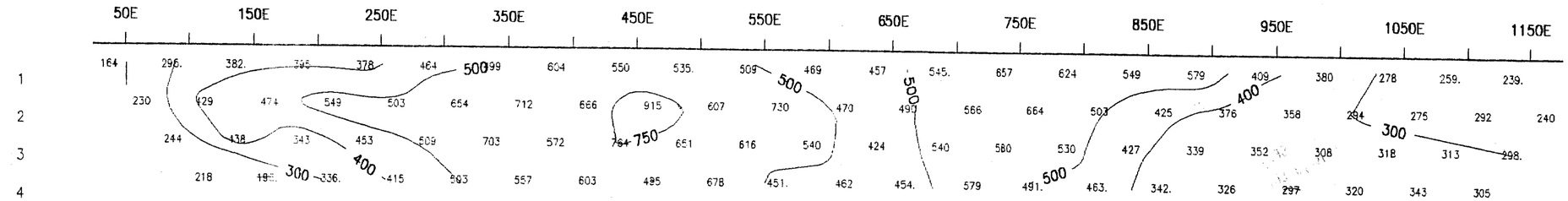
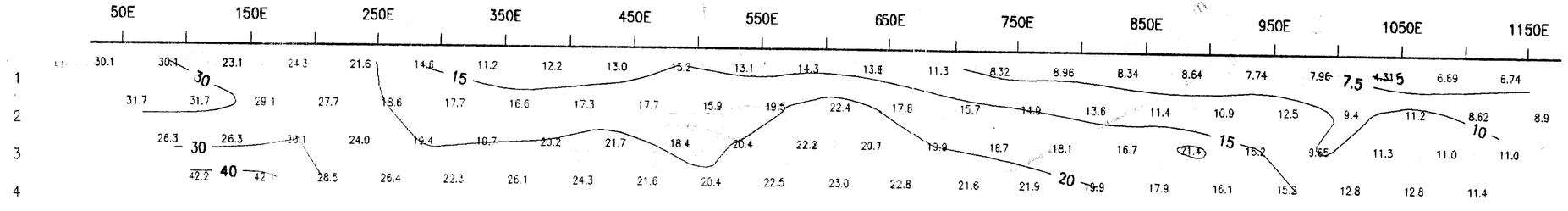
FIGURE 11: BPVR 89-6

Pole-diGole I.P.	
CHUCHI CLAIMS CHUCHI LAKE,B.C. LINE 5 N	
AREA: CHUCHI LAKE	
for: B.P. MINERALS	
MWH Geo-Surveys Ltd.	
Surveyed by: jh	Date: June 20,89
Plotted by: jh	Project No:



APPARENT RESISTIVITY (OHM--M)



CHARGEABILITY (MSEC)

MWH Geo-Surveys Ltd.

SCALE

m 100 0 100 m

DIPOLE LENGTH: 50 m

SCALE = 1: 2500

GEOLOGICAL BRANCH
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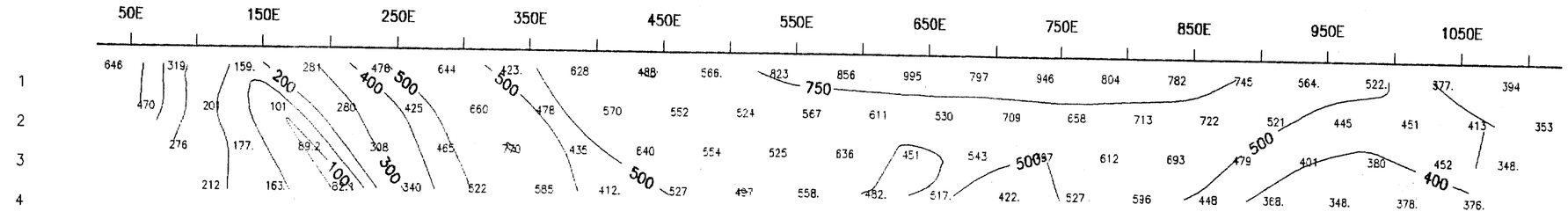
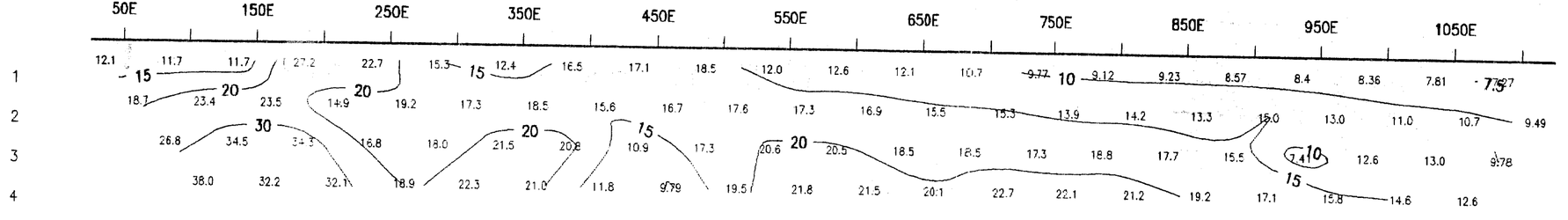
FIGURE 12: BPVR 89-6

Pole-dipole I.P.	
CHUCHI CLAIMS CHUCHI LAKE B.C. LINE 6 N	
AREA: CHUCHI LAKE	
for: B.P. MINERALS	
MWH Geo-Surveys Ltd.	
Surveyed by: pn	Date: June 19,89
Plotted by: jh	Project No:



APPARENT RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)

MWH Geo-Surveys Ltd.

