REPORT ON PHASE III GEOLOGY, LITHOGEOCHEMISTRY, SOIL GEOCHEMISTRY, IP SURVEYS AND DIAMOND DRILL PROGRAM

CONTACT 1-3 AU GROUP
FLORES ISLAND, B.C.
(Contact 1, Contact 2, Contact 3, Au Claims)

Alberni Mining Division
NTS 92E/8E 49°17.6'N Lat., 126°04.4'W Long.

for
PARALLAX DEVELOPMENT CORPORATION

September 26, 1988

C. Naas, B.Sc.
Volume I of II

Part 1 of 2

MPH

SUMMARY

Phase III exploration on the company's 100% owned Contact and neighbouring 90% owned Au properties was successfully completed between May 1988 and July 1988. The Contact Au property is situated on Flores Island, off the west coast of Vancouver Island and consists of 31 claim units. The result of this work has demonstrated an improvement in gold grades and mineralization potential, thereby resulting in a further recommendation for another $500,000 expenditure which, again, concentrates on further drilling.

Work by previous operators in the 1960's and 1970's resulted in the discovery of skarn and vein type mineralization hosted by Upper Paleozoic Sicker Group volcanics, Vancouver Group volcanics, Westcoast Complex and Westcoast dioritic intrusives.

Nineteen eighty-six and '87 work by Parallax Development Corporation resulted in the definition of the Main Grid and McNeil Peninsula skarn horizons. The Main Grid zone was shown to be 1 km^2 in size, with surface results to 23.7 g/t (0.692 oz/ton) Au, 713.1 g/t (20.798 oz/ton) Ag, 26.24% Cu, 4.16% Zn, 60,939 ppm As, and drill results to 1.19 g/t (0.035 oz/ton) Au over 1.93 m (hole 6), and 0.78 g/t (0.023 oz/ton) Au over 1.83 m (hole 7). Drilling demonstrated that the zone was up to 14 m thick and consisted of magnetite, chalcopyrite, pyrite, sphalerite and arsenopyrite with high gold and silver values. The McNeil Peninsula skarn horizon was also drilled and was shown to be 25 m thick and consisted of magnetite, chalcopyrite, pyrite, sphalerite and arsenopyrite with the best intercept in hole 8 being 1.17 g/t (0.034 oz/ton) Au over 0.73 m. High grade mineralization in quartz veins adjacent to the McNeil skarn horizon assayed up to 600 g/t (17.50 oz/ton) Au and 332.6 g/t (9.70 oz/ton) Ag.

The work program of 1988 was divided between the Main Grid and the McNeil Peninsula Grid, as follows:

	Main Grid	McNeil Peninsula Grid	Total
Geology	2 km^2	1 km^2	$ 32,530
Linecutting	-	5.17 line-km	4,672
Soil Geochemistry Survey	0.25 line-km	7.25 line-km	6,580
Induced Polarization Survey	-	4.05 line-km	15,668
Diamond Drilling	605.03 m	1039.06 m	241,498
Road Building	1.07 km	-	24,081
Consulting			19,184
Report Writing			25,557
Administration			30,230
			$400,000

The results of the 1988 work program have completed the geophysical picture on the McNeil Peninsula by further outlining the 20 to 150 msec chargeability and 20 to 800 Ohm-m resistivity anomalies along a strike of 700 m. The soil geochemistry has proved coincident, although spotty, anomalous values greater than 50 ppb Au, 150 ppm As, 20 ppm Co, 70 ppm Cu, 80 ppm Zn, and 0.85 ppm Ag in the same dimensions as that demonstrated by the Induced Polarization surveys. Geological mapping and surface sampling have demonstrated skarn horizons also within these coincident geophysical/geochemical anomalies, with values up to 2.43 g/t (0.071 oz/ton) Au, 149.9 g/t (4.372 oz/ton) Ag, and 54,828 ppm Cu on the Main Grid and 7.13 g/t (0.208 oz/ton) Au and 702 g/t (20.475 oz/ton) Ag over 2 m from the McNeil Peninsula Grid. The skarn occurs at the limestone-limy volcanic/quartz diorite contact which consists of massive diopside, calc-silicates, recrystalized limestone and sulphide mineralization with high gold and silver values.

Drill testing of 1309.06 m in 13 holes using 6 setups on the McNeil Peninsula Grid has improved the results over the last program. The most significant intersections are as follows:

Drillhole	Interval (m)	Width (m)	Au g/t	Au (oz/ton)	Other (ppm)	
CA88-6	54.15-54.82	0.68	0.96	(0.028)		
CA88-7	44.06-44.57	0.51	3.48	(0.102)		
CA88-8	29.38-32.98	3.60	0.62	(0.018)	4.3 Ag	986 Zn
incl.	31.36-31.55	0.19	3.57	(0.104)		
CA88-9	31.73-35.51	3.78	2.30	(0.067)		
incl.	34.32-35.35	1.03	7.66	(0.223)	6.6 Ag	974 Cu 86000 As
CA88-10	16.41-19.37	2.96	1.75	(0.051)		950 Co
incl.	17.19-17.72	0.53	3.70	(0.108)		2164 Co
	25.15-25.91	0.76	1.76	(0.051)		
incl.	25.25-25.41	0.16	5.79	(0.169)	7.6 Ag	2522 Cu
	53.95-54.67	0.72	1.22	(0.035)	26.1 Ag	7014 Cu
	72.92-73.55	0.63	0.99	(0.029)		
CA88-12	21.25-21.94	0.69	0.87	(0.026)		

Four other high grade quartz veins have been identified in addition to the other two that were already known, with surface results to 390 g/t (11.375 oz/ton) Au, and 278 g/t (8.108 oz/ton) Ag. The wallrock of these quartz veins returned up to 0.58 g/t (0.017 oz/ton) Au and 10.9 g/t (0.318 oz/ton) Ag over 15 cm.

Diamond drilling of 372.16 m in 3 holes from one setup on the Main Grid proved the flat-lying nature of the skarn horizon with intersections of 55 m of highly altered and mineralized rock containing pyrite, chalcopyrite, sphalerite and arsenopyrite mineralization. The best intersection was in hole CA88-16 with 890 ppb Au, 3.5 ppm Ag, 18,395 ppm As and 366 ppm Co over 0.51 m.

Of particular importance in results of the 1988 program is the demonstration of the flat-lying nature of the skarn horizons as well as the structural overprint that may control high-grade gold mineralization. This structural overprint strikes 320° with a 50°NE dip in a trend that may correlate between the Main Grid and the Peninsula high-grade quartz vein areas.

Based on encouraging results of the 1988 program, a further follow up of the Main Grid skarn zone and detailed drilling in the area of the most favourable results on the McNeil Peninsula skarn horizons is recommended at a cost of $500,000.

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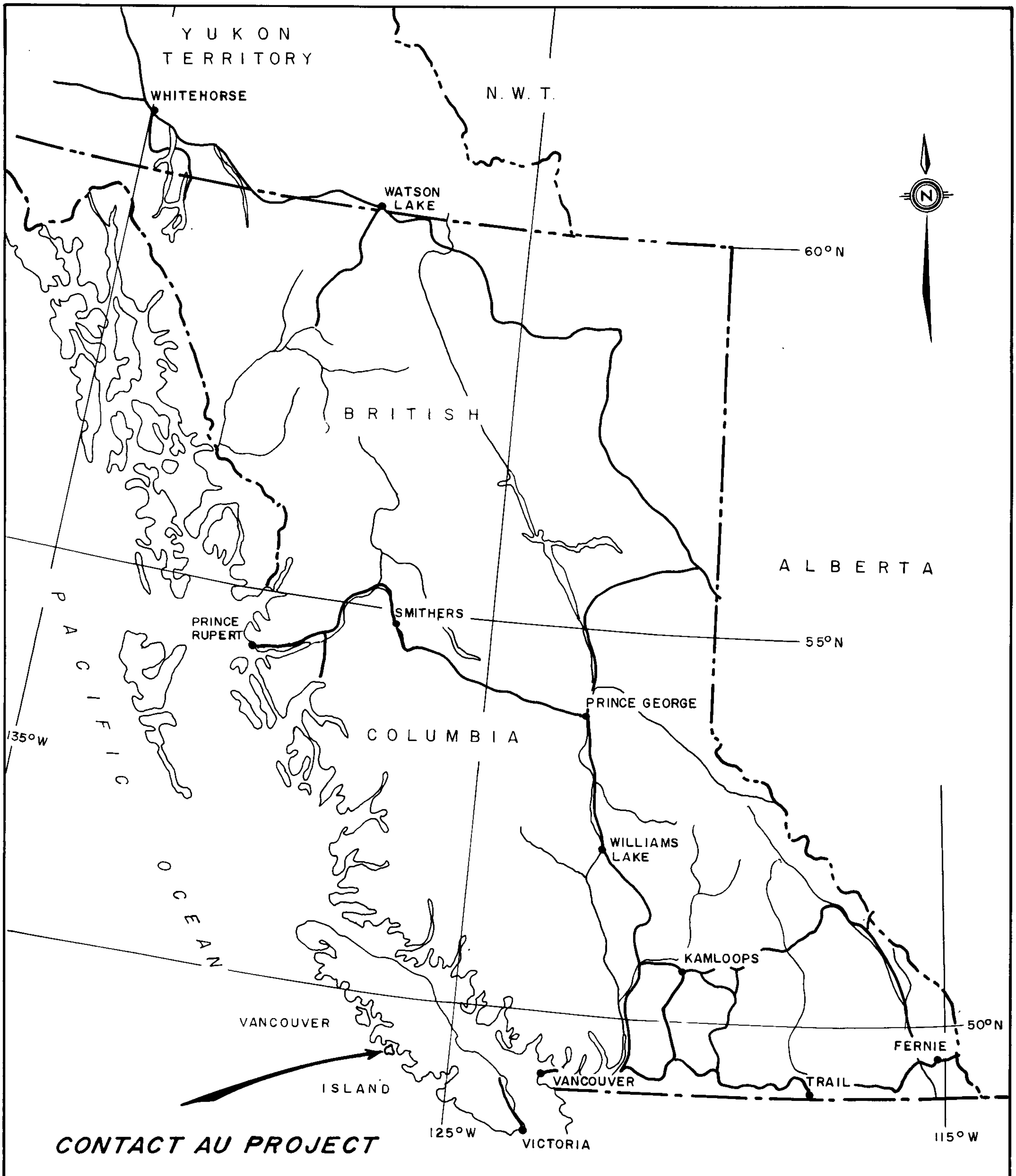


PARALLAX DEVELOPMENT CORPORATION

GENERAL LOCATION MAP

CONTACT AU PROJECT
FLORES ISLAND, B. C.
ALBERNI M.D.

Project No:	V 248 - 3	By:	T. N.
Scale:	1 : 8 000 000	Drawn:	J. S.
Drawing No:	1	Date:	SEPTEMBER 1988.

MPH **MPH Consulting Limited**

1.0 INTRODUCTION

This report documents the Phase III exploration program conducted between May 10, 1988 to July 19, 1988 at the request of R. Tsuida of Parallax Development Corporation.

The objectives, results and conclusions of the Phase III geologic mapping, rock sampling, diamond drilling, soil and IP surveys, and minor trenching program are included. The work was headed by the author, Mr. C. Naas, B.Sc., project geologist with MPH Consulting Limited. This work follows the encouraging results from the preliminary phase of work and the Phase I and II diamond drill program which concentrated in the area of the main grid on Flores Island (Hawkins, 1987, Ryback-Hardy, 1988).

Included within this report are discussions of the regional geology as well as previous work and economic setting of the area.

The Phase III program work concentrated in the area of the McNeil Peninsula and the sulphide bearing magnetite zone on Flores Island. The previous phase had focussed on the 'Main Grid' situated on the main part of Flores Island. The general distribution of the skarn zone was outlined by IP and diamond drilling. The majority of the geologic mapping and rock sampling was conducted along the coastline of the McNeil Peninsula and areas covered by grid. Particular attention was directed to the structural features which are most likely a controlling factor with regard to mineralization.

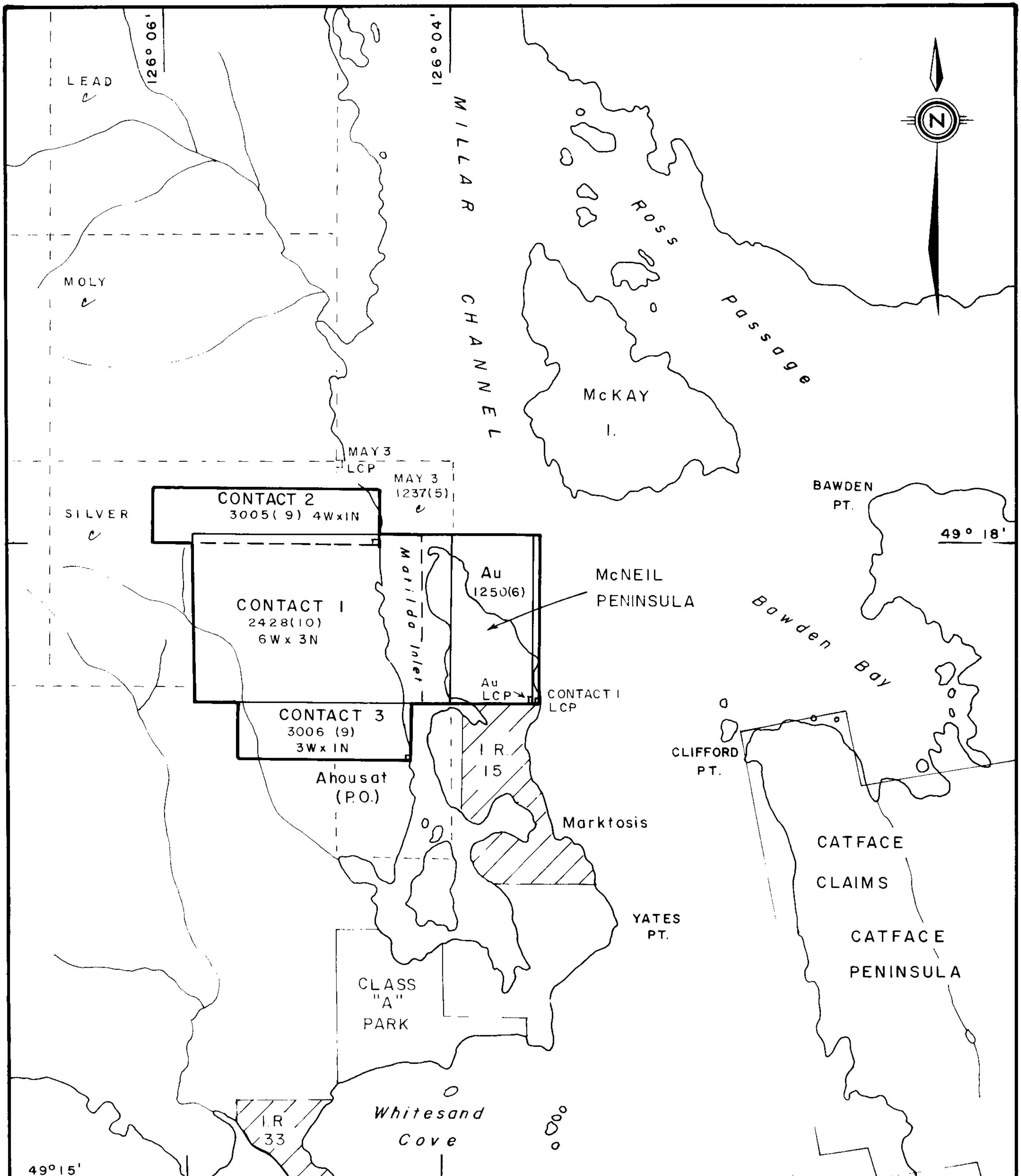
2.0 LOCATION, ACCESS, TITLE

The Contact 1-3 Au Group of claims is located approximately 20 km northwest of Tofino on the southeastern portion of Flores Island, in the Alberni Mining Division of British Columbia. They are centred at approximately 49°17.6'N latitude, 126°04.4'W longitude on NTS mapsheet 92E/8E (Figures 1, 2).

From Port Alberni, Highway 4 runs westerly for approximately 120 km to Tofino, where access to the southeast portion of Flores Island is gained by float plane, helicopter or boat for a distance of approximately 20 km northwest. The property itself is located 2 km northwest of the small Indian village of Marktosis. The Legal Corner Post of the Contact 3 claim is located 50 m west of the end of the public dock in the village of Ahousat. A small boat is necessary to gain access to the eastern portion of the property located on the McNeil Peninsula which is separated from the rest of the property by Matilda Inlet.

Flores Island terrain is very rugged, with elevations ranging from sealevel to 850 m (Mt. Flores). The island is covered in forests of Douglas fir and western red cedar, as well as dense undergrowth (salal) and windfall. A network of trails leads to various old workings on the claims, however there are no driveable roads on the property.

Claim information is as follows:



NTS 92E/8E

0 1 2 km

PARALLAX DEVELOPMENT CORPORATION

CLAIM MAP

CONTACT AU PROJECT
FLORES ISLAND, B.C.
ALBERNI M.D.

Project No:	V 248 - 3	By:	H.E.
Scale:	1 : 50 000	Drawn:	J.S.
Drawing No:	2	Date:	SEPTEMBER 1988.

MPH Consulting Limited

Claim	Record No.	Units	Owners	Anniversary Date	Year Recorded
Contact 1	2428(10)	18	Parallax Development Corporation	Oct. 17, 1998	1984
Contact 2	3005 (9)	4	"	Sept. 12, 1998	1986
Contact 3	3006 (9)	3	"	Sept. 12, 1998	1986
Au	1250(6)	6	Au Resources	June 16, 1998	1981
	Total	31			

A Bill of Sale dated December 3, 1986 transferred 100% ownership of the Contact 1, 2, and 3 claims from Robert Tsuida, Walter Carlson and Robert Harvey Day to Parallax Development Corporation, which operates the claims.

On September 14, 1987, an agreement between Parallax Development Corporation and Au Resources Ltd. was signed. Parallax Development Corporation may purchase a 90% interest in the Au claim with an option to acquire the remaining 10%.

The 'Contact 1-3 Au Group' was grouped by Notice to Group number 1261 on November 27, 1987.

3.0 PREVIOUS WORK

Government geological work in the area includes mapping by Hayrock and Webster of the Geological Survey of Canada beginning in 1902. Later work includes surveying in 1920 by Dolmage, and geological reconnaissance by M.F. Bancroft (1937). Jeletzky (1950, 1954) carried out detailed examinations of Mesozoic and Tertiary sediments to establish the stratigraphy of the area. Published annual reports from the British Columbia Department of Mines show records of investigations of mineral deposits in the region. The Ormond Showing (Cu, Ag, Au) was examined in 1928 and 1930, and followed up during the 1930's by trenching across the strike of the mineralized zone and driving an inclined shaft to intersect this zone at depth. A report on the geology and mineral deposits of the Nootka Sound map area by Muller, Cameron, and Northcote, for the Geological Survey of Canada, was published in 1981.

An IP survey conducted by Van West Minerals in 1962 resulted in the delineation of a good conductor associated with pyrrhotite mineralization, located in the most southeast portion of the Silver claim which is now the Contact 1 claim (Sutherland and Bell, 1962).

Soil and silt sample surveys were carried out by Falconbridge Nickel Mines Ltd. in the central and western portions of the Moly and Gold claims located just north and northwest of the Contact 1, 2, 3 claims, resulting in local anomalous copper concentrations.

A soil geochemical survey conducted by Western Mines Ltd. in 1972 on the May 1 and May 2 claims west of the Contact 1, 2, 3 Group did not uncover significant base metal concentrations to warrant further work at the time.

In 1974, Wesfrob Mines Ltd. mapped a small portion of the Moly claim (just north of Contact 2 claim) to assess the potential for copper mineralization, however only minor amounts of chalcopyrite were found.

The Gold and Copper claims, to the northwest of the property were staked by Clear Mines Ltd. in early 1979. Airborne geophysical work included magnetometer, VLF-EM and radiometric surveys by D.G. Mark and Associates in July 1979 (Mark, 1980).

The magnetic survey confirmed the 'Cliff Zone' base metal showing, in the form of a magnetic low, as well as aiding in differentiating lithologies. The radiometric data also outlined the Tertiary Intrusions due to the relatively high potassium content. Geophysical work was followed by soil sampling and subsequent rock sampling and examination of the gold showings. Grab samples taken from the Ormond Showing returned copper and silver concentrations up to 6.07% and 139.9 g/t (4.08 oz/ton) respectively.

During the summer of 1985, Parallax Development Corporation collected two rock samples from a trench on the central Contact 1 claim, which contained up to 205.0 g/t (5.98 oz/ton) Ag, and up to 3.29 g/t (0.096 oz/ton) Au. Another sample taken during the summer of 1986 from this trench returned values of 54.5 g/t (1.59 oz/ton) Au, 180.7 g/t (5.27 oz/ton) Ag, and 4.80% Cu. The most significant results however are from an old adit on the Contact 2 claim northeast of the Ormond Showing, from which concentrations of 334.3 g/t (9.75 oz/ton) Au, 397.4 g/t (11.59 oz/ton) Ag, 5.17% Pb, and 2.92% Zn were returned, from one sample.

From September 1, 1987 to February 15, 1988. Phase I and Phase II exploration programs were conducted on the Contact-Au property, under the direction of V. Ryback-Hardy, P.Eng., of MPH Consulting Limited.

The Phase I program entailed line cutting, soil sampling (460), geologic mapping and rock sampling, an IP survey (9.05 line km), trenching (7) and drill pad construction. Phase II diamond drilling (894 m in 10 diamond drillholes) followed.

The best intersections from drillholes include:

	Drillhole No.	**Interval**	**Width of Zone**	**Au Concentration**
Main Grid	DDH 88-6	5.12 - 7.05 m	1.93 m	0.035 oz/ton 1.19 g/t
	DDH 88-7	19.20 - 21.03 m	1.83 m	0.023 oz/ton 0.79 g/t
McNeil Peninsula	DDH 88-8	28.88 - 29.61 m	0.73 m	0.034 oz/ton 1.17 g/t
Grid	DDH 88-9	25.46 - 25.60 m	0.14 m	0.170 oz/ton 5.83 g/t

Further work was recommended to follow up anomalous results and to explore in more detail the mineral potential of the McNeil Peninsula.

4.0 REGIONAL GEOLOGY

The west coast of Vancouver Island in the vicinity of Flores Island, is underlain primarily by metavolcanic and lesser metasedimentary rocks of the Westcoast Complex derived in part from Sicker Group rocks, and a variety of volcanics of the Bonanza Group. These rocks have been intruded by Tertiary age Catface Intrusions on and around Flores Island (Figure 3).

4.1 Sicker Group (CPs)

Muller (1980a) proposed the following subdivision of the Sicker Group, from oldest to youngest: Nitinat Formation, Myra Formation, Sediment-Sill Unit, and Buttle Lake Formation.

In the Nootka Sound map area, the Sicker Group is represented by metamorphosed clastic sediments in roof pendants and along the Muchalat Batholith. It is difficult to determine the total thickness of the Sicker Group here because of intrusive contacts, but it is estimated to be between 300 and 600 m (Muller, Cameron, Northcote, 1981). They are generally in intrusive contact with granitoid rock and commonly interleaved with metabasaltic rocks. These metabasalts are perhaps sills that were emplaced later, possibly in conjunction with the eruption of Karmutsen Formation lavas, in Late Triassic time.

The sills in the roof pendant areas of Muchalat Batholith are massive greenish black, fine to medium grained amphibolite. Thin sections commonly show relict diabasic texture.

4.2 Vancouver Group

The **Karmutsen Formation** (muTK) volcanic rocks unconformably to paraconformably overlie the Buttle Lake Formation limestone to form the base of the Vancouver Group. They are the thickest and most widespread rocks on Vancouver Island. The formation consists mainly of dark grey to black, or dark green, tholeiitic pillow basalt, massive basalt, and pillow breccia. Flows are commonly aphanitic, feldspar porphyritic, and amygdaloidal. Pillow lavas generally occur toward the base of the section.

East of Flores Island, the Karmutsen Formation forms high peaks and mountain ranges, several of which form roof pendants within the Muchalat Batholith. Karmutsen Formation rocks are generally relatively undeformed compared to Sicker Group rocks and are dated Upper Triassic and older.

The Upper Triassic sediments (mainly limestone) of the **Quatsino Formation** (uTQ) are found to the north and east of Flores Island at the head of Tahsis Inlet and are truncated by the Muchalat Batholith. Most of the economic skarn deposits on Vancouver Island are hosted by Quatsino Formation limestone.

4.3 Westcoast Complex

The **Westcoast Complex** (PMsv) comprises a variety of plutonic and metamorphic basic crystalline rocks including amphibolite, diorite, and quartz diorite with homogeneous, agmatitic or gneissic textures. Metamorphosed Karmutsen Formation and/or Sicker Group rocks grade locally into the complex and are believed to be its protolith, having undergone migmatization in

Early Jurassic time. The mobilized granitoid portion of the complex is believed to be the source of the Island Intrusions and, indirectly, the Bonanza Volcanics (Muller, 1981, 1982). Small bodies of recrystallized limestone within the complex are believed to be derived mainly from the Quatsino Formation, and to a lesser extent from the Buttle Lake Formation.

Isachsen (1984) reinterpreted the Westcoast Complex as a mixture of Jurassic intrusives and metamorphosed Karmutsen Formation/ Sicker Group rocks. The intrusive component of the Complex **Westcoast Diorite** (PMdin) varies in composition from trondjhemite to gabbro and is believed to be derived from the mantle rather than Paleozoic/Mesozoic rocks. Consistent U-Pb isotopic dates of 176-189 Ma have been obtained. The Westcoast Diorite intruded the pre-existing Sicker Group and Karmutsen Formation rocks, which were contemporaneously metamorphosed into the **Westcoast Amphibolite** (PMsv).

The Westcoast Amphibolite is locally intimately mixed with Westcoast Diorite, producing Westcoast Migmatite. The Island Intrusions and Bonanza Group are considered to be higher level comagmatic differentiates of the Westcoast Diorite.

In the map area, the Westcoast Complex extends from Nuchatlitz Inlet south across Bligh and Flores Islands. The amphibolite unit consists of foliated metavolcanic rocks (flows, basaltic dykes, and sills) and metasediments (bedded to massive partly silicified carbonates and pelites). These low grade amphibolites exhibit local, generally northwest trending, isoclinal folding (Muller, et al, 1981).

4.4 Island Intrusions

Island Intrusions (Jg) make up batholithic granodioritic and granitic rocks which along with migmatites quartz diorites and tonalites of the Westcoast Complex, comprise about 50% of exposed rocks in the Nootka Sound map area (Muller, et al, 1981). Island Intrusions are widely exposed in the area to the northwest of Flores Island but have not been mapped on the island itself. These intrusions have been assigned a Middle to Upper Jurassic age.

4.5 Bonanza Group

The **Bonanza Group** (LJB) stratigraphy varies considerably, representing parts of several different eruptive centres of a volcanic arc. Basaltic, rhyolitic, and lesser andesitic and dacitic lava, tuff, and breccia with intercalated beds and sequences of marine argillite and greywacke comprise the Bonanza Group. The Bonanza Volcanics are considered to be early extrusive equivalents of the Island Intrusions and therefore of Early Jurassic age. Bonanza Volcanics are in fault contact with Westcoast Complex amphibolites on southwest Flores Island.

4.6 Catface Intrusions (Tg)

Early Tertiary intrusive stocks composed mainly of quartz diorite are common on Vancouver Island. In the Nootka Sound map area they are generally southwest trending, cutting Jurassic and older rocks. K-Ar dating is almost essential to differentiate between certain intrusives as lithologies are similar. On Flores Island, the Tertiary intrusives form a 1.5 km wide belt through the middle of the island (Muller, et al, 1981), intruding amphibolites of the Westcoast Complex.

4.7 Carmanah Group

Tertiary sediments of the Carmanah Group have been mapped on the southwest coast of Vancouver Island. Included in the Carmanah Group are the Escalante, Hesquiat and Sooke Formations.

The **Escalante Formation** (LTE) exposed from Flores Island to Tatchu Point to the northwest, is composed of mainly sandstone and minor conglomerate. Rocks of this formation are discontinuously exposed on Flores Island and typically contain little if any conglomerate within sandstone (50 m thick) (Muller, et al, 1981).

The **Hesquiat Formation** (LTH), striking northwesterly with a shallow southwest dip, underlies the coast and lowlands of Flores Island as well as almost the entire Hesquiat Peninsula, about 15 km northwest of Flores Island. Sequences of clastic rocks are composed of either mainly shale, or of alternating shale, and sandstone/conglomerate units, that overlie the Escalante Formation or are on the pre-Tertiary unconformity.

4.8 Structure

The structure in the Flores Island area has generally resulted from block faulting. Bonanza Group and Island Intrusion rocks have been affected mainly by northerly and westerly trending faults. In the coastal areas, rocks are cut by predominantly northwesterly and, less importantly, northeasterly trending faults. Steep faults may have vertical as well as transcurrent offsets that are difficult to determine due to lack of marker beds. However, faulting is shown to be widespread in the entire area based on supporting evidence of faulting in Tertiary sediments (Muller, et al, 1981). Young hydrothermal activity along structural trends is indicated by active hot springs at Matilda Inlet and at Hot Springs Cove northwest of Flores Island. Both appear to be associated with north-south structures.

4.9 Economic Setting

Contact metasomatic (skarn) deposits, veins and shear zones, and porphyry deposits constitute the major metalliferous deposits in the vicinity of Flores Island. High to moderate mineral potential approximately coincides with areas where Quatsino Formation, Bonanza Formation and Sicker Group rocks are cut by Island Intrusions. Moderate potential for mineralization corresponds to areas underlain by Bonanza Volcanics and Catface Tertiary Intrusions (Muller, Cameron, Northcote, 1981).

Iron and copper skarns are promising targets where Island Intrusions cut Vancouver Group rocks or in the roof pendants of Sicker Group metasediments surrounded by Island Intrusions and Westcoast Complex rocks. Examples of two such deposits have reported limited production. The Glengarry, located at the head of Head Bay, milled 56,700 tonnes of ore which produced 22,680 tonnes of magnetite concentrate. The Indian Chief on Stewartson Inlet shipped 73,600 tonnes yielding 1,102,360 kg of Cu, 22,456 g of Au, and 1,707,400 g of Ag.

Tertiary pluton-associated copper and molybdenum occurrences found on Flores Island assay low copper and molybdenum, however, otherwise have many similarities to the Catface porphyry copper (molybdenum) deposit a few kilometres to the east.

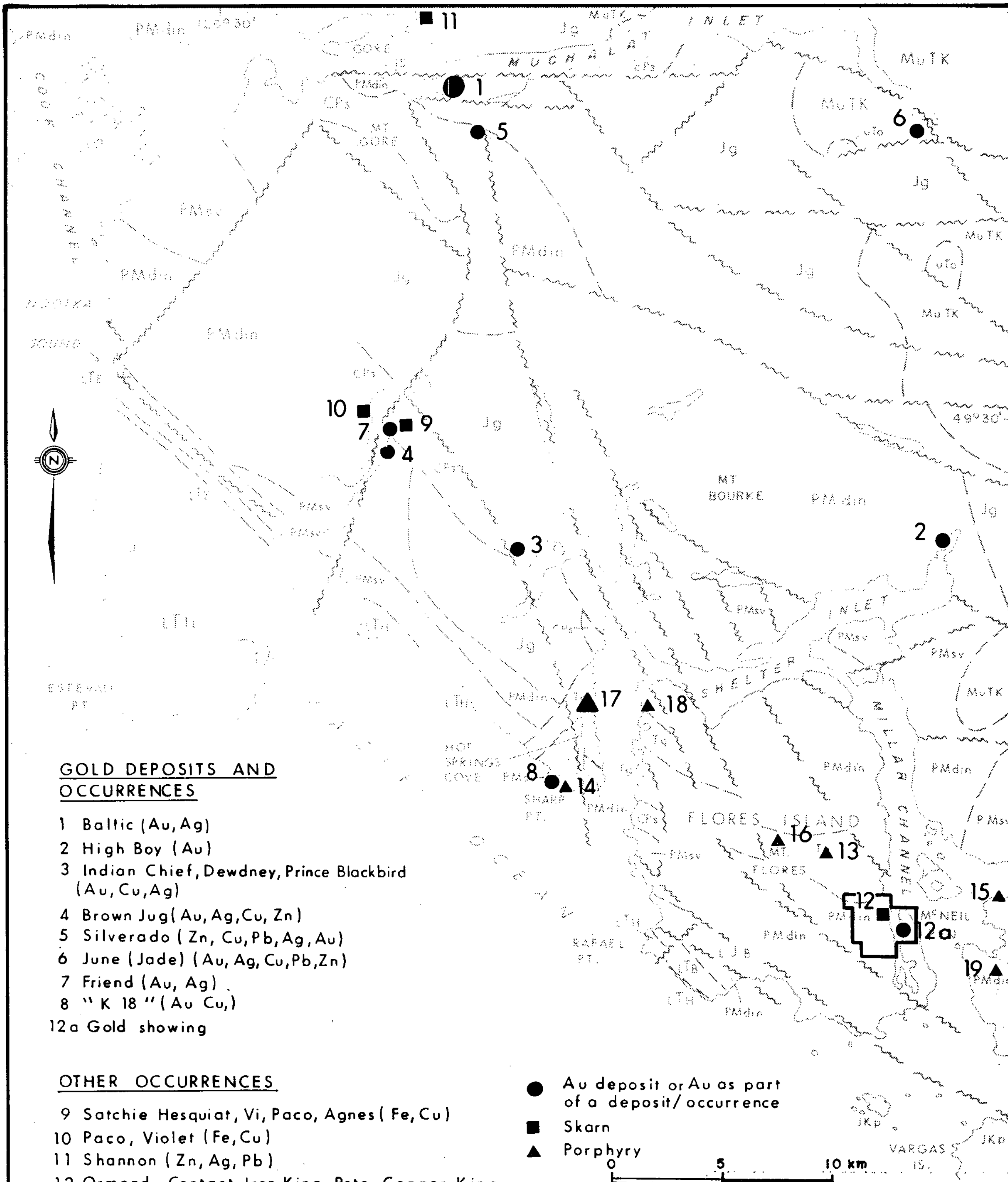
The Catface porphyry copper deposit (Falconbridge) is closely associated with Tertiary intrusions. Its reserves are estimated at 181,440,000 tonnes with 0.45 to 0.50% Cu (1971). Gold, silver and molybdenum occur in minor quantities. According to Northcote (1971), the geology comprises hornfelsic, foliated andesitic to basaltic tuffs of the Sicker Group which have been intruded by at least five separate phases. Two major northerly trending faults occur on either side of the Catface property with a large number of faults occurring between them. Northcote suggests that some of these intrusives were emplaced along fractures.

Chalcopyrite and bornite with some chalcocite occur as dry fracture coatings, in quartz-fllled fractures and as disseminations in the rock matrix. The best mineralization occurs within Sicker Group volcanic rocks and the younger porphyritic intrusive phases, though mineralization is not limited to nor consistently associated with these rock types. The top part of the section near the present erosional surface hosts higher grade mineralization.

The Ormond copper, silver, and iron showing (also known as the Contact showing) occurs on the west side of Matilda Inlet, on the western Contact 2 claim in brecciated shear zones cutting igneous rock. Chalcopyrite, pyrite and pyrrhotite occur in quartz(?) veins 1.2 to 2.4 m wide within a zone approximately 150 m long. Garnet, epidote, calcite and quartz are gangue minerals associated with this mineralized zone.

On the west side of Matilda Inlet there are reported mine workings totalling 1370 m with an ore grade of 103 g/t (3 oz/ton) Ag and 5% Cu. It is not clear whether this grade is representative of the entire workings, nor whether this is at the Ormond Showing location.

The reader is referred to the Hawkins (1987) report for a description of the individual mineral occurrences in the vicinity of Flores Island shown in Figure 4.



GOLD DEPOSITS AND OCCURRENCES

1 Baltic (Au, Ag)
2 High Boy (Au)
3 Indian Chief, Dewdney, Prince Blackbird (Au, Cu, Ag)
4 Brown Jug (Au, Ag, Cu, Zn)
5 Silverado (Zn, Cu, Pb, Ag, Au)
6 June (Jade) (Au, Ag, Cu, Pb, Zn)
7 Friend (Au, Ag)
8 "K 18" (Au Cu,)
12a Gold showing

OTHER OCCURRENCES

9 Satchie Hesquiat, Vi, Paco, Agnes (Fe, Cu)
10 Paco, Violet (Fe, Cu)
11 Shannon (Zn, Ag, Pb)
12 Ormond, Contact, Iron King, Pete, Copper King (Cu, Ag, Fe) bearing vein
13 "JR" (Cu, Mo)
14 "K-15" (Zn, Ag)
15 "JB", "PW", "RW" (Cu)
16 Flow (Cu)
17 Sydney (Cu, Mo)
18 Bay (Cu, Mo, Ag, Tr Au)
19 Catface Copper (Cu)

● Au deposit or Au as part of a deposit/occurrence
■ Skarn
▲ Porphyry

Note: Large symbols— former production

Reference: Muller, Cameron, Northcote (1981), Carson (1969)

NTS 92E/8E

PARALLAX DEVELOPMENT CORPORATION

MINERAL OCCURRENCE MAP

CONTACT AU PROJECT
FLORES ISLAND, B.C.
ALBERNI M.D.

Project No:	V 248-3	By:	H. E.
Scale:	1 : 250 000	Drawn:	J. S.
Drawing No:	4	Date:	SEPTEMBER 1988

MPH Consulting Limited

5.0 PHASE III GEOLOGY

The Phase III exploration program commenced May 10, 1988 and continued through to July 21, 1988. The work was supervised by the author with the assistance of G. Yip, B.Sc., geologist with MPH Consulting Limited.

Geologic mapping and rock sampling was conducted on the McNeil Peninsula in the shoreline areas and the area underlain by the grid, at a 1:2500 scale. The Main Grid area was the focus of some geologic mapping and rock sampling in areas underlain by skarn zones and around old workings. A total of 76 surface rock samples was collected and analyzed by AA and ICP at Acme Labs in Vancouver, B.C.

The proposed 2.3 km road from Ahousat was constructed in part (1.07 km) to provide better access to the property. A suitable operator to complete the road was not found thus the road could not be completed.

Two trenches (totalling 20 m) were opened up to expose skarn zones on the McNeil Peninsula (PT-1 and PT-4). Grab and chip samples were collected from these as well as from hand dug trenches.

Soil sampling was conducted over two grids, the major one on McNeil Peninsula and a small grid over the Main Grid area of Flores Island. A total of 330 samples was collected from 7.5 line km of flagged grid. The McNeil Peninsula Grid lines trend east-west, are spaced 100 m and 50 m apart and were sampled at 25 m intervals. The Main Grid detail has northwest trending lines spaced 10 m with 10 m between sample sites.

An IP survey was conducted along cut lines of the McNeil Peninsula for a distance of 4.05 line km. The survey was conducted under the supervision of Mr. Kevin Lund, B.Sc., geophysicist with MPH Consulting Limited. He is also the author of Section 5.6 of this report.

Diamond drilling followed with 1641 m of NQ core recovered from 18 holes in 9 setups. Holes CA88-1 through CA88-13 were drilled on the McNeil Peninsula and holes CA88-14 through CA88-18 on Flores Island. Soil and drill core samples were analyzed at Acme Labs for Au by AA and by multi element ICP.

Structural analyses of data (Section 5.3) and petrographic studies from Phase II drill core (Appendix VI) are also included in this program.

5.1 Property Geology

The Contact-Au property is underlain by rocks of the Westcoast Complex. Metamorphosed Karmutsen Formation and/or Sicker Group rocks locally grade into this complex and are believed to be its protolith having undergone migmatization in Early Jurassic time. The mobilized granitoid portion of the complex is believed to be the source of the Island Intrusions and, indirectly, the Bonanza Volcanics (Muller, 1981, 1982). Small bodies of limestone found within the complex are believed to be derived mainly from the Quatsino Formation and to a lesser extent from the Buttle Lake Formation.

The Westcoast Complex comprises (i) predominantly heterogeneous amphibolitic country rock (**Westcoast Amphibolite**); (ii) granitoids of trondhjemitic to gabbroic composition (**Westcoast Diorite**); and (iii) variable mixtures of these two components (**Westcoast Migmatite**) (Isachsen, 1987).

For the purpose of this program, the geology has been interpreted in accordance with the subdivisions introduced by Isachsen (Figures 5 and 6).