SCALE

m 100 0 100 m

DIPOLE LENGTH: 50 m

SCALE = 1: 2500

GEOLOGICAL BRANCH
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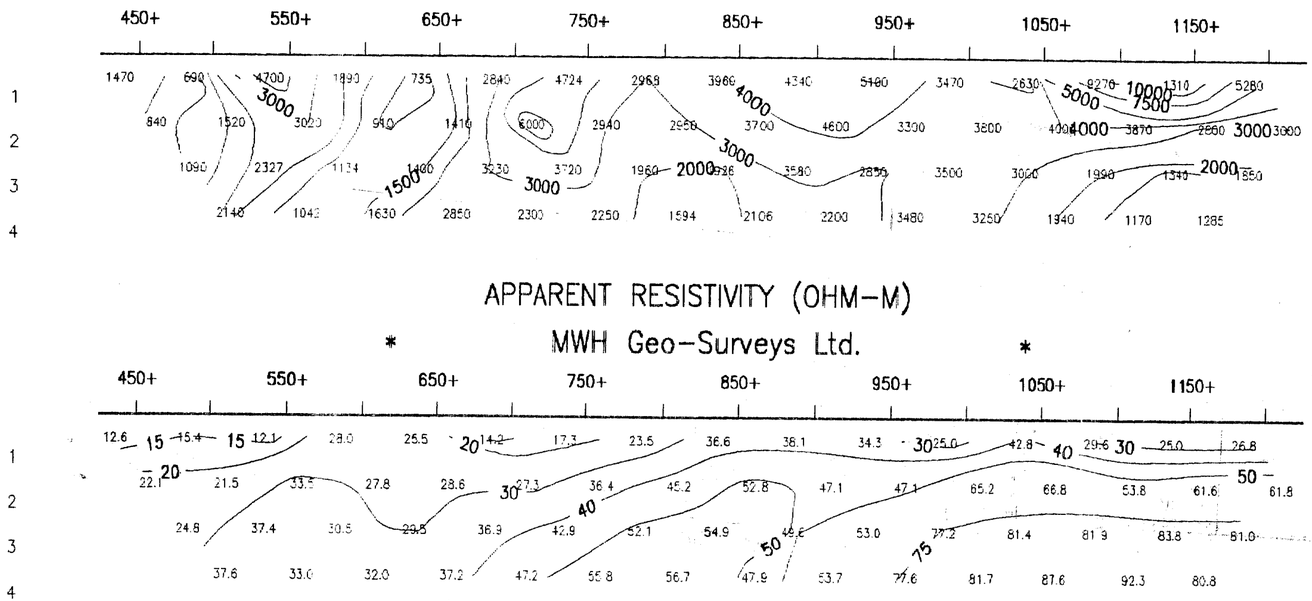
FIGURE 13: BPVR 89-6

Pole-dipole I.P.	
CHUCHI CLAIMS CHUCHI LAKE,B.C. LINE 7 N	
AREA: CHUCHI LAKE	
for: B.P. MINERALS	
MWH Geo-Surveys Ltd.	
Surveyed by: pn	Date: June 21,89
Plotted by: jh	Project No:



SCALE

mm 100 0 100 m

DIPOLE LENGTH: 50 m

SCALE = 1: 2500

GEOLOGICAL BRANCH
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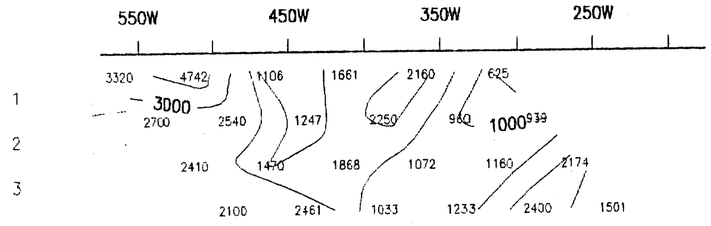
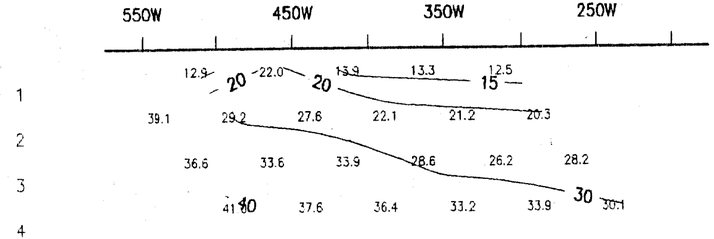
FIGURE 15a: BPVR 89-6

Pole-dipole I.P.
PHIL CLAIMS
CHUCHI LAKE, B.C.
LINE 13 N (PART 1)
AREA: CHUCHI LAKE
for: B.P. MINERALS
MWH Geo-Surveys Ltd.
Surveyed by: jh / Date: June 22,89
Plotted by: jh / Project No:



APPARENT RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)

MWH Geo-Surveys Ltd.

SCALE

m 100 0 100 m

DIPOLE LENGTH: 50 m

SCALE = 1: 2500

GEOLOGICAL BRANCH
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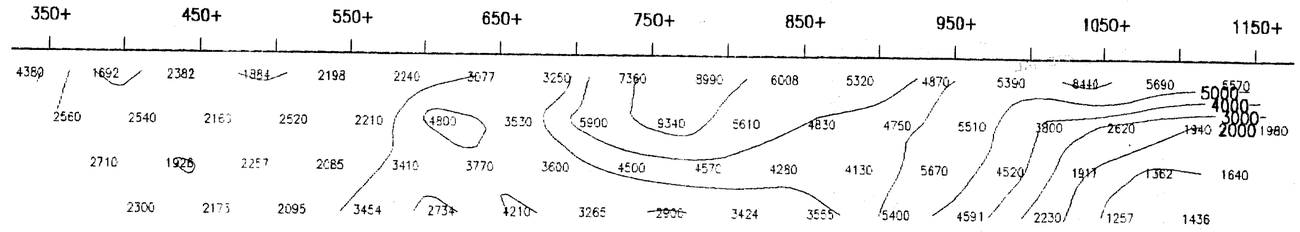
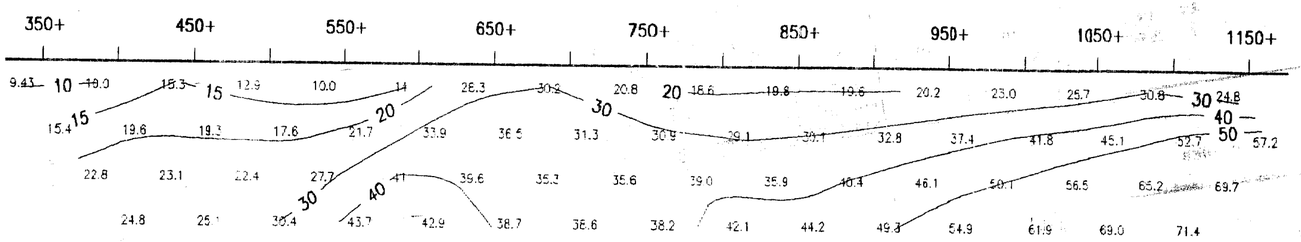
FIGURE 15b: BPVR 89-6