The Paleozoic to Mesozoic Westcoast Complex comprises Units 1 through 5. Unit 1 comprises metasediments which on the property include white to purplish-white limestone locally containing fine-grained garnet. Overlying Unit 1 are metavolcanics comprising andesitic tuff and ash tuff of Unit 2. Unit 3 dark grey, medium- to fine-grained moderately foliated diorite intrudes the metavolcanics and metasediments which also appear as xenoliths within the diorite. Unit 4 is described as a dark grey to black, very fine-grained moderately foliated amphibolite. The skarn zones, designated Unit 5, are gradational between the lithologies described in Units 1 through 4. The skarn comprises pale green calc-silicates containing massive diopside (Unit 5a) with massive magnetite lenses. Garnet-rich zones occur locally. Sulphides associated with these zones include pyrite, pyrrhotite, arsenopyrite and chalcopyrite.

Tertiary(?) age feldspar porphyritic dykes designated FPD, crosscut the lithologic units described above. Diabasic dykes (DD) are probably Paleozoic in age, and correlative with diabasic dykes of the Sediment-Sill Unit of the Sicker Group.

A petrographic study was conducted using samples which were collected from drillcore recovered during the Phase II program on the Main Grid. A summary and individual descriptions are included in Appendix VI.

5.1.1 Main Grid Geology

The geology of the Flores Island Main Grid area has been discussed in the previous Phase II report (Ryback-Hardy, 1988) as well as the initial report by Hawkins (1987).

Geologic mapping and rock sampling were conducted along the eastern shoreline and over portions of the property covered by the grid, in an attempt to delineate the surface extent of the massive magnetite-bearing zone which had been the main objective of the Phase II drill program.

The skarn horizon designated as Unit 5 on Figure 5 may be more extensive than previously interpreted. It occurs topographically beneath the metavolcanic unit and above the diorite. The skarn horizon is truncated to the north by an east-west striking lineament interpreted as a fault which would explain in part the fact that soil and geophysical (IP) anomalies end abruptly at the fault.

5.1.2 McNeil Peninsula Geology

Surface geologic mapping at 1:2500 scale was conducted along the shoreline and cut grid lines of the McNeil Peninsula. Figure 6 is a plan map of surface geology, outcrop locations, rock sample locations superimposed on a screen topographic base map which includes the location of the grid, diamond drillholes, trenches and old adits. The distribution of the various lithologies is complicated due to the presence of large (several metres) xenoliths within the various diorite as well as volcaniclastic units which are comprised of fragments. Alteration as well as contact metasomatism has also destroyed original textures of the rocks. However the general distribution of the major lithologic units has been outlined.

The metasediments (Unit 1) occur as limestone on the southeastern shoreline of the McNeil Peninsula over a very small area. Metavolcanics (Unit 2) comprising mainly andesitic-appearing crystal and lithic as well as ash tuff occur over a large part of the central McNeil Peninsula as well as the shoreline.

The Westcoast diorite (Unit 3) occurs as large irregularly shaped bodies intruding the metasediments and metavolcanics, especially on the eastern side of the peninsula where the diorite predominates. On the western side of the McNeil Peninsula, the diorite occurs in smaller bodies. Toward the northern portion of the peninsula the diorite appears as an agmatitic and gneissic textured migmatite. Diorite was intersected in all the drillholes on the peninsula and appears to become very fine grained at depth.

Examinations of thin sections of rocks collected during Phase II show that many of the fine-grained rocks are mineralogically similar to the diorite. Xenoliths of mafic volcanic composition commonly occur throughout the diorite and are up to several metres in outcrop. The diorite is weakly to moderately foliated, medium grained to fine grained. Very fine-grained, dark grey to black amphibolite occurs in the southwestern peninsula area. The amphibolite was mistaken for an argillite during Phase II mapping.

The skarn unit (Unit 5) occurs on the west side of the McNeil Peninsula. It comprises white and maroon limestone, pale green calc-silicate rocks, garnet-rich zones local to massive, with pyrite, pyrrhotite, chalcopyrite, arsenopyrite and magnetite. In drill core massive diopside (Unit 5a) occurs within the skarn horizons. The limestone within the skarn does not contain fossils visible to the naked eye. A slight foliation is evident and locally the skarn zones contain units of cherty tuff, suggesting the interfingering irregular nature of the contacts. This skarn zone has been the major target of the Phase II drill program. The intrusive/limestone contact occurs to the south and west and to the north and west of the skarn horizon. The next phase of drilling should test whether a direct contact between intrusive diorite and limestone would be more favourable for mineralization.

Feldspar porphyritic dykes of Tertiary age are probably correlative with Catface intrusions. The feldspar porphyritic dykes (FPD) are from 0.25 m to 5 m thick. Euhedral feldspar crystals up to 2 cm are contained within a dark grey, fine-grained matrix.

On the nearby Catface property the best mineralization occurs within Sicker Group volcanics and the younger porphyritic phases though mineralization is not limited to, nor consistently associated with these rock types.

5.2 Mineralization

Gold occurs in both quartz veins and within skarn zones on the Contact-Au property. Higher gold grades are associated with the quartz veins, however the skarn zones are more widespread.

Auriferous quartz veins located along the western shoreline of McNeil Peninsula range from 1 cm to 5 cm in width, with a northwest strike and moderate to steep northwesterly dip. The blue-grey quartz vein, chip sampled across 10 cm, containing up to 390.6 g/t (11.39 oz/ton) Au, 278.1 g/t (8.1 oz/ton) Ag is hosted by metavolcanics (Sample 9011). This vein also contains highly anomalous lead, zinc and arsenic and anomalous copper in the form of galena, sphalerite, arsenopyrite and chalcopyrite. Samples 9010 and 9012 are chip samples collected from outcrop of the footwall and hanging wall of the auriferous quartz vein. These samples contained 2.1 g/t (0.068 oz/ton) and 2.9 g/t (0.085 oz/ton) gold respectively in addition to anomalous concentrations of Ag, As, Pb and Zn.

The majority of the quartz veins sampled in outcrop contained anomalous gold with the exception of those lacking or low in sulphides or those samples of quartz which do not appear to occur in veins. The following table summarizes the concentrations of base and precious metal elements which are associated with these quartz veins sampled during Phase III only. The assay results have been rounded off to three significant figures for concentrations expressed in grams per tonne.

Sample	Type	Width (cm)	Sulphides	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Other (ppm)
9004	Grab	2	2-3% Asp, Py, trace Cp	95	0.1	887	60	
9005	Grab	3	Sph, Asp, Py	2350	0.8	1.6%	26	870 Zn
9008	Chip	15-20	tr diss. Py	119	1.1	25	902	
9009	Chip	1-5	25% Py 5% Asp	50.3 g/t	44.6 g/t	7.2%	612	1.1% Pb 2.0% Zn
9011	Chip	7-10	10% Asp 2-3% Py	390 g/t	278 g/t	2.0%	1212	1.6% Pb 0.8% Zn
9012	Chip	15	3% Cp 1% Po	0.58 g/t	10.9 g/t	2625	2252	1108 Co
9024	Grab	3	10-20% fine grained Sph, Gl, Py, minor Cpy	10.5 g/t	5.7 g/t	2.0%	194	3381 Pb 1504 Zn
9025	Grab	3	5-7% Asp, 1-2% Cp 2-3% Gl and Sph	120 g/t	105 g/t	10%	1325	1.3% Pb 5.3% Zn

Note: Percentages do not imply that assays were performed. These high grade quartz veins will be one of the major drill targets in the next phase of exploration. They will also be the focus of detailed mapping on the surface.

Contact metamorphism is evident on the main part of Flores Island as well as on the McNeil Peninsula. It occurs at the contact between limestone and volcanics and underlying diorite intrusive. Minerals associated with the skarn include magnetite, calc-silicates (mainly diopside), epidote and garnet, as well as rare graphite. Quartz-carbonate veins occur in these zones also. Diopside occurs in massive layers up to several metres thick as well as in banded form.

The skarn zones occur at the contact between limestone (originally) or calcareous metavolcanics and Westcoast diorite which underlies most of the McNeil Peninsula as it was intersected at the end of each drillhole. Skarn zone contacts are gradational, and irregular extending up to 2 m into both the overlying metavolcanics and the diorite.

Sulphides appear to be concentrated in the massive diopside units in which gold is closely associated with arsenopryite. The recrystallized limestone does not appear to contain high percentages of sulphides.

The skarn horizon contains anomalous concentrations of Au, Ag, Cu, Zn, Co and As. The main skarn horizon strikes northwest 700 m, parallel to the regional structural trend, and includes layers of sulphide mineralized horizons ranging from less than 1 m to 18 m thick. It is approximately 200 m across in an east-west direction.

Magnetite (massive) occurs as lenses and pods locally throughout the skarn. Sulphides associated(?) with the massive magnetite include pyrite, pyrrhotite, chalcopyrite, arsenopyrite and sphalerite. Gold occurs locally within the massive magnetite however it appears to be associated with the sulphides present in the magnetite. Both DDH CA88-10 and Trench MT-1 include samples of massive magnetite with anomalous gold. Anomalous cobalt occurs with skarn mineralization. Very little lead occurs with the skarn zones.

On the Main Grid on Flores Island, the skarn occurs over a 1 km^2 area (to be proven by drilling) and may be up to 50 m thick. Detailed mapping and additional drilling is necessary to determine the orientation of the skarn horizon.

The lower contact of skarn zones on both the Main Grid and the McNeil Peninsula Grid are with diorite. The Main Grid has been interpreted as one continuous horizon yet the McNeil Peninsula Grid skarn may comprise several layers. The geology and predictability of skarn zones on the McNeil Peninsula are much more comlex and difficult.

The mineral assemblage of the skarn, the general lack of lead, the presence of anomalous cobalt and the dioritic composition of the intrusive closely resemble the 'calcic magnetite skarn' of Einaudi, et al. (1981).

Mineralization in Trenches

The PT-1 and PT-4 trenches were blasted open with minor hand trenching at L4+50N, 0+15W and L7+50N, 0+80W on the McNeil Peninsula.

PT-1, shown at an approximate 1:1000 scale in Figure 6, contains a zone of massive magnetite exposed over 4 m. Calcite veins occur in this zone. A 2 m wide section of chalcopyrite, arsenopyrite and pyrite occurs at the base of this trench. Arsenopyrite occurs in euhedral crystals up to 2 cm in diameter. Rock sampling includes grab samples and chip samples across widths of 2 m. Results of analyses are as follows:

Sample	Type/Width	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Co (ppm)
9070	massive sulphide (grab)	4.25 g/t	702 g/t	2705	89624	1034
9071	massive sulphide (grab)	94	34	333	7620	172
9072	massive magnetite (chip 2 m)	3.98 g/t	473 g/t	3174	79696	1060
9073	massive sulphide (chip 2 m)	0.38 g/t	14.1 g/t	3741	3410	988
9074	massive volcanics (chip 2 m)	107	3.4 g/t	335	704	-

Trench PT-4 is located at L7+50N, 0+80W and is plotted on Figure 6 at an approximate 1:1000 scale. Massive magnetite, with irregular calcite veining, occurs over 2 m, overlying an approximate 4 m wide calc-silicate unit. Underlying the calc-silicate unit is a 1 m section of pyrite, local chalcopyrite with widespread calcite veining. This zone includes up to 30-40% pyrite in greenish-grey volcanics, hosted by pale green calc-silicates.

Sample results are as follows:

Sample	Type/Width	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
9061	altered volcanics (2 m chip)	7.13 g/t	3.8	1856	21
9062	altered volcanics (grab)	37	0.4	68	9
9063	calcite stringers (2 m chip)	1.71 g/t	0.8	652	29
9064	massive magnetite (grab)	131	0.4	160	18
9065	calcite stringers (grab)	18	0.3	36	15
9066	calcite vein (grab)	96	0.2	184	28
9067	altered volcanics (grab)	73	0.3	84	9
9068	massive sulphide/ magnetite (grab)	2.50 g/t	1.7	1671	150
9069	calcite stringers (grab)	1.68 g/t	0.6	1647	60

Trenching was not carried out in the Main Grid area, however some of the existing trenches were resampled with the following results:

Trench	Sample	Type/Width	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Zn (ppm)	Co (ppm)
MT-1	9026	massive sulphides						
TR2		(grab)	2.43 g/t	149.9	54828	142	1474	77
	9027	altered volcanic						
		(grab)	8	2.5	352	13	-	7
MT-2	9059	massive sulphides						
Adit D		(grab)	22	2.1	719	85	-	79
MT-3	9058	calc-silicate						
?		(grab)	15	5.7	674	330	-	29
MT-4	9077	skarn (grab)	14	57.9	10407	155	21313	37
TR7	9078	tuff (grab)	4	0.6	581	75	-	22
MT-5	9051	massive magnetite						
TR4		(grab)	23	0.1	667	135	-	4
MT-2	9028	skarn (grab)	3	4.5	1208	165	-	4
	9029	skarn (grab)	3	3.2	511	153	-	12
	9030	skarn (grab)	1	2.3	737	23	-	29
MT-3	9079	massive magnetite						
TR5,6		(chip 2 m)	8	3.5	530	1620	-	88
Tom	9080	gossanous magnetite						
Adit		(chip 2 m)	8	2.6	340	223	-	21
	9081	altered volcanic(?)						
		(chip 3 m)	5	2.6	212	419	-	13
	9082	altered volcanic(?)						
		(chip 3 m)	3	1.7	272	323	-	26
	9083	altered volcanic(?)						
		(chip 3 m)	2	1.8	261	199	-	28

5.3 Structure

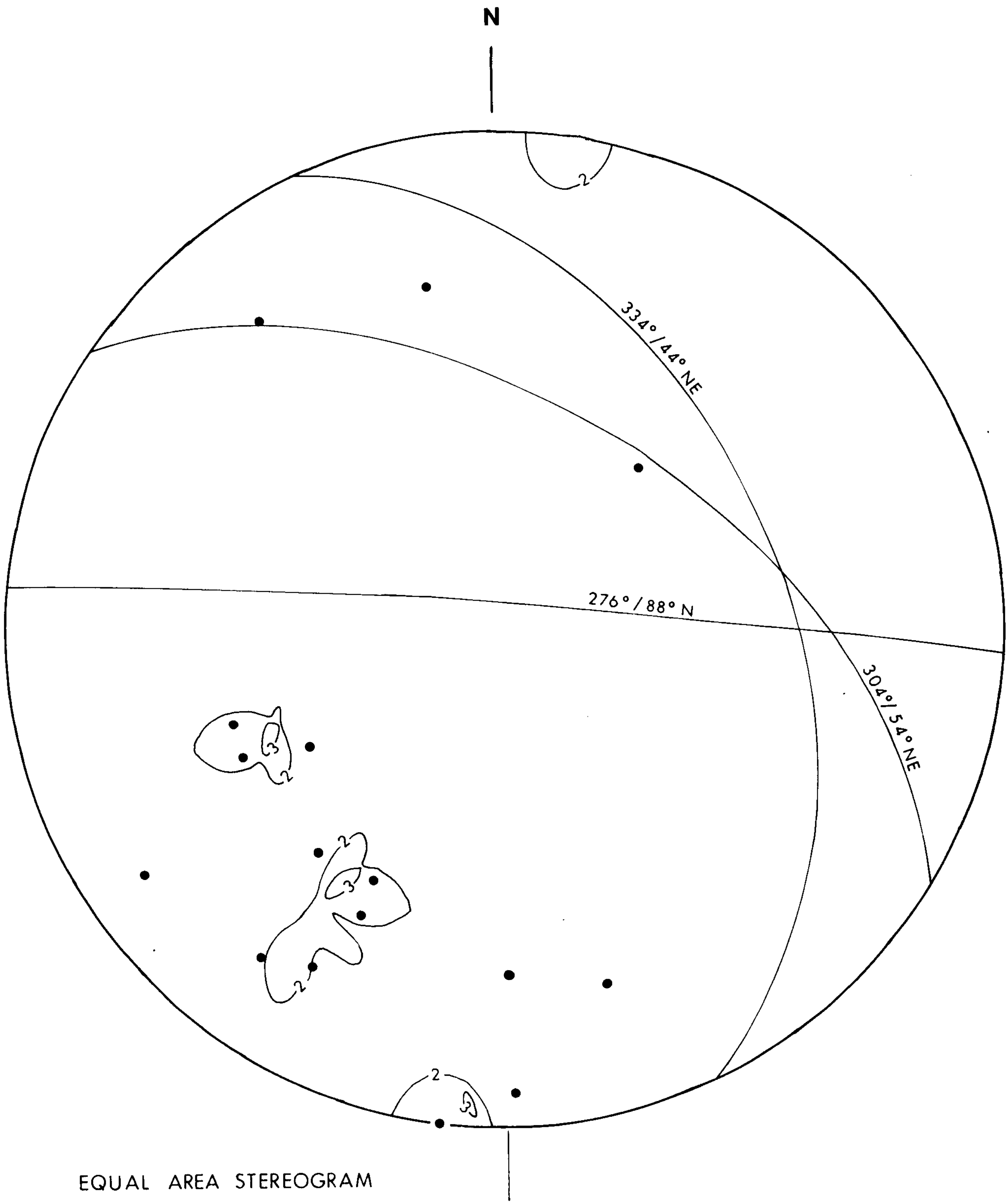
Large and small scale faulting and shearing occurs on the Contact-Au property. Measurements along the McNeil Peninsula shoreline and the eastern shoreline of Flores Island for (i) quartz vein, (ii) fault, (iii) joint and (iv) dyke orientations have been plotted on separate equal area stereograms (Plots 2a through 2d respectively).

(i) Quartz Veins

Quartz vein orientations (16) are plotted as poles in Plot 2a. The considerable amount of scatter suggests that the veins do not follow any one particular orientation. However, contouring has outlined three areas where at least three overlaps occur within a 1% area of the stereogram. The highest density of poles corresponds with a strike and dip of $304^{\circ}/54^{\circ}$NE and the second highest density with a $334^{\circ}/44^{\circ}$NE. Since poles do occur between these contoured areas, an average would be around $320^{\circ}/50^{\circ}$NE. The third highest density of poles corresponds with an orientation of $276^{\circ}/88^{\circ}$N. The quartz veins which contain highly anomalous gold, silver, copper, lead, zinc and arsenic in the southwest McNeil Peninsula grid area strike northwest with a moderate northeasterly dip.

(ii) Faults

Poles to faults (116) are shown on Plot 2b. Equal numbers of poles greater than 3, within a 1% area of the stereogram were contoured. Although some scatter does exist, five main clusters of points are distinguishable. The mean taken for these areas of higher density indicates a predominant strike of $260^{\circ}/68^{\circ}$N. A second cluster of poles of the same density 35° from the first cluster, defines an orientation of $226^{\circ}/79^{\circ}$NW. It is possible that these represent a conjugate set of faults, however this would have to be confirmed by observing such a set in the field. The other area of high density corresponds with $059^{\circ}/66^{\circ}$SE which would lie between the two mentioned above in terms of strike, however, with a steep southeasterly dip. The average strike of the four main concentrations of poles is 243° dipping both steeply northwesterly and northeasterly. Another important



EQUAL AREA STEREOGRAM

● Poles on McNeil Peninsula

Contours show equal number of poles ≥2

PARALLAX DEVELOPMENT CORPORATION

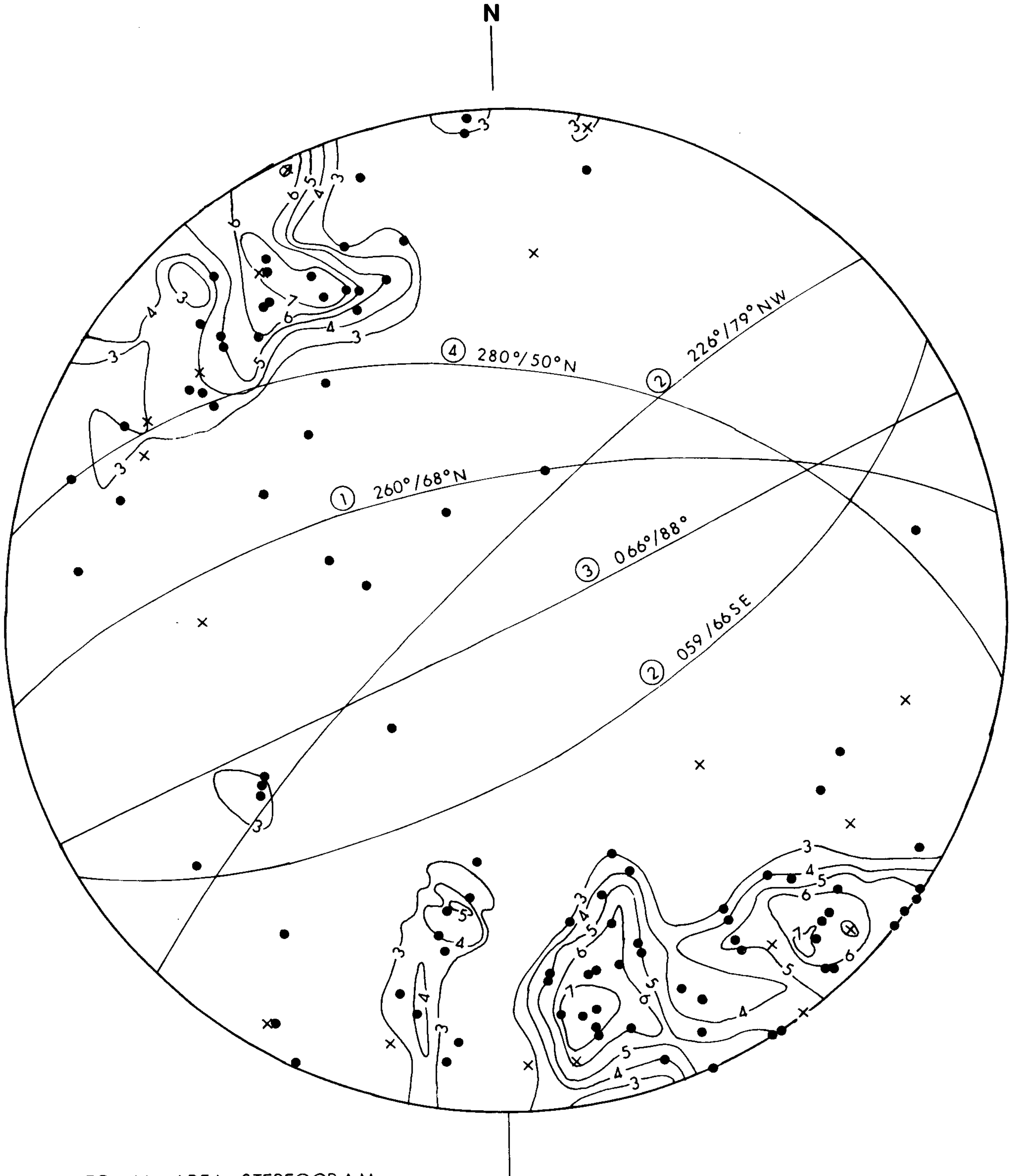
16 POLES OF QUARTZ VEIN ORIENTATIONS CONTOURED

CONTACT AU PROJECT

McNEIL PENINSULA, FLORES IS.B.C.

Project No:	V 248 - 3	By:	G.Y. B.T.
Scale:	—	Drawn:	J.S.
Drawing No:	PLOT 2 a	Date:	SEPTEMBER 1988.

MPH Consulting Limited



EQUAL AREA STEREOGRAM

● Poles on McNeil Peninsula

× Poles on Flores Island

Contours show equal number of poles ≥ 3

PARALLAX DEVELOPMENT CORPORATION

116 POLES TO FAULT ORIENTATIONS CONTOURED
CONTACT AU PROJECT
McNEIL PENINSULA, FLORES IS. B.C.

Project No:	V 248-3	By:	G.Y., B.T.
Scale:	—	Drawn:	J.S.
Drawing No:	PLOT 2b	Date:	SEPTEMBER 1988.

MPH Consulting Limited

cluster which may represent a separate episode of faulting corresponds with the '5 contour' of poles. The corresponding strike is 280° with a 50° northerly dip. An increase in poles however, from additional measurements may indicate that this cluster merges with the first set.

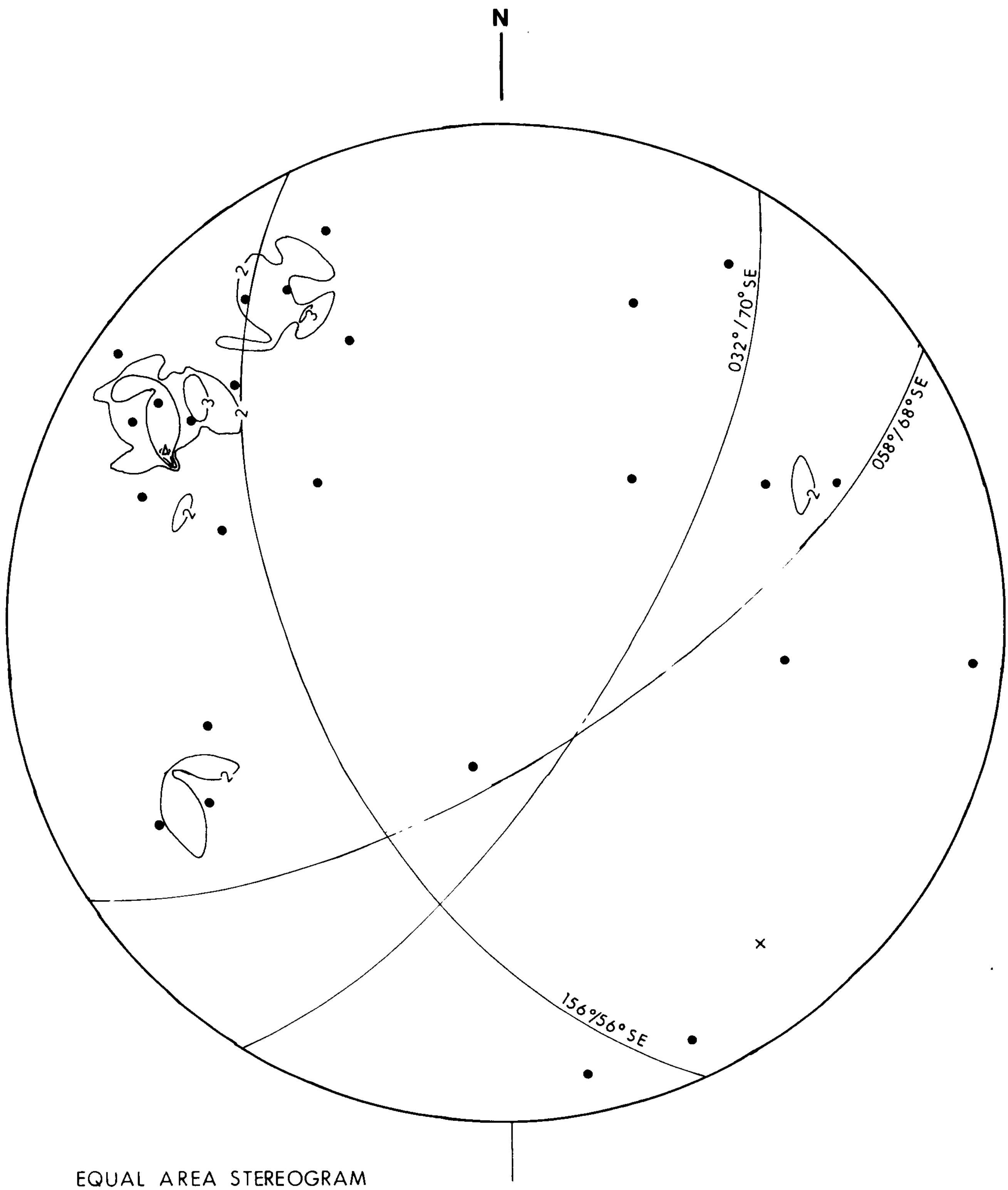
(iii) Joints

Plot 2c shows 26 poles to joint orientations measured on the McNeil Peninsula and the main part of Flores Island. Contours show equal numbers of poles equal or greater than 2 within a 1% area. The highest concentration of poles corresponds with the great circle representing an orientation of 032°/70°SE. Of equal importance is a cluster of poles corresponding with a strike of 058°/68°SE (25° apart from the first cluster) which is defined by two areas of overlap of 3 poles. The average for these two orientations is 045°/70°SE. A considerable amount of scatter occurs for the poles to joints and more measurements are necessary to be meaningful.

(iv) Dykes

Leucocratic dykes on the McNeil Peninsula are plotted as solid dots whereas diabasic dykes (may be sills) are plotted as crosses on Plot 2d. The leucocratic dykes are clustered in one area which corresponds with a 263°/55°N orientation.

Bedding is apparent only in the limestone unit on the east coast of McNeil Peninsula where a recessive weathering pattern suggests the limestone is folded about a gently plunging northwest trending axis.

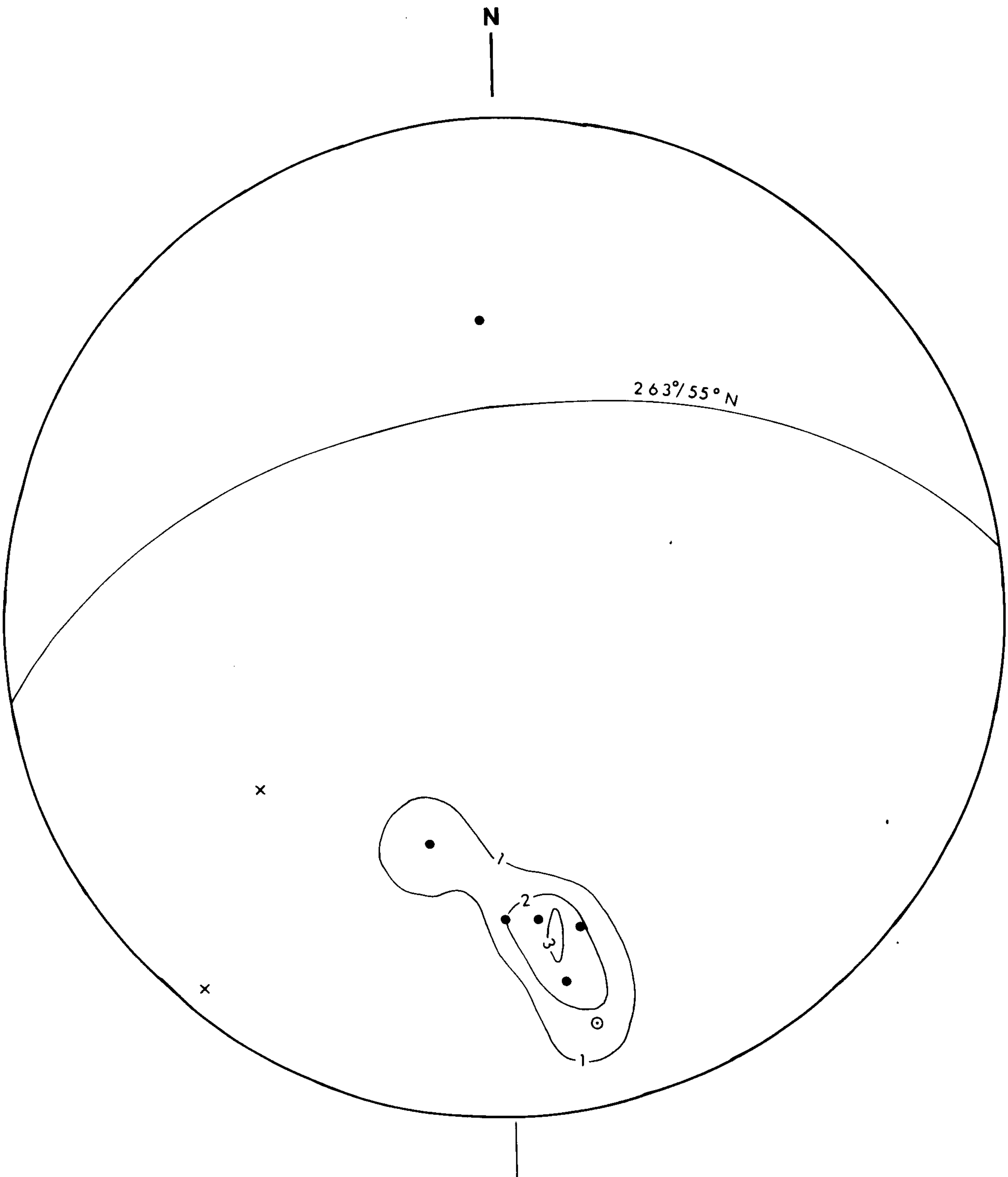


EQUAL AREA STEREOGRAM

- ● Poles on McNeil Peninsula
- × Poles on Flores Island

Contours show equal number of poles ≥ 2

PARALLAX DEVELOPMENT CORPORATION			
26 POLES TO JOINT ORIENTATIONS CONTOURED CONTACT AU PROJECT McNEIL PENINSULA, FLORES IS. B.C.			
Project No:	V 248-3	By:	G.Y., B.T.
Scale:	—	Drawn:	J.S.
Drawing No:	PLOT 2c	Date:	SEPTEMBER 1988.
MPH Consulting Limited			



EQUAL AREA STEREOGRAM

- ● Poles to Leucocratic dykes
- × Poles to diabase dykes
- ⊙ Poles to gabbroic dykes

on McNeil Peninsula

Contours show equal number of poles ≥ 1

PARALLAX DEVELOPMENT CORPORATION

POLES TO DYKE ORIENTATIONS CONTOURED
CONTACT AU PROJECT
McNEIL PENINSULA, FLORES IS. B.C.

Project No:	V 248	By:	G. Y., B. T.
Scale:	—	Drawn:	J. S.
Drawing No:	PLOT 2d	Date:	SEPTEMBER 1988.

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As mentioned in the geology section, an east-west trending fault is inferred from topography and abrupt truncation of an IP anomaly near DDH CA88-14, in the northwestern portion of the grid. Displacement along this fault was not observed, however airphoto lineaments indicate a sharp break in slope.

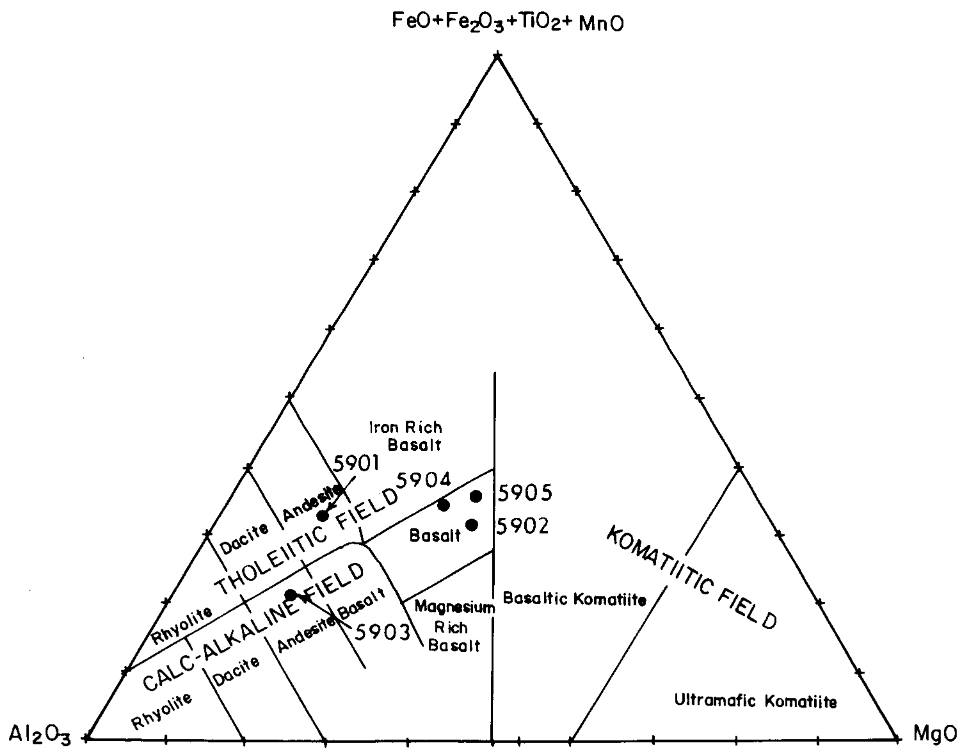
Another such break in slope occurs on the west coast of McNeil Peninsula, in the area of the high grade quartz veins, where a strong northwest trending lineament is indicated. Additional surface geological mapping is necessary to test the continuity of this structure and to determine whether any offset occurs.

5.4 Whole Rock Lithogeochemical Analysis

Five drillcore samples were analyzed for their chemical composition (Appendix III). The Jensen Cation Ternary Diagram (Plot 1) was used to aid in determining the original volcanic composition of the samples.

Dry weight percentages of the major element oxides were calculated from the wet weight percentages by subtracting the loss on ignition (LOI).

Sample	%SiO_2	Al_2O_3	Fe_2O_3	MgO	CaO	Na_2O	K_2O	TiO_2	MnO	Total
5901	55.1	18.0	10.2	3.9	7.9	3.1	0.6	1.0	0.1	99.9
5902	48.1	14.4	11.4	12.5	9.9	2.3	0.3	0.9	0.13	99.9
5903	50.5	20.3	6.5	4.6	14.8	2.3	0.6	0.4	0.1	100.1
5904	50.3	15.2	11.9	9.1	8.0	3.6	0.1	1.2	0.1	99.5
5905	48.1	13.9	11.9	11.5	11.1	1.6	1.0	0.7	0.1	99.9



JENSEN CATION PLOT

PARALLAX DEVELOPMENT CORPORATION			
JENSEN CATION PLOT OF DRY WEIGHT PERCENT CONTACT AU PROJECT FLORES IS. B.C.			
Project No:	V 248 - 3	By:	G.Y.
Scale:	N / A	Drawn:	J.S.
Drawing No:	PLOT 1	Date:	SEPTEMBER 1988.

MPH Consulting Limited

The ternary diagram plot data is as follows:

	Al_2O_3	MgO	$Fe_2O_3+TiO_2+MnO$	Lithogeochemical Composition From Jensen Cation Plot	Composition Field Description
5901	54.2%	11.7%	34.0%	Andesite	Diorite
5902	36.6%	31.8%	31.6%	Basalt	Ash tuff
5903	63.6%	14.4%	21.9%	Andesite	Feldspar porphyry dyke
5904	40.5%	24.3%	35.2%	Basalt	Ash tuff
5905	36.5%	30.2%	33.3%	Basalt	Crystal lithic tuff

These dry weight percentages were plotted on the Jensen ternary diagram. All samples plot as andesites and basalts.

Sample 5901 collected from DDH CA88-1 between 27.89 and 28.05 m depth was described from hand specimen as a diorite. It plots within the tholeiitic field as an andesite, and contains over 55% silica, and 18% alumina.

Sample 5902, collected just below sample 5901 between 28.05 and 28.20 m is from the 'ash tuff' unit. It contains a high proportion of silica 48.1%, however it plots as a basalt within the calc-alkaline field. Perhaps the abundance of silica is in part due to the proximity to the diorite intrusion which may have introduced an excess amount of silica.

Sample 5903, is a feldspar porphyritic dyke collected from DDH CA88-11 between 8.00 and 8.23 m depth. It contains over 50% silica, is very high in alumina, and plots within the calc-alkaline field as an andesite.

Both samples 5904 and 5905 plot as iron-rich basalts within the calc-alkaline field, yet very close to the tholeiitic field boundary. Sample 5904 is described as an 'ash tuff' from 3.91 to 14.11 m depth in DDH CA88-16. Sample 5905 from the same hole at a depth of 6.5 to 6.65 m was described as a crystal lithic tuff.

5.5 Soil Geostatistics and Geochemistry

Soil surveys were conducted along two separate flagged grids totalling 7.5 line km during the Phase III exploration program. The grids are located on McNeil Peninsula and on the Main Grid area of the main part of Flores Island.

The **McNeil Peninsula Grid** was established following favourable soil geochemical results from the Phase I reconnaissance soil survey conducted along L3+00N, L4+00N and L8+00N. Soil samples (287) were collected from the McNeil Peninsula Grid from B-horizon (average 20 cm depth) when possible. Due to the nature of the soil however, it was necessary to collect about half the samples from the A-horizon (humus). This is unfortunate due to the fact that the A-horizon generally comprised of organics, tends to concentrate elements such as gold to a greater extent, as well as the fact that the B-horizon gives a more accurate representation of the underlying bedrock. The soil survey is thus not as accurate a depiction of the underlying lithogeochemistry.