Pole-dipole I.P.	
PHIL CLAIMS	
CHUCHI LAKE, B.C.	
LINE 13 N (PART 2)	
AREA: CHUCHI LAKE	
for: B.P. MINERALS	
MWH Geo-Surveys Ltd.	
Surveyed by: jh	Date: June 22,89
Plotted by: jh	Project No:



APPARENT RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)

* MWH Geo-Surveys Ltd. *

SCALE

m 100 0 100 m

DIPOLE LENGTH: 50 m

FIGURE 16: BPVR 89-6

SCALE = 1: 2500

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Pole-dipole I.P.	
PHIL CLAIMS CHUCHI LAKE, B.C. LINE 14 N	
AREA: CHUCHI LAKE	
for: B.P. MINERALS	
MWH Geo-Surveys Ltd.	
Surveyed by: pn	Date: June 23,89
Plotted by: jh	Digitized by:

El. 1400m

El. 1300m.

El. 1200m.

CH 89-03
-80°, Az. 090

CH89-02
-65°, Az. 270°

CH89-01
-45°, Az. 090°

8a
7a,b
8a
7b
6b
7a,b
9
7b
7a,b
7b
.07, .64, 5.4
8 m.
7a
6b,7b,8c
1
7b
7a
8a
7a

CHONG

LEGEND

1	MONZONITE TO SYENOMONZONITE
2	ANDESITE DYKE
3	DIORITE PORPHYRY
4	SILTSTONE
5	ALTERED PYRITIC FRAGMENTAL
6	ANDESITE a flow, b fragmental
7	LATITE a flow, b fragmental
8	TRACHYTE a dyke, b flow, c fragmental
9	HYBRID ZONE (mixed intrusive & volcanic)

% Cu, g/t Au, g/t Ag
included interval of high grade

20 10 0 20 40
METRES

GEOLOGICAL BRANCH
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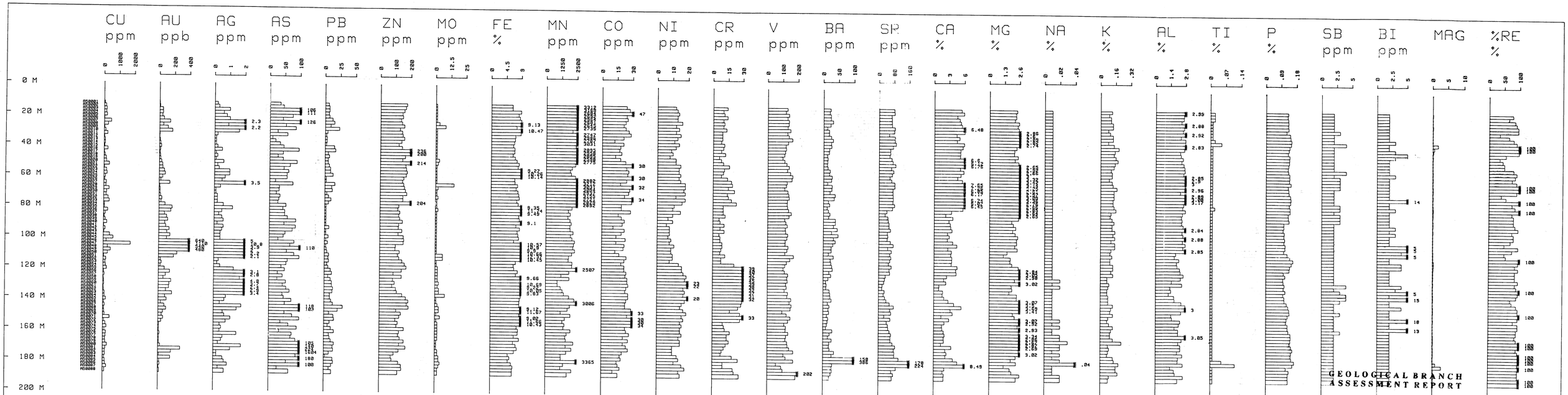
BP Resources Canada Limited
MINING DIVISION

CHUCHI PROJECT
DRILL SECTION
CH 89-1,2,3
LOOKING S.

SCALE: 1:1000		DRAWN BY: W. H.	FIG. 19
DATE: 11/'89	REV.	DRAFTED BY: CHONG	
N.T.S. 93N-1,2,7,8	PROJ.: 10144	REPORT: BPVR 89-6	



GEOLOGICAL BRANCH
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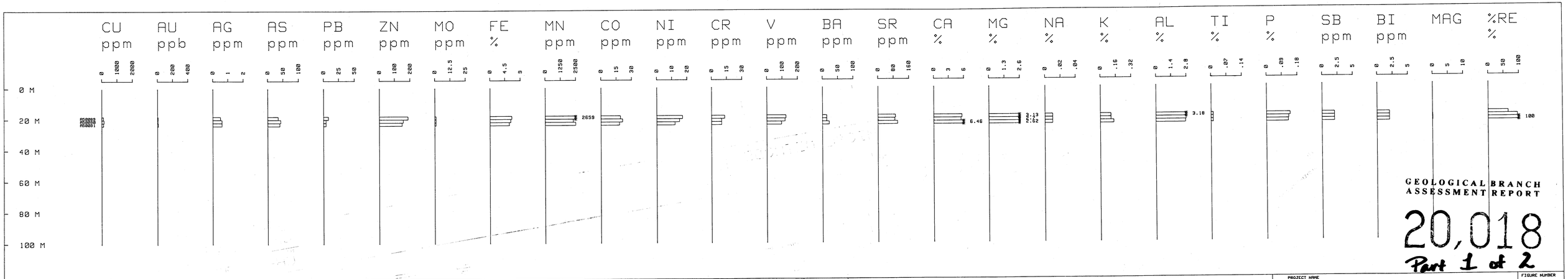
DRAWING NUMBER	DATE	PROJECT NUMBER	ANALYSIS 1	ANALYSIS 2	ANALYSIS 3	ANALYSIS 4	
	OCT/89	540	GOLD	MULTIELEMENT			BY PRIME GEOCHEMICAL METHODS
DRAWN BY	SCALE	NTS	LAB METHOD 1	LAB METHOD 2	LAB METHOD 3	LAB METHOD 4	BP RESOURCES CANADA LIMITED
SJH	1:1000	93N/7	AQUA REGIA	ICP-AR			

PROJECT NAME	FIGURE NUMBER
CHUCHI LAKE	20.
DRILLHOLE NUMBER	REPORT NUMBER
CH-89-01	BPVR89-6



GEOLOGICAL BRANCH
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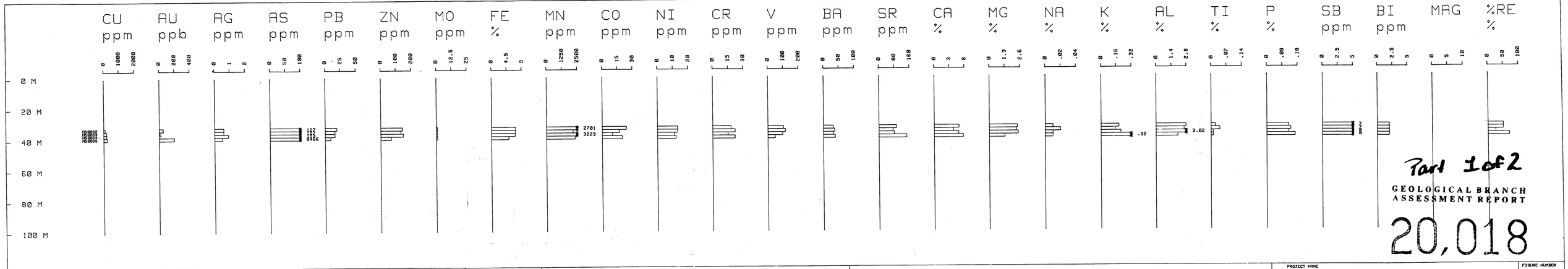
DRAWING NUMBER	DATE	PROJECT NUMBER	ANALYSIS 1	ANALYSIS 2	ANALYSIS 3	ANALYSIS 4
	OCT/89	540	GOLD	MULTIELEMENT		
DRAWN BY	SCALE	NTS	LAB METHOD 1	LAB METHOD 2	LAB METHOD 3	LAB METHOD 4
SJH	1:1000	93N/7	AQUA REGIA	ICP-AR		

BY PRIME GEOCHEMICAL METHODS
BP RESOURCES CANADA LIMITED

PROJECT NAME	FIGURE NUMBER
CHUCHI LAKE	21.
DRILLHOLE NUMBER	REPORT NUMBER
CH-89-02	BPVR89-6



Part 1 of 2

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DRAWING NUMBER	DATE	PROJECT NUMBER	ANALYSIS 1	ANALYSIS 2	ANALYSIS 3	ANALYSIS 4
	OCT/89	540	GOLD	MULTIELEMENT		
DRAWN BY	SCALE	NTS	LAB METHOD 1	LAB METHOD 2	LAB METHOD 3	LAB METHOD 4
SJH	1:1000	93N/7	AQUA REGIA	ICP-AR		