The samples were collected at 25 m intervals from lines spaced 50 or 100 m apart for a total of 7.25 line km. The baseline of the grid trends north-south with east-west lines providing coverage of a good portion of the northern peninsula area. The grid was designed to crosscut the north to northwesterly trending structure and the skarn zone at approximate right angles.

The **Main Grid Detail** (0.25 line km) was established in the central L2+00N area between L3+00N and L1+00N. Northwest trending lines (9) are parallel to the Main Grid. The grid is centred on an extremely anomalous gold concentration (90,000 ppb and 147,000 ppb) encountered during the previous soil survey at L2+00N, 4+75W. The sample and line spacings are 10 m. The underlying geology is a possible extension of the skarn horizon inferred from a trench (MT-5) in the central Main Grid Detail area.

5.5.1 Geostatistical Evaluation

The soil geochemical data was subjected to two statistical analyses for all the samples analyzed at Acme Labs in Vancouver (As, Cu, Zn, Ag, Co). The initial geostatistical program was run on the samples by Acme Labs, however the data from approximately 187 samples was unobtainable by the lab for reasons unknown. Also, the program used by Acme is not capable of plotting a logarithmic distribution. In many cases, as will be demonstrated, the data appears to follow a logarithmic distribution rather than an arithmetic or linear distribution. The histograms from Acme Labs are included nevertheless in Appendix IV. The soil geochemcial data for Phases I and III geochemical surveys was processed by the Probplot (Stanley, 1987) program, for the elements Ag, Cu, Pb, Zn, As and Co. Gold concentrations were plotted only for the Phase III (330 samples) survey because Phase I samples had been analyzed by Rossbacher Laboratories whose instruments have a 5 ppb detection limit rather than a 1 ppb limit of detection.

Appendix IV includes the statistics, histograms, and a plot of the class intervals. For details of this program and its limitations and assumptions, please refer to Stanley, 1987. Probplot has been designed to allow systematic evaluation of frequency data for any variable. The program is very flexible, allowing the data set to be manipulated to obtain the most meaningful data representation possible. Threshold and anomalous limits are as follows:

	Gold ppb	**Arsenic ppm**	**Cobalt ppm**	**Copper ppm**	**Zinc ppm**	**Silver ppm**	**Pb ppm**
Threshold	50	150	20	70	80	0.85	
Anomalous	90	270	35	120	130	1.40	
Mean	9.5	27.3	5	19.0	27.4	0.27	9.4
Standard Deviation	21.0	59.6	7.1	25.3	26.0	0.28	5.7
Population (No. of Samples)	(Phase I only) 324	751	756	752	751	763	756

Statistical data allows a systematic, relatively unbiased method for choosing contour intervals for the soil maps. The soil geochemical contours were calculated by exponentially increasing the anomalous values and rounding them off to the nearest ten.

5.5.2 McNeil Peninsula Grid Soil Survey

Soil geochemical concentrations for gold (ppb), silver (ppm) and arsenic (ppm) on the McNeil Peninsula are shown in Figure 7 with the anomalous and threshold values contoured. These elements were plotted together because they appear to have a strong association in soils as well as in lithogeochemistry. Copper, zinc and silver concentrations are plotted and contoured in Figure 8.

There are several spot soil anomalies which may be part of the same northwest trending structure extending from L2+00N to L9+00N.

The most significant gold in soil anomaly (I) occurs at L8+50N at 1+00W and 1+25W with concentrations of 1120 ppb and 127 ppb. At L7+50, 1+00W and 1+25W, concentrations of 830 ppb and 76 ppb occur and 89 ppb and 47 ppb on L7+00N. Although the L8+00N (sampled during the Phase II program) does not contain anomalous gold, there is a strong possibility that this zone is continuous. Anomalous arsenic occurs to the west of the L8+50N gold anomaly (up to 260 ppm) and coincident with the L7+50N and L7+00N anomalies (up to 476 ppm). Anomalous copper and zinc occur coincident with the second gold anomaly.

These two anomalies were the target of drillholes CA88-10, 11 and CA88-12, 13. They are coincident with chargeability Zone F and a corresponding resistivity low. These drillholes all intersected anomalous gold and arsenic within 'skarn' zones.

Soil anomaly II includes anomalous gold (335 ppb) at L4+50, 25W, within a broad zone defined by anomalous arsenic and a coincident northwest trending cobalt anomaly. Trenches PT-1 and PT-2 occur in this area and may in part be responsible for the downhill dispersion of anomalous arsenic concentrations. Figure 8 shows that anomalous copper, zinc and silver is coincident with this area also. This soil anomaly, coincident with a strong chargeability high (Zone A) was the target of drillholes CA88-8, 9 and the previous phase drillholes DDH88 4 and 5 which intersected gold bearing zones.

Southeast of soil anomaly II, at L3+00N, 1+00E and L2+50N, 0+75E, a gold in soil anomaly extends over 75 m with concentrations of 270 ppb and 670 ppb respectively. This zone is coincident with anomalous arsenic and cobalt over a smaller area as well as an isolated copper-silver in soil anomaly.

It appears from the map that soil anomalies II and IV are probably representative of a single northwest striking Au, As, Co,Cu $\pm$ Zn, $\pm$ Ag anomaly.

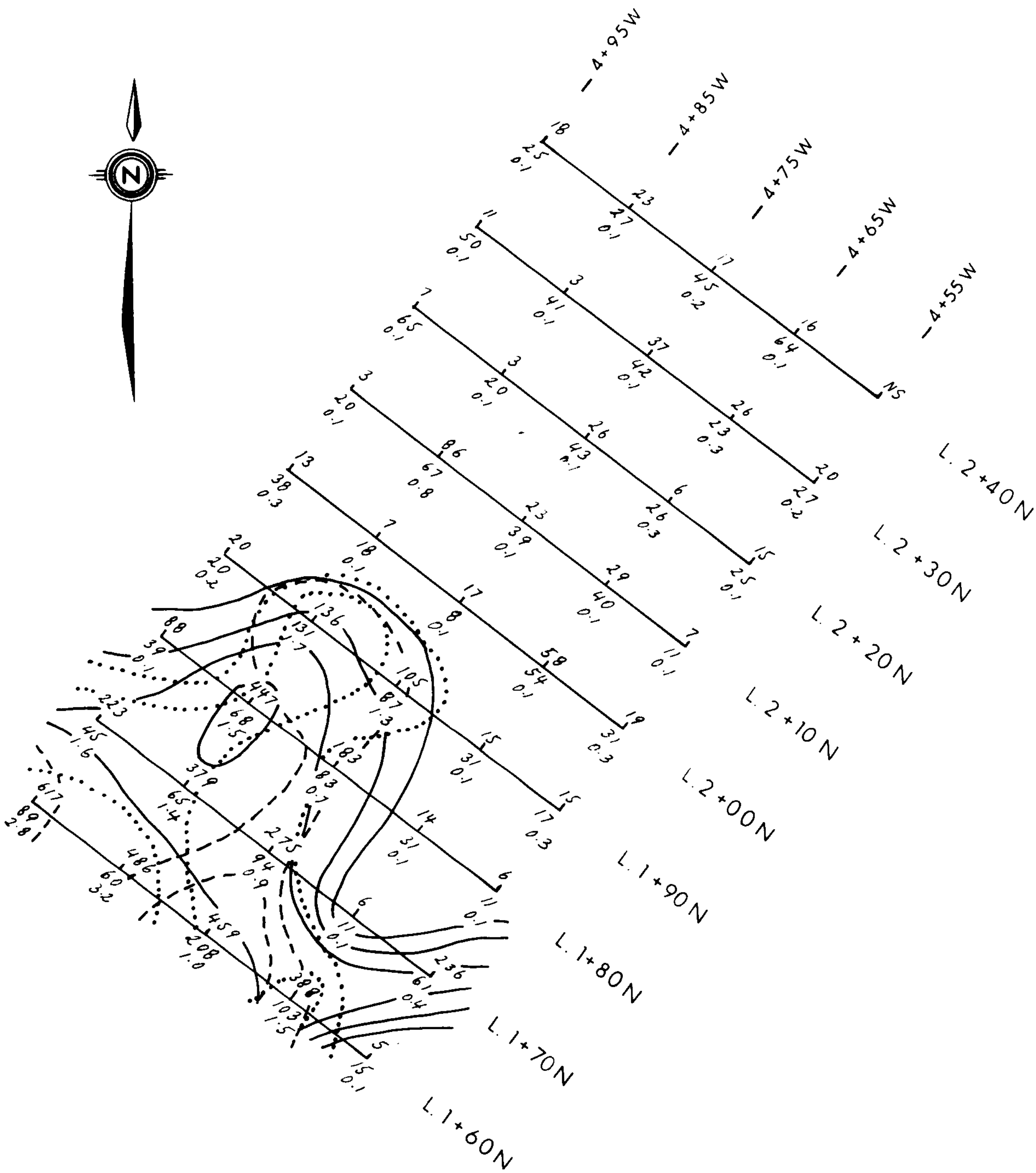
Soil anomaly III is a relatively broad gold anomaly defined by four anomalous gold concentrations (up to 113 ppb) over the western portion of L2+00N and L2+50N. Coincident anomalous arsenic concentrations occur at L2+00N, 0+75W and 1+00W (164 ppm and 232 ppm As). This area contains the high grade quartz veins which when sampled this year yielded up to 11.39 oz/ton Au.

5.5.3 Main Grid Detail

A highly anomalous, confirmed, spot gold in soil anomaly (90,000 and 147,000 ppb) located at L2+00N, 4+75W of the Main Grid during the previous work phase, is the centre and main reason for construction of the 'Main Grid' (Figures 9, 10). This flagged grid comprises four northwesterly trending lines to the grid north and south of L2+00N at 10 m line spacing, sampled at 10 m intervals. This grid was designed to confirm the presence and possible extent of this gold anomaly as well as possible associated elements. The 44 B-horizon soil samples were analyzed at Acme Labs for gold by AA and for 31 element ICP (Appendix IIId).

Figure 9 shows the gold concentrations plotted and contoured along with arsenic and cobalt. Anomalous gold concentrations occur within a zone which is approximately 30 m wide northeast-southwesterly and approximately 40 m wide northwest-southeasterly, narrowing toward the northwest extent of the grid. Within this zone are five anomalous gold concentrations ranging from 94 ppb to 147,000 ppb. Approximately coincident with this gold anomaly are anomalous copper concentrations, defining an open-ended anomaly to the grid south. Concentrations range from 88 ppm to 617 ppm Cu. Twelve samples are within the threshold to anomalous range, defining this copper in soil anomaly over at least a 30 m by 40 m area. Possibly associated with this copper anomaly are zinc and silver anomalies (shown in Figure 10). The threshold to anomalous zinc concentrations occur within a narrow north- northeasterly trending zone at least 35 m long. Only two samples are considered anomalous (up to 208 ppm). Anomalous silver concentrations (more than 1.4 ppm) appear to increase towards the grid south extent, making this an open ended anomaly. Six samples anomalous in silver, define a zone generally coincident with the gold and copper anomalies.

The central to southwestern portion of this grid will be the target of prospecting, chip sampling, and possibly trenching followed by drill testing.



0 10 20 m

NTS 92 E/8

LEGEND

70 Cu / 195 Zn / 0.8 Ag	Grid lines with sample locations and results all in ppm.

CONTOUR INTERVALS

	Cu(——) ppm	Zn(----) ppm	Ag(·······) ppm
Threshold	70	80	0·85
Anomalous	120	130	1·40
	220		2·50
	420		

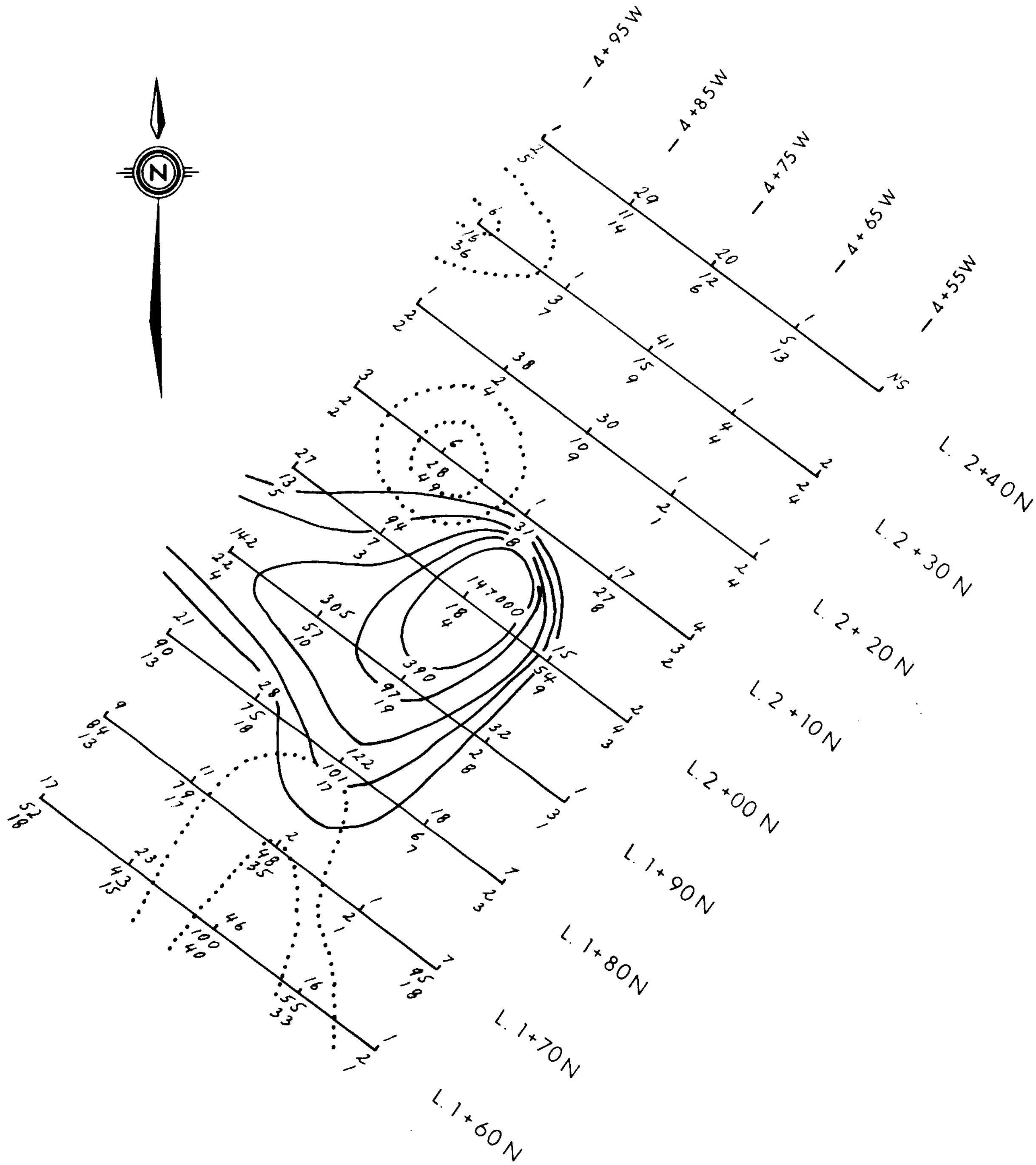
PARALLAX DEVELOPMENT CORPORATION

SOIL GEOCHEMISTRY

Cu, Zn, Ag CONCENTRATIONS
CONTACT AU PROJECT
MAIN GRID DETAIL, FLORES IS. B.C.

Project No.	V 248 - 3	By:	J. S., T. N.
Scale:	1 : 625	Drawn:	J. S.
Drawing No:	9	Date:	SEPTEMBER 1988.

MPH Consulting Limited



LEGEND

1 Au / 27 As / 42 Co	Grid lines with sample locations and results Au in ppb, As in ppm and Co in ppm.

CONTOUR INTERVALS

	Au(——) ppb	Co(........) ppm
Threshold	50	20
Anomalous	90	35
	180	
	350	
	680	

PARALLAX DEVELOPMENT CORPORATION

SOIL GEOCHEMISTRY

Au, As, Co CONCENTRATIONS

CONTACT AU PROJECT

MAIN GRID DETAIL, FLORES IS. B.C.

Project No:	V 248 - 3	By:	J. S., T. N.
Scale:	1 : 625	Drawn:	J. S.
Drawing No:	10	Date:	SEPTEMBER 1988.

MPH Consulting Limited

5.6 Induced Polarization Survey

Between May 23 and May 29, 1988, an IP survey was conducted on the McNeil Peninsula by an MPH Consulting Limited geophysical crew of 4 men using a Huntec Mk IV receiver and a Phoenix IPT-1 3.0 Kw transmitter. The same time domain survey parameters utilized in Phase II, 'a' spacing equal to 25 metres and measuring 'n' values 1 to 4 were used. The IP survey totalled 4.2 line-km on 8 lines filling in information around the three lines of reconnaissance IP survey done in the Phase II program.

The measured primary voltage (Vp) and secondary voltage (Vs) were converted to apparent resistivity and total chargeability. The IP technique is further discussed in Appendix VII. The resulting values were plotted in standard pseudosection form at a scale of 1:1250 (Figures 22 to 29) in addition, contoured resistivity and chargeability values for n=1 at a scale of 1:2500 are shown in Figures 20 and 21.

The Phase III program was designed to follow up IP anomalies located during the Phase II program on the McNeil Peninsula. During the Phase II program, IP coverage on lines 3+00N, 4+00N, and 8+00N was completed. The Phase III program was intended to define the strike extent of the strongest chargeability response and to locate additional IP anomalies to be tested by diamond drilling.

The chargeability results obtained from the 8 line McNeil Peninsula grid, defined a strong anomalous zone along with six other anomalous zones. A total of 7 separate chargeability Zones (A through G) are outlined as seen on the compiled chargeability data for n=1 (Figure 20).

Chargeability Zone A is a moderate to strong chargeability response defined on L2+00N through L4+50N near the baseline. Zone A has an estimated intrinsic chargeability ranging from 25 to 150 msec and is coincident with resistivity low 'a'.

Zone A is interpreted as being caused by massive to semi-massive magnetite with accompanying sulphides which have a shallow dip to grid east.

Zone A is flanked to the west by anomalous gold in soil geochemistry which may also be related to the IP response.

Chargeability Zone B, defined on L4+00N to L2+00N near 2+00E is located east of Zone A. On L4+00N, Zone B is quite broad and difficult to distinguish from Zone A. Looking south, Zone B becomes more distinct from Zone A and has an estimated intrinsic chargeability ranging from 20 to 60 msec, to a depth of 10 to 30 metres. Zone B is coincident with resistivity low 'b' and interpreted to reflect disseminated sulphide mineralization.

Chargeability Zone C, defined on L2+00N and 2+50N near 3+50E, has a moderately strong intrinsic chargeability response ranging from 20 to 30 msec, at an estimated depth of 15 metres. Zone C is not related to any resistivity feature and is interpreted to reflect disseminated sulphides of a lesser concentration than the two zones described above.

Chargeability Zone D, is defined on L2+00N and L2+50N, near the eastern edge of the survey coverage. An estimated intrinsic chargeability of 30 to 35 msec at a depth of 10 metres is interpreted, however, due to lack of definition of Zone D, the strength and depth is tentatively estimated here.

Chargeability Zone F, defined on L8+50N near 1+25W has a complex response consisting of a near-surface feature grading to depth. This may reflect a shallow dipping structure to grid east. Zone F has an estimated intrinsic response ranging from 20 to 70 msec and is coincident with resistivity low 'f' also flanking is an anomalous gold soil geochemistry to the west. Zone F is interpreted to reflect massive to semi-massive magnetite with associated sulphide mineralization.

Chargeability Zone G, defined on L7+00N to L9+00N near the east end of the surveyed line has an estimated intrinsic chargeability of 20 to 40 msec appearing stronger and deeper along strike southward. A weak soil gold geochemical anomaly is observed flanking Zone G on L8+00N. Zone G is interpreted to reflect disseminated sulphide mineralization.

Results and Conclusions

A total of six chargeability zones having varying correlation with resistivity lows and anomalous gold soil geochemistry were located during the Phase III program. The IP survey successfully delineated the rather variable geologic features which were poorly defined as to extent and attitude from the Phase II program.

Chargeability Zone A is the most persistent and dominant zone to be tested by diamond drilling along its strike. Zone B is the second feature outlined by the IP survey which should be tested by diamond drilling. Zone F is the third feature located on L8+50N which warrants testing by diamond drilling. These zones are coincident with resistivity lows and have coincident or flanking anomalous gold geochemistry.

5.7 Diamond Drill Program

The Phase III diamond drill program was conducted between July 7 and July 8, 1988. A total of 1644.1 m (NQ) was drilled from 18 holes on 9 set-ups. Drill core samples (sample numbers 5001-5847) total 847. These samples were analyzed by Acme Labs for gold by AA and for 31 element ICP. Assays were perfomed on samples containing gold in excess of 200 ppb. Samples anomalous in silver, copper, lead, zinc and arsenic were not assayed. The drill logs have been summarized in the following section. This section also contains significant intersections and calculated length weighted averages by the following method.

$$\frac{(\text{Sample 1 length}) \times [\text{concentration}] + (\text{Sample 2 length}) \times [\text{concentration}] \text{ etc.}}{\text{Total length of interval}}$$

Drill sections are plotted for each hole in Figures 11 to 19. Locations for the holes on a plan map are on all 1:2500 scale figures including geology and soil geochemistry maps.

Figure 30 is a compilation map which shows the mineralized zones, results from previous work phases and significant drill intersections to date.

SUMMARY DDH : **CA88-1**
GRID : McNeil Peninsula
COORDINATES : 3+50N, 1+15E
ELEVATION: 57 m
LENGTH : 69.19 m
DIP : -55^{o}
AZIMUTH : 270^{o}
STARTED : 08/06/88
STOPPED: 09/06/88
CASING : 6.71 m
LOGGED BY : G. Yip (June 15-18/88)
CORE SAMPLES: 5001-5050

OBJECTIVE:

To test the chargeability Zone A, coincident resistivity low 'a' located near the baseline on L2+00N through L4+50N. A narrow gold in soil anomaly (370 ppb and 670 ppb) occurs over approximately 75 m in the area of DDH88-8 and 9. (Anomalous cobalt and arsenic in soil also occur in this area.) These holes were drilled during the previous phase of exploration and intersected a massive magnetite horizon containing pyrite with anomalous gold and arsenic. The most significant intersections from this zone was at 28.88 - 29.61 m: 1.18 g/t (0.034 oz/ton) Au over 0.76 m in DDH88-8 and 5.82 g/t (0.170 oz/ton) Au over 0.14 m at 25.46 m to 25.60 m in DDH88-9.

GEOLOGY & MINERALIZATION:

Alternating layers of medium- to fine-grained diorite and fine-grained metavolcanics were intersected from 6.71 m to 69.19 m. The diorite units are poorly to moderately foliated, and range in thickness from 1.90 to 11.74 m. Moderate to intense epidotization and silicification is local, as is chloritization of mafic minerals.

The dark green metavolcanics are either xenoliths and/or layers within the diorite, ranging from 0.09 to 8.57 m thick. Alteration products include: quartz, carbonate, epidote and chlorite.

Mineralization within the metavolcanics includes trace to 5% disseminated pyrite (locally up to 10% in masses and stringers), trace to 10% chalcopyrite, trace arsenopyrite, and trace to 10% massive magnetite. In the interval from 16.49 to 16.91 m, the volcanics have been carbonatized and contain up to 70% massive magnetite and 10% massive pyrite.

The diorite has been crosscut by quartz veins (up to 6 cm wide) with zones of chloritization of the wallrock adjacent to the veins, and fractures infilled with epidote. Trace to 5% disseminated pyrite occurs within veins and zones of alteration.

The source of IP Anomaly A appears to be a zone of metavolcanics containing massive magnetite (up to 70%), pyrite (up to 10%), ± chalcopyrite (trace to 10%) from 15.7 to 19.1 m; the rock has been variably silicified (weak to intense, epidotized (moderate, chloritized (light), and carbonatized (weak to moderate).

SIGNIFICANT INTERSECTIONS:

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5019	19.10-19.80	0.70	133	1.4	341	1038	
5024	23.17-23.30	0.13	128	3.4	751	190	
5036	41.20-41.36	0.16	960 0.039 oz/ton (1.34 g/t)	0.2	64	7	
5038	45.35-45.55	0.20	205	0.2	89	3	

SUMMARY DDH : CA88-2
GRID : McNeil Peninsula
COORDINATES : 3+50N, 1+15E
LENGTH : 50.29 m
DIP : -85°
STARTED : 09/06/88
STOPPED: 09/06/88
LOGGED BY : G. Yip (June 22-23/88)
CORE SAMPLES: 5051-5080
ELEVATION: 57 m
AZIMUTH : 270°
CASING : 3.05 m

OBJECTIVE:

To test the anomalies described for drillhole CA88-1 and the extent of the massive magnetite horizon and the gold bearing zones intersected by CA88-1.

GEOLOGY & MINERALIZATION:

Dark grey-green fine-grained andesite was intersected from 3.05 m to 15.05 m with trace to 3% pyrite disseminated and in very thin quartz and carbonated filled fractures. The andesite is locally weak to intensely epidotized and silicified and weakly carbonatized. Other mineralization includes: up to 10% magnetite from 14.10 to 14.37 m; and trace to 1% pyrrhotite from 14.37 to 14.97 m.

A unit of variably altered diorite, containing sporadic xenoliths of andesite (approximately 4 cm), was intersected from 15.05 to 38.85 m. The top portion of this unit (to 24.48 m) has been intensely epidotized and silicified, and weakly to moderately carbonatized; quartz and epidote also occur as fracture fill. Between 16.56 and 18.107 m are three shears (2 to 18 cm wide) oriented between 35° and 49° to core axis. Trace to 2% pyrite occurs disseminated through the diorite and locally as 3 to 4 mm pods in carbonate lenses.

Mineralization within the unaltered diorite includes trace to 5% pyrite and trace arsenopyrite locally disseminated through the diorite, within and adjacent to the xenoliths, and in quartz veins.

Between 38.85 to 50.29 m is a unit of dark green andesite with numerous fractures infilled by quartz, carbonate, epidote, and trace to 5% finely disseminated pyrite. The unit has also been silicified and chloritized.

SIGNIFICANT INTERSECTIONS:

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5060	15.14-15.82	0.68	3	0.1	7	1335	
5065	20.40-20.92	0.52	315 0.009 oz/ton (0.309 g/t)	0.4	5	18	
5070	24.01-24.48	0.47	165	0.1	20	26	
5073	27.60-27.80	0.20	2	2.1	920	41	

SUMMARY DDH : CA88-3
GRID : McNeil Peninsula
COORDINATES : 2+45N, 1+90E
ELEVATION: 68 m
LENGTH : 81.38 m
DIP : -46°
AZIMUTH : 093°
STARTED : 10/06/88
STOPPED: 11/06/88
CASING : 6.10 m
LOGGED BY : G. Yip (June 24-26/88)
CORE SAMPLES: 5081-5109

OBJECTIVE:

To test the southern extent of chargeability Zone A, with coincident resistivity low 'a', and to test the extent of the possibly flat-lying massive magnetite and pyrite zone intersected in previous drillholes.

GEOLOGY & MINERALIZATION:

Dark green to grey, fine- to medium-grained variably altered diorite are interlayered with units of dark green, fine-grained, altered andesitic tuff to feldspar porphyritic andesite (phenocrysts are up to 4 mm), which probably represent xenoliths within the diorite.

The diorite units range from 0.27 to 10.07 m wide, and are locally intensely epidotized and silicified, with mafic minerals altering to chlorite. Veins and fractures are infilled with quartz carbonate, iron-carbonate, and locally, epidote. The diorite unit from 74.10 to 81.38 m contains andesitic(?) xenoliths. Trace disseminated pyrite occurs in areas of alteration.

The andesite intervals are locally sheared and contain quartz and epidote veins and stringers. Alteration includes: locally intense epidotization and silicification, weak carbonatization, and moderate to intense chloritization. Trace pyrite occurs in areas of intense alteration.

Geochemical analysis of samples taken throughout the drillhole returned only background values for Au, Ag, Cu, and As.

SIGNIFICANT INTERSECTIONS:

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5095	34.51-35.66	1.15	12	0.9	393	39	

SUMMARY DDH : **CA88-4**
GRID : McNeil Peninsula
COORDINATES : 2+45N, 1+90E **ELEVATION:** 68 m
LENGTH : 79.25 m **DIP :** -45° **AZIMUTH :** 270°
STARTED : 11/06/88 **STOPPED:** 12/06/88 **CASING :** 1.83 m
LOGGED BY : C. Naas (July 17/88)
CORE SAMPLES: 5835-5839

OBJECTIVE:

To test chargeability Zone A in a westerly direction and the possible extent of the mineralized zone described in the objective for CA88-3.

GEOLOGY & MINERALIZATION:

Fine- to medium-grained, slightly to moderately foliated diorite was intersected from the collar to 79.25 m. Locally, rare fine-grained, grey, volcanic xenoliths(?) occur through the drillhole. The diorite has been locally altered to epidote, quartz, and carbonate. Quartz, carbonate and epidote veins and stringers are common. Mineralization includes trace to 1% pyrite within both rock types.

SIGNIFICANT INTERSECTIONS:

Geochemical analyses of the interval from 23.61 to 36.95 m returned only background values.

SUMMARY DDH : CA88-5
GRID : McNeil Peninsula
COORDINATES : 2+45N, 1+90E
ELEVATION: 68 m
LENGTH : 78.64 m
DIP : -70^{0}
AZIMUTH : 270^{0}
STARTED : 12/06/88
STOPPED: 13/06/88
CASING : 1.83 m
LOGGED BY : C. Naas (July 17/88)
CORE SAMPLES: 5840-5842

OBJECTIVE:

Drilled from same set-up as CA88-3 and CA88-4 to test for source of the chargeability Zone A at a steeper angle (70^{0}).

GEOLOGY & MINERALIZATION:

Medium- to fine-grained diorite was intersected from 1.83 m to the end of the hole. This unit is locally epidotized, silicified and carbonatized. Rare fine-grained volcanic xenoliths(?) appear throughout the hole. The rocks are slightly foliated. Trace to 1% pyrite occurs disseminated throughout the hole, and in areas of quartz veining and epidote alteration.

SIGNIFICANT INTERSECTIONS:

Geochemical analysis of the interval from 24.00 to 31.07 m returned only background values.

SUMMARY DDH : **CA88-6**
GRID : McNeil Peninsula
COORDINATES : 3+55N, 2+90E
LENGTH : 81.38 m
STARTED : 13/06/88
LOGGED BY : G. Yip (June 20/88)
CORE SAMPLES: 5110-5154

DIP : -45^{0}
STOPPED: 15/06/88

ELEVATION: 42 m
AZIMUTH : 270^{0}
CASING : 3.05 m

OBJECTIVE:

To test the northern extent of chargeability Zone B from east to west at moderately steep angle.

GEOLOGY & MINERALIZATION:

Drilling intersected alternating layers of dark green, fine-grained, altered andesite and fine- to medium-grained, dark grey-green diorite. Smaller layers of andesite occurring within the diorite may be xenoliths; a layer of recrystallized limestone(?) (at 35.66 to 36.27 m) may also be a xenolith. Layers range from 0.20 to 55.81 m thick.

The diorite is variably epidotized, locally folded, and locally has a gneissose texture. Trace to 2% finely disseminated pyrite and trace to 3% chalcopyrite occurs within the diorite.

The andesitic units are locally porphyritic, with feldspar phenocrysts up to 4 mm. Alteration within these units is variable, with moderate to intense epidotization, silicification, and chloritization, and weak to intense carbonate alteration. Quartz, carbonate, and epidote commonly occur within veins and fractures. Locally, carbonates, silica, and epidote alteration is weakly banded (as from 43.89 to 44.49 m). Mineralization within the volcanics includes: trace to 5% disseminated pyrite, locally up to 10%; trace arsenopyrite; and trace to 5% pyrrhotite in pods up to 5 mm. A prominent zone of mineralization occurs between approximately 43 and 63 m.

SIGNIFICANT INTERSECTIONS:

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5129	49.27-49.51	0.24	8	1.6	559	229	4422 Zn
5136	54.15-54.82	0.68	775 0.028 oz/ton (0.96 g/t)	0.6	73	5	
5140	57.70-58.34	0.64	1	4.8	1295	7	
5143	59.65-60.59	0.94	205	2.0	431	16	
5144	60.59-61.04	0.45	220	1.3	316	166	1088 Zn
5150	67.12-67.42	0.30	152	10.5	3126	113	757 Zn

SUMMARY DDH : CA88-7
GRID : McNeil Peninsula
COORDINATES : 3+55N, 2+90E
ELEVATION: 42 m
LENGTH : 73.00 m
DIP : -70^{o}
AZIMUTH : 270^{o}
STARTED : 15/06/88
STOPPED: 16/06/88
CASING : 3.05 m
LOGGED BY : G. Yip (July 5-6/88)
CORE SAMPLES: 5332-5393

OBJECTIVE:

Drilled from same set-up as CA88-6 but drilled at a moderate angle to test northern extent and possible source of chargeability Zone B.

GEOLOGY & MINERALIZATION:

Dark green, fine-grained andesite was intersected from 3.05 m to 21.73 m, with trace to 3% finely disseminated pyrite. The andesite is locally porphyritic (feldspar crystals are up to 3 mm) and garnetiferous with alteration including chlorite, silica, epidote and carbonate. A layer(?) of recrystallized limestone (2.14 m), with 70% massive sulphides (90% massive pyrrhotite, 10% disseminated pyrite and trace arsenopyrite) was encountered. Between 23.87 and 32.92 m, alternating layers of altered andesite and diorite occur, ranging from 0.58 to 2.69 m wide. The diorites are fine- to medium-grained, medium to dark green, with local epidote and iron-carbonate alteration and alteration of the feldspars to epidote, and with trace pyrite. A second unit of andesite (with similar characteristics to the first) was intersected between 32.92 and 55.62 m. Within this unit is an approximately 15 m wide zone of mineralization with trace to 7% pyrite (locally to 15%). A speck of gold was observed between 44.06 and 44.23 m in carbonate altered intrusives(?) in association with trace pyrrhotite. Diorite occurs from 55.62 to 73.00 m, with a small layer of andesite (1.39 m wide) within alternating layers of andesite and diorite. Andesite layers likely represent xenoliths.

SIGNIFICANT INTERSECTIONS:

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5358	43.50-44.06	0.56	84	0.1	5	11	
5359	44.06-44.23	0.17	3570 0.096 oz/ton (3.29 g/t)	0.3	9	2	
5360	44.23-44.33	0.130	480 0.014 oz/ton (0.48 g/t)	0.2	60	4	
5361	44.33-44.57	0.24	6655 0.142 oz/ton (4.87 g/t)	0.1	57	10	
5362	44.57-44.81	0.24	71	0.6	497	11	

Calculated Length Weighted Average

	Interval (m)	Length (m)	Au
	44.06-44.57	0.51	0.102 oz/ton (3.497 g/t)

SUMMARY DDH : CA88-8
GRID : McNeil Peninsula
COORDINATES : 4+45N, 0+75E
ELEVATION: 44 m
LENGTH : 77.42 m
DIP : -70^{o}
AZIMUTH : 278^{o}
STARTED : 16/06/88
STOPPED: 17/06/88
CASING : 0.61 m
LOGGED BY : G. Yip (July 14/88)
CORE SAMPLES: 5155-5190

OBJECTIVE:

Drilled from east to west to test the magnetite and sulphide bearing horizons at PT-1 and PT-2 as well as a coincident small gold (335 ppb) anomaly with broader associated arsenic and cobalt and copper anomalies.

GEOLOGY & MINERALIZATION:

Drilling intersected alternating units of dark green, fine-grained, altered andesite and fine- to medium-grained, medium- to dark-green diorite. The units range from 0.61 to 27.87 m wide. The diorite units have been variably epidotized and silicified, with minor carbonate and chlorite alteration occurring locally. Trace to 2% disseminated pyrite, trace to 1% arsenopyrite, and trace pyrrhotite occurs throughout the diorite. Alteration within the andesite units include: chloritization of the mafic minerals, epidotization of feldspars, silicification, carbonate and iron-carbonate alteration. Mineralization in the metavolcanics includes: trace to 5% disseminated pyrite (locally to 10%); trace to 5% disseminated pyrrhotite; locally, 10-20% massive magnetite; trace to 1% arsenopyrite; trace to 2% disseminated chalcopyrite; and locally, trace sphalerite. Alternating units of andesite; probably represents xenoliths within the diorite.

SIGNIFICANT INTERSECTIONS:

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5170	29.38-29.78	0.40	215 0.006 oz/ton (0.206 g/t)	16.4	1333	298	337 Zn
5171	29.78-30.14	0.36	305 0.008 oz/ton (0.274g/t)	7.3	977	2578	410 Zn
5172	30.14-30.68	0.54	147	1.7	199	356	
5173	30.68-31.00	0.32	250 0.006 oz/ton (0.206 g/t)	2.8	484	527	
5174	31.00-31.36	0.36	710 0.025 oz/ton (0.857 g/t)	8.8	1758	2752	1253 Zn
5175	31.36-31.55	0.19	3750 0.104 oz/ton (3.57 g/t)	3.0	296	2551	986 Zn 187 Co

SIGNIFICANT INTERSECTIONS (continued)

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5176	31.55-32.43	0.88	925 0.026 oz/ton (0.891 g/t)	0.4	33	214	
5177	32.43-32.98	0.55	205 0.008 oz/ton (0.274 g/t)	0.4	17	74	
5179	33.81-34.15	0.34	315 0.009 oz/ton (0.309 g/t)	5.1 0.11 oz/ton (3.77 g/t)	975	762	13582 Zn 481 Co

Calculated Length Weighted Average

	Interval (m)	Length (m)	Au	Ag	Cu
	29.38-32.98	3.60	0.018 oz/ton (0.603 g/t)	4.25	0.09%

SUMMARY DDH : CA88-9
GRID : McNeil Peninsula
COORDINATES : 4+45N, 0+75E **ELEVATION:** 44 m
LENGTH : 71.63 m **DIP :** -45^{o} **AZIMUTH :** 278^{o}
STARTED : 17/06/88 **STOPPED:** 18/06/88 **CASING :** 3.65m(?)
LOGGED BY : G. Yip (July 14/88)
CORE SAMPLES: 5191-5229

OBJECTIVE:

Drilled at same set-up as CA88-8 at same azimuth at a 45^{o} angle to test the extent and dip of the mineralized zones intersected in the previous hole.

GEOLOGY & MINERALIZATION:

Dark-grey, fine-grained variably altered andesite was intersected to 26.15 m. The andesite is locally cut by quartz/carbonate stringers and altered by quartz, epidote, chlorite and iron-carbonate. Trace to 2% pyrite is disseminated in this unit. From 26.15 to 71.63 m, drilling intersected alternating layers of dark-grey, fine-grained, variably altered andesite and fine-grained, black and white diorite (with occasional epidote alteration).

A zone of mineralization occurs between 31.39 and 36.06 m, and includes: trace to 10% disseminated pyrite, locally to 15%; up to 5% pyrrhotite, locally to 20%; up to 3% arsenopyrite, locally to 70%; 10-20% massive magnetite, locally to 75%; and trace to 3% chalcopyrite.

SIGNIFICANT INTERSECTIONS:

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5209	31.73-32.09	0.36	245	0.4	27	1930	
5210	32.09-32.65	0.56	520 0.013 oz/ton (0.446 g/t)	0.5	59	517	
5212	33.53-34.32	0.79	455 0.011 oz/ton (0.377 g/t)	0.9	124	4047	
5213	34.32-34.86	0.54	7860 0.236 oz/ton (8.09 g/t)	3.0	279	99999	236 Co
5214	34.86-35.19	0.33	9050 0.256 oz/ton (8.78 g/t)	3.4	316	99999	100 Co

SIGNIFICANT INTERSECTIONS (continued)

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5215	35.19-35.35	0.16	3270	20.1	4678	13343	160 Co
			0.114 oz/ton	0.74 oz/ton		(1.3%)	
			(3.91 g/t)	(25.4 g/t)			
5216	35.35-35.51	0.16	847	10.5	2446	1970	
			0.022 oz/ton	0.33 oz/ton			
			(0.754 g/t)	(11.3 g/t)			

Calculated Length Weighted Averages

31.73-35.51	3.78	0.066 oz/ton (2.27 g/t) Au, 1.68 ppm Ag
34.32-35.35	1.03	0.223 oz/ton (7.66 g/t) Au

SUMMARY DDH : CA88-10
GRID : McNeil Peninsula
COORDINATES : 7+55N, 0+25E
LENGTH : 97.56 m
DIP : -45^{o}
STARTED : 19/06/88
STOPPED: 21/06/88
LOGGED BY : G. Yip (June 27-July 5/88)
CORE SAMPLES: 5230-5331
ELEVATION: 35 m
AZIMUTH : 255^{o}
CASING : 4.57 m

OBJECTIVE:

To test chargeability Zone F (weak to moderate), coincident resistivity low and a four sample gold anomaly with concentrations up to 830 ppb with accompanying anomalous arsenic. Trench PT-4 uncovered a zone of magnetite and pyrite with anomalous gold, silver and arsenic (sample 8061 - 7.13 g/t Au, 3.8 ppm Ag and 1856 ppm As).