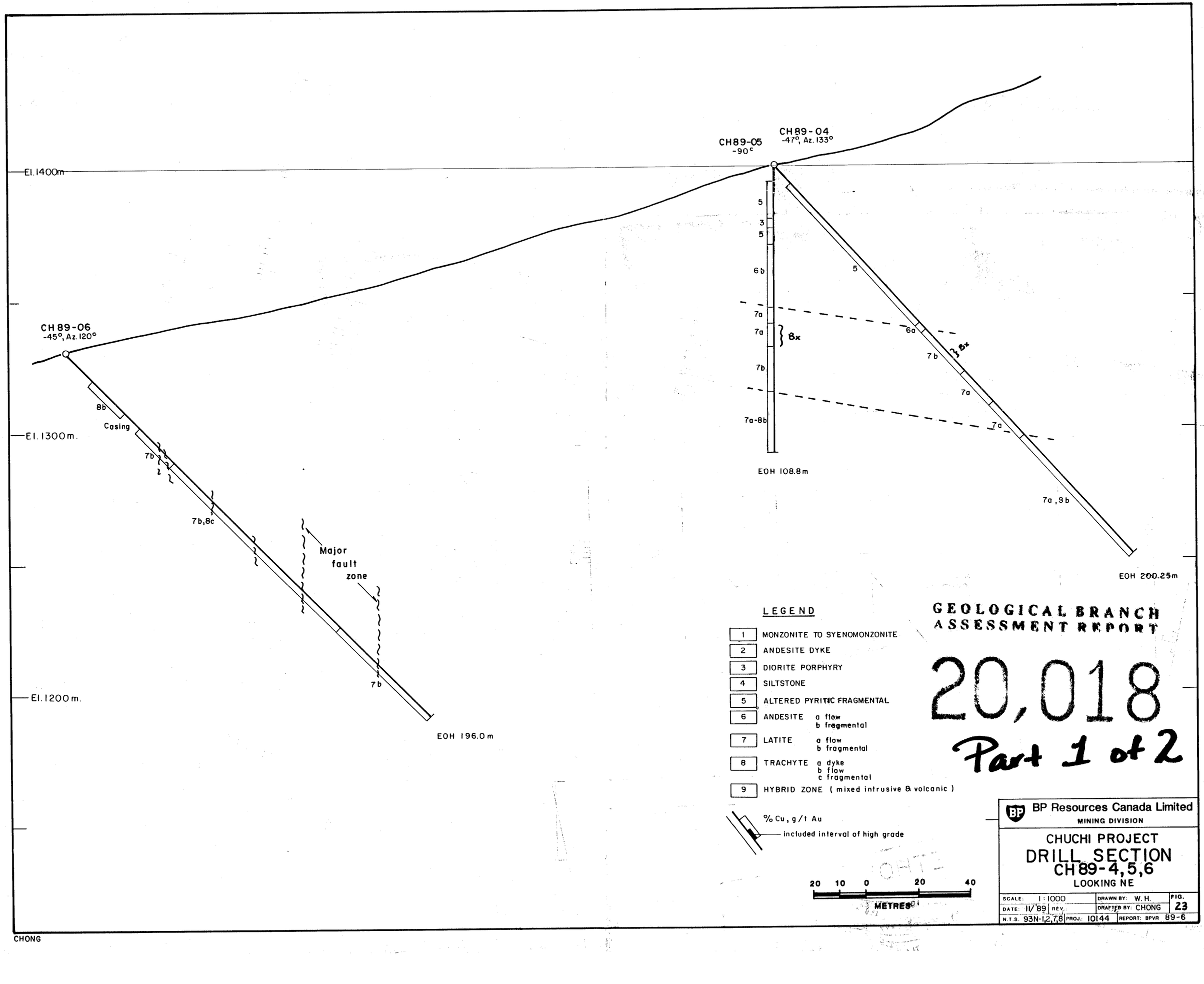
BY PRIME GEOCHEMICAL METHODS
BP RESOURCES CANADA LIMITED

PROJECT NAME: CHUCHI LAKE

DRILLHOLE NUMBER: CH-89-03

FIGURE NUMBER: 22.

REPORT NUMBER: BPVR89-6



LEGEND

1	MONZONITE TO SYENOMONZONITE	
2	ANDESITE DYKE	
3	DIORITE PORPHYRY	
4	SILTSTONE	
5	ALTERED PYRITIC FRAGMENTAL	
6	ANDESITE	a flow b fragmental
7	LATITE	a flow b fragmental
8	TRACHYTE	a dyke b flow c fragmental
9	HYBRID ZONE (mixed intrusive & volcanic)	

% Cu, g/t Au
included interval of high grade

20 10 0 20 40
METRES

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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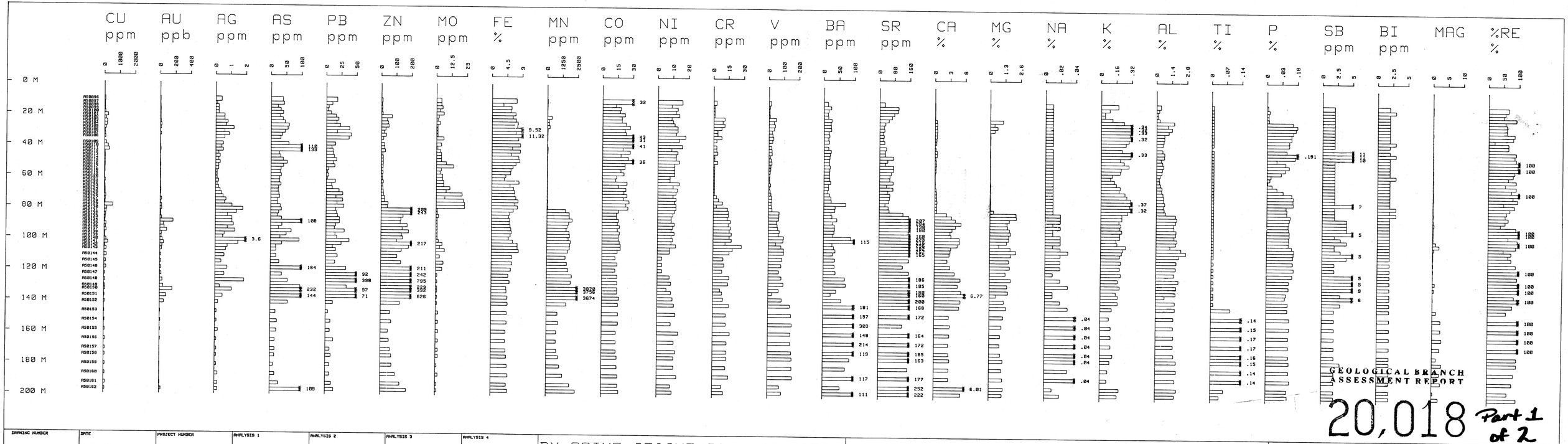
BP Resources Canada Limited
MINING DIVISION

CHUCHI PROJECT
DRILL SECTION
CH89-4,5,6
LOOKING NE

SCALE: 1:1000		DRAWN BY: W.H.	FIG. 23
DATE: 11/89	REV.	DRAFTED BY: CHONG	
N.T.S. 93N-12,7,8	PROJ.: 10144	REPORT: BPVR 89-6	

CHONG



GEOLOGICAL BRANCH
ASSESSMENT REPORT

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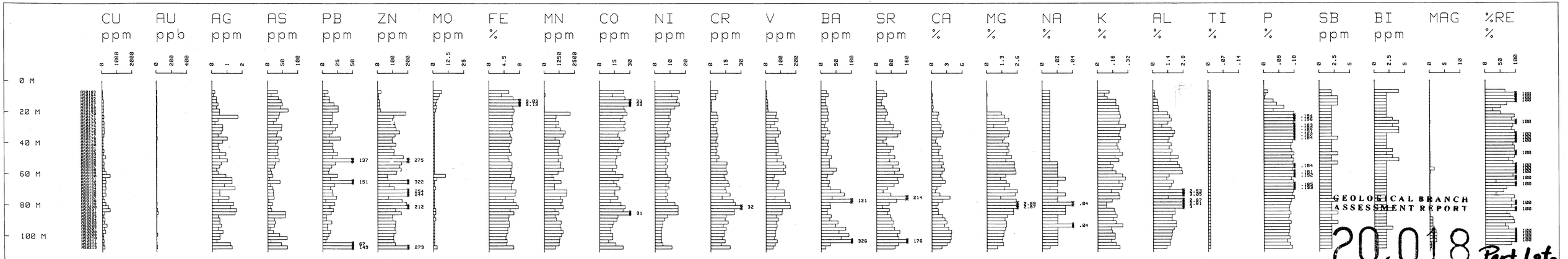
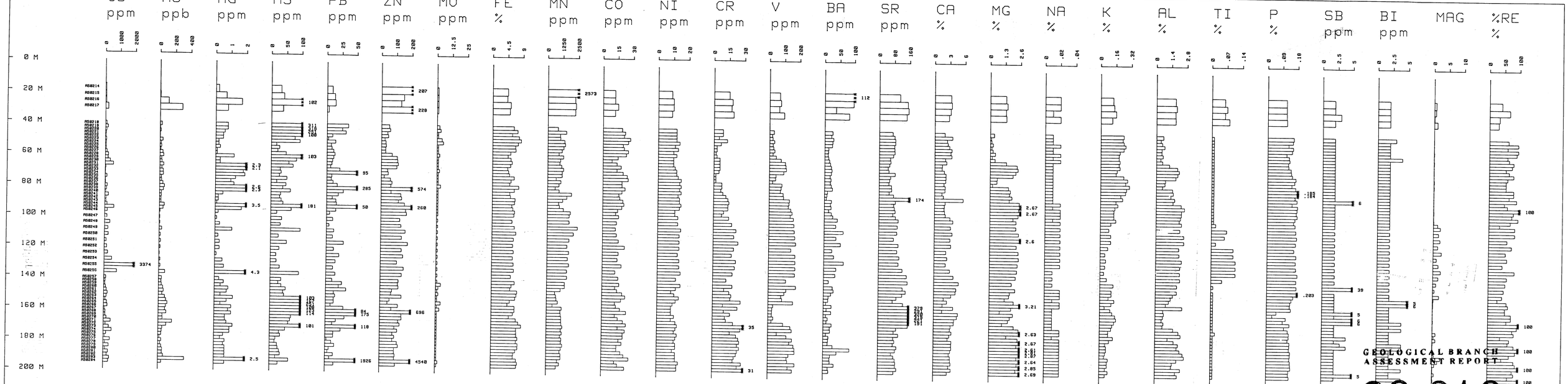
DRAWING NUMBER	DATE	PROJECT NUMBER	ANALYSIS 1	ANALYSIS 2	ANALYSIS 3	ANALYSIS 4
	OCT/89	540	GOLD	MULTIELEMENT		
DRAWN BY	SCALE	NTS	LAB METHOD 1	LAB METHOD 2	LAB METHOD 3	LAB METHOD 4
SJH	1:1000	93N/7	AQUA REGIA	ICP-AR		

BY PRIME GEOCHEMICAL METHODS
BP RESOURCES CANADA LIMITED

PROJECT NAME: CHUCHI LAKE
DRILLHOLE NUMBER: CH-89-04
FIGURE NUMBER: 24.
REPORT NUMBER: BPVR89-6



DRAWING NUMBER	DATE	PROJECT NUMBER	ANALYSIS 1	ANALYSIS 2	ANALYSIS 3	ANALYSIS 4	BY PRIME GEOCHEMICAL METHODS	PROJECT NAME	FIGURE NUMBER
	OCT/89	540	GOLD	MULTIELEMENT			BP RESOURCES CANADA LIMITED	CHUCHI LAKE	25.
DRAWN BY	SCALE	NTS	LAB METHOD 1	LAB METHOD 2	LAB METHOD 3	LAB METHOD 4		DRILLHOLE NUMBER	REPORT NUMBER
SJH	1:1000	93N/7	AQUA REGIA	ICP-AR				CH-89-05	BPVR89-6