GEOLOGY & MINERALIZATION:

Drilling intersected units of fine- to medium-grained variably altered diorite interlayered with units of dark-green, fine-grained altered andesitic tuff to feldspar porphyritic andesite (phenocrysts are up to 17 mm). Smaller layers of andesite may be xenoliths within the diorite. Layers range from 0.21 to 6.37 m at the top of the hole (to 35.66), followed by an interval of altered volcanics to the end of the hole.

Diorite has been variably altered by silica, epidote, chlorite and locally by carbonate and iron-carbonate. Trace disseminated pyrite occurs within the diorite.

Alteration within the andesitic units is variable, with moderate to intense epidotization and silicification, locally chloritization, and light to moderate carbonate and iron-carbonate alteration. Quartz, carbonate and epidote occur within veins and fractures.

Three main zones of mineralization occur within the altered volcanics. Mineralization within the first zone, from 16.13 to 27.61 m, includes: trace to 10% pyrite, trace to 1% chalcopyrite, trace to 10% massive magnetite locally to 30%), up to 1% arsenopyrite and up to 5% pyrrhotite, in altered andesites(?)/calc-silicates(?). Gold assays average 1.749 g/t (weighted average) over 2.96 m in the zone.

The second zone of mineralization (not as strong as the first), from 49.00 to 57.44 m, contains trace to 5% disseminated pyrite, up to 3% chalcopyrite, trace arsenopyrite, and up to 4% disseminated pyrrhotite. Weighted average for gold calculated over 0.72 m equals 1.22 g/t, as well as 26.1 g/t Ag and 7014 ppm Cu over the same interval. This zone of altered volcanics is crosscut by quartz-carbonate stringers and veins.

The third zone of mineralization, from 70.27 to 84.39 m, contains trace to 5% disseminated pyrite, up to 1% chalcopyrite, trace arsenopyrite, and up to 1% pyrrhotite (locally to 5%), in garnetiferous altered volcanic(?)/calc-silicate(?) rocks.

SIGNIFICANT INTERSECTIONS:

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5233	16.41-16.55	0.14	225 0.005 oz/ton (0.171 g/t)	1.6	567	125	
5234	16.55-16.86	0.31	1990 0.045 oz/ton (1.54 g/t)	3.3	1274	313	182 Co
5235	16.86-16.97	0.11	1355 0.040 oz/ton (1.37 g/t)	0.4	100	216	112 Co
5236	16.97-17.19	0.22	605 0.018 oz/ton (0.617 g/t)	1.3	84	285	184 Co
5237	17.19-17.72	0.53	3450 0.108 oz/ton (3.70 g/t)	0.5	135	3501	2164 Co
5238	17.72-17.88	0.16	1502 0.047 oz/ton (1.61 g/t)	2.1	990	2495	1483 Co
5239	17.88-18.46	0.58	1750 0.072 oz/ton (2.47 g/t)	0.6	78	1459	761 Co
5240	18.46-18.63	0.17	1620 0.045 oz/ton (1.54 g/t)	0.4	21	3079	1951 Co
5241	18.63-18.89	0.26	1085 0.033 oz/ton (1.13 g/t)	0.7	52	2009	1218 Co
5242	18.89-19.37	0.48	350 0.010 oz/ton (0.343 g/t)	0.3	92	716	466 Co
5246	20.34-20.44	0.14	420 0.012 oz/ton (0.411g/t)	1.4	154	35	
5249	25.15-25.25	0.10	930 0.025 oz/ton (0.857 g/t)	1.1	222	44	
5250	25.25-25.41	0.16	5135 0.169 oz/ton (5.79 g/t)	7.6	2522	174	136 Co
5251	25.41-25.91	0.50	610 0.019 oz/ton (0.651g/t)	1.1	318	25	
5254	26.62-26.95	0.33	495 0.016 oz/ton (0.549 g/t)	0.2	12	26	

SIGNIFICANT INTERSECTIONS (continued)

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5255	26.95-27.41	0.46	225 0.005 oz/ton (0.171 g/t)	0.1	10	19	
5270	49.88-50.16	0.28	540 0.015 oz/ton (0.514 g/t)	3.2	1069	147	
5273	51.39-51.52	0.13	1850 0.050 oz/ton (1.71 g/t)	4.1	1066	745	
5275	51.80-52.12	0.32	490 0.012 oz/ton (0.411 g/t)	2.3	1057	167	
5280	53.95-54.20	0.25	325 0.009 oz/ton (0.309 g/t)	21.1	5725	89	
5281	54.20-54.51	0.31	1225 0.027 oz/ton (0.926 g/t)	11.2	3506	172	
5282	54.51-54.62	0.11	4460 0.118 oz/ton (4.05 g/t)	81.0	22136	410	895 Zn
5283	54.62-54.67	0.05	1610 0.040 oz/ton (1.37 g/t)	8.0	1944	185	
5306	72.92-73.09	0.17	1910 0.062 oz/ton (2.13 g/t)	1.7	429	195	
5307	73.09-73.19	0.10	920 0.027 oz/ton (0.926 g/t)	1.7	661	127	
5308	73.19-73.28	0.09	255	2.0	747	80	
5309	73.28-73.55	0.27	440 0.017 oz/ton (0.583 g/t)	1.1	562	24	

Calculated Length Weighted Averages

16.41-19.37	2.96	0.051 oz/ton (1.749 g/t)		
25.15-25.91	0.76	0.051 oz/ton (1.76 g/t)		
53.95-54.67	0.72	0.0355 oz/ton (1.22 g/t)	26.1 ppm	.70% Cu
72.92-73.55	0.63	0.028 oz/ton (0.975 g/t)		

SUMMARY DDH : **CA88-11**
GRID : McNeil Peninsula
COORDINATES : 7+55N, 0+25E **ELEVATION:** 35 m
LENGTH : 94.49 m **DIP :** -70^{o} **AZIMUTH :** 255^{o}
STARTED : 21/06/88 **STOPPED:** 22/06/88 **CASING :** 3.05 m
LOGGED BY : G. Yip (July 15-16/88)
CORE SAMPLES: 5395-5465

OBJECTIVE:

Drilled from the same set-up as CA88-10, at the same azimuth but a 70^{o} dip, to test the extent of the anomalous gold and sulphide bearing horizons intersected in the previous hole (CA88-10).

GEOLOGY & MINERALIZATION:

From 3.05 m to 17.30 m, drilling intersected alternating layers of dark green altered andesite and fine- to medium-grained, greyish-white diorite, ranging in width from 1.71 to 4.69 m. A 34.53 m wide unit of grey, variably altered diorite was encountered to 51.83 m. At 32.07 m, the diorite becomes more intensely altered and metamorphosed, with intense 'silica flooding', resulting in a loss of original textures to the bottom of the unit. Drilling intersected a light-green to dark-grey andesite from 51.83 to 94.49 m, with locally intense epidotization and silicification, and minor chloritization and carbonate alteration. Locally within the unit, garnet and diopside was noted.

Mineralization within the hole is generally sparse, with two zones of concentration. The first zone, from approximately 13.5 to 17.3 m, contains trace to 4% pyrite, trace to 5% magnetite, up to 1% chalcopyrite, and trace to 5% pyrrhotite. The second zone (52.7 to 58.0 m) includes trace to 3% disseminated pyrite, trace to 1% disseminated chalcopyrite, and trace disseminated pyrrhotite. Both zones of mineralization occur in light green, intensely altered volcanic(?)/calc-silicate(?) rocks.

SIGNIFICANT INTERSECTIONS:

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5404	14.77-15.07	0.30	420 0.012 oz/ton (0.411 g/t)	10.1	2885	223	
5406	15.49-16.32	0.83	325 0.011 oz/ton (0.377 g/t)	0.4	66	55	
5443	56.78-57.27	0.49	360 0.008 oz/ton (0.274 g/t)	15.1	3541	105	300 Zn
5449	61.01-61.28	0.27	640 0.014 oz/ton (0.480 g/t)	0.4	128	18	
5455	62.36-62.71	0.25	250 0.009 oz/ton (0.309 g/t)	1.7	540	43	
5456	66.20-66.75	0.55	12	5.3	2275	31	
5457	66.75-67.12	0.37	147	29.3	12264	230	

SUMMARY DDH : CA88-12
GRID : McNeil Peninsula
COORDINATES : 8+55N, 0+65W
ELEVATION: 32 m
LENGTH : 93.57 m
DIP : -45°
AZIMUTH : 260°
STARTED : 22/06/88
STOPPED: 23/06/88
CASING : 1.52 m
LOGGED BY : G. Yip (July 16/88)
CORE SAMPLES: 5527-5582?

OBJECTIVE:

To test a moderate to strong, possibly northern extension of chargeability Zone F which has associated resistivity lows. A small weak arsenic in soil anomaly occurs in this area also. A 'mineralized zone' occurs within an adit (PT-5) located between lines 9+00N and 8+50N at 1+75W. This drillhole would test a possible extension of this zone.

GEOLOGY & MINERALIZATION:

Predominantly fine- to medium-grained, dark green to grey, variably altered diorite, with 0.98 to 2.13 m wide layers(?) of fine-grained, medium green andesitic tuffs, were intersected from 1.52 m to 93.57 m. (The andesitic layers may be xenoliths within the diorite.) The diorite has been altered by chlorite, epidote, quartz, and locally by carbonate and iron-carbonate. Locally, stringers of quartz, carbonate and epidote crosscut the rock. Trace to 3% pyrite and localized traces of pyrrhotite occur throughout the drillhole.

SIGNIFICANT INTERSECTIONS:

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5534	21.25-21.51	0.26	830 0.028 oz/ton (0.960 g/t)	0.4	215	239	
5535	21.51-21.94	0.43	665 0.024 oz/ton (0.823 g/t)	0.1	52	142	

Length Weighted Average

	21.25-21.94	0.69	0.026 oz/ton (0.892 g/t)

SUMMARY DDH : CA88-13
GRID : McNeil Peninsula
COORDINATES : 8+55N, 0+65W — **ELEVATION:** 32 m
LENGTH : 91.14 m — **DIP** : -70° — **AZIMUTH** : 260°
STARTED : 23/06/88 — **STOPPED:** 24/06/88 — **CASING** : 1.83 m
LOGGED BY : G. Yip (July 17-18/88)
CORE SAMPLES: 5466-5526

OBJECTIVE:

Drilled from the same set-up as CA88-12 in the same direction but at a 70° angle, to test the extent of the anomalous gold zone intersected in the previous hole between 21.25 and 21.94 m.

GEOLOGY & MINERALIZATION:

Dark-grey to medium-green, fine- to medium-grained altered diorite was intersected from 1.83 m to 91.14 m (end of hole). The diorite is locally intensely altered by quartz and epidote to the point that original textures are not visible. From 27.62 m to the bottom of the drillhole, the diorite is moderately foliated, giving the rock a banded appearance. The rock is locally cut by quartz carbonate and epidote stringers, and is locally brecciated. Trace to 5% pyrite occurs disseminated throughout. From 27.62 to 28.11 m is a unit of medium- to dark-grey, fine-grained, intensely silicified volcanic(?) with trace to 1% pyrite and chalcopyrite. At 78.01 to 78.96 m is a medium green, fine-grained feldspar porphyritic dyke.

SIGNIFICANT INTERSECTIONS:

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5472	27.76-27.89	0.13	230 0.009 oz/ton (0.309 g/t)	1.8	835	178	

SUMMARY DDH : CA88-14
GRID : Main Grid
COORDINATES : 4+40N, 1+80E
ELEVATION: 100 m
LENGTH : 133.20 m
DIP : -45^{o}
AZIMUTH : 128^{o}
STARTED : 25/06/88
STOPPED: 29/06/88
CASING : 4.88 m
LOGGED BY : C. Naas (July 16/88)
CORE SAMPLES: 5827-5834

OBJECTIVE:

To test the extent of the anomalous gold and sulphide bearing massive magnetite intersected during the previous phase in DDH88-6 and 7.

GEOLOGY & MINERALIZATION:

Medium- to coarse-grained migmatitic diorite, with agmatitic texture, was intersected from 4.88 m to 133.20 m, with localized areas of finer-grained, rock resembling volcanics(?). Crystals within the diorite form a crude foliation between 40^{o} and 50^{o} to core axis. Small shears and faults are common throughout the unit, as are quartz and epidote alteration and veining. Trace pyrite is found disseminated locally within the unit. A layer of intensely altered migmatitic diorite was encountered between 33.29 and 36.74 m; textures are locally nonexistent. The diorite has been flooded with quartz and carbonate, and contains epidote, quartz and carbonate filled veins.

From 107.89 to 108.01 m, a medium-grained quartz-biotite dyke cuts the diorite, and contains 2% euhedral tourmaline crystals with 1% pyrite. A layer of andesitic ash tuff occurs from 109.21 to 112.88 m and 117.50 to 120.70 m, with quartz and carbonate stringers common throughout.

SIGNIFICANT INTERSECTIONS:

Geochemical analysis of samples taken throughout the drillhole returned only background values for Au, Ag, Cu, and As.

SUMMARY DDH :	**CA88-15**				
GRID :	Main Grid				
COORDINATES :	3+90N, 1+45W			**ELEVATION:**	110 m
LENGTH :	99.67 m	**DIP :**	-50°	**AZIMUTH :**	055°
STARTED :	29/06/88	**STOPPED:**	01/07/88	**CASING :**	12.19 m
LOGGED BY :	G. Yip (July 18/88)				
CORE SAMPLES:	5843-5847				

OBJECTIVE:

This hole was drilled from the same set-up as DDH88-1, 2 and 3 during the previous phase of exploration which were drilled at 310°, 310° and 130° respectively. CA88-15 was drilled in a northeastern direction to test the possible continuity and extent of the massive magnetite horizon encountered in DDH88-6 and 7.

GEOLOGY & MINERALIZATION:

Medium- to fine-grained, light to medium-grey and white migmatite was intersected from 12.19 m to 32.56 m, with a feldspar porphyritic interval between 21.17 and 23.47 m. The migmatite has been locally epidotized and contains areas of intense silicification where original textures are obscured. Stringers of carbonate and quartz occur randomly throughout the unit.

From 32.56 to 56.71 m is a unit of dark green, fine-grained diorite cut by carbonate, quartz, and epidote filled stringers. Locally, the diorite has been intensely altered (quartz? and epidote?), with no original textures remaining and contains trace disseminated pyrite.

The final migmatitic unit to 99.67 m has the same characteristics as the migmatite at the top of the drillhole.

SIGNIFICANT INTERSECTIONS:

Geochemical analysis of samples taken throughout the drillhole returned only background values for Au, Ag, Cu, and As.

SUMMARY DDH : CA88-16
GRID : Main Grid
COORDINATES : 0+15S, 1+30W **ELEVATION:** 225 m
LENGTH : 124.05 m **DIP :** -50° **AZIMUTH :** 100°
STARTED : 02/07/88 **STOPPED:** 05/07/88 **CASING :** 1.52 m
LOGGED BY : C. Naas (July 18, 1988)
CORE SAMPLES: 5583-5697

OBJECTIVE:

To test the downward extent of the skarn zones within the trenches located in the area between L0+00 and L1+00S near the baseline as well as gold and arsenic in soil anomaly.

GEOLOGY & MINERALIZATION:

Overburden (1.52 m) overlies a 33 m interval of grey to green-grey volcaniclastic rock comprising mainly andesitic(?) ash tuff and crystal (feldspar) lithic tuff. Epidote, quartz and carbonate stringers are common throughout. A 4-cm wide quartz vein cuts the volcaniclastic units at 4.54 to 4.83 m however it contains no anomalous values.

Underlying the volcaniclastic unit is a 48.7 m zone termed 'skarn'. The 'skarn' layer is gradational into the contacts above and below by a few metres. Original lithic textures are not discernible. The skarn appears to be predominantly limestone and diopside with possible limy volcanic interbeds. Trace to 1% pyrite occurs throughout. Arsenopyrite blebs appear to occur with the diopside. A zone of quartz-carbonate veins including purple quartz (possibly amethyst) and up to 15% garnet, occurs from 76.31 to 79.76 m. From 79.7 m to 82.51 m calcareous volcanics(?) are cut by quartz and rare amethyst(?) Up to 2% disseminated pyrite occurs in a zone where up to 10% purple quartz was noted. Anomalous gold was not contained within this sample however.

Medium-grained grey diorite occurs from 82.51 to 124.05 m (end of hole). At the upper contact, the diorite is finer grained and extremely altered. Purple quartz, carbonate and epidote occur within 0.5 m of the upper contact. The diorite becomes medium-grained and locally migmatitic and contains stringers of quartz and epidote. Only local to rare epidote and carbonate alteration occur toward the end of the hole. Two 1-cm wide quartz veins occur (i) within the interval 89.02 to 89.24 m and (ii) within the interval 91.26 to 91.46 m. The first one contains anomalous gold (101 ppb), arsenic (319 ppm) and cobalt (149 ppm). The location of the second quartz vein and its sample number is not certain from the drill log, but it does not appear to carry anomalous concentrations of these elements.

The highest gold concentrations occur in the interval from 48.87 to 54.00 m. Here trace to 3% arsenopyrite and up to 1% pyrrhotite and pyrite occur in diopside and purplish-white limestone which contains up to 10% garnet.

SIGNIFICANT INTERSECTIONS:

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5610	19.81-20.15	0.34	1	7.0	18	19	
5634	39.81-40.81	1.00	1	6.5	481	544	1467 Zn
5635	40.81-41.08	0.27	1	2.6	138	556	522 Zn
5642	49.97-50.27	0.30	623 0.019 oz/ton (0.651 g/t)	3.4	12	13324	332 Co
5643	50.27-50.48	0.21	1272 0.038 oz/ton (1.30 g/t)	3.7	6	25638	415 Co
5644	50.48-51.20	0.72	45	0.1	1	1366	
5679	80.16-81.86	1.70	54	0.4	103	286	
5690	89.02-89.24	0.22	101	1.0	180	319	149 Co

Calculated Length Weighted Average:

	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
	49.97-50.48	0.51	890	3.5	-	18395	366 Co

SUMMARY DDH : CA88-17
GRID : Main Grid
COORDINATES : 0+15S, 1+30W
ELEVATION: 225 m
LENGTH : 133.20 m
DIP : -70^{0}
AZIMUTH : 100^{0}
STARTED : 05/07/88
STOPPED: 06/07/88
CASING : 2.13 m
LOGGED BY : C. Naas (July 19/88)
CORE SAMPLES: 5698-5765

OBJECTIVE:

Drilled from the same setup as CA88-16 at a -70^{0} angle to test the extent of the mineralized zone intersected at 49.97 to 50.48 m in the previous hole.

GEOLOGY & MINERALIZATION:

Underlying 2.13 m of overburden is the volcaniclastic unit intersected in the upper DDH CA88-16. At 8.23 m, a 9 cm wide quartz vein with 1% pyrite cuts the tuffaceous unit however no anomalous concentrations of base or precious metals occur in the sample.

The 'skarn' horizon occurs from 26.50 to 81.97 m and appears to be the same interval intersected in DDH CA88-16. Trace to 1% pyrite occurs as well as local pyrrhotite, arsenopyrite and garnet which is associated with weakly anomalous (28 ppb) gold and arsenic in one of the samples (5717).

The anomalous gold occurs within a 'massive diopside' interval which contains trace to 1% pyrite and pyrrhotite and up to 3% arsenopyrite. Anomalous copper and cobalt as well as weakly anomalous silver occurs locally in this zone from 62.63 to 65.71 m.

Medium-grained diorite occurs from 81.97 to 133.20 m with zones resembling migmatites. Zones of quartz, carbonate and epidote alteration occur throughout to the end of the hole.

Near the upper contact of the diorite at 80.81 to 81.64 m anomalous gold (53 ppb), 1778 ppm As and 546 ppm Zn occur just below an interval rich in purple quartz.

SIGNIFICANT INTERSECTIONS:

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5737	62.63-63.47	0.84	14	0.1	11	1870	
5738	63.47-63.77	0.30	45	0.1	3	4242	
5739	63.77-64.23	0.46	234	1.8	524	37424	266 Co
5740	64.23-65.23	1.00	8	0.2	63	2031	
5741	65.23-65.71	0.48	17	0.8	243	1190	
5759	80.81-81.64	0.83	53	0.8	212	1778	546 Zn

SUMMARY DDH : CA88-18
GRID : Main Grid
COORDINATES : 0+15S, 1+30N
LENGTH : 114.91 m
STARTED : 06/07/88
LOGGED BY : C. Naas (July 20/88)
CORE SAMPLES: 5766-5826

DIP : -90^0
STOPPED: 08/07/88

ELEVATION: 225 m
AZIMUTH : n/a
CASING : 1.52 m

OBJECTIVE:

Drilled vertical from the same set-up as CA88-16 and 17 to test the extent and dip of the skarn horizon.

GEOLOGY & MINERALIZATION:

Volcaniclastic rock as intersected in the two previous holes was intersected from 1.52 to 27.25 m (see description in summary for CA88-16). The skarn zone occurs from 27.25 m to 82.18 m. A massive diopside interval from 27.90 m to 28.99 m containing 1 to 2% pyrite, 2 to 3% pyrrhotite contains anomalous gold (59 ppb) and 732 ppm Zn (sample 5767).

Massive diopside with faint 'banding' and 1% pyrite, 2 to 3% arsenopyrite at 51.95 to 52.47 m contains anomalous gold (99 ppb), arsenic (15007 ppm) and 234 ppm Co over 0.52 m.

Medium-grained grey diorite occurs from 82.18 m to the end of the hole at 124.05 m. Zones of quartz-epidote alteration occur over narrow widths within the diorite.

SIGNIFICANT INTERSECTIONS:

Sample	Interval (m)	Length (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)	Other
5767	27.90-28.99	1.09	59	0.3	18	296	732 Zn
5768	28.99-29.35	0.36	22	0.1	2	445	
5770	29.67-30.22	0.55	20	1.2	5	226	
5778	41.89-42.79	0.90	14	0.2	76	2505	
5788	51.95-52.47	0.52	99	1.5	131	15007	234 Co

6.0 PROPOSED WORK PROGRAM

6.1 Plan

The following is an outline of the Phase IV recommended exploration program. On the Main Grid, it will include 4.2 line km of soil sampling, 15.0 line km of magnetometer survey and 1.5 km of road building.

A total of 510 m is to be drilled on the Main Grid area in the following holes:

Station	Azimuth	Dip	Length
L2N 5+00	090	-50	80 m
L2N 5+00	090	-80	80 m
L1+50N 2+25W	057	-80	150 m
New Grid			200 m
Total Length			**510 m**

These holes are to test the extension of the skarn horizon which was intersected in DDH's CA88-16, 17 and 18. The DDH's located at L2N 5+00W are to test the coincident Au geochemistry anomaly, IP anomaly, and massive magnetite outcrop.

On the McNeil Peninsula a 6.0 km magnetometer survey is intended to cover the existing grid. A skid trail will be constructed northwest across the skarn horizon from L3+50N to L8+50N, to speed up the drill moves.

Drill targets are as follows:

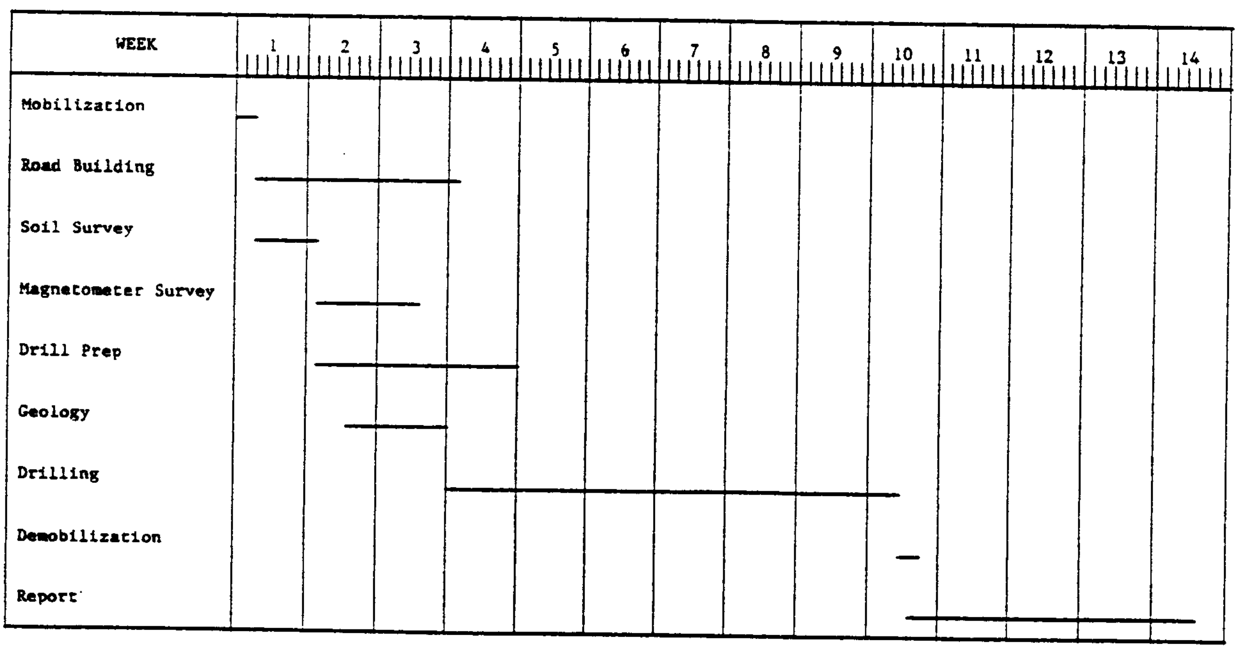
Station	Azimuth	Dip	Length
L8+50N 1+15W	270	-50	80 m
"	-	-90	80 m
L8+00N 0+75W	270	-45	80 m
"	270	-70	80 m
L7+00N 0+00	270	-45	80 m
"	270	-70	80 m
L6+50N 0+00	270	-45	80 m
"	270	-70	80 m
L6+00N 0+25E	270	-45	80 m
"	270	-70	80 m
L5+50N 0+40E	270	-45	80 m
"	270	-70	80 m
L5+00N 0+50E	270	-45	80 m
"	270	-70	80 m
L2+50N 1+40E	270	-45	80 m
"	270	-70	80 m
L2+00N 0+75W	200	-45	100 m
"	200	-70	100 m
Total Length			**1480 m**

The objective of these DDH's is to define in detail the extent of the skarn horizon which contained gold values of up to 7.66 g/t Au over 1.03 m. The DDH's at L2+00, 0+75W are to test the strike, dip and width of the quartz veins which contained up to 390.6 g/t Au and 278.1 g/t Ag.

6.2 Budget

Mobilization/Demobilization	$ 15,000
Personnel	59,300
Support Costs	11,660
Transportation, Communication, Supplies	1,900
Equipment Rental	9,675
Drilling	200,000
Road Building	30,000
Analyses	25,870
Consulting	14,000
Report Preparation	31,160
Administration, 15%	40,000
Contingency, 15%	61,435
Total Cost, say	**$500,000**

6.3 Schedule



7.0 CONCLUSIONS

1. The Contact-Au property is underlain by Upper Paleozoic Sicker Group volcanics and sediments, Vancouver Group volcanics intruded by Westcoast Diorite and metamorphosed during Mesozoic time to form the Westcoast Crystalline complex. Feldspar porphyritic dykes crosscutting the rocks of this complex are probably of Tertiary age.

2. Gold occurs in both quartz veins and in skarn horizons. The quartz veins are located in the southwest portion of McNeil Peninsula. The skarn horizons are located on both the Main Grid and McNeil Peninsula.

3. The high grade quartz veins are narrow, discontinuous, sulphide bearing which strike northwesterly with a moderate northeasterly dip. They contain up to 390.6 g/t Au, 278.1 g/t Ag, 20899 ppm As, 16577 ppm Pb, and 7978 ppm Zn.

4. Grab samples from the skarn horizon on McNeil Peninsula returned up to 4.25 g/t Au, 702.2 g/t Ag, 89624 ppm Cu, 970 ppm Pb and 2705 ppm As. From the Main Grid, grab samples returned up to 6.6 g/t Au, 149.9 g/t Ag, 54,828 ppm Cu, 21,313 ppm Zn, 13,089 ppm As, and 1147 ppm Co.

5. The soil survey on both the Main Grid Detail and the McNeil Peninsula Grid outlined multi-element anomalies including gold and arsenic. On McNeil Peninsula, the soil anomalies corresponded well with the chargeability highs ± resistivity lows. These coincident anomalies line up along a northwest trend from L2+00N, 1+00E to L9+00N, 1+50W.

6. Drill testing of these coincident geophysical and soil geochemical anoamlies was successful in most cases as sulphide bearing skarn horizons were intersected. Significant intersections from the Phase III drill program on McNeil Peninsula include:

Drillhole	Interval (m)	Width (m)	Au g/t	Au (oz/ton)	Other (ppm)	
CA88-6	54.15-54.82	0.68	0.96	(0.028)		
CA88-7	44.06-44.57	0.51	3.48	(0.102)		
CA88-8	29.38-32.98	3.60	0.62	(0.018)	4.3 Ag	986 Zn
incl.	31.36-31.55	0.19	3.57	(0.104)		
CA88-9	31.73-35.51	3.78	2.30	(0.067)		
incl.	34.32-35.35	1.03	7.66	(0.223)	6.6 Ag	974 Cu 86000 As
CA88-10	16.41-19.37	2.96	1.75	(0.051)		950 Co
incl.	17.19-17.72	0.53	3.70	(0.108)		2164 Co
	25.15-25.91	0.76	1.76	(0.051)		
incl.	25.25-25.41	0.16	5.79	(0.169)	7.6 Ag	2522 Cu
	53.95-54.67	0.72	1.22	(0.035)	26.1 Ag	7014 Cu
	72.92-73.55	0.63	0.99	(0.029)		
CA88-12	21.25-21.94	0.69	0.87	(0.026)		

Drillhole CA88-7 contained visible gold within a 3 cm zone of massive diopside.

7. Factors possibly controlling gold mineralization appear to be (i) large scale northwest structures such as the lineament which parallels the high grade quartz veins in the southwest McNeil Peninsula Grid area, (ii) sulphide bearing skarn horizons especially within massive diopside and calc-silicates, and (iii) Tertiary intrusives.

8. The presence of anomalous levels of gold is accompanied by anomalous levels of arsenic. Arsenic does, however, occur independently from gold.

9. Massive magnetite occurs within the skarn horizon but appears to be pod-like in shape. Locally, anomalous levels of gold have been returned from samples taken from the massive magnetite which are located on both the Main Grid and McNeil Peninsula.

10. A structural analysis of orientations of quartz veins, faults, joints and intrusions indicate that the average strike of quartz veins $320^{\circ}/50^{\circ}$NE which is the general strike of the auriferous quartz veins on southwest McNeil Peninsula.

    The average strike of faults is approximately 243° with both northwest and southeast dips. A separate episode is interpreted to strike 280° with a 50° northerly dip which approximately parallels the high grade quartz veins. Leucocratic dykes are approximately parallel with the regional structural trend.

11. Whole rock analyses indicate that the tuffaceous units are basaltic in composition.

12. The geological environment where gold occurs on the Contact-Au property is similar to the Indian Chief deposit located 20 km to the northwest. The Indian Chief deposit is in a skarn resulting from Tertiary plutonism. It is in Sicker Group limestone and volcanic rocks, intruded by granodiorite and by mafic dykes. Mineralization occurs at limestone/granodiorite contacts. Average assay values are 1.5% Cu, 0.3 g/t Au, and 23.3 g/t Ag. Total production before 1981 was 73,593 t, with 1,102,388 kg Cu, 22,456 g Au, and 1707 kg Ag (Muller, et al., 1981).

8.0 RECOMMENDATIONS

The following recommendations are based on conclusions and favourable results from work done on the Contact-Au property during previous phases:

1. The Main Grid should be extended in a westerly direction to 12+00W along lines 1N, 0, 1S, 2S, 3S and 4S. The extended grid will provide additional coverage to the west side of the property which may host skarn mineralization continuous with the main zone.

2. The extended Main Grid be covered by geologic mapping, prospecting, rock sampling and a magnetometer survey. The magnetometer survey would be an accurate cost-effective method for outlining magnetite bearing skarn horizons, and should be run over the entire existing grid. The extended grid lines should also be soil sampled at 25 m intervals. A magnetomter survey is also recommended for the McNeil Peninsula Grid.

3. The 2.3 km road, now approximately half completed, from Ahousat to the Main Grid area, must be completed in order to provide better property access.

4. The coincident Au, Ag, Cu, Zn, Co anomaly of the Main Grid Detail should be drill tested, in view of the presence of massive magnetite and a possible projection of the skarn horizon. The extent of the skarn zone beneath the volcanics between lines 1N and 2N should be tested.

5. A skid trail should be constructed on the McNeil Peninsula over the skarn horizon in a northwest direction. This will provide fresh outcrop exposure in addition to easy access for drillsite construction.

6. Infill drilling between existing holes, especially on lines 5N, 6N and 7N, will test the extent of the mineralized horizons between CA88-8, 9, and CA88-10, 11, on the McNeil Peninsula. A drill should be set up 50 m west of CA88-12, 13, and a shallow hole drilled west to test the soil and IP anomalies and the magnetite bearing skarn horizon, targeted in CA88-12 and 13. It is also recommended that a drill pad be constructed just north of L2+50, 0+75W and one or more holes be drilled at an azimuth of approximately 200°, to intersect the high grade quartz veins at depth.

7. The lineament which trends in a northwesterly direction should be traversed and closely examined for potential association mineralization as it strikes parallel to the high grade quartz veins.

8. The Teritiary(?) leucocratic dykes should be closely examined in areas where they cut the skarn horizons as they may be associated with gold mineralization. Tertiary dykes are an important control in terms of gold mineralization and are the focus of exploration in many areas on Vancouver Island.

9. The cost estimate for the proposed Phase IV program is $500,000.

Respectfully submitted

MPH Consulting Limited

Chris Naas

C. Naas, B.Sc.

Vancouver, B.C.

September 26, 1988

CERTIFICATE

I, C. Naas, do hereby certify:

1. That I presently hold the position of Project Manager/ Geologist with MPH Consulting Limited.

2. That I am a graduate in geology of Dalhousie University (B.Sc., 1984).

3. That I have practised geology in mineral exploration since 1981.

4. That the opinions, conclusions and recommendations contained herein are based on field work carried out on the claims by myself and other MPH Consulting Limited personnel.

6. That I own no direct, indirect, or contingent interest in the subject property or shares or securities of Parallax Development Corporation or associated companies.

Chris Naas

C. Naas, B.Sc.

Vancouver, B.C.
September 26, 1988

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Appendix I

LIST OF PERSONNEL

and

STATEMENT OF EXPENDITURES

LIST OF PERSONNEL AND STATEMENT OF EXPENDITURES

The following expenses have been incurred on the Contact Au property as defined in this report for the purposes of mineral exploration, between May 10 and July 26, 1988.

Personnel:

T.G. Hawkins, PGeol., Consulting Geologist				
18	days	@	$600	$10,800.00
C. Naas, BSc., Project Manager				
81.5	days	@	375	30,562.50
T. Hayes, Field Coordinator				
13.5	days	@	350	4,725.00
K. Lund, BSc., Geophysicist				
12.2	days	@	350	4,270.00
R. Lindholm, Operator				
10	days	@	350	3,500.00
G. Yip, BSc., Geologist				
88.5	days	@	250	22,125.00
B. Thomae, BSc., Geologist				
1.25	hrs	@	35	43.75
21.75	days	@	350	7,612.50
G. Charlie, Field Assistant				
24	days	@	150	3,600.00
J. Lang, Field Assistant				
9	days	@	150	1,350.00
T. Styan, Field Assistant				
8.5	days	@	150	1,275.00
A. van Volsen, Field Assistant				
8	days	@	150	1,200.00
J. Zackodnik, Field Assistant				
22	days	@	150	3,300.00
K. Clarke, Field Assistant				
10	days	@	150	1,500.00
S. Blacquiere, Office Assistant				
0.75	hrs	@	20	15.00
J. Getsinger, PhD., Geologist				
9	days	@	350	3,150.00
J. Adams, Faller				
1	day	@	150	150.00
T. Huebner, Faller				
1.25	days	@	150	187.50
S. Clarke, Field Assistant				
28	days	@	150	4,200.00
L. Carlson, Field Assistant				
45.5	days	@	150	6,825.00

Personnel cont.

R. Bonnar, Field Assistant			
32.5 days @ 150		$ 4,875.00	
T. Neale, BSc., Geologisit			
1 hr @ 50		50.00	
10 days @ 350		3,500.00	
P. Prevost, Field Assistant			
3 days @ 150		450.00	
G. Lorenzetti, BSc., Geologist			
1.5 hrs @ 35		52.50	
9 days @ 250		2,250.00	
			$120,693.75
Food & Accommodation 519.75 mandays @ $55 (including 133 mandays for drilling crew)			28,586.25
Transportation (truck rental, gas, airfares, ferry, etc.)			5,563.07
Equipment Rental			14,991.26
Diamond Drilling			124,933.67
Helicopter			29,290.14
Road Building Equipment			14,141.50
Miscellaneous (supplies, phone, courier, freight, etc.)			5,623.73
Analyses:			
330 soils (Au, ICP)	@ 11.60	$ 3,828.00	
76 rocks (Au, ICP)	@ 13.75	1,045.00	
5 rocks (whole rock by ICP)	@ 9.00	45.00	
2 rocks (thin section)	@ 103.75	207.50	
870 core (Au, ICP)	@ 13.75	11,962.50	
16 (Au + Ag assay)	@ 12.00	192.00	
65 (Au assay)	@ 8.50	552.50	
1 (Ag assay)	@ 7.00	7.00	
5 (Ag assay)	@ 8.50	42.50	
			17,882.00
Report Costs (Typing, Drafting, Copying, etc.)			7,082.59
Administration			30,229.59
			$399,892.25

Appendix II

ROCK SAMPLE DESCRIPTIONS

and

LITHOGEOCHEMICAL RESULTS

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9001	Location: PT-2, Contact 1 claim Sample Type: Chip from outcrop, approx. 1 m wide Rock Type: Altered tuff Dark blue-green, altered, fine-grained tuff(?) with 10% pyrite in masses ranging from 2 to 10 mm. There are numerous voids lined with a rusty brown residue. The weathered surface varies from black to rusty brown and pitted.	640 Au assay 0.018 oz/ton (0.617 g/t)	0.8	1042	220	36.84% Fe
9002	Location: 75 m S of L8+50N on E side of peninsula; Contact 1 claim Sample Type: Grab from outcrop Rock Type: Tuff Dark green fine-grained tuff with approx. 10% dark green subangular lithic fragments in a medium green matrix with 5 to 7% disseminated pyrite throughout.	1	0.1	2	23	
9003	Location: 5 m N of L3+50N on W side of peninsula; Contact 1 claim Sample Type: Grab from outcrop Rock Type: Tuff (basic(?)) Very fine-greained, dark grey-black ash tuff(?) with 3 to 5% black mafic fragments ranging from <0.5 mm to approx. 1.0 mm. There are numerous "flowy" whitish blebs 1 to 3 mm in size, and a trace of finely disseminated chalcopyrite(?).	3	0.2	18	89	
9004	Location: McNeil Peninsula; shoreline at L2N Sample Type: Grab from outcrop Rock Type: Quartz vein A 2 cm wide quartz vein. Middle of quartz vein is vuggy. Dark grey lines in middle of quartz vein are 0.2 cm wide, there are 2 to 3% fine-grained sulphides of arsenopyrite, pyrite and trace chalcopyrite.	95	0.1	887	60	

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9005	Location: NcNeil Peninsula; shoreline near L2N Sample Type: Grab from outcrop Rock Type: Quartz vein A 3 cm wide quartz vein. Middle and edges are dark grey, ranging from 3 to 5 mm thick of fine-grained sulphides. Sulphides include sphalerite, arsenopyrite, and pyrite. Inside quartz vein weathers rusty brown.	2350 Au assay 0.071 oz/ton (2.43 g/t)	0.8	16480	26	870 Zn
9006	Location: 53 m N of boy on peninsula; Contact 1 claim Sample Type: Grab from outcrop Rock Type: Ash tuff (basic(?)) Dark grey-black ash tuff with approx. 5% black sub-angular mafic crystal fragments. Several crosscutting and subparallel fractures ($\leq$0.5 mm) filled with massive milky white quartz. Traces of pyrite(?) and arseno-pyrite(?) as fracture fill and disseminated grains within the host.	1	0.1	2	136	
9007	Location: 24 m N of L1+00 on the W side of the peninsula, Contact 1 claim Sample Type: Chip from outcrop, approx. 25 cm wide Rock Type: Quartz vein Massive, grey-green quartz with crosscutting fractures (approx. 0.5 mm) some of which are filled with epidote. Epidote also occurs as blebs (0.5 to 1.0 mm). There is a trace of very finely disseminated pyrite.	9	0.1	8	41	

MPH

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9008	Location: 137 m N of L1+00N on the W side of the peninsula, Contact 1 claim Sample Type: Chip from outcrop, 15 to 20 cm wide Rock Type: Quartz vein Grey-white massive quartz with approx. 30% wall rock (hanging wall). Quartz appears to be layered parallel to fracture surface. Wall rock appears to be an altered dark green tuff(?). Patches of epidote alteration (approx. 1.5 cm) within quartz vein. Traces of finely disseminated pyrite in both the vein and wall rock.	119	1.1	25	902	
9009	Location: 7 m N of L2+00N on W side of peninsula; Contact 1 claim Sample Type: Chip from outcrop; approx. 1.5 cm wide Rock Type: Quartz vein Massive grey and white with approx. 25% massive pyrite and approx. 5% disseminated masses of arsenopyrite.	49200 Au assay 1.468 oz/ton (50.33 g/t) Ag assay 1.30 oz/ton (44.57 g/t)	46.3	72182	612	11009 Pb 20337 Zn 127 Cd 103 Sb
9010	Location: 2 to 7 m N of L2+00 on W side of peninsula; Contact 1 claim Sample Type: Chip from outcrop; approx. 10 cm wide Rock Type: Tuff(?) Dark green-black, very fine-grained tuff. Rock appears to be foliated. The foliation is defined by light and dark green fine-grained fragments and elongated grey-white quartz blebs. There is one white quartz stringer approx. 7 mm wide. Traces of very finely disseminated grains of pyrite(?). Chip of approx. 10 cm from vein on footwall.	2470 Au assay 0.068 oz/ton (2.33 g/t)	5.3	2037	233	1375 Pb 4543 Zn

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9011	Location: 13 m N of L2N on W side of peninsula; Contact 1 claim Sample Type: Chip from outcrop; 7 to 10 cm wide Rock Type: Quartz vein Blue-grey quartz vein with approx. 50% altered and silicified wall rock(?) fragments (1 to 2 cm) approx. 10% arsenopyrite and 2 to 3% pyrite(?).	285200 Au assay 11.388 oz/ton (390.45 g/t) Ag assay 8.11 oz/ton (278.06 g/t)	204.4	20889	1212	16577 Pb 7978 Zn
9012	Location: McNeil Peninsula at L2N on shore Sample Type: Grab from outcrop Rock Type: Crystal lithic tuff Sample is from hanging wall 30 cm from sample 9011. Contains 20 to 25% white <1.5 mm feldspar crystals and 20 to 25% <1 mm mafic clasts in a dark green fine-grained matrix. Sample contains numerous epidote-carbonate stringers ranging from <0.5 mm to 1 mm wide. Contains trace fine-grained disseminated pyrite.	3210 Au assay 0.085 oz/ton (2.91 g/t)	1.3	1443	121	4241 Pb 665 Zn
9013	Location: McNeil Peninsula; shoreline at L2N Sample Type: Grab from outcrop Rock Type: Altered volcanics Sample is pale green, extremely altered volcanics to epidote, carbonate and quartz. Quartz stringers ranging from 3 to 8 mm are common. Dark grey lines within quartz veins are fine-grained sulphides of sphalerite, galena, pyrite, chalcopyrite and arsenopyrite.	3250 Au assay 0.085 oz/ton (2.91 g/t)	2.2	9987	155	598 Pb 1736 Zn

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9014	Location: 71 m N of L4+5N on W side of peninsula; Contact 1 claim Sample Type: Grab from outcrop Rock Type: Tuff Dark green-black, fine-grained tuff with 10% angular mafic fragments (approx. 0.5 mm) and 3% epidote in interstices. Epidote also as masses (<0.5 to 10 mm). Chalcopyrite occurs as fracture fill (approx. 3%) and 1% disseminated grains.	1575 Au assay 0.041 oz/ton (1.40 g/t) Ag assay 0.28 oz/ton (9.60 g/t)	10.9	221	3164	101 Co
9015	Location: 71 m N of L4+5N on W side of peninsula; Contact 1 claim Sample Type: Grab from outcrop Rock Type: Tuff Dark green, very fine-grained tuff with approx. 5% blebs of whitish quartz, ranging from 0.5 to 5 mm and 3 to 5% angular mafic fragments. Few crosscutting fractures (0.5 to 1.0 mm) filled with quartz. Contains 5 to 7% disseminated chalcopyrite.	112	17.1	288	3744	255 Zn 138 Co
9016	Location: 76 m N of L4+5N on W side of peninsula; Contact 1 claim Sample Type: Chip from outcrop, approx. 15 cm wide Rock Type: Quartz vein Whitish-grey-green massive quartz carbonate with 3% chalcopyrite in masses (1 to 10 mm) and 1% pyrrhotite in a 1 cm mass. Contains 5 to 7% host rock.	590 Au assay 0.017 oz/ton (0.58 g/t) Ag assay 0.32 oz/ton (10.97 g/t)	11.7	2625	2252	1108 Co 365 W

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9017	Location: 76 m N of L5 stn 1+00W; Contact 1 claim Sample Type: Chip from outcrop, approx. 15 cm wide Rock Type: Altered tuff(?) Dark green-black, very fine-grained altered tuff(?) with several whitish blebs of quartz (<1.0 cm). Contains 20% pyrite in masses ranging from 0.5 to 25 mm. (wall rock of #9016).	1130 Au assay 0.029 oz/ton (0.99 g/t)	0.7	923	544	414 Co
9018	Location: 184 m N of L7+5N stn 1+15W on peninsula; Contact 1 claim Sample Type: Grab from outcrop Rock Type: Tuff Dark grey-green, fine-grained tuff. Contains 1% mafic(?) angular fragments and 1% whitish flecks. Subparallel fractures filled with quartz and minor amounts of epidote. Trace to 1% finely disseminated arsenopyrite and chalcopyrite(?).	32	0.2	26	499	
9019	Location: 18 m S of L10N stn 0+74E; Contact 1 claim Sample Type: Grab from outcrop Rock Type: Altered tuff(?) Light green and grey tuff(?). Intensely altered to epidote with parallel whitish veins of quartz-carbonate with approx. 15% finely disseminated pyrite parallel to veining.	55	0.1	122	28	
9020	Location: 72 m N of L9N stn 1+56E on peninsula; Contact 1 claim Sample Type: Grab from outcrop Rock Type: Altered tuff(?) Dark grey-green altered tuff(?) and grey-white quartz vein. Tuff is black and altered to epidote. The quartz portion contains angular tuff(?) fragments approx 0.5 mm and 1 to 2 mm sized patches of epidote. Contains 3% finely disseminated pyrite throughout.	87	1.2	169	273	

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9021	Location: East side of McNeil Peninsula Sample Type: Grab from outcrop Rock Type: Altered volcanic(?) Light blue-green altered volcanic(?). Very intensely silicified, no original textures visible. With 3 to 5% disseminated pyrite. Weathered surface is rusty brown. Sample taken from shear at 046/66°S.	2	1.1	16	504	
9022	Location: East side of McNeil Peninsula Sample Type: Grab from outcrop Rock Type: Altered volcanic Dark grey-brown altered volcanic(?). Very intensely silicified, no original textures visible. With hairline fractures with rusty halos and 3 to 5% disseminated pyrite. Weathered surface is orange-brown in colour. Sample taken from fault at 099/80°N.	6	0.2	2	177	
9023	Location: East side of McNeil Peninsula Sample Type: Chip from outcrop, 15 cm wide Rock Type: Altered volcanic Medium grey-blue, altered, fine-grained volcanic with wispy blebs of grey-white quartz and the host has been altered to chlorite. Contains 1 to 2% finely disseminated pyrite throughout. Sample taken from 15 cm shear at 050/60°N.	5	0.1	2	122	
9024	Location: Shoreline of McNeil Peninsula at L2N Sample Type: Grab from outcrop Rock Type: Quartz vein A 3 cm wide quartz vein. Middle of quartz vein is vuggy. Dark grey lenses in middle of quartz vein are 0.5 cm thick and are 10 to 20% fine-grained sulphides of sphalerite, galena and pyrite with minor chalcopyrite.	5960 Au assay 0.306 oz/ton (10.49 g/t)	5.7	19763	194	3381 Pb 1504 Zn

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9025	Location: McNeil Peninsula, shoreline near L2N Sample Type: Grab from outcrop Rock Type: Quartz vein A 3 cm wide quartz vein hosted in green altered volcanics. Contains 5 to 7% arsenopyrite, 1 to 2% chalcopyrite, 2 to 3% galena and sphalerite. Sample differs from other quartz in the area in that the sulphides are not fine-grained.	140400 Au assay 3.522 oz/ton (120.75 g/t) Ag assay 3.08 oz/ton (105.6 g/t)	75.7	99999	1325	12712 Pb 53253 Zn 296 Cd 141 Sb
9026	Location: Showing on main grid, MT-1 L4+67N, stn 1+25 W Sample Type: Grab from outcrop Rock Type: Massive sulphides Dark grey-black massive sulphides. Contains 70% massive magnetite, 5 to 10% disseminated chalcopyrite, 15 to 20% disseminated pyrite and a trace of bornite(?).	2890 Au assay 0.071 oz/ton (2.43 g/t)	149.9	142	54828	1474 Zn 116 W
9027	Location: Showing on main grid, MT-1, L4+67N, stn 1+25W Sample Type: Grab from outcrop Rock Type: Altered volcanic(?) Light grey-white, very intensely altered volcanic(?). No original textures visible. On margins near weathered surfaces, alteration occurs in orange patches (3 to 5 mm). In the core, alteration occurs in light and dark grey patches. Trace of finely disseminated pyrite in hairline fractures. Weathered surface is orange to dark brown in colour.	8	2.5	13	352	

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9028	Location: Adit on main grid, L0+40N, stn 0+62W Sample Type: Grab from outcrop Rock Type: Skarn Light green intensely altered carbonate. Host is moderately epidotized. Contains 2 to 3% sphalerite(?) in patches throughout (1.0 to 5.0 mm). Weathered surface is orange in colour. Approx. 12 m into adit.	3	4.5	165	1208	
9029	Location: Adit on main grid, L0+40N, stn 0+62N Sample Type: Grab from outcrop Rock Type: Skarn Medium grey altered volcanic(?). No original textures visible. Epidote alteration and minor carbonatization. Contains 3 to 5% finely disseminated pyrite and sphalerite(?). Weathered surface orange to rusty brown. Approx. 12 m into adit.	3	3.2	153	511	
9030	Location: Adit on main grid, L0+40N, stn 0+62N Sample Type: Grab from outcrop Rock Type: Skarn Medium grey-brown, fine-grained, altered volcanic(?). Epidote alteration of host. Contains 5% disseminated pyrite, trace of chalcopyrite and 5 to 7% disseminated magnetite. Weathered surface is rusty brown and purple. Approx. 12 m into adit.	1	2.3	23	737	
9031	Location: Main grid, baseline at L1N Sample Type: Grab from outcrop Rock Type: Calc-silicate Sample is massive, fine-grained, pale green diopside with 10 to 20% carbonate. Carbonate stringers are common. Original textures are non-existent. Contains 4 to 5% arsenopyrite as fine grains and clusters up to 5 mm wide.	6805 Au assay 0.195 oz/ton (6.69 g/t)	0.5	13089	14	1147 Co

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9032	Location: Main grid on baseline at L0+13S Sample Type: Grab from outcrop Rock Type: Altered volcanic(?) Light green, fine-grained, intensely altered volcanic(?). Intensely epidotized and silicified with little of original textures visible. Numerous vugs (<0.5 mm) coated with an orange oxide. Trace to 2% finely disseminated pyrite. Weathered surface is orange to dark blue in colour.	21	0.1	1485	22	
9051	Location: Main grid, trench @ L2+00N, stn 4+60W Sample Type: Grab from outcrop Rock Type: Massive magnetite Black, vesicular, massive, fine-grained magnetite. Minor green chlorite, quartz and rusty brown crystalline (?) up to 2 mm in size (?) forms <3 mm wide veins parallel to magnetite veins. Outcrop has magnetite vein >1 cm striking approx. 090° with a 54°N dip. Veins are irregular in shape.	23	0.1	135	667	125 Co
9052	Location: Main grid on baseline between L1S and L0 Sample Type: Grab from outcrop Rock Type: Tuff Dark green to grey andesite tuff. Contains 15% white, rounded feldspar crystals <1.5 mm, 10% dark grey to green mafic clasts in a fine-grained green matrix. Slight lineation defined by dark green mafic clasts. Contains 1 to 2% fine-grained disseminated pyrite. Surface weathers rusty brown.	2	0.1	38	91	

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9053	Location: Main grid on baseline @ L0+28S Sample Type: Grab from outcrop Rock Type: Metavolcanic Dark grey metamorphosed andesite(?). Lineations throughout sample are defined by <0.5 mm white feldspar bands. Contains 3 to 5% fine-grained disseminated pyrite, trace calcium carbonate. Surface weathers rusty brown.	1	0.3	82	30	
9054	Location: Main grid on baseline @ L3+00N Sample Type: Grab from outcrop Rock Type: Altered andesite-basalt Pale green, fine-grained altered andesite(?). Alteration is epidote, minor calcium carbonate and iron carbonate. Contains hairline fractures filled with pyrite. Trace fine-grained disseminated pyrite. Surface weathers rusty brown, locally coated with thin layer of hematite.	5	0.1	38	10	
9055	Location: Main grid, baseline at L3+50N Sample Type: Grab from outcrop Rock Type: Calc-silicate Sample is 70 to 80% massive, fine-grained diopside with 20 to 25% fine-grained quartz, carbonate and chlorite. Original textures are non-existent. Trace to 1% fine-grained disseminated pyrite.	12	0.2	46	123	
9056	Location: Main grid, L3+30N at baseline Sample Type: Grab from outcrop Rock Type: Massive sulphides Sample contains 60 to 70% massive black fine-grained magnetite, 10 to 15% chalcopyrite and pyrite with 10 to 20% altered greyish-green volcanics.	72	1.9	232	512	

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9057	Location: Main grid, 20 m S of MA-2 Sample Type: Grab from outcrop Rock Type: Altered volcanic Pale green, altered ash tuff(?). Contains 40 to 50% epidote with chlorite, carbonate and quartz. Several fractures throughout sample which are filled with pyrite and trace chalcopyrite. Contains 1 to 2% fine-grained disseminated pyrite.	31	2.9	224	311	
9058	Location: Main grid, L0+60N, stn 0+58W, trench MT-3 Sample Type: Grab from outcrop Rock Type: Calc-silicate Pale green, fine-grained calc-silicate. Rock is composed mostly of epidote + diopside with 10 to 20% mafic minerals. Contains 2 to 3% pyrite.	15	5.7	330	674	
9059	Location: Main grid, L1+25N, stn 0+40W, trench MT-2 Sample Type: Grab from outcrop Rock Type: Massive sulphides Sample is 50% massive magnetite, 30% fine-grained pyrrhotite, 10% fine-grained pyrite and 5% altered grey volcanics(?) and 5% fine-grained chalcopyrite. Sample weathers dark reddish brown.	22	2.1	85	719	
9060	Location: Main grid, L1+25N, stn 0+40W, trench MT-2 Sample Type: Grab from outcrop Rock Type: Calc-silicate Sample is extremely altered. Contains 40-50% fine-grained pale green diopside + epidote(?), 30 to 40% milky white to brown carbonate and 5 to 10% quartz. Numerous fractures throughout sample. Sample weathers rusty brown. Contains 2 to 3% pyrite as fracture filling.	1	0.6	25	116	

MPH

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9061	Location: McNeil Peninsula, trench PT-4 Sample Type: Chip from outcrop, 2 m wide Rock Type: Altered volcanics Sample is a chip across 2 m along bottom (western) part of trench. Sample is composed mostly of greenish-grey volcanics with 30% calcite stringers of various directions and up to 40% fine-grained pyrite from within volcanics. Calcite stringers contain 1 to 2% pyrite.	11700 Au assay 0.208 oz/ton (7.13 g/t)	3.8	1856	21	
9062	Location: McNeil Peninsula, trench PT-4 Sample Type: Grab from outcrop Rock Type: Altered volcanics Pale green, altered volcanic. Alteration products include epidote, carbonate and quartz comprising 40% of the sample. Sample rocks host skarn mineralization found in trench. Contains trace to 1% pyrite.	37	0.4	68	9	
9063	Location: McNeil Peninsula, trench PT-4 Sample Type: Chip from outcrop, 2 m wide Rock Type: Calcite stringers Sample is 60% smoky white calcite, 20 to 30% greenish-grey mafics and 10 to 15% massive, fine-grained to 2 mm euhedral cubes of pyrite. Sample is 2 m chip across trench, covering massive sulphide areas.	1510 Au assay 0.050 oz/ton (1.71 g/t)	0.8	652	29	
9064	Location: McNeil Peninsula, trench PT-4 Sample Type: Grab from outcrop Rock Type: Massive magnetite Sample is 90% massive, fine-grained magnetite with 5 to 10% dark green mafics and 1 to 3% fine-grained disseminated pyrite.	131	0.4	160	18	

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9065	Location: McNeil Peninsula, trench PT-4 Sample Type: Grab from outcrop Rock Type: Calcite stringers Calcite stringers in euhedral crystal form ranging from <1 mm to 5 mm, hosted in greenish-grey volcanics(?). Minor magnetite. Trace fine-grained disseminated pyrite.	18	0.3	36	15	
9066	Location: McNeil Peninsula, trench PT-4 Sample Type: Grab from outcrop Rock Type: Calcite vein Smoky white calcite vein ranging from 10 to 15 cm wide, striking 170° with a 30° dip to the east. The centre of the vein is vuggy with euhedral crystals of up to 4 mm in size. Trace fine-grained disseminated pyrite. The calcite vein is hosted in massive magnetite.	96	0.2	184	28	
9067	Location: McNeil Peninsula, trench PT-4 Sample Type: Grab from outcrop Rock Type: Altered volcanics Sample is intensely altered, pale green volcanic(?) with alteration products of epidote, diopside(?), quartz, carbonate and chlorite. Original textures are non-existent. Contains trace fine-grained disseminated pyrite. Sample is wall rock of mineralized zone of calcite and pyrite (sample 9063).	73	0.3	84	9	
9068	Location: McNeil Peninsula, trench PT-4 Sample Type: Grab from outcrop Rock Type: Massive sulphides Sample is 70 to 80% massive, fine-grained magnetite, with 20 to 25% massive, fine-grained pyrite and 1 to 5% fine-grained dark green mafics.	2310 Au assay 0.073 oz/ton (2.50 g/t)	1.7	1671	150	

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9069	Location: McNeil Peninsula, trench PT-4 Sample Type: Grab from outcrop Rock Type: Calcite stringers Greenish-grey, fine-grained volcanics(?) containing calcite stringers of up to 1 cm wide in various directions. Contains 40% massive pyrite in altered volcanics with 1 to 2% pyrite in calcite stringers.	1460 Au assay 0.049 oz/ton (1.68 g/t)	0.6	1647	60	
9070	Location: McNeil Peninsula, trench PT-1 Sample Type: Grab from outcrop Rock Type: Massive sulphides Massive chalcopyrite, magnetite and pyrite. Sample contains 60% chalcopyrite, 25% magnetite, 5% pyrite and 10% altered volcanics with trace malachite.	4080 Au assay 0.124 oz/ton (4.25 g/t) Ag assay 20.48 oz/ton (702.1 g/t)	255.3	2705	89624	970 Zn
9071	Location: McNeil Peninsula, trench PT-1 Sample Type: Grab from outcrop Rock Type: Massive sulphides Sample is 30 to 35% chalcopyrite, 20 to 25% magnetite, 5 to 10% pyrite, 5% calcite and 20 to 30% grey altered fine-grained volcanics(?).	94 Au assay 1.01 oz/ton (34.62 g/t)	34.0	333	7620	172 Co
9072	Location: McNeil Peninsula, trench PT-1 Sample Type: Chip from outcrop, 2 m wide Rock Type: Massive magnetite Sample is 60 to 70% massive, fine-grained magnetite with 20 to 30% dark green mafics and 5% fine-grained disseminated pyrite.	2530 Au assay 0.116 oz/ton (3.98 g/t) Ag assay 13.79 oz/ton (472.8 g/t)	314.6	3174	79696	851 Zn 1060 Co

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9073	Location: Main grid on L1+00S, stn 3+00W, trench MA-3 Sample Type: Chip from outcrop, 3 m wide Rock Type: Massive sulphides Sample is dark grey, 60 to 70% massive magnetite with 2 to 3% fine-grained disseminated pyrite and trace of chalcopyrite with 30 to 35% dark green, fine-grained mafics.	340 Au assay 0.011 oz/ton (0.377 g/t) Ag assay 0.41 oz/ton (14.06 g/t)	15.1	3741	3410	988 Co
9074	Location: McNeil Peninsula, trench PT-1 Sample Type: Chip from outcrop, 3 m wide Rock Type: Altered volcanics(?) Sample is 10 to 20% massive, fine-grained magnetite, 5 to 10% calcite stringers ranging from <1 mm to 3 mm, 60 to 70% fine-grained dark green mafics and 5% fine-grained disseminated pyrite.	107	3.4	335	704	
9075	Location: Shoreline at L2N - McNeil Peninsula Sample Type: Grab from outcrop Rock Type: Altered volcanics Pale green, altered volcanics. Alteration products are epidote, quartz, chlorite comprising entire rock. Sample is wall rock from hanging wall, 25 cm from sample 9011. Contains trace fine-grained disseminated pyrite.	12	0.1	44	81	
9076	Location: Main grid S of drill pad 10 Sample Type: Grab from outcrop Rock Type: Skarn(?) Medium green-grey, fine-grained, intensely altered volcanic(?). No original textures visible. Numerous vugs (0.5 to 1.5 mm) with rusty brown coatings. Weathered surface is orange-brown to black in colour.	42	0.1	596	7	

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9077	Location: Main grid, trench on L1+00S stn 2+54W Sample Type: Grab from outcrop Rock Type: Skarn Rusty brown to black, massive magnetite with angular fragments of altered host(?) with 10 to 15% disseminated pyrite. Weathered surface is rusty brown to black in colour.	14	57.9	155	10407	21313 Zn
9078	Location: Main grid; trench at L1+00S stn 2+54W Sample Type: Grab from outcrop Rock Type: Tuff Dark blue-grey, fine-grained ash tuff with angular mafic fragments, altered to chlorite. Numerous patches (approx. 1.0 mm) of epidote alteration. No visible mineralization. Weathered surface is rusty brown.	4	0.6	75	581	
9079	Location: Main grid, adit @ L1+00S, stn 3+00W Sample Type: Grab from outcrop Rock Type: Massive magnetite Massive, purple magnetite with magnetite fragments supported by an off-white mineral with a feathery habit. Trace amounts of disseminated pyrite. Weathered surface is rusty brown to purple.	8	3.5	1620	530	
9080	Location: Main grid, adit @ L1+00S, stn 3+00W Sample Type: Grab from outcrop Rock Type: Gossanous magnetite Rusty brown gossanous magnetite with numerous vugs ranging from 1.0 to 3.0 mm. Weathered surface is rusty brown in colour.	8	2.6	223	340	

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9081	Location: Main grid, adit @ L1+00S, stn 3+00W Sample Type: Grab from outcrop Rock Type: Altered volcanic(?) Medium grey-yellow, fine-grained altered volcanic(?). Intensely silicified and with patchy epidote alteration. Numerous vuggy fractures (0.5 to 1.5 mm) with rusty coloured coatings. Weathered surface is yellow to black in colour.	5	2.6	419	212	
9082	Location: Main grid, adit @ L1+00S, stn 3+00W Sample Type: Grab from outcrop Rock Type: Altered volcanic(?) Light brown, fine-grained, altered volcanic(?). Intensely silicified with patchy epidote alteration. No original textures visible. Sub-parallel hairline fractures with rusty coloured coatings. Weathered surface is rusty brown in colour.	3	1.7	323	272	
9083	Location: Main grid, adit @ L1+00S, stn 3+00W Sample Type: Grab from outcrop Rock Type: Altered volcanic(?) Medium brown, fine-grained, altered volcanic(?). Intensely silicified. No original textures visible. Numerous crosscutting fractures (0.5 to 1.0 mm) coated with a rusty brown residue. Weathered surface is orange to black in colour.	2	1.8	199	261	

MPH

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
9084	Location: Main grid, adit @ L1+00S, stn 3+00W Sample Type: Grab from outcrop Rock Type: Altered volcanic(?) Orange-brown, gossanous, fine-grained volcanic(?). Intensely silicified with localized epidote alteration. Numerous sub-parallel and crosscutting fractures (vuggy) with rusty coloured coatings. Trace to 1% disseminated pyrite. Weathered surface orange to brown-black in colour.	4	7.3	227	508	
7Y3-1	Location: Contact 1 claim NW of main grid Sample Type: Grab from outcrop Rock Type: Foliated volcanic Dark green, fine-grained, altered, foliated volcanic with patches (1.0 to 3.0 mm) of chlorite parallel to foliation. Also localized patches of quartz (2 to 25 mm). No visible mineralization. Weathered surface is brown to green in colour.	1	0.1	8	342	
7Y3-2	Location: Contact 1 claim NW of main grid Sample Type: Grab from float Rock Type: Altered volcanic(?) Off-wite, altered volcanic(?). Very intensely altered (silicified). No original textures visible. Numerous buff-brown patches separated by crosscutting fractures ($\leq$0.5 mm). Traces of finely disseminated pyrite. Weathered surface brown to pink in colour.	1	0.1	26	88	

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
7Y3-3	Location: Contact 1 claim NW of main grid Sample Type: Grab from outcrop Rock Type: Altered volcanic Brownish-green, very intensely silicified, fine-grained volcanic(?) with numerous vugs coated with a rusty brown residue. No visible mineralization. Weathered surface is dark brown.	12	0.1	8	14	210 Zn 2067 Mn
7Y3-4	Location: Contact 1 claim NW of main grid Sample Type: Grab from outcrop Rock Type: Altered volcanic Dark greenish-brown, fine-grained volcanic(?). Very intensely silicified. Original textures not visible. No visible mineralization. Weathered surface is buff in colour.	4	1.6	156	1002	
7Y3-5	Location: Contact 1 claim NW of main grid Sample Type: Grab from outcrop Rock Type: Altered volcanic(?) Brownish-green, intensely silicified, fine-grained volcanic(?). No original textures visible. Numerous small 'pits' (<0.5 mm) coated with a rusty brown residue. No visible mineralization. Weathered surface is purple to rusty orange in colour.	1	0.1	8	16	
7Y3-6	Location: Contact 1 claim NW of main grid Sample Type: Grab from outcrop Rock Type: Altered andesite Dark green, fine-grained, altered andesite. Intensely silicified, with localized patches of quartz. Contains 1 to 2% finely disseminated pyrite. Weathered surface is dark brown in colour.	8	9.5	213	5161	881 Zn

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
7Y3-7	Location: Contact 1 claim NW of main grid Sample Type: Grab from outcrop Rock Type: Altered volcanic(?) Medium green, very fine-grained volcanic(?). Very intensely silicified; no original textures visible with sub-parallel fractures ($\leq$1.0 mm) filled with iron carbonate. Traces of finely disseminated pyrite throughout. Weathered surface is buff-brown in colour.	1	0.1	7	10	
7Y3-8	Location: Contact 1 claim NW of main grid Sample Type: Grab from outcrop Rock Type: Massive magnetite Black massive magnetite with patches of brownish quartz (approx. 1.0 cm). Weathered surface is black to rusty brown in colour.	7	0.3	39	25	36.88% Fe 24 W
7Y3-9	Location: Contact 1 claim NW of main grid Sample Type: Grab from outcrop Rock Type: Quartz Medium-grained, sugary, brown quartz with subhedral to anhedral quartz crystals, 15 to 20%; patches of magnetite. Weathered surface is buff-brown in colour.	1	0.2	55	36	2076 Mn 73 W
7Y3-10	Location: Contact 1 claim NW of main grid Sample Type: Grab from outcrop Rock Type: Massive quartz Brownish-grey, massive quartz with numerous vuggy patches (1.0 to 4.0 mm) coated with a rusty brown residue. No visible mineralization. Weathered surface is dark brown in colour.	2	0.1	45	6	

MPH

Appendix III

CERTIFICATES OF ANALYSIS

A. ROCK SAMPLES

(i) Assays

(ii) Au (AA)

(iii) ICP

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 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: ROCK AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: MAY 29 1988 DATE REPORT MAILED: June 7/88 ASSAYER. C. Leong ..D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING PROJECT-V?483 File # 88-1643

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
M 9001	1	220	2	119	.8	22	51	1124	36.84	1042	5	ND	4	2	1	2	16	152	.07	.032	2	26	.74	5	.14	19	2.16	.02	.02	1	640
M 9002	1	23	2	31	.1	5	23	498	3.16	2	5	ND	1	76	1	2	3	93	1.63	.071	2	19	1.27	14	.15	6	2.02	.24	.11	1	1
M 9003	1	89	2	73	.2	18	60	840	3.82	18	5	ND	1	36	1	2	2	104	.76	.051	2	13	2.28	9	.17	3	2.29	.14	.08	1	3
M 9004	5	60	3	37	.1	20	37	1684	3.03	887	5	ND	1	26	1	2	2	83	1.35	.061	2	6	.18	7	.02	391	.50	.04	.01	2	95
M 9006	1	136	3	69	.1	10	30	676	5.09	2	5	ND	1	27	1	2	3	131	1.32	.272	2	17	2.02	3	.22	9	2.21	.07	.02	1	1
M 9007	1	41	3	14	.1	6	5	212	1.21	8	5	ND	4	24	1	2	2	22	.96	.015	7	4	.36	8	.10	12	1.05	.08	.06	1	9
M 9008	1	902	4	31	1.1	29	23	312	2.09	25	5	ND	4	96	1	2	3	46	.98	.021	3	19	.71	4	.14	6	1.23	.04	.02	1	119
M 9009	3	612	11009	20337 ✓	46.3	7	7	127	11.82	72182 ✓	5	44	1	10	127	103	2	10	.26	.005	2	15	.09	3	.01	3	.49	.06	.07	7	49200
M 9010	1	233	1375	4543	5.3	27	25	1095	5.92	2037	5	2	1	22	25	2	2	105	1.06	.068	2	64	2.38	11	.16	4	2.28	.06	.08	1	2470
M 9011	1	1212	16577 ✓	7978	204.4 ✓	18	13	153	11.09	20889 ✓	5	346	1	26	40	36	4	29	.13	.045	2	21	.28	10	.08	4	.60	.04	.17	1	285200 ✓
M 9012	1	121	4241	665	1.3	36	20	882	6.00	1443	5	2	1	19	3	2	2	125	.50	.097	2	50	2.07	9	.20	4	2.26	.05	.17	1	3210
M 9014	1	3164	121	182	10.9	35	101	1553	9.37	221	5	ND	1	43	2	2	2	66	2.63	.045	2	28	1.07	28	.11	71	1.98	.10	.18	1	1575
M 9015	2	3744	38	255	17.1	54	138	824	5.61	288	5	ND	1	30	2	2	2	59	.71	.042	2	19	1.48	6	.12	22	1.80	.08	.04	1	112
M 9016	1	2252	17	143	11.7	46	1108	2884	5.08	2625	5	3	1	81	1	2	2	46	15.52	.014	2	14	.70	1	.01	10	1.28	.01	.02	365	590
M 9017	2	544	10	210	.7	17	414	2313	25.82	923	5	3	3	10	1	2	8	107	.24	.031	3	32	1.94	3	.03	7	4.54	.06	.05	1	1130
M 9018	1	499	5	36	.2	15	42	513	4.26	26	5	ND	1	30	1	2	3	152	1.44	.108	2	18	1.63	26	.28	5	1.87	.15	.12	3	32
M 9019	1	28	2	45	.1	4	35	660	5.08	122	5	ND	1	340	1	2	5	170	4.65	.056	2	2	1.49	3	.35	12	2.81	.05	.02	1	55
M 9020	9	273	6	51	1.2	7	19	1062	7.17	169	5	ND	1	18	1	2	3	31	2.38	.021	2	1	1.07	19	.06	4	1.85	.16	.12	1	87
M 9021	1	504	9	51	1.1	62	47	297	5.75	16	5	ND	1	297	1	2	2	47	2.85	.024	2	18	.81	30	.08	10	5.30	.58	.06	1	2
M 9022	1	177	8	89	.2	51	25	627	4.63	2	5	ND	1	56	1	2	2	111	3.03	.025	2	52	2.14	29	.13	18	4.42	.11	.13	1	6
M 9023	1	122	9	56	.1	19	24	632	5.20	2	6	ND	1	68	1	2	5	187	5.06	.055	2	28	2.16	7	.20	16	7.00	.33	.50	1	5
M 9051	6	667	2	132	.1	36	125	1432	43.26	135	5	ND	4	6	2	10	17	51	.43	.026	2	8	.30	8	.02	83	.62	.04	.04	2	23
M 9052	1	91	41	45	.1	5	11	276	2.29	38	5	ND	2	20	1	2	2	49	.87	.103	4	7	.45	19	.23	15	.91	.05	.05	1	2
M 9053	6	30	12	58	.3	68	16	1593	8.38	82	6	ND	1	78	1	2	2	281	3.69	.428	8	52	.41	19	.06	119	1.69	.16	.30	1	1
M 9054	1	10	4	41	.1	15	7	1179	2.28	38	5	ND	1	39	1	2	2	16	1.73	.099	5	4	.14	13	.06	47	.46	.01	.01	2	5
M 9055	2	123	14	37	.2	7	14	142	2.67	46	5	ND	1	53	1	2	2	33	.71	.072	4	7	.10	39	.11	18	.64	.07	.05	2	12
M 9056	12	512	5	65	1.9	18	96	834	34.78	232	5	ND	3	5	1	5	2	41	1.59	.035	2	4	.11	11	.02	77	.28	.02	.06	80	72
M 9057	1	311	26	113	2.9	30	34	222	5.99	224	5	ND	1	45	1	2	2	65	1.02	.048	2	7	.31	2	.22	2	.88	.03	.01	1	31
M 9058	16	674	54	131	5.7	30	29	1788	14.63	330	5	ND	1	22	1	2	2	104	2.05	.165	6	27	.36	14	.07	13	.79	.01	.06	4	15
M 9059	1	719	6	31	2.1	24	79	624	25.09	85	5	ND	2	9	1	2	2	28	3.48	.027	2	2	.04	6	.04	8	.61	.03	.03	7	22
M 9060	1	116	3	16	.6	1	2	195	7.06	25	5	ND	1	97	1	2	3	34	1.48	.048	2	4	.11	8	.18	3	.99	.02	.02	1	1
STD C/AU-R	21	64	40	136	8.0	70	31	1162	4.11	39	24	9	39	53	20	15	20	60	.50	.099	41	61	.97	192	.08	37	1.76	.09	.13	14	515

✓ - ASSAY REQUIRED FOR CORRECT RESULT -

RECEIVED JUN 1 0 1988

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 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: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUN 10 1988 DATE REPORT MAILED: June 15/88 ASSAYER. C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING PROJECT-V2483 File # 88-1869

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
M 9026	1	54828 ✓	16	1474	149.9 ✓	74	77	332	38.12	142	5	2	4	9	7
M 9027	1	352	5	99	2.5	7	7	1153	2.37	13	5	ND	1	88	1
M 9028	2	1208	2	58	4.5	3	4	1933	5.64	165	5	ND	1	23	1
M 9029	2	511	25	44	3.2	11	12	1633	5.39	153	5	ND	1	21	1
M 9030	5	737	3	114	2.3	11	29	1276	12.41	23	7	ND	1	13	1
M 9031	3	14	11	16	.5	41	1147	330	9.36	13089	5	8	2	23	1
M 9032	1	22	2	31	.1	13	32	1908	4.43	1485	5	ND	4	119	1
M 9076	1	7	4	41	.1	10	33	969	2.65	596	5	ND	1	52	1
M 9077	3	10407	153	21313 ✓	57.9 ✓	64	37	3829	24.40	155	5	ND	1	9	110
M 9078	1	581	48	2965	.6	50	22	3031	4.71	75	5	ND	1	65	12
M 9079	5	530	88	1347	3.5	55	88	1038	38.02	1620	5	ND	3	4	6
M 9080	9	340	55	2244	2.6	18	21	2063	27.45	223	5	ND	3	3	10
M 9081	6	212	54	1991	2.6	10	13	1016	26.07	419	5	ND	3	7	9
M 9082	4	272	24	2592	1.7	18	26	1135	20.81	323	5	ND	2	16	12
M 9083	8	261	29	132	1.8	40	28	1884	21.03	199	5	ND	1	7	1
M 9084	9	503	87	1248	7.3	8	13	2461	11.59	227	5	ND	1	3	6
STD C/AU-R	19	63	40	132	7.3	73	31	1138	4.15	42	19	8	40	53	20

SAMPLE#	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
M 9026	2	2	45	.56	.044	2	7	.08	8	.05	45	.25	.01	.05	116	2890 -
M 9027	2	2	40	3.23	.110	5	17	.25	6	.17	6	1.63	.01	.01	1	8
M 9028	2	3	10	9.70	.139	4	5	.11	6	.02	4	.74	.01	.02	5	3
M 9029	3	9	23	6.40	.113	4	9	.23	17	.04	7	.95	.01	.04	17	3
M 9030	2	2	61	3.16	.181	4	26	.12	28	.02	6	.59	.01	.05	4	1
M 9031	15	15	12	.60	.042	2	7	.05	6	.02	94	.55	.01	.04	1	6805 -
M 9032	2	3	16	1.74	.043	7	9	.08	13	.10	5	1.09	.01	.01	1	21
M 9076	10	4	30	1.60	.054	3	9	.11	6	.14	81	.82	.01	.01	1	42
M 9077	2	2	47	1.50	.036	3	16	.37	41	.03	21	.50	.01	.08	1	14
M 9078	3	2	42	1.83	.068	3	114	.96	11	.14	3	1.59	.01	.02	1	4
M 9079	2	2	31	2.01	.033	2	6	.08	13	.02	53	.40	.01	.04	1	8
M 9080	2	4	100	6.95	.064	3	12	.07	8	.03	18	.71	.01	.02	17	8
M 9081	2	2	78	3.70	.119	3	32	.06	17	.04	21	.64	.01	.04	14	5
M 9082	2	2	54	2.99	.098	3	5	.27	24	.15	9	1.31	.05	.22	2	3
M 9083	2	2	38	2.50	.049	2	35	.54	14	.05	19	1.20	.02	.04	14	2
M 9084	2	7	42	10.05	.044	3	7	.11	26	.02	5	.78	.01	.04	20	4
STD C/AU-R	16	18	60	.50	.091	40	64	.91	183	.07	35	1.92	.07	.16	13	515

✓ ASSAY REQUIRED FOR CORRECT RESULT -

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 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: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUN 02 1988 DATE REPORT MAILED: June 10/88 ASSAYER C. Leong D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING PROJECT-V2483 File # 88-1730