GEOLOGICAL BRANCH
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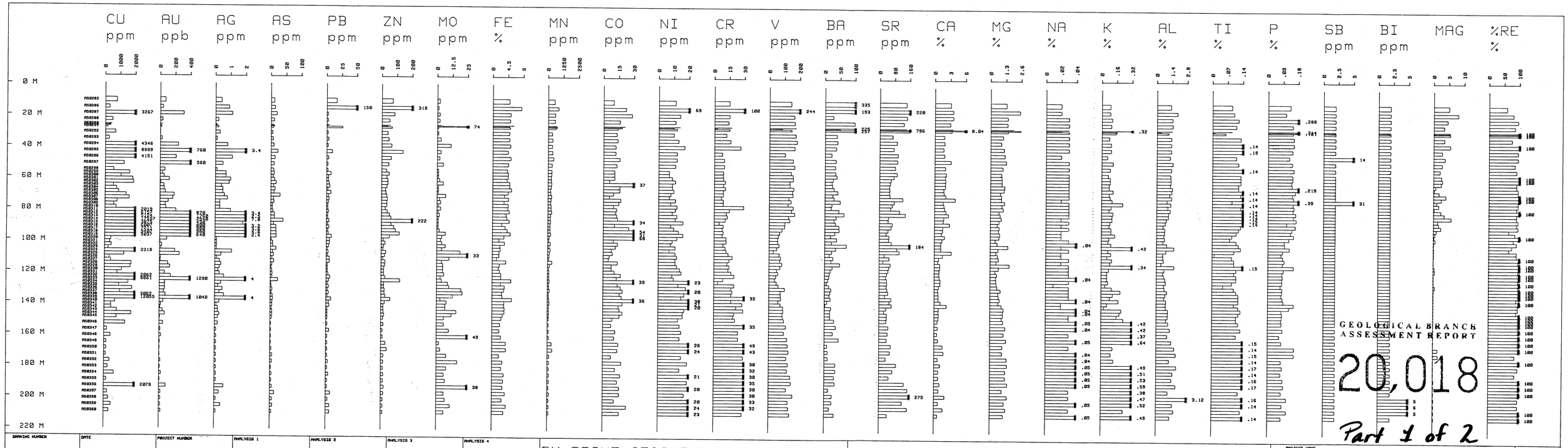
DRAWING NUMBER	DATE	PROJECT NUMBER	ANALYSIS 1	ANALYSIS 2	ANALYSIS 3	ANALYSIS 4
	OCT/89	540	GOLD	MULTIELEMENT		
DRAWN BY	SCALE	NTS	LAB METHOD 1	LAB METHOD 2	LAB METHOD 3	LAB METHOD 4
SJH	1:1000	93N/7	AQUA REGIA	ICP-AR		

BY PRIME GEOCHEMICAL METHODS
BP RESOURCES CANADA LIMITED

PROJECT NAME	FIGURE NUMBER
CHUCHI LAKE	26.
DRILLHOLE NUMBER	REPORT NUMBER
CH-89-06	BPVR89-6



DRAWING NUMBER	DATE	PROJECT NUMBER	ANALYSIS 1	ANALYSIS 2	ANALYSIS 3	ANALYSIS 4
	OCT/89	540	GOLD	MULTIELEMENT		
DRAWN BY	SCALE	NTS	LAB METHOD 1	LAB METHOD 2	LAB METHOD 3	LAB METHOD 4
SJH	1:1000	93N/7	AQUA REGIA	ICP-AR		

BY PRIME GEOCHEMICAL METHODS

BP RESOURCES CANADA LIMITED

PROJECT NAME	FIGURE NUMBER
CHUCHI LAKE	29.
DRILLHOLE NUMBER	REPORT NUMBER
CH-89-07	BPVR89-6

11,100N

11,000N

10,900N

CH89-07
-46°, Az 180°

El. 1400m

El. 1300m.

El. 1200m.

.29, .27
14 m.

.76, 1.13
16m

.28, .32
100m

.39, .35
16m

1

4

1

4

2

4

1

4

EOH 210.9m

SECTION 10,045E

LEGEND

1	MONZONITE TO SYENOMONZONITE
2	ANDESITE DYKE
3	DIORITE PORPHYRY
4	SILTSTONE
5	ALTERED PYRITIC FRAGMENTAL
6	ANDESITE a flow, b fragmental
7	LATITE a flow, b fragmental
8	TRACHYTE a dyke, b flow, c fragmental
9	HYBRID ZONE (mixed intrusive & volcanic)

% Cu, g/t Au
— included interval of high grade

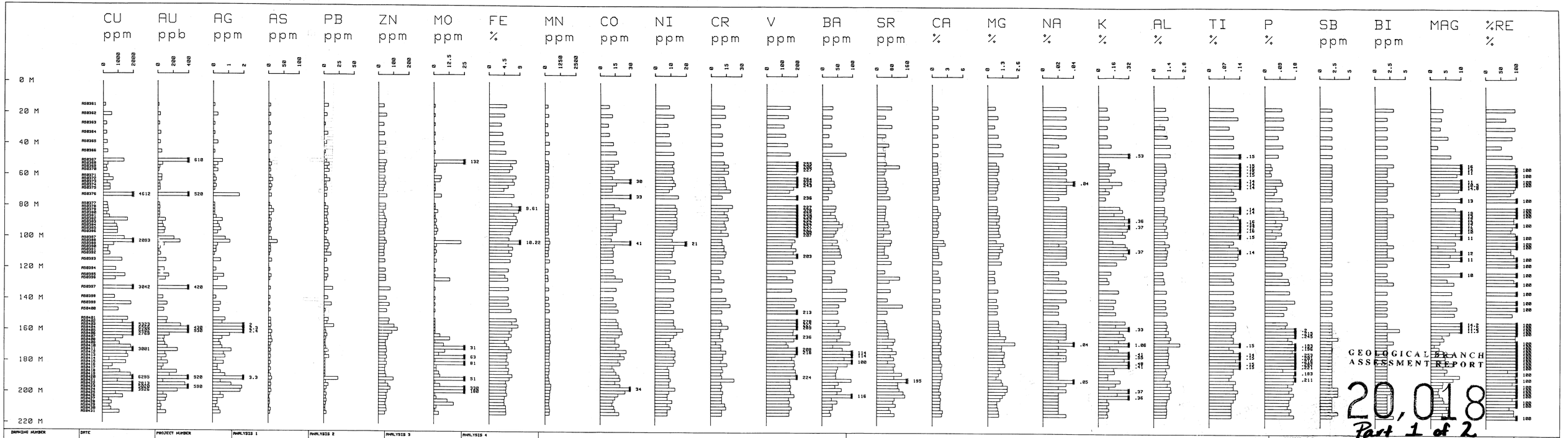
20 10 0 20 40
METRES

BP Resources Canada Limited
MINING DIVISION

CHUCHI PROJECT
DRILL SECTION
CH 89-7
LOOKING E

SCALE: 1:1000		DRAWN BY: W.H.	FIG. 28
DATE: 11/'89	REV.:	DRAFTED BY: CHONG	
N.T.S. 93N-1,2,7,8	PROJ.: 10144	REPORT: BPVR 89-6	