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
N 9005	1	26	113	870	.8	2	1	27	1.85	16480	5	3	1	5	6	10	2
N 9013	1	155	598	1736	2.2	12	8	314	3.39	9987	5	3	3	5	8	13	2
N 9024	1	194	3381	1504	5.7	2	1	15	2.23	19763	5	4	1	3	7	10	3
N 9025	1	1325	12712	53253	75.7	9	16	151	15.14	99999	11	78	3	6	256	141	4
N 9061	5	21	19	51	3.8	9	10	780	20.12	1856	5	9	4	1	1	2	2
N 9062	1	9	15	92	.4	39	9	1673	4.34	68	5	ND	2	89	1	2	2
N 9063	6	29	23	146	.8	10	14	2411	12.28	652	5	2	2	45	1	2	2
N 9064	4	18	35	213	.4	10	12	1222	34.40	160	5	ND	5	2	1	2	2
N 9065	2	15	7	25	.3	4	4	797	2.07	36	5	ND	1	1	1	2	2
N 9066	1	28	17	62	.2	6	3	661	3.44	184	5	ND	1	1	1	2	2
N 9067	1	9	6	156	.3	12	6	427	1.09	84	5	ND	1	62	1	2	2
N 9068	3	150	13	61	1.7	7	8	577	37.51	1671	5	ND	5	3	1	2	6
N 9069	5	60	12	121	.6	13	12	1305	23.97	1647	5	ND	3	2	1	2	2
N 9070	15	89624	4	970	255.3	244	1034	391	30.22	2705	5	ND	5	2	17	2	2
N 9071	31	7620	4	257	34.0	60	172	2781	18.62	333	5	ND	3	44	3	2	2
N 9072	22	79696	2	851	314.6	217	1060	825	25.17	3174	5	2	2	10	13	2	13
N 9073	18	3410	6	222	15.1	106	988	2030	25.72	3781	5	ND	4	22	2	2	2
N 9074	18	704	9	244	3.4	25	67	2642	19.05	335	5	ND	2	8	1	2	2
N 9075	1	81	14	83	.1	42	21	636	4.32	44	5	ND	2	175	1	2	2
STD C/AU-R	18	60	40	132	6.8	69	30	1086	4.06	38	25	8	36	49	18	16	19

SAMPLE#	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
N 9005	4	.05	.001	2	1	.01	8	.01	2	.12	.01	.06	1	2350
N 9013	35	.25	.050	2	13	.71	13	.07	3	1.00	.01	.14	1	3250
N 9024	3	.01	.002	2	1	.01	11	.01	2	.07	.01	.06	1	5960
N 9025	5	.03	.005	2	15	.03	4	.01	3	.12	.01	.10	1	140400
N 9061	107	.06	.025	2	13	.87	2	.01	2	1.71	.01	.04	1	11700
N 9062	68	7.27	.051	2	76	1.74	1	.09	2	2.14	.01	.01	1	37
N 9063	110	8.16	.062	2	15	1.87	1	.02	2	3.31	.01	.02	1	1510
N 9064	115	.15	.030	2	10	.99	11	.02	18	2.01	.03	.04	1	131
N 9065	16	.17	.004	2	3	.22	5	.01	2	.35	.01	.02	1	18
N 9066	22	.08	.003	2	4	.28	3	.01	2	.41	.01	.02	1	96
N 9067	21	2.60	.036	2	50	.39	1	.07	6	.73	.01	.02	1	73
N 9068	94	.22	.049	2	8	.50	5	.02	17	1.27	.01	.04	1	2310
N 9069	154	.11	.033	2	12	1.50	2	.02	5	3.29	.01	.03	1	1460
N 9070	24	.16	.040	2	6	.38	2	.01	6	.74	.01	.03	1	4080
N 9071	84	7.45	.094	2	16	1.89	4	.03	4	2.89	.01	.05	1	94
N 9072	33	2.45	.033	2	8	.53	2	.02	6	.93	.01	.04	1	2530
N 9073	82	2.79	.079	2	32	1.64	6	.03	15	2.47	.01	.05	1	340
N 9074	111	.87	.057	2	47	1.97	6	.03	6	3.80	.01	.02	1	107
N 9075	92	1.90	.055	2	74	1.99	2	.31	2	2.61	.02	.03	1	12
STD C/AU-R	61	.49	.085	40	57	.94	180	.07	32	1.78	.08	.13	11	520

- ASSAY REQUIRED FOR CORRECT RESULT for Cu Pb As >10,000 ppm
Zn >20,000 ppm
Ag >35 ppm

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: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JULY 07 1988 DATE REPORT MAILED: July 12/88 ASSAYER C. Leong ..D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483 File # 88-2498

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
7Y3-1	1	342	7	46	.1	50	15	254	2.90	8	5	ND	1	109	1	2	2	73	1.25	.028	2	83	3.49	44	.07	4	4.33	.17	.13	1	1
7Y3-2	1	88	4	49	.1	7	5	652	1.61	26	5	ND	1	17	1	2	2	31	2.32	.040	4	10	.25	12	.10	2	1.09	.03	.02	1	1
7Y3-3	1	14	7	210	.1	27	16	2067	2.96	8	5	ND	1	81	1	3	3	36	3.47	.035	5	23	.73	5	.07	5	2.28	.01	.01	1	12
7Y3-4	3	1002	7	156	1.6	6	9	245	1.58	156	5	ND	1	76	1	2	2	21	1.16	.079	3	1	.20	22	.09	10	1.29	.10	.06	1	4
7Y3-5	1	16	3	53	.1	13	7	671	1.23	8	5	ND	1	14	1	2	2	21	2.16	.048	5	21	.13	6	.06	15	.87	.01	.01	1	1
7Y3-6	2	5161	20	881	9.5	6	27	600	4.07	213	5	ND	1	96	4	2	3	33	1.26	.035	2	1	.46	16	.12	31	1.87	.10	.04	1	8
7Y3-7	1	10	3	95	.1	13	10	1287	1.85	7	5	ND	1	67	1	2	2	35	1.68	.049	2	8	.31	7	.07	21	1.03	.02	.01	1	1
7Y3-8	7	25	19	64	.3	13	11	1450	36.88	39	5	ND	3	2	1	3	2	47	4.45	.005	2	4	.07	4	.01	6	.36	.01	.01	24	7
7Y3-9	2	36	10	29	.2	7	6	2076	17.77	55	5	ND	2	1	1	2	2	39	8.98	.007	6	4	.07	2	.01	7	.51	.03	.01	73	1
7Y3-10	1	6	4	63	.1	17	20	1838	2.95	45	5	ND	1	24	1	2	2	25	1.50	.083	2	23	.24	13	.06	34	.73	.01	.01	1	2
STD C/AU-R	16	58	36	125	7.1	68	27	999	3.83	36	17	6	35	45	16	16	19	53	.46	.084	37	52	.87	162	.06	31	1.86	.06	.13	11	490

RECEIVED "" 1 3 1988

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

DATE RECEIVED: JUL 18 1988
DATE REPORT MAILED: July 20/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: C. Leong D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING PROJECT-V2483 FILE = 88-1369R

SAMPLE#	AU** oz/t
N 9016	.071
N 9031	.195

RECEIVED JUL 2 1 1988

ACME ANALYTICAL LABORATORIES LTD.   DATE RECEIVED: JUN 15 1988
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED: June 27/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp   AG** & AU** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: C. Leong .... D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483 File # 88-1643R

SAMPLE#	AG** oz/t	AU** oz/t
N 9001	-	.018
N 9003	1.30	1.468
N 9010	-	.068
N 9011	8.11	11.388
N 9012	-	.085
N 9014	.28	.041
N 9016	.32	.017
N 9017	-	.029

RECEIVED JUL 4 - 1988

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

DATE RECEIVED: JUN 16 1988
DATE REPORT MAILED: June 27/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AG** & AU** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: C. Leong. D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483 File # 88-1730R

SAMPLE#	AG** oz/t	AU** oz/t
N 9005	-	.071
N 9013	-	.085
N 9024	-	.306
N 9025	3.08	3.522
N 9061	-	.208
N 9063	-	.050
N 9068	-	.073
N 9069	-	.049
N 9070	20.48	.124
N 9071	1.01	-
N 9072	13.79	.116
N 9073	.41	.011

RECEIVED JUL 4 - 1988

B. DRILL CORE SAMPLES

(i) Assays

(ii) Au (AA)

(iii) ICP

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 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: JUN 15 1988 DATE REPORT MAILED: June 17/88 ASSAYER. C. Leong ....D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING PROJECT-V2483 File # 88-1978

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
N 5001	1	136	8	115	.2	22	30	1190	8.02	69	5	ND	1	14	1	2	2	233	1.18	.113	3	15	2.38	9	.22	2	2.64	.01	.05	1	6
N 5002	1	3	7	148	.1	46	44	2460	10.03	115	5	ND	1	79	1	2	2	93	5.24	.043	2	82	2.06	10	.10	2	3.52	.01	.03	1	31
N 5003	1	2	3	86	.1	35	6	1411	5.28	7	5	ND	1	83	1	2	2	62	4.17	.047	2	54	1.64	1	.14	2	2.31	.01	.01	1	1
N 5004	1	2	6	52	.2	41	19	707	2.95	19	5	ND	1	89	1	2	2	34	2.33	.038	2	19	.78	1	.09	2	1.77	.01	.01	1	1
N 5005	1	3	2	35	.1	35	18	571	2.35	18	5	ND	1	89	1	2	2	25	2.73	.053	2	9	.59	1	.07	7	1.55	.01	.01	1	1
N 5006	1	1	4	58	.1	18	19	1062	3.00	37	5	ND	1	62	1	2	2	27	3.86	.032	2	20	.95	13	.07	12	1.55	.01	.01	1	2
N 5007	5	5	3	53	.1	17	15	791	2.37	57	5	ND	1	70	1	2	2	30	1.97	.018	2	21	.97	45	.07	29	1.62	.06	.07	1	3
N 5008	1	3	5	112	.1	38	17	1568	6.28	8	5	ND	1	30	1	2	2	76	2.25	.070	2	141	2.28	4	.15	2	2.66	.01	.02	1	2
N 5009	1	4	5	58	.1	11	11	1094	10.14	43	5	ND	1	45	1	2	2	43	4.64	.052	2	47	.90	1	.09	2	1.46	.01	.01	1	16
N 5010	1	3	6	52	.1	4	18	1183	6.46	79	5	ND	1	48	1	2	2	34	6.87	.059	2	10	.81	1	.05	2	1.42	.01	.01	1	33
N 5011	1	81	7	43	.5	22	10	1529	17.27	123	5	ND	1	55	2	2	2	33	14.77	.024	2	6	.47	3	.01	5	.77	.01	.03	191	12
N 5012	1	172	10	73	1.1	54	25	1189	34.02	209	5	ND	2	42	2	2	2	61	5.29	.017	2	10	.62	10	.03	24	1.37	.01	.07	1	73
N 5013	1	57	7	95	.1	21	12	1954	10.18	72	5	ND	1	56	1	2	2	123	7.20	.034	2	23	1.56	2	.07	2	2.28	.01	.01	3	21
N 5014	1	9	2	31	.1	8	15	1001	3.34	49	5	ND	1	45	1	2	2	23	5.09	.046	2	6	.75	1	.02	4	.75	.01	.01	2	23
N 5015	1	11	3	30	.4	12	5	952	2.88	17	5	ND	1	40	1	2	2	37	4.83	.069	2	5	.57	2	.05	2	.97	.01	.04	2	1
N 5016	1	13	3	19	.2	7	2	725	1.96	17	5	ND	1	52	1	2	2	40	4.10	.058	2	11	.34	1	.08	3	1.16	.01	.02	2	2
N 5017	1	8	2	21	.1	8	2	561	2.60	9	5	ND	1	69	1	2	2	33	3.61	.057	2	12	.45	1	.08	7	1.13	.01	.01	1	2
N 5018	1	28	2	54	.1	9	5	1188	5.01	37	5	ND	1	41	1	2	2	52	5.21	.041	2	8	.80	1	.06	2	1.39	.01	.01	1	10
N 5019	1	341	6	224	1.4	45	77	788	3.80	1028	5	ND	1	74	1	2	2	41	3.84	.067	2	23	.85	1	.09	10	1.35	.01	.03	1	133
N 5020	1	2	2	35	.1	16	14	535	2.20	33	5	ND	1	123	1	2	2	36	2.77	.068	2	12	.71	1	.17	4	1.68	.01	.03	1	1
N 5021	1	17	2	118	.1	91	30	1250	4.87	74	5	ND	1	28	1	2	2	65	1.33	.084	2	154	2.32	15	.16	2	2.44	.01	.01	1	5
N 5022	1	407	18	126	3.2	33	53	942	3.54	101	5	ND	2	133	1	6	10	58	3.87	.082	4	106	1.15	2	.23	5	2.05	.01	.06	1	49
STD C/AU-R	18	62	37	133	6.9	72	30	1062	4.10	40	19	7	38	52	19	16	18	61	.49	.088	41	60	.93	181	.07	34	1.78	.05	.15	13	520

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

DATE RECEIVED: JULY 12 1988
DATE REPORT MAILED: July 14/88.

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: C. Leong. D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MHP CONSULTING LTD. PROJECT-V2483 File # 88-2006R

SAMPLE#	AU** oz/t
5036	.039 ✓

RECEIVED JUL 1 8 1988

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 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: JUN 16 1988 DATE REPORT MAILED: June 20/88 ASSAYER C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483 File # 88-2006

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
N 5023	1	13	10	83	1.4	25	50	1089	3.90	54	5	ND	1	114	1	2	5	50	4.14	.244	6	50	1.28	8	.14	14	2.17	.01	.01	1	3
N 5024	1	751	9	230	3.8	18	62	836	4.22	190	5	ND	1	88	1	2	4	30	4.56	.121	5	22	.72	1	.14	5	1.55	.01	.01	1	128
N 5025	1	32	9	80	1.1	16	34	772	2.46	50	5	ND	1	110	1	2	2	33	4.35	.107	3	21	.81	1	.14	2	1.76	.01	.01	1	13
N 5026	1	9	9	34	.8	6	8	396	1.54	21	5	ND	1	133	1	3	2	30	3.71	.089	4	7	.34	1	.25	3	1.66	.01	.01	2	2
N 5027	1	2	4	73	.5	8	12	431	1.32	139	5	ND	1	102	1	2	2	22	3.77	.060	3	15	.36	1	.09	2	1.38	.01	.01	2	22
N 5028	1	2	7	21	1.0	13	26	291	1.55	43	5	ND	1	128	1	3	4	31	2.81	.028	2	13	.28	1	.11	2	1.81	.01	.01	1	21
N 5029	1	1	6	29	1.2	13	19	395	1.77	30	5	ND	1	99	1	2	2	35	2.23	.025	2	25	.53	1	.15	6	1.59	.01	.01	1	1
N 5030	1	1	5	33	.7	17	28	452	1.91	41	5	ND	1	110	1	2	2	35	2.70	.061	3	19	.62	1	.18	2	1.74	.01	.01	1	47
N 5031	1	277	6	729	1.5	27	23	577	3.22	44	5	ND	1	54	1	3	2	67	2.60	.056	2	41	1.22	22	.21	4	2.35	.05	.07	1	6
N 5032	1	67	2	69	.5	84	19	754	3.43	26	5	ND	1	28	1	2	2	68	1.93	.080	2	166	2.48	16	.20	2	2.35	.04	.04	1	1
N 5033	1	29	8	195	.3	15	8	582	2.86	14	5	ND	19	25	1	2	2	42	1.14	.033	8	30	.96	17	.19	3	1.71	.03	.07	1	1
N 5034	1	68	9	41	.4	12	13	340	1.93	360	5	ND	5	78	1	5	2	27	1.85	.026	5	24	.72	6	.10	2	2.13	.02	.05	2	15
N 5035	1	35	11	41	.1	10	9	382	2.50	5	5	ND	1	104	1	2	2	70	2.19	.029	3	21	1.08	18	.16	2	3.55	.19	.05	1	1
N 5036	1	64	11	68	.2	13	9	599	3.21	7	5	ND	15	49	1	2	2	58	1.82	.026	4	15	1.34	17	.22	8	2.08	.03	.07	1	960
N 5037	1	32	7	52	.2	7	17	596	3.93	9	5	ND	1	138	1	5	2	81	2.04	.088	2	20	1.86	28	.20	2	3.04	.13	.12	2	1
N 5038	1	89	12	35	.2	9	9	366	2.58	3	5	ND	2	112	1	2	6	72	2.17	.030	3	17	1.05	23	.13	3	3.50	.24	.05	1	205
N 5039	1	107	2	39	.2	25	19	458	3.18	7	5	ND	1	98	1	2	2	74	1.78	.079	2	20	1.46	46	.17	2	2.43	.17	.07	1	3
N 5040	1	15	2	20	.1	10	7	235	1.56	3	5	ND	1	85	1	2	2	57	1.55	.018	2	25	.74	2	.17	2	1.48	.01	.01	1	89
N 5041	1	61	8	55	.1	17	11	552	3.36	4	5	ND	1	99	1	2	2	88	1.96	.033	2	32	1.60	44	.15	2	3.60	.20	.04	1	2
N 5042	1	35	5	55	.2	21	11	531	3.28	2	5	ND	2	24	1	2	6	64	.80	.060	3	37	1.68	9	.19	2	1.95	.03	.04	1	1
N 5043	1	9	6	45	.1	29	11	516	3.36	2	5	ND	1	120	1	2	2	64	2.46	.053	2	56	1.76	2	.22	3	2.46	.02	.01	1	1
N 5044	1	172	8	32	.4	7	10	388	3.23	5	5	ND	1	110	1	3	2	93	1.94	.048	3	15	.98	28	.15	6	2.92	.24	.05	2	2
N 5045	1	75	6	24	.2	8	12	345	4.84	2	5	ND	1	101	1	2	2	139	2.05	.057	3	16	.86	26	.18	3	3.00	.27	.05	1	1
N 5046	1	85	5	24	.1	11	21	344	4.38	8	5	ND	1	37	1	2	2	131	1.28	.081	2	16	.79	15	.18	2	1.13	.08	.05	1	2
N 5047	1	96	6	29	.3	14	19	428	4.18	8	5	ND	1	28	1	2	2	115	1.34	.083	3	18	1.01	12	.21	2	1.39	.07	.06	1	1
N 5048	1	103	4	26	.3	11	22	394	4.34	11	5	ND	1	21	1	2	2	124	1.32	.088	3	19	1.14	12	.23	5	1.47	.07	.06	2	1
N 5049	1	182	4	33	.3	8	11	338	3.48	5	5	ND	1	168	1	2	2	104	2.49	.043	2	16	.58	10	.14	2	2.97	.09	.03	1	1
STD C/AU-R	18	57	38	129	6.9	67	27	1014	3.90	35	17	8	35	47	17	17	18	56	.45	.086	36	55	.82	170	.07	30	1.80	.06	.13	13	470

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

DATE RECEIVED: JULY 12 1988
DATE REPORT MAILED: July 16/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AG** & AU** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: C. Leong D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2433 File # 88-2140R

SAMPLE#	AG** oz/t	AU** oz/t
5136	-	.028
5140	.14	-

RECEIVED JUL 19 1988

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
M 5116	1	382	12	141	1.1	46	38	646	5.89	45	5	ND	1	12	1	2	2	138	1.15	.074	2	49	1.26	9	.20	5	1.76	.03	.03	1	6
M 5117	1	148	15	122	.5	30	24	1386	5.73	29	5	ND	1	72	1	2	2	180	3.73	.115	5	10	1.59	8	.28	5	2.45	.01	.03	1	22
M 5118	1	179	11	588	.5	24	19	646	5.90	17	5	ND	1	58	2	2	2	247	1.84	.124	6	12	.83	30	.21	7	1.81	.07	.06	1	1
M 5119	1	152	17	74	.5	24	28	539	5.15	36	5	ND	1	62	1	2	2	119	1.29	.091	5	8	1.31	35	.17	3	2.49	.10	.04	1	1
M 5120	5	117	6	68	.1	19	20	451	4.53	37	5	ND	1	39	1	2	2	99	1.08	.050	3	11	1.07	20	.15	3	2.01	.04	.03	1	1
M 5121	15	102	2	9	.2	3	2	427	.67	7	5	ND	1	466	1	2	3	7	29.11	.006	2	2	.06	1	.01	6	.13	.01	.01	1	1
M 5122	2	602	4	447	1.8	29	12	500	2.21	36	5	ND	1	58	2	2	2	28	3.39	.017	2	4	.31	1	.09	4	.90	.01	.01	1	1
M 5123	1	409	6	817	1.3	46	21	666	3.60	55	5	ND	1	62	4	2	2	39	2.14	.026	2	14	.96	11	.09	7	1.68	.03	.02	1	6
M 5124	1	101	16	609	.4	20	14	463	2.85	60	5	ND	1	41	3	2	2	55	1.34	.022	2	14	.83	27	.13	5	1.90	.11	.06	1	2
M 5125	1	244	13	240	1.0	37	24	457	5.37	71	5	ND	1	38	1	2	2	49	.96	.022	2	12	.86	27	.10	3	1.72	.06	.04	1	1
M 5126	1	214	13	164	.7	41	23	547	5.27	110	5	ND	1	25	1	2	2	57	.93	.029	2	16	1.29	14	.12	4	1.82	.05	.03	1	1
M 5127	1	107	10	87	.6	31	16	462	3.09	348	5	ND	1	14	1	2	4	54	.94	.030	2	14	.99	17	.10	6	1.30	.03	.04	1	4
M 5128	1	406	16	63	1.5	64	44	462	8.18	156	5	ND	1	32	1	2	2	52	.75	.030	2	14	1.07	5	.10	5	1.79	.03	.03	1	19
M 5129	1	559	15	4422	1.6	60	60	442	7.38	229	5	ND	1	34	23	2	3	59	.86	.026	2	16	1.09	2	.10	2	1.76	.02	.03	1	8
M 5130	1	262	8	800	.9	33	27	342	4.20	101	5	ND	1	41	3	2	2	39	.96	.024	2	11	.77	6	.08	4	1.39	.02	.02	1	5
M 5131	1	44	7	142	.3	10	8	701	2.97	60	5	ND	1	57	1	2	2	38	3.56	.018	2	9	.80	5	.10	27	1.53	.01	.01	1	1
M 5132	1	160	11	1067	.7	29	17	469	4.31	76	5	ND	1	41	5	2	2	48	1.70	.024	2	12	.91	16	.10	4	1.63	.02	.05	1	1
M 5133	1	265	13	47	.9	41	37	475	6.67	139	5	ND	1	30	1	2	2	57	.96	.028	2	14	1.13	9	.12	5	1.77	.03	.03	2	7
M 5134	2	100	9	48	.3	29	11	2568	5.78	15	5	ND	1	41	1	2	2	16	8.97	.177	3	9	.40	17	.02	253	.47	.01	.05	1	10
M 5135	1	291	8	23	.4	42	19	1503	7.72	6	5	ND	1	21	1	2	2	6	4.41	.138	2	4	.22	31	.01	162	.20	.01	.06	1	1
M 5136	2	73	5	22	.6	7	3	1331	3.34	5	5	ND	1	24	1	2	2	8	4.46	.152	4	7	.29	26	.01	91	.36	.02	.05	2	775
M 5137	3	12	2	16	.2	6	13	588	1.64	855	5	ND	1	46	1	5	4	8	2.80	.061	5	3	.11	5	.05	140	.82	.01	.02	1	1
M 5138	1	89	4	27	.4	11	7	1765	3.60	16	5	ND	4	23	1	2	2	9	3.85	.074	5	3	.14	26	.05	809	.56	.01	.03	2	1
M 5139	3	126	9	56	.6	19	12	711	3.08	113	5	ND	1	41	1	2	4	21	2.70	.136	7	6	.34	8	.07	207	.96	.01	.01	1	2
M 5140	2	1295	2	66	4.8	17	5	1052	2.06	7	5	ND	1	39	1	2	2	13	4.26	.064	3	4	.22	24	.06	383	.59	.01	.03	1	1
M 5141	3	654	8	50	2.6	44	9	765	2.82	31	5	ND	1	37	1	3	4	12	3.57	.146	7	6	.15	4	.04	329	.57	.01	.01	1	2
M 5142	6	210	4	69	.7	29	5	729	2.14	16	5	ND	1	46	1	5	4	17	2.99	.128	5	6	.22	10	.05	250	.78	.01	.02	1	1
M 5152	1	224	10	47	.9	39	39	516	6.92	176	5	ND	1	29	1	2	2	56	.86	.032	2	17	1.34	6	.10	5	1.90	.02	.03	2	15
STD C/AU-R	17	59	40	132	6.5	68	28	1041	4.03	42	18	7	36	47	17	15	19	57	.46	.084	40	56	.94	177	.06	33	1.90	.06	.14	12	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

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 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: JUN 22 1988 DATE REPORT MAILED: June 29/88 ASSAYER. C. Leong ..D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483 File # 88-2140 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
N 5050	1	472	7	58	.9	20	18	386	3.40	73	5	ND	3	30	1	2	3	46	1.56	.029	3	21	.85	42	.12	14	2.08	.08	.18	1	10
N 5081	1	256	10	94	.9	10	22	646	4.23	41	5	ND	1	100	1	2	2	110	2.36	.036	2	10	1.73	20	.15	7	3.70	.08	.03	1	3
N 5082	1	10	5	40	.1	13	26	554	3.35	21	5	ND	1	86	1	2	2	84	2.24	.032	2	9	1.66	8	.19	7	2.79	.05	.03	1	1
N 5083	1	4	6	30	.2	19	17	406	2.31	22	5	ND	1	106	1	2	5	67	3.00	.030	2	15	1.12	4	.17	9	2.72	.04	.02	1	1
N 5084	1	121	4	31	.1	16	19	369	2.22	30	5	ND	1	115	1	2	5	76	1.98	.046	2	12	.93	20	.13	7	2.47	.15	.03	2	1
N 5085	1	108	8	62	.4	18	34	556	3.60	48	5	ND	1	134	1	2	2	93	2.44	.045	2	12	1.33	14	.12	10	3.27	.12	.03	1	3
N 5086	1	213	6	50	.9	10	17	518	2.96	21	5	ND	1	181	1	2	2	86	2.76	.045	2	16	1.16	26	.14	14	3.66	.13	.05	1	3
N 5087	1	118	6	46	.1	16	17	477	2.76	21	5	ND	1	204	1	2	2	85	2.02	.041	2	14	1.28	11	.14	12	3.06	.16	.01	1	1
N 5088	1	85	3	56	.3	10	14	404	2.45	17	5	ND	1	640	1	2	2	76	3.61	.041	2	12	.97	23	.09	9	5.73	.38	.03	1	1
N 5089	1	168	8	73	.4	16	19	422	2.50	32	5	ND	1	245	1	2	2	77	3.38	.039	2	13	1.00	24	.09	7	5.12	.28	.03	1	1
N 5090	1	76	8	52	.1	9	11	454	2.65	10	5	ND	1	232	1	2	2	86	3.09	.040	2	9	1.12	65	.11	8	4.64	.29	.02	1	1
N 5091	1	274	9	69	.6	20	36	638	4.64	58	5	ND	1	175	1	2	2	124	1.90	.045	2	10	1.90	10	.17	19	3.82	.29	.04	1	7
N 5092	1	142	10	57	.3	13	17	535	3.36	9	5	ND	1	278	1	2	2	75	2.14	.041	2	8	1.54	21	.11	7	3.88	.33	.04	2	1
N 5093	1	256	8	60	.6	19	22	576	3.95	20	5	ND	1	206	1	2	2	104	2.29	.046	2	8	1.74	52	.16	7	4.12	.28	.03	1	2
N 5094	1	24	5	44	.1	11	14	637	3.60	2	5	ND	1	33	1	2	2	91	1.96	.037	2	13	1.82	7	.14	7	2.74	.06	.04	1	5
N 5095	1	393	11	100	.9	16	28	908	5.01	39	5	ND	1	74	1	2	2	132	2.65	.026	2	16	2.15	1	.17	24	3.96	.01	.02	1	12
N 5096	1	33	6	72	.1	22	21	822	4.48	15	5	ND	1	57	1	2	2	130	2.89	.027	2	43	2.18	18	.15	8	4.05	.05	.03	1	6
N 5097	1	43	5	48	.1	12	14	655	3.50	9	5	ND	1	49	1	2	2	144	1.31	.031	2	23	1.52	23	.15	28	2.36	.08	.04	1	2
N 5098	1	102	5	131	.1	31	34	1038	6.50	29	5	ND	1	97	1	2	2	131	1.79	.034	2	48	3.33	2	.16	9	4.66	.01	.01	1	2
N 5099	1	84	3	36	.2	13	23	449	3.59	11	5	ND	1	27	1	2	2	102	1.78	.082	2	12	1.06	11	.19	5	1.74	.12	.05	1	1
N 5100	1	58	7	23	.1	10	11	328	2.47	3	5	ND	1	93	1	2	2	64	2.03	.031	2	11	.99	39	.10	5	2.86	.26	.05	1	1
N 5101	1	70	3	70	.1	30	17	637	3.73	2	5	ND	1	69	1	2	2	60	1.69	.067	2	45	2.14	5	.17	7	2.90	.01	.01	1	1
N 5102	1	161	4	61	.1	26	41	545	3.38	16	5	ND	1	60	1	2	2	45	2.09	.050	2	22	1.60	1	.16	8	2.52	.01	.01	1	1
N 5103	1	1	6	55	.1	21	22	619	3.34	24	5	ND	1	105	1	2	2	57	2.46	.066	2	37	1.63	1	.18	6	2.56	.01	.01	1	1
N 5104	2	11	6	47	.1	19	28	495	2.77	48	5	ND	1	97	1	2	3	34	2.28	.051	2	17	1.16	1	.12	10	1.91	.01	.01	1	4
N 5105	1	20	12	101	.1	19	20	770	4.33	10	5	ND	1	88	1	3	2	90	1.92	.033	2	18	2.31	6	.14	13	3.58	.06	.01	2	1
N 5106	1	171	11	383	.4	23	30	886	4.98	13	5	ND	1	58	2	2	2	85	1.48	.020	2	16	2.75	1	.15	8	3.40	.01	.01	1	4
N 5107	1	42	6	106	.1	21	21	980	5.45	9	5	ND	1	74	1	2	2	107	1.25	.035	2	20	3.16	11	.15	10	4.07	.06	.03	1	1
N 5108	1	2	8	64	.1	30	54	664	3.98	33	5	ND	1	53	1	2	2	68	1.77	.072	2	43	2.21	14	.16	7	2.67	.03	.01	1	1
N 5109	1	17	4	70	.1	10	17	699	4.21	3	5	ND	1	122	1	2	2	111	1.75	.020	2	15	2.07	10	.17	11	3.54	.11	.01	1	1
N 5110	1	19	7	49	2.7	35	16	511	3.00	18	5	ND	1	57	1	3	4	60	1.47	.033	2	37	1.20	1	.19	12	1.68	.02	.01	3	5
N 5111	1	53	8	63	.2	40	25	462	4.47	33	5	ND	1	39	1	2	3	122	1.92	.044	2	60	.74	2	.29	16	1.18	.05	.01	1	3
N 5112	1	29	12	49	.2	39	18	461	5.44	10	5	ND	1	45	1	2	2	179	1.85	.049	2	97	.90	4	.21	4	2.40	.07	.10	1	1
N 5113	1	1	5	14	.2	27	17	292	1.66	49	5	ND	2	129	1	2	2	53	2.90	.052	3	24	.48	1	.26	10	1.16	.01	.01	1	1
N 5114	1	235	8	80	.8	49	18	310	3.96	19	5	ND	1	127	1	2	2	136	2.88	.045	2	77	.46	31	.24	6	3.36	.20	.05	1	8
N 5115	1	161	6	155	.7	17	2	446	.39	19	5	ND	1	181	1	2	2	5	31.65	.008	2	9	.10	2	.02	4	.31	.01	.01	1	2
STD C/AU-R	18	60	44	132	6.9	70	30	1062	4.12	45	16	7	38	49	18	15	19	59	.47	.083	41	58	.96	179	.07	33	1.98	.06	.15	12	490

RECEIVED JUL 4 - 1988

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

DATE RECEIVED: JUL 18 1988
DATE REPORT MAILED: July 19/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: C. Leong ..... D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT V2483 FILE # 88-2178R

SAMPLE#	AU** oz/t
N 5065	.009
N 5143	.006
N 5144	.007

RECEIVED JUL 20 1988

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 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: JUN 23 1988 DATE REPORT MAILED: June 29/88 ASSAYER. C. Leong ...D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483 File # 88-2178 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
N 5051	1	64	22	152	.1	18	17	1756	5.87	8	5	ND	2	94	1	2	3	113	2.79	.038	2	16	2.49	25	.13	38	3.29	.05	.07	1	1
N 5052	1	91	13	111	.1	26	24	1977	5.43	32	5	ND	1	81	1	2	4	51	5.39	.024	2	30	1.60	2	.08	50	2.74	.01	.05	1	21
N 5053	1	14	10	123	.4	55	18	2376	6.53	55	5	ND	4	66	1	2	3	61	5.53	.035	2	62	2.01	2	.08	121	3.17	.02	.08	1	4
N 5054	1	30	17	104	.1	40	18	1710	4.36	24	5	ND	1	46	1	2	2	44	3.93	.070	4	96	1.56	5	.13	181	2.28	.02	.04	1	78
N 5055	1	12	11	78	.1	17	15	1550	4.56	22	5	ND	2	89	1	2	4	45	5.27	.072	3	31	1.09	3	.12	18	2.34	.01	.03	1	3
N 5056	1	14	19	155	.1	30	13	2489	8.33	3	5	ND	2	55	1	2	2	92	5.21	.066	2	152	2.50	3	.16	6	3.74	.02	.04	1	1
N 5057	3	52	23	95	.2	7	13	1353	30.72	9	5	ND	5	30	1	2	16	51	3.58	.038	2	17	.88	7	.05	26	1.65	.03	.06	1	1
N 5058	1	71	8	47	.2	10	8	1095	5.59	33	5	ND	5	47	1	4	2	28	4.95	.054	5	10	.60	1	.05	18	1.45	.02	.04	1	16
N 5059	1	19	7	17	.2	5	3	874	2.38	9	5	ND	5	68	1	7	4	26	5.06	.047	3	7	.31	1	.07	27	1.35	.01	.02	1	24
N 5060	2	7	7	33	.1	15	26	520	2.20	1335	5	ND	1	49	1	4	7	31	2.08	.066	4	13	.56	18	.11	14	1.39	.02	.04	1	3
N 5061	1	31	7	43	.2	10	8	389	1.81	78	5	ND	2	45	1	2	2	41	1.62	.067	4	16	.68	17	.15	12	1.52	.03	.05	1	1
N 5062	1	104	14	133	.7	16	16	600	3.07	61	5	ND	3	16	1	2	4	65	2.07	.063	4	25	1.21	14	.17	11	2.34	.04	.07	1	1
N 5063	1	50	16	424	.2	10	17	781	2.75	23	5	ND	3	99	2	2	2	37	3.25	.073	3	14	1.24	9	.14	7	2.24	.02	.05	1	2
N 5064	1	146	9	61	.1	6	21	653	4.26	23	5	ND	1	79	1	2	3	55	.82	.080	3	9	1.56	38	.15	6	2.20	.06	.06	1	2
N 5065	1	5	5	29	.4	5	14	346	1.68	18	5	ND	2	107	1	2	2	23	2.53	.066	2	4	.55	1	.14	5	1.59	.01	.02	1	315
N 5066	1	3	11	34	.1	20	15	446	2.33	10	5	ND	1	128	1	2	5	33	2.96	.073	3	17	.77	1	.15	6	2.15	.01	.01	1	32
N 5067	1	2	10	43	.1	24	19	506	2.68	7	5	ND	1	110	1	2	2	32	2.65	.069	3	9	.99	1	.10	2	2.25	.01	.01	1	2
N 5068	1	10	7	35	.1	17	7	384	1.98	2	5	ND	1	129	1	2	2	35	3.45	.153	6	18	.59	1	.09	2	2.00	.01	.01	1	5
N 5069	2	380	11	55	.6	32	31	380	2.34	59	5	ND	1	78	1	2	6	40	1.54	.103	5	26	1.03	20	.08	8	1.83	.05	.04	1	2
N 5070	1	20	13	88	.1	25	24	1098	4.42	26	5	ND	1	70	1	2	3	77	2.67	.069	2	31	1.98	7	.15	2	2.73	.02	.07	1	165
N 5071	1	49	5	46	.1	15	13	451	2.63	15	5	ND	1	179	1	2	2	77	1.71	.045	3	36	1.25	91	.14	6	2.32	.07	.09	2	5
N 5072	1	38	11	43	.2	16	15	392	2.54	2	5	ND	1	152	1	2	6	81	3.59	.023	2	31	1.23	61	.14	2	5.14	.34	.11	1	1
N 5073	2	920	9	66	2.1	24	31	391	4.26	41	5	ND	1	86	1	2	2	63	1.46	.071	4	16	1.05	37	.16	5	1.95	.10	.11	1	2
N 5074	1	60	8	73	.1	18	14	421	2.90	9	5	ND	2	102	1	2	2	62	2.08	.068	3	22	1.16	26	.16	8	2.26	.07	.08	1	1
N 5075	1	80	8	67	.2	11	10	130	.79	34	5	ND	9	37	1	4	5	12	1.49	.047	7	5	.14	9	.08	11	1.00	.04	.06	1	2
N 5076	2	132	14	183	.4	21	21	480	1.42	63	5	ND	1	63	1	5	3	24	2.82	.099	4	10	.28	4	.08	93	1.08	.02	.02	1	3
N 5077	1	29	4	21	.2	11	11	260	1.58	92	5	ND	12	25	1	2	2	35	1.35	.062	6	16	.55	7	.14	9	1.34	.03	.06	1	1
N 5078	1	23	9	32	.3	7	4	218	1.47	8	6	ND	17	29	1	2	2	21	1.21	.016	14	11	.54	14	.06	9	1.37	.03	.09	1	1
N 5079	1	57	14	70	.3	87	27	752	4.19	26	5	ND	2	29	1	2	2	90	1.67	.097	3	206	2.81	17	.17	2	2.81	.05	.06	1	4
N 5080	1	18	9	60	.1	2	22	620	4.50	7	5	ND	1	87	1	2	2	99	1.53	.090	2	6	1.99	16	.18	4	2.69	.08	.07	1	1
N 5143	2	431	6	54	2.0	19	7	1194	3.22	16	5	ND	1	53	1	2	3	24	5.63	.114	9	11	.35	12	.07	306	1.00	.01	.02	1	205
N 5144	1	316	11	1088	1.3	20	28	1229	6.78	166	5	ND	1	45	7	2	3	39	3.75	.090	6	16	.64	1	.06	311	1.42	.01	.01	2	220
N 5145	2	73	9	81	.2	16	7	236	1.26	45	5	ND	15	19	1	6	2	10	.94	.017	10	21	.24	14	.04	34	.58	.03	.02	1	1
N 5146	4	75	6	71	.3	22	9	185	2.12	58	5	ND	1	77	1	3	6	37	2.55	.347	14	17	.11	1	.07	15	.99	.01	.01	1	1
N 5147	3	82	9	219	.1	6	4	332	1.63	23	5	ND	5	16	1	2	3	21	1.62	.034	5	8	.46	14	.06	34	.99	.02	.04	1	1
N 5148	2	164	7	89	.8	13	19	582	2.80	45	5	ND	1	58	1	2	2	27	3.32	.045	2	7	.54	1	.09	19	1.52	.01	.01	1	2
STD C/AU-R	18	60	40	132	6.7	68	29	1053	4.08	42	15	8	37	48	18	15	23	59	.47	.087	41	59	.94	182	.07	35	1.97	.07	.14	12	495

RECEIVED JUN 4

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
N 5149	4	161	7	139	.5	17	13	359	2.08	36	5	ND	1	61	1	3	3	50	1.84	.057	4	5	.60	27	.16	5	1.36	.07	.04	1	31
N 5150	3	3126	9	757	10.5	53	36	620	2.75	113	5	ND	1	53	5	3	2	29	2.71	.080	3	11	.56	3	.07	131	1.20	.01	.01	1	152
N 5151	4	73	8	170	.5	13	10	605	2.88	22	5	ND	1	53	1	4	4	46	2.79	.051	2	8	.94	2	.10	3	1.61	.01	.02	1	15
N 5153	1	66	7	34	.1	8	3	253	1.59	9	5	ND	14	38	1	2	2	28	1.20	.016	8	13	.52	21	.08	12	1.04	.03	.10	1	6
N 5154	1	62	5	59	.3	16	8	383	2.39	10	5	ND	13	66	1	3	2	49	1.90	.033	8	23	.92	34	.15	14	1.65	.05	.15	1	2
STD C/AU-R	18	59	42	132	6.5	69	28	1041	4.07	42	18	7	37	47	17	16	20	57	.46	.087	40	58	.94	179	.07	35	1.90	.06	.14	11	490

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: JUL 18 1988
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED: July 19/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: C. Leong . D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT V2483 FILE # 88-2202R

SAMPLE#	AU** oz/t
N 5170	.006
N 5171	.008
N 5173	.006
N 5174	.025
N 5175	.104
N 5176	.026
N 5177	.008

RECEIVED JUL 20 1988

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 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: JUN 24 1988   DATE REPORT MAILED: June 30/88   ASSAYER. C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483   File # 88-2202

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
M 5155	1	80	21	67	.5	26	18	497	3.66	37	5	ND	1	23	2	2	2	88	1.84	.027	2	25	1.24	5	.13	9	1.64	.06	.06	1	1
M 5156	1	564	16	48	1.2	75	85	410	10.83	79	5	ND	2	36	1	2	3	72	1.09	.026	2	27	1.14	7	.12	6	1.99	.08	.05	2	2
M 5157	1	81	10	94	.4	28	13	439	2.72	36	5	ND	1	55	1	2	2	72	1.75	.027	2	20	1.19	15	.15	5	1.95	.13	.07	1	1
M 5158	1	307	9	290	1.4	63	41	470	4.29	539	5	ND	2	27	3	2	2	61	1.46	.025	2	19	1.00	16	.12	8	1.40	.06	.05	1	7
M 5159	6	291	5	226	1.3	53	16	491	2.23	93	5	ND	2	34	4	2	2	73	3.56	.015	3	18	.80	3	.22	10	1.46	.01	.03	1	3
M 5160	1	46	6	83	.4	23	7	466	2.51	23	5	ND	1	21	2	2	2	76	1.47	.027	2	21	1.21	12	.17	16	1.46	.07	.06	1	1
M 5161	1	8	7	28	.3	28	11	250	1.23	60	5	ND	2	20	1	2	2	38	1.39	.013	2	13	.54	12	.11	5	1.06	.03	.05	1	3
M 5162	1	261	18	133	1.2	47	39	419	4.36	203	5	ND	1	47	2	2	2	45	1.55	.031	2	17	.81	15	.12	2	1.54	.07	.05	1	2
M 5163	1	1491	10	574	6.5	32	9	965	4.04	54	5	ND	1	54	5	2	4	47	3.93	.048	2	14	.83	1	.13	4	1.50	.01	.01	1	32
M 5164	1	122	9	167	.7	28	11	739	3.23	85	5	ND	1	67	1	3	2	37	2.69	.024	2	20	.84	13	.11	19	1.93	.05	.03	1	11
M 5165	1	257	12	274	1.4	40	20	411	3.10	45	5	ND	1	60	2	2	2	39	1.49	.030	2	20	.78	15	.11	3	1.72	.09	.05	1	3
M 5166	1	103	11	124	.5	33	25	1920	6.68	700	5	ND	1	55	2	2	2	52	2.94	.024	2	39	1.69	28	.06	2	3.35	.05	.08	1	6
M 5167	1	10	17	257	.3	14	46	3943	19.25	126	5	ND	4	7	1	2	2	100	1.57	.047	2	39	2.60	1	.04	19	6.46	.01	.01	2	72
M 5168	1	10	16	232	.2	15	29	3714	17.41	80	5	ND	2	25	3	2	2	99	2.68	.075	2	37	2.49	1	.04	2	5.87	.01	.01	1	21
M 5169	1	70	12	55	3.3	4	12	3583	2.16	107	5	ND	1	104	1	2	14	8	42.73	.003	2	1	.21	1	.01	2	.54	.01	.01	2	86
M 5170	1	1333	56	337	16.4	10	55	1065	11.55	298	5	ND	2	18	5	2	70	23	3.95	.025	2	14	.60	1	.01	2	1.24	.01	.01	4	215
M 5171	1	977	17	410	7.3	9	66	831	9.29	2578	5	ND	1	16	5	2	21	13	4.12	.022	2	11	.32	1	.01	2	.70	.01	.01	1	305
M 5172	1	199	9	114	1.7	6	22	2287	7.80	356	5	ND	1	42	2	2	4	36	13.94	.020	2	11	.74	1	.01	2	1.76	.01	.01	2	147
M 5173	1	484	12	74	2.8	3	21	3033	15.37	527	5	ND	2	71	3	2	7	47	14.57	.045	2	12	.63	1	.01	2	1.60	.01	.01	4	250
M 5174	1	1758	22	1253	8.8	21	73	2461	14.40	2752	5	ND	3	66	9	2	8	35	5.19	.061	2	17	.88	9	.03	18	3.17	.01	.08	1	710
M 5175	1	296	23	986	3.0	15	187	1926	6.30	2551	5	3	1	70	7	2	12	45	5.73	.073	2	35	1.35	2	.06	2	2.35	.01	.02	1	3750
M 5176	1	33	9	97	.4	12	28	883	2.97	214	5	ND	1	33	1	2	2	43	2.34	.086	3	25	1.05	18	.09	2	1.57	.04	.04	1	925
M 5177	2	17	12	86	.4	11	21	784	2.43	74	5	ND	1	51	2	2	2	28	2.58	.071	2	20	.79	8	.05	33	1.51	.02	.03	1	205
M 5179	2	18	10	198	.4	14	36	612	2.13	966	5	ND	1	68	2	2	3	32	1.63	.056	2	23	.80	33	.07	29	1.60	.04	.12	1	64
STD C/AU-R	18	59	36	133	7.0	68	30	1085	4.02	41	16	8	39	49	17	16	20	61	.51	.096	42	58	.92	180	.07	31	2.08	.07	.14	13	525

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

DATE RECEIVED: JULY 12 1988
DATE REPORT MAILED: July 16/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AG** & AU** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: C. Leong D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483 File # 88-2242R

SAMPLE#	AG**	AU**
	OZ/T	OZ/T
N 5179	.11	.009
N 5210	-	.013
N 5212	-	.011
N 5213	-	.236
N 5214	-	.256
N 5215	.74	.114
N 5216	.33	.022
N 5221	.12	-

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 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: JUN 27 1988   DATE REPORT MAILED: July 1/88   ASSAYER. C. Leong ...D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483   File # 88-2242   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	
N 5179	1	975	15	13582	5.1	19	481	1353	2.81	762	5	ND	1	44	70	2	8	24	3.74	.049	2	21	.53	1	.06	578	1.21	.02	.01	1	315	0.009
N 5180	2	157	7	54	.3	31	13	354	1.60	27	5	ND	1	246	1	2	2	23	2.61	.101	4	14	.32	52	.05	10	2.41	.09	.03	1	1	
N 5181	2	118	9	107	.3	29	9	348	1.53	74	5	ND	1	253	1	2	2	27	3.27	.079	3	10	.43	54	.07	21	3.00	.15	.06	1	9	
N 5182	1	41	6	35	.1	11	9	307	2.03	4	5	ND	11	40	1	2	2	31	1.07	.029	5	17	.87	11	.10	4	1.80	.07	.03	1	1	
N 5183	1	90	10	50	.1	24	36	425	2.64	63	5	ND	1	120	1	3	2	45	2.32	.065	2	109	1.13	3	.20	11	2.47	.02	.01	1	1	
N 5184	1	84	9	56	.1	17	16	567	3.91	2	5	ND	1	109	1	2	2	64	1.59	.037	2	20	1.79	21	.11	2	3.62	.15	.04	1	1	
N 5185	1	9	7	55	.1	25	15	566	3.07	2	5	ND	1	83	1	2	2	79	2.75	.070	3	30	1.45	16	.21	8	2.38	.04	.05	1	1	
N 5186	1	11	3	13	.1	3	5	117	.81	5	5	ND	1	18	1	2	2	8	1.02	.002	2	2	.25	1	.04	4	.86	.01	.01	1	3	
N 5187	1	17	8	52	.1	4	22	523	3.59	2	5	ND	1	162	1	2	2	82	1.93	.048	2	1	1.77	2	.16	9	2.76	.02	.01	1	1	
N 5188	1	1	5	19	.1	9	4	267	1.55	2	5	ND	1	157	1	2	2	35	2.73	.038	2	13	.55	1	.12	2	1.58	.02	.01	1	1	
N 5189	1	73	12	42	.2	7	91	380	2.62	5	5	ND	1	243	1	2	2	81	2.77	.042	2	3	.88	17	.07	2	4.61	.37	.05	1	1	
N 5190	1	2	4	20	.1	8	4	267	1.42	2	5	ND	1	91	1	2	2	38	2.56	.031	2	9	.64	2	.15	17	1.70	.01	.02	1	1	
N 5191	1	132	5	41	.1	25	16	299	6.83	2	5	ND	1	23	1	2	2	258	.88	.055	2	95	1.01	14	.19	12	1.42	.07	.04	1	1	
N 5192	1	41	8	36	.1	1	12	353	6.62	2	5	ND	1	29	1	2	2	245	1.11	.054	2	4	.56	15	.14	2	1.17	.09	.05	1	2	
N 5193	2	7	9	48	.1	27	16	517	3.46	2	5	ND	1	213	1	2	2	51	2.03	.067	2	32	2.08	21	.18	2	3.42	.03	.01	1	1	
N 5194	1	230	8	71	.8	20	9	576	3.99	2	5	ND	1	52	1	2	2	147	1.89	.077	2	69	1.07	16	.15	2	2.26	.15	.05	1	2	
N 5195	1	65	8	44	.4	15	15	567	5.23	2	5	ND	1	26	1	2	2	201	1.76	.119	2	11	.89	12	.21	10	1.59	.09	.05	1	1	
N 5196	1	65	7	65	.1	32	12	518	2.94	10	5	ND	1	45	1	2	2	57	1.57	.064	2	46	1.31	17	.14	5	2.29	.14	.04	1	1	
N 5197	3	138	7	77	.4	35	16	459	3.23	12	5	ND	1	33	1	2	2	60	1.38	.054	2	36	1.40	11	.15	3	2.29	.13	.04	1	1	
N 5198	1	88	3	37	.3	10	8	399	1.50	11	5	ND	1	80	1	2	2	20	2.60	.039	2	7	.37	14	.11	14	1.38	.06	.02	1	2	
N 5199	1	51	2	61	.3	8	5	788	1.38	18	5	ND	1	266	1	2	2	7	23.27	.014	2	2	.07	4	.01	15	.47	.01	.01	3	1	
N 5200	1	53	4	60	.2	17	11	568	1.52	51	5	ND	1	66	1	2	2	17	4.08	.026	2	7	.54	1	.07	22	1.21	.01	.01	1	1	
N 5201	1	448	4	130	1.7	43	22	371	1.87	63	5	ND	1	54	1	2	2	19	2.76	.040	2	13	.54	1	.08	9	.84	.01	.01	1	1	
N 5202	1	7	2	15	.1	6	3	235	1.17	2	5	ND	1	46	1	2	2	35	1.74	.028	2	5	.36	3	.15	11	.87	.01	.01	1	6	
N 5203	1	458	7	49	.7	59	64	258	7.80	30	5	ND	1	24	1	2	2	38	.96	.040	2	8	.63	7	.08	2	1.24	.07	.03	1	1	
N 5204	1	495	7	40	.6	59	71	253	9.25	6	5	ND	1	30	1	2	2	60	.87	.030	2	12	.73	7	.11	2	1.42	.09	.03	1	2	
N 5205	1	341	6	150	.4	49	33	263	6.40	16	5	ND	1	31	1	2	2	56	.98	.024	2	10	.69	7	.13	6	1.08	.07	.03	1	1	
N 5206	1	392	8	76	1.2	60	68	371	5.20	77	5	ND	1	53	1	2	2	56	1.53	.032	2	8	.87	10	.11	2	1.82	.13	.05	1	1	
N 5207	1	15	3	16	.1	17	36	780	2.06	74	5	ND	1	49	1	3	2	73	5.41	.040	2	7	.24	1	.09	16	1.01	.01	.01	1	1	
N 5208	1	37	17	181	.3	11	19	2562	11.01	127	5	ND	1	32	1	2	2	96	4.57	.037	2	11	1.84	4	.05	2	4.56	.01	.02	1	113	
N 5209	1	27	6	65	.4	5	39	2320	5.10	193	5	ND	1	53	1	2	2	30	14.98	.024	2	7	.58	1	.01	2	1.55	.01	.01	1	245	
N 5210	1	59	18	161	.5	9	85	3418	13.04	517	5	ND	1	40	1	2	2	81	9.59	.018	2	3	1.41	1	.01	2	4.11	.01	.01	1	520	0.013
N 5211	1	24	20	228	.3	4	26	3634	16.46	339	5	ND	1	30	2	2	2	113	5.86	.051	2	2	2.15	2	.04	2	5.78	.01	.01	1	36	
N 5212	1	124	10	105	.9	5	26	3210	8.15	4047	5	ND	1	74	1	2	2	55	14.14	.019	2	3	.98	1	.01	2	2.72	.01	.01	1	455	0.011
N 5213	1	279	20	57	3.0	8	236	1531	23.38	99999	5	5	2	42	1	2	20	22	6.00	.012	2	3	.43	2	.01	2	1.00	.01	.02	1	7860	0.234
N 5214	1	316	19	61	3.4	13	100	1923	23.46	99999	5	8	3	26	2	2	20	26	5.74	.014	2	3	.62	3	.01	2	1.44	.01	.03	1	9050	0.256
STD C/AU-R	18	59	43	132	6.9	69	29	1069	4.06	42	18	7	36	50	18	17	18	58	.49	.084	40	57	.92	179	.07	31	2.00	.08	.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	
M 5215	3	4678	19	105	20.1	38	160	1314	23.93	13343	5	2	2	11	1	2	2	56	1.98	.065	2	20	.86	2	.01	2	2.44	.01	.02	1	3270	0.114
M 5216	5	2446	19	74	10.5	26	60	673	36.16	1970	5	ND	3	15	1	3	2	37	1.64	.037	2	6	.30	7	.01	42	.86	.02	.02	1	847	0.022
M 5217	1	582	8	47	2.6	14	14	1807	7.78	1431	5	ND	2	29	1	2	2	50	8.39	.071	2	7	.36	2	.04	6	1.66	.02	.02	2	88	
M 5218	1	57	5	21	.4	9	7	980	2.60	347	5	ND	2	35	1	3	2	35	4.39	.053	3	8	.14	2	.07	21	1.04	.01	.02	1	105	
M 5219	1	496	34	505	2.2	47	28	648	4.68	193	5	ND	1	143	2	2	2	73	1.29	.047	2	54	1.54	34	.09	4	2.86	.11	.05	1	41	
M 5220	1	339	36	1110	1.7	35	26	642	3.59	148	5	ND	1	45	5	2	2	56	1.51	.042	2	48	1.43	6	.10	6	2.23	.02	.04	1	29	
M 5221	2	1016	31	548	4.3	46	32	635	5.74	187	5	ND	1	55	2	2	2	81	1.01	.039	2	59	1.55	23	.11	9	2.43	.09	.05	1	22	
M 5222	2	382	44	466	2.5	46	68	766	4.57	355	5	ND	1	24	2	2	3	60	1.26	.041	2	46	1.48	13	.08	2	2.05	.01	.04	1	27	

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

DATE RECEIVED: JULY 12 1988
DATE REPORT MAILED: July. 16/88

ASSAY CERTIFICATE

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

ASSAYER: C. Leong .... D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-72483 File # 88-2281R

SAMPLE#	Ag** OZ/T	Au** OZ/T
N 5273	.22	.050
N 5275	-	.012
N 5279	.21	-
N 5280	.55	.009
N 5281	.34	.027
N 5282	2.43	.118
N 5283	.26	.040
N 5306	-	.062
N 5307	-	.027
N 5309	-	.017

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 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: JUN 26 1988 DATE REPORT MAILED: July 2/88 ASSAYER. C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483 File # 88-2281 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	
M 5272	1	155	4	76	.1	36	13	1147	3.43	33	5	ND	1	105	1	2	2	47	10.27	.050	2	48	1.57	6	.09	7	2.16	.02	.02	1	11	
M 5273	1	1066	14	76	4.1	30	31	1098	8.31	745	5	ND	2	42	1	2	2	60	9.07	.014	2	6	2.25	2	.02	7	2.42	.03	.01	1	1850	0.050
M 5274	1	1185	9	88	3.9	17	20	1123	5.14	127	5	ND	2	42	1	2	2	38	5.24	.013	2	6	1.54	1	.02	2	1.69	.02	.01	1	203	
M 5275	1	1057	10	72	2.3	17	18	1081	6.53	167	5	ND	1	52	1	2	2	61	6.11	.052	2	7	2.04	1	.06	2	2.50	.02	.01	1	490	0.012
M 5276	1	1682	3	95	3.4	14	14	1083	5.03	18	5	ND	1	69	1	2	2	53	4.21	.031	2	5	1.42	1	.08	7	2.25	.01	.01	1	95	
M 5277	1	1331	5	50	2.6	9	16	770	3.20	46	5	ND	1	30	1	2	2	22	3.18	.041	2	8	.76	1	.02	2	.87	.01	.01	1	2	
M 5278	1	521	2	54	1.4	8	22	945	2.43	51	5	ND	1	46	1	2	2	10	5.93	.044	2	3	.63	1	.01	5	.29	.02	.01	1	29	
M 5279	1	1909	9	81	5.4	15	29	515	4.05	67	5	ND	1	22	1	2	3	23	2.05	.035	2	12	.83	1	.05	5	1.05	.01	.01	1	117	
M 5280	1	5725	3	256	21.1	13	38	736	4.65	89	5	ND	1	25	2	2	5	16	3.97	.039	2	3	.81	1	.01	5	.78	.02	.01	1	325	0.009
M 5281	1	3506	3	117	11.2	10	26	427	4.00	172	5	ND	1	12	1	2	2	7	2.08	.012	2	1	.73	1	.01	13	.45	.02	.01	1	1225	0.027
M 5282	1	22136	2	895	81.0	19	71	1180	11.04	410	5	5	1	32	8	2	12	8	9.56	.001	2	1	.47	1	.01	2	.48	.01	.01	1	4460	0.118
M 5283	1	1944	6	85	8.0	9	16	1237	3.97	185	5	5	1	76	1	2	2	19	16.45	.007	2	9	1.19	1	.01	9	1.12	.02	.02	1	1610	0.040
M 5284	1	874	3	29	3.0	5	26	561	2.59	101	5	ND	1	21	1	2	2	3	3.74	.014	2	1	.54	1	.01	6	.24	.02	.01	1	215	
M 5285	1	878	4	197	2.9	3	15	233	2.26	93	5	ND	1	5	1	2	4	1	1.10	.015	2	2	.36	1	.01	6	.07	.01	.01	1	83	
M 5286	3	696	3	39	2.5	9	19	406	2.66	146	5	ND	1	12	1	2	2	8	2.13	.014	2	13	.58	1	.01	12	.31	.02	.01	1	250	
M 5287	1	538	4	60	.9	12	24	995	4.64	63	5	ND	1	25	1	2	2	88	5.97	.033	2	9	.64	1	.04	8	1.19	.02	.01	1	91	
M 5288	1	217	4	24	.2	12	10	396	1.28	12	5	ND	1	71	1	2	2	29	3.72	.071	2	19	.31	1	.14	6	.98	.01	.01	1	72	
M 5289	1	61	4	12	.1	5	3	192	1.00	5	5	ND	1	87	1	2	2	32	2.37	.060	2	19	.19	1	.16	11	1.07	.01	.01	1	14	
M 5290	2	63	2	9	.1	4	3	199	1.04	4	5	ND	1	87	1	2	2	32	2.57	.082	2	18	.17	1	.12	13	1.06	.01	.01	1	6	
M 5291	1	24	2	15	.1	7	7	253	1.26	9	5	ND	1	93	1	2	2	28	3.29	.096	2	11	.31	2	.09	9	1.15	.01	.01	1	74	
M 5292	1	59	2	16	.1	7	4	249	1.50	7	5	ND	1	54	1	3	2	20	2.23	.109	2	11	.27	1	.07	8	.96	.01	.01	1	1	
M 5293	2	19	3	13	.1	4	3	194	1.25	11	5	ND	1	57	1	2	2	17	2.11	.097	2	12	.21	2	.09	2	1.01	.01	.01	1	1	
M 5294	1	6	9	34	.1	9	9	255	1.77	3	5	ND	1	72	1	2	2	41	1.53	.042	2	13	1.01	4	.15	11	1.61	.03	.02	1	1	
M 5295	1	3	5	29	.1	6	8	296	1.87	5	5	ND	1	106	1	2	2	42	2.28	.147	2	3	.93	5	.20	4	1.55	.01	.02	1	132	
M 5296	2	3	3	13	.1	2	6	181	1.77	12	5	ND	1	164	1	2	2	48	3.08	.191	3	2	.42	1	.24	17	1.51	.01	.01	1	5	
M 5297	1	99	4	11	.2	4	3	202	1.19	4	5	ND	2	91	1	2	2	29	3.02	.064	2	11	.29	1	.09	10	1.14	.01	.01	1	7	
M 5298	1	335	2	14	.5	5	4	205	1.34	3	5	ND	2	91	1	2	3	25	3.05	.070	2	13	.27	2	.08	7	1.13	.01	.01	1	55	
M 5299	1	616	3	14	.8	6	5	187	1.20	10	5	ND	1	109	1	2	2	27	3.57	.243	3	15	.17	1	.10	12	1.08	.01	.01	1	32	
M 5300	1	1588	5	33	3.4	10	9	238	1.56	11	5	ND	1	79	1	2	2	28	3.01	.094	3	11	.23	1	.14	10	.97	.01	.01	1	108	
M 5301	1	369	3	25	.7	3	3	215	1.26	3	5	ND	1	92	1	2	2	26	3.01	.120	3	9	.24	1	.14	9	1.00	.01	.01	1	52	
M 5302	1	187	6	31	.2	7	6	1353	6.08	17	5	ND	1	31	1	2	2	41	12.78	.008	2	5	.30	1	.06	4	1.95	.01	.02	1	49	
M 5303	1	486	11	53	1.0	11	17	529	2.88	56	5	ND	5	66	1	2	2	22	5.73	.057	2	17	.32	1	.06	9	1.11	.01	.02	1	235	
M 5304	1	77	3	18	.1	2	5	953	5.91	12	5	ND	1	12	1	2	2	33	11.28	.006	2	4	.23	1	.04	6	1.76	.01	.01	1	35	
M 5305	1	607	12	25	1.2	6	13	702	4.01	34	5	ND	4	53	1	2	2	28	7.41	.014	2	11	.29	1	.05	5	1.34	.01	.01	1	240	
M 5306	1	429	21	31	1.7	25	87	558	6.81	195	5	2	4	55	1	3	5	20	6.52	.005	2	6	.31	2	.07	8	.86	.01	.02	2	1910	0.062
M 5307	1	661	9	36	1.7	17	54	491	4.16	127	5	ND	3	67	1	3	2	22	7.60	.020	2	6	.56	1	.06	3	.92	.03	.02	1	920	0.027
STD C/AU-R	18	58	38	132	6.5	67	29	1054	4.08	43	18	9	36	47	18	18	19	57	.47	.084	39	57	.93	172	.06	33	1.89	.06	.13	12	495	

RECEIVED JUL 5 1988

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	
N 5308	1	747	13	47	2.0	16	31	651	5.40	80	5	ND	2	49	1	2	2	29	10.89	.002	2	6	.72	1	.04	7	1.11	.03	.01	7	255	
N 5309	1	562	6	63	1.1	8	9	588	2.91	24	5	ND	1	52	1	2	2	22	8.22	.004	2	5	.36	1	.06	8	.89	.02	.01	3	440	0.017
N 5310	1	502	8	44	.9	11	7	366	1.92	14	5	ND	2	92	1	2	2	32	4.75	.016	2	11	.43	1	.12	10	1.09	.01	.01	1	62	

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: JULY 12 1988
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED: July 15/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AG** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: C. Leong D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483 File # 88-2284R

SAMPLE#	AG** oz/t
N 5324	.29
N 5325	.35

RECEIVED JUL 1 9 1988

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

DATE RECEIVED: JUL 18 1988
DATE REPORT MAILED: July 20/88.

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: C. Leong D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT V1483 FILE # 88-2234R

SAMPLE#	AU** OZ/T
N 5325	.006

RECEIVED JUL 2 1 1988

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 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: JUN 28 1988   DATE REPORT MAILED: July 2/88   ASSAYER. ... .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483   File # 88-2284   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
N 5311	1	210	5	25	.7	7	4	205	1.32	6	5	ND	2	115	1	2	2	32	2.87	.033	2	6	.40	1	.14	8	1.13	.01	.01	1	13
N 5312	1	6	5	18	.4	10	3	206	1.17	2	5	ND	1	85	1	2	2	27	2.62	.034	2	17	.44	1	.15	6	1.13	.01	.01	1	4
N 5313	1	45	5	20	.4	9	3	225	1.33	3	5	ND	2	99	1	2	2	29	2.90	.029	2	15	.41	1	.13	4	1.28	.01	.01	1	7
N 5314	1	23	4	14	.1	6	3	161	1.09	6	5	ND	1	113	1	2	2	19	2.37	.007	2	11	.19	1	.10	7	1.26	.01	.01	1	5
N 5315	1	91	4	15	.4	6	2	138	.91	3	5	ND	2	75	1	2	2	17	1.70	.009	2	10	.20	2	.09	10	.94	.01	.02	1	17
N 5316	1	83	6	22	.4	11	5	324	1.43	8	5	ND	2	103	1	2	3	25	3.82	.129	2	16	.48	1	.08	9	1.18	.02	.01	1	31
N 5317	1	6	4	16	.1	11	7	198	1.65	8	5	ND	1	57	1	2	2	25	1.10	.039	2	11	.93	1	.09	10	1.30	.01	.02	1	1
N 5318	2	52	28	13	1.3	11	9	192	1.27	27	5	ND	2	143	1	2	2	41	3.07	.032	2	9	.40	1	.19	11	1.19	.03	.01	1	33
N 5319	1	19	5	6	.1	4	3	97	.86	13	5	ND	2	108	1	2	2	37	2.00	.022	2	10	.16	1	.18	9	.90	.01	.01	1	15
N 5320	1	188	5	8	.5	4	7	429	2.42	10	5	ND	1	86	1	2	2	25	3.99	.048	3	9	.11	1	.13	8	1.02	.01	.01	1	125
N 5321	1	18	5	13	.2	2	2	2481	7.44	6	5	ND	1	6	1	2	3	27	9.62	.005	2	3	.11	1	.04	2	1.58	.01	.01	5	1
N 5322	1	1115	9	19	3.0	10	5	959	5.39	40	5	ND	2	3	1	2	2	25	7.05	.032	2	6	.07	1	.03	6	1.06	.01	.01	1	138
N 5323	1	174	5	11	.6	4	2	1127	4.81	3	5	ND	2	4	1	2	2	24	7.45	.023	2	4	.10	1	.03	7	1.35	.01	.01	1	9
N 5324	5	4579	10	44	11.0	16	5	2541	9.02	35	5	ND	3	3	2	2	2	28	9.72	.017	2	6	.09	1	.02	6	1.20	.01	.01	25	90
N 5325	12	11909	17	87	28.5	36	18	2879	8.97	56	5	ND	2	8	3	2	3	35	8.61	.013	2	4	.17	1	.04	2	1.31	.03	.01	5	203
N 5326	1	110	3	8	.4	2	7	237	1.12	7	5	ND	3	57	1	2	2	20	2.49	.149	4	4	.16	1	.07	10	.63	.01	.01	1	41
N 5327	1	71	2	13	.4	4	4	277	.89	8	5	ND	2	39	1	2	2	17	2.69	.244	10	7	.42	1	.09	2	.46	.01	.01	1	8
N 5328	4	22	3	20	.2	7	5	324	1.34	11	5	ND	1	74	1	2	2	22	3.11	.093	2	9	.53	1	.07	15	.92	.01	.01	1	59
N 5329	1	50	6	35	.2	98	14	379	2.34	8	5	ND	1	19	1	3	2	61	2.40	.018	2	257	1.93	8	.11	11	2.05	.04	.07	1	4
N 5330	1	4	4	13	.1	16	5	203	1.44	7	5	ND	1	91	1	2	3	42	2.58	.030	2	18	.71	1	.21	10	1.06	.04	.01	1	1
N 5331	1	8	3	6	.3	8	2	119	.80	3	5	ND	1	70	1	2	3	26	2.51	.014	2	15	.27	1	.13	3	.64	.01	.01	1	1
N 5332	1	72	4	27	.3	42	26	338	1.87	44	5	ND	1	48	1	2	2	61	2.70	.056	2	26	.66	1	.25	9	.98	.01	.01	1	5
N 5333	1	3	5	33	.2	23	5	389	2.24	10	5	ND	1	66	1	2	2	49	1.87	.041	2	26	1.00	1	.23	4	1.22	.01	.01	1	1
N 5334	1	48	9	56	.3	2	14	445	6.42	16	5	ND	2	57	1	2	2	221	1.53	.075	2	3	.60	22	.14	8	1.76	.13	.06	1	1
N 5335	1	43	4	13	.5	20	6	827	3.46	22	5	ND	1	38	1	2	2	66	6.64	.018	2	35	.13	1	.08	4	.89	.01	.01	1	5
N 5336	1	144	11	67	.7	14	18	619	3.80	17	5	ND	2	69	1	2	3	110	1.54	.064	2	7	1.33	16	.15	12	2.31	.12	.07	1	1
N 5337	1	1201	24	71	3.4	91	147	425	29.53	39	5	ND	3	30	1	2	4	5	5.27	.003	2	1	.08	2	.01	3	.10	.01	.01	1	7
N 5338	1	19	3	4	.3	2	2	704	.46	5	5	ND	1	695	1	2	2	1	38.57	.003	2	1	.03	1	.01	26	.02	.01	.01	4	1
N 5339	1	15	2	26	.5	2	2	534	.44	6	5	ND	1	933	1	2	2	1	39.94	.003	2	1	.03	1	.01	18	.02	.01	.01	4	1
N 5340	1	13	2	4	.3	1	1	500	.12	4	5	ND	1	1347	1	2	2	1	39.19	.002	2	1	.02	1	.01	7	.03	.01	.01	3	1
N 5341	5	14	6	142	.2	5	22	628	2.05	50	5	ND	1	132	1	2	2	18	6.23	.073	2	7	.56	1	.08	2	.94	.01	.01	1	5
N 5342	1	3	9	78	.1	26	22	1101	4.28	20	5	ND	2	75	1	3	2	45	3.14	.046	2	22	1.37	1	.12	6	2.20	.01	.01	1	12
N 5343	4	26	8	56	.1	12	11	568	3.40	10	5	ND	3	26	1	2	2	71	1.70	.079	3	21	1.40	12	.21	10	2.07	.06	.07	1	1
N 5344	1	289	11	106	1.3	42	36	479	4.05	55	5	ND	1	58	1	2	3	67	1.41	.030	2	11	1.16	18	.12	4	1.65	.09	.08	1	2
N 5345	1	103	6	47	.5	18	5	684	2.05	23	5	ND	1	60	1	3	2	37	5.32	.020	2	7	.45	3	.10	9	1.19	.01	.01	2	1
N 5346	1	7	7	35	.1	7	2	523	1.81	7	5	ND	1	66	1	2	2	55	3.44	.001	2	15	.42	9	.14	6	1.33	.01	.01	2	3
STD C/AU-R	18	60	42	132	7.3	70	30	1041	4.04	43	22	8	40	51	19	17	22	60	.49	.086	38	59	.93	179	.07	31	1.95	.08	.16	13	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
N 5347	1	398	10	241	1.0	61	37	428	6.95	32	5	ND	1	97	1	2	2	62	1.93	.023	2	24	1.34	20	.10	7	4.00	.21	.03	1	2
N 5348	1	1317	6	93	2.7	63	64	421	8.78	67	5	ND	1	11	1	2	2	84	.81	.037	2	11	1.16	5	.15	5	1.62	.01	.05	1	1
N 5349	1	604	7	76	1.2	38	29	446	5.55	23	5	ND	1	12	1	2	2	134	1.52	.045	2	21	1.24	11	.20	4	1.63	.07	.09	1	1
N 5350	1	1000	7	201	2.8	40	39	393	5.40	43	5	ND	1	15	1	2	2	89	1.09	.046	2	13	.92	7	.17	8	1.36	.03	.04	1	1
N 5351	1	922	10	213	3.4	33	43	369	5.21	42	5	ND	1	23	1	3	3	69	1.08	.044	2	10	.81	7	.14	10	1.31	.02	.03	1	3
N 5352	1	75	3	61	.2	6	6	182	1.07	8	5	ND	1	45	1	2	2	23	2.04	.085	3	4	.28	15	.06	19	1.55	.07	.06	1	1
N 5353	1	5	3	60	.2	4	3	609	1.64	8	5	ND	1	48	1	2	2	29	6.00	.042	2	6	.48	1	.09	64	1.10	.01	.01	1	1
STD C/AU-R	17	58	41	132	7.2	67	29	991	4.05	42	15	7	37	49	17	17	18	58	.49	.081	40	56	.92	178	.07	36	1.89	.06	.14	12	470

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: JUL 18 1988
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED: July 21/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: C. Leong D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT V1463 FILE # 88-2239R

SAMPLE#	AU** oz/t
N 5233	.105
N 5234	.043
N 5235	.140
N 5236	.018
N 5237	.109
N 5238	.047
N 5239	.071
N 5240	.045
N 5241	.430
N 5242	.010
N 5246	.010
N 5249	.023
N 5250	.169
N 5251	.019
N 5254	.016
N 5255	.005
N 5265	.010
N 5270	.010

RECEIVED 2 1 1988

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 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: JUNE 28 1988 DATE REPORT MAILED: July 7/88 ASSAYER. C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483 File # 88-2289 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
N 5223	1	473	19	229	1.5	38	27	563	4.14	77	5	ND	1	38	1	2	2	73	.91	.054	2	49	1.33	24	.12	9	1.93	.07	.07	1	5
N 5224	2	77	7	62	.2	27	16	233	1.14	38	5	ND	1	132	1	2	2	19	2.24	.096	2	15	.23	24	.05	11	1.93	.06	.05	1	2
N 5225	1	27	3	37	.1	26	19	246	1.00	55	5	ND	1	21	1	2	2	22	1.69	.045	3	14	.14	7	.07	15	.82	.02	.02	1	1
N 5226	2	108	7	40	.2	19	11	287	1.26	35	5	ND	1	107	1	4	2	18	4.23	1.322	25	11	.19	13	.04	17	1.41	.04	.02	2	1
N 5227	1	218	9	55	.7	15	23	549	3.43	10	5	ND	1	44	1	2	2	109	1.32	.070	2	21	1.42	20	.18	6	1.85	.08	.08	1	5
N 5228	1	5	7	51	.1	6	11	604	3.13	2	5	ND	1	56	2	2	2	78	2.60	.054	2	50	1.64	15	.14	6	2.55	.13	.09	2	3
N 5229	1	155	7	36	.4	10	27	416	2.61	20	5	ND	1	63	2	2	2	73	1.76	.074	2	22	1.16	18	.14	11	2.11	.14	.06	1	4
N 5230	1	3	15	27	.3	11	6	332	1.53	4	5	ND	1	66	2	2	2	52	4.30	.038	2	16	.97	3	.12	8	2.95	.05	.06	1	4
N 5231	1	3	30	39	.6	18	59	504	1.87	96	5	ND	1	93	1	2	2	55	2.47	.036	2	16	1.07	11	.09	7	2.89	.19	.06	1	83
N 5232	1	11	8	27	.3	10	7	358	1.87	7	5	ND	1	69	1	2	2	19	2.56	.077	2	21	.67	1	.11	7	1.55	.01	.01	1	5
N 5233	1	567	9	39	1.6	8	47	490	3.43	125	5	ND	1	51	1	2	4	23	3.19	.091	2	24	.63	2	.09	7	1.24	.01	.01	1	225
N 5234	1	1274	11	113	3.8	9	182	705	28.66	313	5	ND	4	8	1	2	18	8	2.75	.014	2	13	.14	6	.01	19	.26	.01	.03	2	1990
N 5235	1	100	22	154	.4	7	112	385	43.16	216	5	ND	6	10	1	2	2	12	.97	.026	2	10	.15	9	.01	28	.23	.02	.03	1	1355
N 5236	1	84	16	169	1.3	12	184	920	25.26	285	5	4	3	35	1	2	2	24	3.74	.032	2	27	.50	15	.04	22	.93	.03	.06	1	605
N 5237	1	135	13	37	.5	28	2164	293	44.43	3501	5	4	5	6	1	3	2	10	.70	.007	2	109	.11	13	.01	49	.14	.02	.03	149	3450
N 5238	1	990	19	43	2.1	39	1483	686	29.05	2495	5	3	3	14	1	2	2	7	3.34	.007	2	76	.25	4	.01	18	.22	.01	.02	85	1502
N 5239	1	78	21	77	.6	12	761	547	35.17	1459	5	ND	5	12	1	2	2	19	1.31	.014	2	46	.41	15	.01	56	.56	.02	.03	56	1750
N 5240	1	21	8	44	.4	10	1951	694	12.43	3079	5	ND	1	20	1	2	2	17	2.52	.014	2	97	.51	3	.01	19	.44	.02	.03	1	1620
N 5241	1	52	4	39	.7	4	1218	655	9.03	2009	5	2	1	15	2	2	2	11	2.78	.011	2	60	.35	2	.01	9	.21	.01	.02	1	1085
N 5242	1	92	5	41	.3	2	466	1000	9.66	716	5	ND	1	17	1	2	2	15	4.90	.016	2	27	.39	2	.01	5	.29	.01	.01	6	350
N 5243	1	295	4	52	.9	4	376	692	6.20	558	5	ND	1	20	1	2	2	16	2.33	.019	2	28	.62	3	.02	8	.65	.01	.02	2	75
N 5244	1	1954	8	103	7.0	3	132	698	12.57	202	5	ND	1	11	1	2	5	15	2.96	.013	2	13	.31	3	.01	10	.25	.01	.01	73	60
N 5245	1	440	7	36	1.6	3	29	529	8.74	52	5	ND	1	7	1	2	5	12	1.86	.018	2	6	.28	4	.01	12	.19	.01	.01	1	72
N 5246	1	154	5	39	1.4	2	10	644	11.61	35	5	ND	1	11	1	2	2	17	2.94	.039	2	6	.27	4	.01	7	.30	.01	.01	1	420
N 5247	1	17	3	37	.3	13	25	783	2.89	28	5	ND	1	69	1	3	2	46	3.48	.017	2	33	2.16	2	.13	8	2.15	.02	.03	1	36
N 5248	1	19	6	49	.1	14	19	477	2.83	31	5	ND	1	208	1	2	2	66	2.89	.031	2	30	1.14	2	.17	4	2.30	.02	.01	1	6
N 5249	1	222	8	47	1.1	8	29	705	4.12	44	5	ND	1	30	1	3	5	23	3.89	.052	2	8	.65	18	.02	5	1.06	.06	.11	5	930
N 5250	1	2522	8	37	7.6	5	136	416	4.28	174	5	4	1	8	1	2	10	8	3.31	.034	2	12	.37	5	.01	9	.35	.02	.04	1	5135
N 5251	1	318	8	21	1.1	2	15	1493	6.75	25	6	ND	1	4	1	2	2	19	11.52	.008	2	3	.14	1	.01	2	.50	.01	.01	6	610
N 5252	1	475	2	25	1.4	1	18	357	3.55	41	5	ND	1	3	1	2	5	18	1.73	.007	2	5	.23	1	.01	8	.25	.01	.01	2	73
N 5253	1	31	5	19	.1	1	11	590	8.21	19	5	ND	1	3	1	2	2	33	2.84	.008	2	4	.15	3	.01	3	.32	.01	.01	6	59
N 5254	1	12	8	14	.2	1	16	1946	8.10	26	5	ND	1	5	2	2	3	25	13.37	.006	2	2	.15	2	.01	2	.73	.01	.01	6	495
N 5255	1	10	4	12	.1	1	13	1034	5.31	19	5	ND	1	7	1	2	4	23	10.26	.006	2	4	.20	1	.01	3	.47	.01	.01	3	225
N 5256	1	552	5	25	1.4	4	15	404	2.64	29	5	ND	1	46	1	2	2	29	2.69	.037	2	9	.57	2	.06	5	.81	.03	.02	2	48
N 5257	1	240	2	96	.9	10	54	279	2.04	89	5	ND	1	109	1	2	2	25	2.56	.065	2	15	.62	1	.09	11	1.27	.02	.01	1	92
N 5258	1	53	14	15	.4	10	93	288	1.52	148	5	ND	1	102	1	2	2	37	2.62	.023	2	16	.66	1	.13	9	1.20	.02	.01	1	52
STD C/AU-R	16	58	38	129	7.0	67	28	1029	3.77	36	17	7	36	47	17	16	19	53	.44	.081	36	53	.87	173	.06	33	1.88	.06	.13	11	475

RECEIVED JUL 1 1 1988

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
N 5259	1	3	7	17	.1	5	6	153	1.07	4	5	ND	1	87	1	2	2	35	2.15	.056	2	21	.68	2	.14	17	1.06	.02	.01	1	3
N 5260	1	25	7	44	.1	16	16	306	3.12	2	5	ND	1	57	1	3	2	80	2.02	.045	2	31	2.40	12	.12	2	3.91	.17	.04	2	1
N 5261	1	2	4	27	.1	23	16	253	2.93	2	5	ND	1	68	1	2	2	38	1.13	.062	2	34	1.92	2	.13	7	2.31	.01	.01	1	1
N 5262	1	3	8	27	.1	17	19	288	2.90	7	5	ND	1	70	1	3	2	40	1.20	.064	2	33	2.21	4	.18	7	2.65	.01	.03	1	1
N 5253	1	36	7	66	.3	25	12	529	3.43	20	5	ND	1	63	1	2	3	56	2.16	.049	2	44	1.97	2	.18	13	2.89	.03	.03	1	29
N 5264	1	6	4	30	.3	9	8	246	1.64	9	5	ND	1	42	1	2	2	32	1.53	.042	2	20	.88	7	.10	15	1.51	.01	.07	1	7
N 5265	1	396	8	112	.7	76	14	962	5.28	53	5	ND	1	31	1	2	2	69	7.06	.029	2	128	2.30	6	.11	4	2.91	.01	.09	1	460
N 5266	1	38	7	69	.1	19	12	529	2.88	11	5	ND	1	45	1	3	2	59	2.45	.066	2	31	1.84	8	.16	2	2.24	.02	.09	1	16
N 5267	1	6	5	90	.1	21	14	725	3.63	4	5	ND	1	41	1	2	2	55	2.09	.068	2	34	2.29	13	.12	3	2.67	.02	.12	1	2
N 5268	1	4	4	55	.1	15	9	442	2.15	4	5	ND	1	51	1	2	2	38	2.05	.055	2	24	1.53	8	.11	6	1.98	.02	.09	1	2
N 5269	1	38	2	70	.1	18	10	710	3.78	31	5	ND	1	58	1	2	2	40	3.34	.053	2	20	1.64	3	.09	2	2.08	.01	.05	1	32
N 5270	1	1069	7	143	3.2	24	20	1301	6.17	147	5	ND	1	87	1	3	4	62	11.30	.049	2	20	1.90	1	.03	4	2.32	.01	.01	1	540
N 5271	1	1094	3	55	2.6	17	17	603	3.39	52	5	ND	1	53	1	2	3	44	4.84	.048	2	20	1.40	1	.03	3	1.41	.02	.01	1	96
STD C/AU-R	18	60	42	132	6.7	70	29	1042	4.03	42	23	8	38	49	17	17	19	61	.47	.094	42	60	.91	179	.07	38	1.93	.07	.15	12	480

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

DATE RECEIVED: JUL 18 1988

DATE REPORT MAILED: July 23/88.