CHONG



GEOLOGICAL BRANCH
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DRAWING NUMBER	DATE	PROJECT NUMBER	ANALYSIS 1	ANALYSIS 2	ANALYSIS 3	ANALYSIS 4
	OCT/89	540	GOLD	MULTIELEMENT		
DRAWN BY	SCALE	NTS	LAB METHOD 1	LAB METHOD 2	LAB METHOD 3	LAB METHOD 4
SJH	1:1000	93N/7	AQUA REGIA	ICP-AR		

BY PRIME GEOCHEMICAL METHODS
BP RESOURCES CANADA LIMITED

PROJECT NAME	FIGURE NUMBER
CHUCHI LAKE	31.
DRILLHOLE NUMBER	REPORT NUMBER
CH-89-08	BPVR89-6

CH89-09 (projected)
-65°, Az.065°

CH89-08
(projected)
-47°, Az. 284°

CH89-07
(projected)
-46°, Az. 180°

9700E
9800E
9900E
10,000E

El. 1500m
El. 1400m.
El. 1300m.

.43, .55
6m

.25, .24
48m

.31, .37
14m

.11, .20
16m

EOH 188.1m
EOH 214.0m

.29, .27
14m

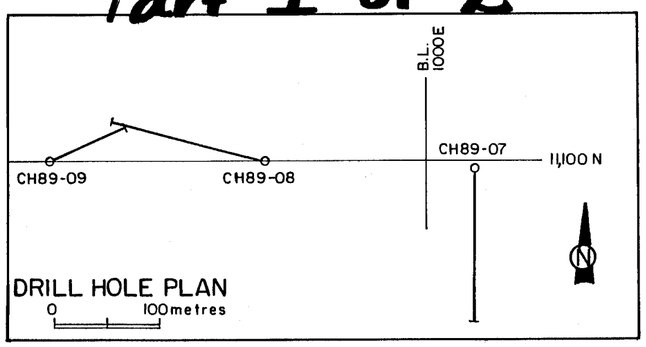
.35, .47
44m

.76, 1.13
16m

.39, .35
16m

EOH 210.9m

SECTION 11,100 N.



LEGEND

1. MONZONITE TO SYENOMONZONITE
2. ANDESITE DYKE
3. DIORITE PORPHYRY
4. SILTSTONE
5. ALTERED PYRITIC FRAGMENTAL
6. ANDESITE a flow; b fragmental
7. LATITE a flow; b fragmental
8. TRACHYTE a dyke; b flow; c fragmental
9. HYBRID ZONE (mixed intrusive & volcanic)

% Cu, g/t Au
included interval of high grade

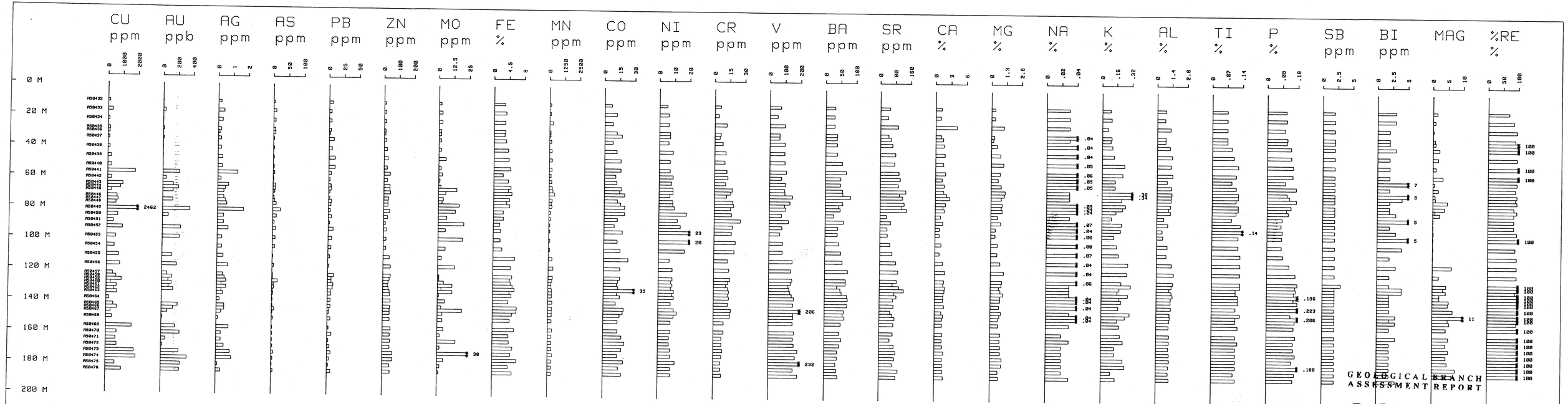
20 10 0 20 40
METRES

BP Resources Canada Limited
MINING DIVISION

CHUCHI PROJECT
DRILL SECTION
CH89-7, 8, 9
LOOKING N.

SCALE: 1:1000		DRAWN BY: W.H.	FIG. 30
DATE: 11/89	REV.:	DRAFTED BY: CHONG	
N.T.S. 93N-1,2,7,8	PROJ.: 10144	REPORT: BPVR 89-6	

CHONG



GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,018 Part 1 of 2.

DRAWING NUMBER	DATE	PROJECT NUMBER	ANALYSIS 1	ANALYSIS 2	ANALYSIS 3	ANALYSIS 4	BY PRIME GEOCHEMICAL METHODS
	OCT/89	540	GOLD	MULTIELEMENT			BP RESOURCES CANADA LIMITED
DRAWN BY	SCALE	NTS	LAB METHOD 1	LAB METHOD 2	LAB METHOD 3	LAB METHOD 4	
SJH	1:1000	93N/7	AQUA REGIA	ICP-AR			

PROJECT NAME	CHUCHI LAKE
DRILLHOLE NUMBER	CH-89-09
FIGURE NUMBER	32.
REPORT NUMBER	BPVR89-6