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: C. Leong. D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT V2483 FILE # 88-2340R

SAMPLE#	AU** oz/t
N 5359	.096
N 5360	.014
N 5361	.142
N 5404	.012
N 5406	.011

RECEIVED JUL 2 6 1988

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: JUNE 29 1988 DATE REPORT MAILED: July 11/88 ASSAYER. C. Leong . .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MHP CONSULTING LTD. PROJECT-V2483 File # 88-2340 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
N 5354	1	17	3	47	.2	4	2	698	1.71	26	5	ND	3	60	1	3	4	29	5.06	.062	2	8	.24	1	.11	2	1.14	.01	.02	1	12
N 5355	2	6	8	11	.2	3	2	578	1.56	4	5	ND	2	67	1	2	2	22	3.99	.054	5	3	.20	2	.14	10	1.05	.01	.02	1	48
N 5356	1	5	4	8	.1	3	2	337	1.29	4	5	ND	1	97	1	2	2	26	2.92	.092	2	7	.14	2	.13	13	1.21	.01	.01	1	23
N 5357	1	7	5	7	.1	4	2	635	1.68	8	5	ND	1	77	1	2	2	15	3.77	.034	2	6	.23	7	.08	2	1.32	.01	.01	1	44
N 5358	1	5	9	14	.1	5	3	831	2.05	11	5	ND	4	67	1	2	2	12	6.63	.038	3	11	.29	1	.07	2	1.14	.01	.01	1	84
N 5359	1	9	7	19	.3	5	2	896	2.64	2	5	ND	3	80	1	2	2	28	7.71	.070	5	13	.34	1	.13	10	1.34	.01	.02	1	3570 V.G.
N 5360	1	60	11	45	.2	23	7	1377	5.49	4	5	ND	3	80	1	2	2	38	7.57	.058	3	25	.56	1	.05	11	1.62	.01	.02	1	480
N 5361	1	57	9	43	.1	5	4	1417	3.32	10	5	ND	1	45	1	2	2	52	14.63	.060	2	10	.30	1	.04	43	.83	.01	.03	2	6655
N 5362	10	497	2	43	.6	29	61	1109	20.65	11	5	ND	5	34	1	2	2	60	6.91	.155	3	28	.25	1	.01	7	.01	.01	.03	4	71
N 5363	3	230	15	36	.3	20	22	1738	7.55	33	5	ND	1	68	1	2	2	60	15.21	.120	2	24	.40	1	.04	4	1.09	.01	.01	1	15
N 5364	7	91	10	37	.2	12	17	1971	7.18	6	5	ND	2	75	1	2	2	96	13.08	.142	4	45	.59	1	.03	14	1.37	.01	.01	1	93
N 5365	1	53	13	62	.3	14	7	1370	4.21	49	5	ND	3	57	1	2	2	41	5.60	.076	3	56	.55	7	.09	20	1.21	.01	.04	1	4
N 5366	7	44	7	27	.1	21	8	2648	6.48	24	5	ND	1	59	1	2	3	44	10.68	.136	5	23	.34	71	.03	145	.74	.02	.09	2	77
N 5367	17	18	5	18	.1	9	6	2039	4.08	99	5	ND	2	61	1	5	2	14	6.98	.071	5	13	.59	60	.05	22	1.03	.01	.10	1	29
N 5368	2	5	5	18	.1	9	3	961	2.45	20	5	ND	2	59	1	6	2	15	3.80	.059	4	5	.35	18	.07	13	1.09	.01	.03	1	64
N 5369	3	10	3	18	.1	16	5	1751	3.21	25	5	ND	2	67	1	5	2	17	6.26	.184	9	11	.43	18	.04	12	1.04	.01	.06	1	105
N 5370	4	93	7	811	.4	14	7	367	1.61	34	5	ND	2	37	4	2	2	22	4.77	.079	5	8	.18	1	.09	11	1.11	.01	.01	1	8
N 5371	3	46	6	591	.1	12	7	241	1.19	36	5	ND	1	54	3	2	2	22	4.44	.102	7	6	.11	1	.08	15	.96	.01	.01	1	4
N 5372	5	126	5	374	.4	18	9	180	1.36	35	7	ND	1	89	2	3	2	27	3.05	.108	9	7	.13	1	.11	3	1.04	.01	.01	1	6
N 5373	1	49	7	1143	.4	10	5	430	1.41	20	5	ND	2	37	4	2	2	16	11.29	.169	8	6	.09	1	.04	61	.87	.01	.02	1	10
N 5374	1	28	4	689	.1	5	2	435	.90	7	5	ND	1	15	3	2	3	10	10.22	.002	2	3	.06	1	.03	42	.61	.01	.01	1	1
N 5375	1	9	2	422	.1	8	7	214	.78	24	5	ND	6	59	2	2	2	14	4.20	.030	4	5	.04	1	.07	21	.83	.01	.02	1	1
N 5376	3	84	4	750	.3	16	9	207	1.41	31	5	ND	1	77	3	2	2	20	3.45	.057	4	5	.05	1	.09	13	.79	.01	.01	1	1
N 5377	2	354	5	121	1.0	26	17	453	3.62	59	5	ND	1	41	1	2	2	21	7.31	.070	5	1	.09	1	.07	12	1.02	.01	.01	1	11
N 5378	7	170	7	873	.7	28	8	529	1.94	35	5	ND	1	50	3	3	2	35	7.87	.119	7	11	.08	1	.08	42	.77	.01	.01	1	3
N 5379	4	137	6	77	.3	29	16	310	3.89	49	5	ND	1	40	1	2	5	31	1.45	.075	4	10	.31	43	.08	5	1.04	.02	.02	1	3
N 5380	2	293	9	47	.7	32	22	372	5.94	75	5	ND	1	32	1	2	2	32	1.35	.064	3	10	.48	48	.08	6	1.16	.02	.01	1	8
N 5381	3	54	2	39	.4	10	3	224	1.44	12	7	ND	3	88	1	3	4	28	2.17	.084	5	8	.24	1	.12	7	1.21	.01	.01	1	1
N 5382	5	94	4	89	.3	27	8	157	1.19	47	5	ND	15	60	1	3	2	9	1.23	.015	8	4	.15	49	.04	5	.80	.02	.01	1	1
N 5383	115	11	11	62	.5	47	6	359	1.72	68	5	ND	1	123	1	3	6	28	3.96	.044	4	13	.33	1	.09	27	1.61	.01	.01	1	1
N 5384	3	72	5	98	.7	9	5	383	1.22	101	5	ND	2	51	1	5	2	16	2.75	.055	4	6	.23	1	.10	46	.89	.01	.03	1	1
N 5385	2	4	2	27	.2	13	3	407	1.11	23	5	ND	3	41	1	2	2	18	3.13	.071	4	9	.38	1	.05	12	.68	.01	.01	2	1
N 5386	5	107	5	74	.3	34	6	310	2.08	23	5	ND	1	64	1	4	3	20	2.20	.095	6	11	.31	52	.06	14	1.11	.02	.01	1	1
N 5387	3	190	8	69	.8	15	6	370	2.07	29	5	ND	1	63	1	4	3	37	2.77	.063	4	4	.46	1	.15	15	1.34	.01	.01	1	8
N 5388	1	389	10	212	1.5	11	29	461	2.83	68	5	ND	6	50	1	2	2	54	2.57	.025	3	11	.98	3	.11	8	2.91	.02	.01	1	20
N 5389	1	17	3	24	.2	9	4	165	.97	3	5	ND	16	24	1	2	4	13	.44	.009	10	20	.42	19	.04	7	.74	.05	.06	1	1
STD C/AU-R	18	58	40	132	6.6	68	30	1057	4.14	38	18	8	37	47	18	16	21	59	.47	.086	40	59	.93	181	.07	34	1.96	.06	.15	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
N5390	1	126	2	36	.2	14	8	426	2.80	2	8	ND	6	23	1	2	2	56	1.12	.041	4	29	.97	33	.15	13	1.59	.06	.14	1	34
N5391	1	56	3	277	.3	30	32	566	3.41	44	5	ND	1	39	2	2	2	69	1.30	.076	2	92	1.72	17	.22	7	2.07	.05	.05	1	2
N5392	1	40	2	61	.1	15	23	499	3.10	28	6	ND	13	37	1	2	2	49	.88	.034	4	28	1.18	25	.12	4	2.00	.06	.06	1	1
N5393	1	10	2	317	.3	12	11	354	1.89	10	5	ND	1	45	2	3	2	40	1.38	.060	2	25	.73	7	.15	12	1.31	.02	.02	1	1
N5394	1	2	4	22	.2	8	5	326	1.39	6	5	ND	1	56	1	2	2	37	3.61	.056	2	12	.77	10	.10	11	1.90	.03	.06	1	5
N5395	1	3	2	37	.1	21	20	323	1.47	30	5	ND	1	93	1	2	2	35	2.97	.014	2	29	1.13	13	.07	9	3.47	.17	.06	1	2
N5356	1	5	7	35	.2	8	6	431	1.98	6	5	ND	1	58	1	2	2	64	2.46	.065	2	17	1.14	8	.12	10	2.51	.08	.05	1	2
N5397	1	536	5	57	1.9	9	68	946	3.83	111	5	ND	1	21	1	2	2	22	2.72	.039	2	11	1.15	23	.03	11	1.36	.08	.14	1	56
N5398	1	1277	6	80	5.2	18	443	527	2.46	720	7	ND	1	5	1	3	2	4	2.22	.026	2	25	.26	4	.01	8	.18	.02	.03	1	30
N5399	1	422	8	18	2.1	4	15	484	5.26	77	5	ND	1	4	1	6	2	4	2.06	.022	2	4	.25	3	.01	5	.21	.02	.03	1	41
N5400	1	108	3	21	.4	2	10	582	3.44	54	5	ND	1	17	1	3	3	11	2.51	.042	2	8	.49	4	.03	3	.58	.03	.03	1	13
N5401	1	21	4	20	.1	7	9	328	1.35	19	5	ND	1	70	1	2	2	23	2.11	.096	2	21	.34	2	.11	7	.98	.01	.01	1	13
N5402	1	253	4	27	.7	2	21	1369	4.76	33	5	ND	1	4	1	2	2	8	6.16	.011	2	5	.27	4	.01	3	.53	.02	.02	3	2
N5403	1	790	2	37	2.8	2	27	988	4.85	49	5	ND	1	7	1	2	3	9	4.42	.007	2	6	.28	3	.02	10	.60	.02	.02	2	15
N5404	1	2885	9	129	10.1	2	70	740	12.70	223	5	ND	1	3	1	2	5	10	4.02	.004	2	6	.23	2	.01	2	.38	.01	.01	10	420
N5405	1	62	2	14	.2	1	6	700	3.84	29	5	ND	1	3	1	2	2	4	4.30	.006	2	3	.22	3	.01	7	.30	.01	.01	1	71
N5406	1	66	4	11	.4	1	49	1475	7.18	55	5	ND	1	3	1	2	2	13	11.12	.005	2	2	.10	1	.01	3	.38	.01	.01	4	325
N5407	1	26	2	14	.2	1	11	247	1.09	8	5	ND	1	25	1	2	2	7	.99	.023	2	6	.36	6	.01	6	.47	.02	.03	1	32
N5408	1	717	4	71	1.9	3	6	209	1.31	11	5	ND	1	82	1	2	2	25	2.07	.069	2	8	.22	2	.12	7	1.02	.01	.02	1	23
N5409	1	6	9	40	.1	16	12	500	2.63	2	5	ND	1	91	1	2	2	66	2.44	.031	2	68	2.34	12	.12	6	3.38	.16	.08	1	1
N5410	1	8	3	36	.1	10	9	507	2.96	8	5	ND	1	177	1	2	2	78	4.49	.039	2	28	1.76	2	.17	7	2.38	.06	.02	1	1
N5411	1	63	13	39	.2	15	7	305	1.67	3	5	ND	1	190	1	2	2	35	2.25	.032	2	35	1.16	6	.10	8	2.89	.20	.04	1	1
N5412	1	384	6	37	1.4	2	40	313	2.41	75	5	ND	1	3	1	2	3	8	2.20	.018	2	5	.21	6	.01	6	.23	.02	.03	1	41
STD C/AU-R	16	58	39	127	7.1	68	27	1058	3.78	38	19	7	36	48	16	16	20	54	.45	.085	36	55	.87	172	.06	34	1.85	.06	.13	13	510

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

DATE RECEIVED: JUL 18 1988
DATE REPORT MAILED: July 20/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: C. Leong ... D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT V2433 FILE # 88-2363R

SAMPLE#	AU** oz/t
N 5443	.008
N 5449	.014
N 5435	.009
N 5472	.009

RECEIVED JUL 21 1988

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 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: JUNE 30 1988 DATE REPORT MAILED: July 8/88 ASSAYER. C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483 File # 88-2363 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
N 5413	1	78	6	86	.1	15	10	603	3.01	9	5	ND	1	77	1	2	2	103	3.02	.080	2	43	1.81	27	.16	15	3.11	.13	.07	1	4
N 5414	1	3	2	45	.1	12	8	469	2.41	8	5	ND	1	71	1	2	2	68	3.96	.037	2	26	1.47	4	.18	17	2.82	.08	.04	1	1
N 5415	1	4	5	31	.1	7	8	293	1.83	9	5	ND	1	72	1	2	2	50	2.52	.040	2	11	.89	4	.12	12	1.95	.05	.02	1	2
N 5416	1	5	8	36	.1	7	7	376	2.38	10	5	ND	1	80	1	2	2	72	3.30	.053	2	13	1.26	3	.17	11	2.36	.04	.02	1	1
N 5417	1	7	5	54	.3	10	12	348	2.49	8	5	ND	1	44	1	2	2	51	4.18	.050	2	26	1.36	6	.15	11	2.47	.03	.03	1	35
N 5418	1	4	3	32	.1	13	13	299	2.86	3	5	ND	1	52	1	2	2	35	1.07	.053	2	24	1.75	4	.10	4	2.30	.01	.01	2	1
N 5419	1	4	6	48	.1	15	7	440	2.06	6	5	ND	1	57	1	2	2	33	4.97	.026	2	19	1.05	5	.12	6	1.89	.01	.06	2	3
N 5420	1	4	5	18	.1	8	5	183	1.07	4	5	ND	1	49	1	2	2	19	1.69	.023	2	15	.59	3	.10	7	1.19	.01	.01	1	1
N 5421	1	4	2	21	.1	11	10	265	1.81	16	5	ND	1	94	1	2	3	39	3.46	.181	2	16	.92	1	.12	16	1.46	.03	.01	1	8
N 5422	1	15	2	21	.1	7	27	228	1.43	39	5	ND	1	105	1	2	3	25	3.04	.096	2	10	.41	1	.10	8	1.34	.01	.01	1	2
N 5423	2	193	2	36	.4	9	68	204	1.27	96	5	ND	1	45	1	2	2	14	2.25	.027	2	13	.39	1	.05	9	.70	.01	.01	1	9
N 5424	2	212	3	78	.6	10	42	245	1.14	65	5	ND	1	72	1	2	2	23	3.00	.076	2	16	.40	1	.07	12	1.00	.01	.01	1	4
N 5425	2	20	2	28	.1	5	7	202	1.22	12	5	ND	1	96	1	2	2	30	2.75	.058	2	15	.34	1	.11	15	1.26	.01	.01	1	1
N 5426	1	3	6	17	.2	7	6	220	1.29	3	5	ND	1	79	1	2	2	24	1.88	.039	2	15	.58	1	.11	3	1.25	.01	.01	1	1
N 5427	1	1	2	25	.1	8	6	259	1.36	3	5	ND	1	80	1	2	2	29	1.86	.055	2	17	.81	6	.13	5	1.49	.02	.04	2	2
N 5428	1	4	4	8	.1	4	3	120	.93	3	5	ND	1	62	1	2	3	20	1.38	.020	2	8	.20	2	.07	2	.92	.01	.01	1	1
N 5429	1	6	5	46	.1	11	10	265	1.84	2	5	ND	1	56	1	2	2	48	1.71	.053	2	25	1.42	9	.13	6	2.26	.12	.04	1	2
N 5430	1	1485	4	33	3.5	16	10	276	1.98	10	5	ND	1	39	1	2	2	31	1.57	.058	2	30	1.26	5	.12	11	1.44	.02	.02	2	1
N 5431	1	3	5	10	.1	4	8	120	.99	9	5	ND	1	44	1	2	2	14	.94	.019	2	7	.43	1	.07	7	.98	.01	.01	1	1
N 5432	1	22	6	16	.1	4	5	154	1.31	17	5	ND	1	27	1	2	4	19	2.18	.021	2	10	.48	1	.07	3	.79	.01	.01	1	22
N 5433	1	34	7	41	.1	4	22	394	5.95	82	5	ND	1	48	1	2	3	102	1.25	.170	2	11	2.51	7	.21	8	3.03	.02	.03	2	1
N 5434	1	35	3	16	.1	4	13	212	2.72	19	5	ND	1	89	1	2	2	46	1.65	.092	2	8	.88	4	.21	10	1.63	.01	.01	2	2
N 5435	1	44	6	33	.1	5	24	314	4.89	33	5	ND	1	47	1	2	2	108	1.25	.166	2	10	2.43	33	.24	6	2.70	.05	1.01	2	1
N 5436	1	92	2	26	.1	2	13	245	1.95	13	5	ND	1	87	1	2	2	42	1.62	.137	2	8	1.00	2	.21	11	1.54	.01	.04	1	1
N 5437	1	6	3	9	.1	5	4	164	1.16	6	5	ND	2	101	1	2	2	30	2.56	.151	2	21	.21	2	.11	8	1.21	.01	.01	1	1
N 5438	1	50	5	29	.2	13	10	335	1.87	34	5	ND	1	65	1	2	2	25	4.59	.284	2	16	1.07	1	.05	3	1.26	.02	.01	2	26
N 5439	1	101	7	23	.3	6	7	291	1.75	17	5	ND	1	72	1	2	2	29	4.18	.058	2	12	.71	1	.10	9	1.32	.01	.01	1	15
N 5440	2	91	4	25	.3	7	8	252	1.70	18	5	ND	1	95	1	2	2	33	3.46	.103	3	13	.53	1	.14	3	1.52	.01	.01	1	17
N 5441	1	31	2	34	.1	8	8	269	1.56	15	5	ND	1	92	1	2	2	33	3.54	.159	2	11	.68	1	.11	3	1.43	.01	.01	2	8
N 5442	1	46	2	19	.2	6	10	192	1.17	16	5	ND	1	75	1	3	4	25	2.40	.054	2	7	.43	1	.10	5	.99	.01	.01	1	5
N 5443	2	3541	3	300	15.1	37	31	413	3.36	105	5	ND	1	60	2	3	8	25	4.04	.208	3	14	.47	1	.06	9	1.05	.01	.01	2	360
N 5444	3	147	5	32	.6	8	9	581	2.85	38	5	ND	1	39	1	3	2	34	5.47	.020	2	19	.32	1	.11	8	1.41	.01	.01	2	37
N 5445	8	984	5	62	3.3	17	25	369	2.29	43	5	ND	1	63	1	3	6	25	3.25	.022	2	18	.29	1	.09	6	1.17	.01	.01	1	85
N 5446	7	150	2	30	.5	8	15	236	1.37	22	5	ND	1	81	1	2	2	21	2.78	.058	2	13	.24	1	.11	5	1.07	.01	.01	2	27
N 5447	1	180	7	18	.7	4	2	748	5.06	8	6	ND	1	50	1	2	2	46	8.39	.018	3	8	.13	1	.12	4	1.25	.01	.01	1	8
N 5448	1	129	6	10	.4	4	2	119	1.29	4	6	ND	1	125	1	2	2	23	2.47	.058	2	28	.13	1	.15	6	1.26	.01	.01	1	3
STD C/AU-R	17	58	41	132	6.8	67	29	1054	4.09	41	17	8	38	47	16	16	19	58	.47	.090	39	57	.91	180	.07	31	1.97	.07	.14	13	495

RECEIVED JUL 1

MPH CONSULTING LTD. PROJECT-V2483 FILE # 88-2363

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
W 5449	1	128	2	19	.4	6	13	276	2.66	18	5	ND	1	56	1	2	4	24	2.90	.024	2	9	.18	1	.04	2	.71	.01	.01	4	640
W 5450	1	123	9	19	.3	5	3	1070	7.68	7	5	ND	1	29	1	2	2	65	11.74	.026	2	20	.13	1	.04	2	.90	.01	.01	10	8
W 5451	1	235	6	17	.6	4	3	843	6.21	11	5	ND	1	26	1	2	2	73	9.50	.117	3	30	.15	1	.03	4	.77	.01	.01	9	17
W 5452	1	199	7	16	.4	5	3	424	2.92	11	5	ND	1	24	1	2	2	41	4.07	.334	5	23	.18	1	.01	15	.45	.01	.01	7	4
W 5453	1	187	11	19	.5	3	2	1102	6.96	6	5	ND	1	25	1	2	2	102	11.28	.098	4	47	.13	1	.02	2	.85	.01	.01	11	1
W 5454	1	223	10	16	.6	5	2	1333	7.71	6	5	ND	1	19	1	2	2	137	12.83	.092	3	35	.13	1	.02	10	.98	.01	.01	9	10
W 5455	1	540	9	70	1.7	15	24	563	3.67	43	5	ND	1	57	1	4	2	34	5.51	.016	2	13	.22	1	.04	11	.97	.01	.01	2	250
W 5456	2	2275	16	168	5.3	56	20	1585	8.62	31	5	ND	1	48	2	2	4	122	4.15	.028	2	54	2.64	12	.12	4	3.89	.01	.09	1	12
W 5457	33	12264	23	320	29.3	103	62	1451	13.03	230	5	ND	1	28	3	2	2	134	3.09	.018	2	148	2.91	6	.08	2	4.20	.01	.05	1	147
W 5458	191	484	8	26	1.5	24	11	320	2.13	10	5	ND	1	32	1	2	6	32	2.10	.006	2	65	.86	3	.07	36	1.04	.03	.02	1	10
W 5459	1	39	7	36	.1	77	13	328	2.56	2	5	ND	1	22	1	2	2	73	1.43	.016	2	218	2.66	4	.14	5	2.42	.05	.05	1	3
W 5460	1	8	12	31	.1	56	12	271	2.19	6	5	ND	1	51	1	2	2	63	2.88	.028	2	65	1.74	7	.15	2	2.40	.15	.06	1	1
W 5461	1	8	5	34	.1	59	10	251	2.01	2	5	ND	1	62	1	2	2	54	1.39	.017	2	56	1.68	6	.11	2	2.45	.20	.04	1	1
W 5462	1	2	3	29	.1	79	11	246	2.05	14	5	ND	1	24	1	2	4	48	1.55	.013	2	279	1.67	5	.09	2	1.78	.05	.05	1	14
W 5463	1	3	8	19	.1	69	8	169	1.36	2	5	ND	1	49	1	2	2	31	1.35	.011	2	177	1.37	13	.05	7	2.16	.19	.10	1	1
W 5464	1	3	8	19	.2	53	6	181	1.31	6	5	ND	1	35	2	2	3	31	3.79	.013	2	141	1.07	1	.08	4	2.07	.03	.04	1	3
W 5465	1	1	8	55	.1	122	18	340	2.93	6	5	ND	1	30	1	2	2	57	2.26	.024	2	263	3.04	1	.14	4	2.98	.03	.03	1	4
W 5466	1	8	4	33	.1	15	8	253	2.38	3	5	ND	2	47	1	2	2	70	2.13	.044	2	30	1.31	10	.17	8	2.27	.06	.12	1	51
W 5467	1	25	10	28	.1	14	10	235	2.59	3	5	ND	1	126	1	2	2	70	3.39	.044	2	25	1.27	5	.19	3	2.80	.07	.07	2	6
W 5468	1	3	9	31	.1	26	11	242	2.80	4	5	ND	1	102	1	2	4	65	2.19	.058	2	36	1.53	12	.19	17	2.82	.10	.07	1	3
W 5469	1	15	9	23	.1	31	7	160	1.65	4	5	ND	1	78	1	2	2	55	2.36	.048	5	58	.97	5	.20	10	2.23	.10	.09	1	1
W 5470	1	1	8	11	.2	8	5	140	1.74	3	5	ND	1	140	1	3	4	49	3.46	.032	2	20	.64	3	.13	12	2.50	.02	.03	2	4
W 5471	1	4	15	45	.2	21	23	396	4.50	58	5	ND	1	61	1	2	2	136	5.79	.032	2	35	2.41	2	.20	10	4.61	.02	.06	3	49
W 5472	1	835	18	48	1.8	21	30	497	6.56	178	5	ND	1	49	1	2	2	175	2.14	.124	2	20	2.48	4	.29	20	2.99	.02	.04	1	230
W 5473	1	40	11	37	.1	11	19	377	4.23	24	5	ND	1	80	1	2	2	100	1.96	.057	2	28	2.01	13	.24	9	2.65	.04	.07	1	11
W 5474	1	7	5	10	.2	12	7	125	1.57	56	5	ND	1	109	1	2	2	32	2.47	.045	2	18	.57	1	.18	3	1.50	.01	.01	1	86
W 5475	1	3	6	15	.1	17	13	162	2.14	3	5	ND	1	77	1	2	2	38	1.15	.049	2	26	1.53	1	.22	2	1.94	.01	.01	1	2
W 5476	1	5	4	14	.1	14	13	160	2.05	2	5	ND	2	140	1	2	2	40	1.73	.047	2	28	1.32	1	.19	8	2.16	.01	.01	1	102
W 5477	1	2	4	10	.1	9	7	124	1.66	3	5	ND	1	134	1	2	2	35	1.86	.046	2	20	.77	1	.20	4	1.80	.01	.01	1	3
STD C/AU-R	18	63	44	132	6.9	69	29	1042	4.07	44	18	9	38	49	19	16	19	60	.47	.091	39	59	.92	179	.07	36	1.93	.07	.15	14	505

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

GEOCHEMICAL ANALYSIS CERTIFICATE

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THIS LEACH IS PARTIAL FOR MN FE 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: JULY 01 1988 DATE REPORT MAILED: July 6/88 ASSAYER. C. Leong ..D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483 File # 88-2388

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
N 5478	1	31	2	39	.2	13	13	483	4.04	22	5	ND	2	34	1	3	2	87	1.84	.058	2	30	1.92	15	.18	3	2.35	.02	.06	1	15
N 5479	1	128	3	35	.4	13	13	295	2.84	5	5	ND	1	66	1	2	2	70	1.87	..051	2	30	1.57	12	.20	14	2.42	.09	.05	1	3
N 5480	1	19	3	44	.1	12	10	370	2.93	10	5	ND	1	70	1	2	2	67	3.29	.053	2	20	1.61	8	.18	4	2.73	.04	.05	1	3
N 5481	2	11	6	42	.3	14	10	376	2.70	6	5	ND	8	55	1	2	2	62	1.42	.047	2	30	1.51	23	.17	6	2.16	.07	.13	1	1
N 5482	1	325	6	67	.6	12	13	558	4.00	4	5	ND	1	62	1	2	2	74	2.00	.050	2	19	1.95	12	.18	6	3.15	.11	.07	1	5
N 5483	1	11	4	37	.3	9	9	323	2.52	5	5	ND	1	68	1	4	2	52	2.01	.053	2	19	1.16	11	.18	14	2.21	.07	.06	1	1
N 5484	1	5	6	28	.2	12	13	332	2.96	3	5	ND	1	97	1	2	2	47	1.39	.054	2	19	1.85	3	.15	8	2.49	.01	.03	1	1
N 5485	1	1	21	79	.1	2	3	146	1.19	5	5	ND	1	124	3	2	2	31	2.50	.054	2	6	.33	4	.13	4	1.61	.01	.02	1	3
N 5486	1	3	7	38	.1	7	9	325	2.30	4	5	ND	1	116	1	2	2	39	2.25	.055	2	13	1.32	4	.11	4	2.28	.01	.04	1	1
N 5487	1	1	3	11	.1	3	3	147	1.34	4	5	ND	1	159	1	2	2	36	2.88	.033	2	8	.33	2	.10	9	1.92	.01	.01	1	1
N 5488	1	1	2	9	.2	2	2	134	1.03	3	5	ND	1	120	1	2	2	29	2.57	.089	3	6	.14	19	.15	11	1.48	.01	.06	1	1
N 5489	1	1	2	7	.2	2	1	130	.97	2	5	ND	2	134	1	2	2	30	2.57	.092	3	6	.12	19	.14	11	1.55	.01	.05	1	1
N 5490	1	2	4	4	.1	1	1	101	.96	2	5	ND	1	142	1	2	2	32	2.59	.086	2	5	.04	19	.14	6	1.57	.01	.04	1	2
N 5491	1	1	4	5	.1	1	1	91	.86	2	5	ND	1	131	1	2	2	28	2.29	.039	2	6	.07	17	.09	10	1.47	.01	.04	1	1
N 5492	1	1	5	9	.1	5	3	118	1.13	2	5	ND	1	123	1	2	2	29	2.11	.039	2	8	.24	17	.10	9	1.54	.01	.04	1	1
N 5493	1	1	8	7	.1	1	1	108	.99	2	5	ND	1	136	1	2	2	29	2.22	.024	2	4	.11	13	.08	8	1.55	.01	.03	1	1
N 5494	1	2	3	30	.1	10	6	259	1.93	2	5	ND	1	126	1	2	2	32	2.17	.038	2	12	.80	4	.10	6	2.02	.01	.02	1	1
N 5495	1	2	2	29	.1	10	6	251	1.94	4	5	ND	1	130	1	2	3	36	2.35	.050	2	11	.88	3	.12	6	2.11	.01	.01	1	2
N 5496	1	48	8	69	.2	10	11	656	3.69	3	5	ND	2	36	1	2	2	79	1.85	.050	3	23	1.52	12	.15	5	1.95	.04	.05	1	2
STD C/AU-R	16	57	39	134	7.1	67	28	1092	4.10	39	18	8	36	49	16	16	18	55	.47	.086	38	55	.91	176	.06	32	1.90	.06	.13	14	520

RECEIVED JUL 1 1 1988

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 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: JULY 01 1988 DATE REPORT MAILED: July 6/88 ASSAYER. C. Leong ...D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483 File # 88-2388

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
M 5478	1	31	2	39	.2	13	13	483	4.04	22	5	ND	2	34	1	3	2	87	1.84	.058	2	30	1.92	15	.18	3	2.35	.02	.06	1	15
M 5479	1	128	3	35	.4	13	13	295	2.84	5	5	ND	1	66	1	2	2	70	1.87	.051	2	30	1.57	12	.20	14	2.42	.09	.05	1	3
M 5480	1	19	3	44	.1	12	10	370	2.93	10	5	ND	1	70	1	2	2	67	3.29	.053	2	20	1.61	8	.18	4	2.73	.04	.05	1	3
M 5481	2	11	6	42	.3	14	10	376	2.70	6	5	ND	8	55	1	2	2	62	1.42	.047	2	30	1.51	23	.17	6	2.16	.07	.13	1	1
M 5482	1	325	6	67	.6	12	13	558	4.00	4	5	ND	1	62	1	2	2	74	2.00	.050	2	19	1.95	12	.18	6	3.15	.11	.07	1	5
M 5483	1	11	4	37	.3	9	9	323	2.52	5	5	ND	1	68	1	4	2	52	2.01	.053	2	19	1.16	11	.18	14	2.21	.07	.06	1	1
M 5484	1	5	6	28	.2	12	13	332	2.96	3	5	ND	1	97	1	2	2	47	1.39	.054	2	19	1.85	3	.15	8	2.49	.01	.03	1	1
M 5485	1	1	21	79	.1	2	3	146	1.19	5	5	ND	1	124	3	2	2	31	2.50	.054	2	6	.33	4	.13	4	1.61	.01	.02	1	3
M 5486	1	3	7	38	.1	7	9	325	2.30	4	5	ND	1	116	1	2	2	39	2.25	.055	2	13	1.32	4	.11	4	2.28	.01	.04	1	1
M 5487	1	1	3	11	.1	3	3	147	1.34	4	5	ND	1	159	1	2	2	36	2.88	.033	2	8	.33	2	.10	9	1.92	.01	.01	1	1
M 5488	1	1	2	9	.2	2	2	134	1.03	3	5	ND	1	120	1	2	2	29	2.57	.089	3	6	.14	19	.15	11	1.48	.01	.06	1	1
M 5489	1	1	2	7	.2	2	1	130	.97	2	5	ND	2	134	1	2	2	30	2.57	.092	3	6	.12	19	.14	11	1.55	.01	.05	1	1
M 5490	1	2	4	4	.1	1	1	101	.96	2	5	ND	1	142	1	2	2	32	2.59	.086	2	5	.04	19	.14	6	1.57	.01	.04	1	2
M 5491	1	1	4	5	.1	1	1	91	.86	2	5	ND	1	131	1	2	2	28	2.29	.039	2	6	.07	17	.09	10	1.47	.01	.04	1	1
M 5492	1	1	5	9	.1	5	3	118	1.13	2	5	ND	1	123	1	2	2	29	2.11	.039	2	8	.24	17	.10	9	1.54	.01	.04	1	1
M 5493	1	1	8	7	.1	1	1	108	.99	2	5	ND	1	136	1	2	2	29	2.22	.024	2	4	.11	13	.08	8	1.55	.01	.03	1	1
M 5494	1	2	3	30	.1	10	6	259	1.93	2	5	ND	1	126	1	2	2	32	2.17	.038	2	12	.80	4	.10	6	2.02	.01	.02	1	1
M 5495	1	2	2	29	.1	10	6	251	1.94	4	5	ND	1	130	1	2	3	36	2.35	.050	2	11	.88	3	.12	6	2.11	.01	.01	1	2
M 5496	1	48	8	69	.2	10	11	656	3.69	3	5	ND	2	36	1	2	2	79	1.85	.050	3	23	1.52	12	.15	5	1.95	.04	.05	1	2
STD C/AU-R	16	57	39	134	7.1	67	28	1092	4.10	39	18	8	36	49	16	16	18	55	.47	.086	38	55	.91	176	.06	32	1.90	.06	.13	14	520

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

DATE RECEIVED: JUL 18 1988
DATE REPORT MAILED: July 19/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: C. Leong D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT V2483 FILE # 88-2442R

SAMPLE#	AU** oz/t
N 5534	.028
N 5535	.024

RECEIVED JUL 2 0 1988

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: JULY 05 1988 DATE REPORT MAILED: July 9/88 ASSAYER. C. Leong ..D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483 File # 88-2442 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
M 5497	1	14	10	48	.2	3	13	519	3.97	2	5	ND	1	59	1	2	2	89	1.28	.066	2	5	1.43	36	.23	11	2.16	.10	.13	1	2
M 5498	1	26	11	131	.2	30	21	1514	5.88	4	5	ND	1	78	1	2	2	132	5.04	.051	2	17	2.50	37	.14	2	3.55	.02	.13	1	1
M 5499	1	40	6	82	.5	4	17	984	4.03	3	5	ND	1	62	1	2	2	46	2.55	.055	2	3	1.33	38	.13	2	2.29	.02	.12	1	1
M 5500	1	98	14	123	.3	9	17	1345	5.30	6	5	ND	1	35	1	2	2	110	3.09	.069	2	17	1.86	40	.19	4	2.91	.04	.18	1	2
M 5501	1	74	11	108	.3	7	20	1277	5.38	7	5	ND	1	45	1	2	2	62	2.19	.061	2	3	1.72	37	.15	3	2.80	.02	.12	1	1
M 5502	1	22	13	104	.5	8	29	1474	5.12	15	5	ND	1	41	1	2	2	65	3.60	.057	3	4	1.69	40	.13	7	2.76	.01	.19	1	4
M 5503	1	30	13	105	.5	8	27	1393	5.41	10	5	ND	1	31	1	2	2	102	3.39	.061	3	6	1.82	46	.19	2	2.82	.02	.20	1	6
M 5504	1	58	7	104	.2	6	16	1523	4.94	3	5	ND	1	48	1	2	3	88	4.43	.064	3	6	1.76	40	.16	2	2.78	.02	.17	1	46
M 5505	1	189	13	123	.9	8	17	1526	5.58	5	5	ND	1	35	1	2	2	87	2.83	.066	3	8	1.99	32	.15	7	3.05	.02	.15	1	1
M 5506	1	229	14	127	.8	8	15	1601	5.51	2	5	ND	1	34	1	2	2	77	3.09	.058	3	7	1.97	25	.14	2	3.07	.01	.13	1	5
M 5507	1	18	8	102	.2	7	15	1490	4.87	2	5	ND	1	37	1	2	2	65	4.18	.059	3	5	1.74	28	.14	2	2.72	.01	.15	1	1
M 5508	1	92	10	112	.3	8	20	1450	5.27	2	5	ND	1	31	1	2	2	73	2.71	.060	3	7	1.83	32	.15	6	2.81	.01	.15	1	33
M 5509	1	22	7	126	.2	24	18	1565	6.04	4	5	ND	1	21	1	2	2	76	2.55	.058	2	72	2.18	38	.11	2	3.34	.01	.16	1	1
M 5510	1	25	12	113	.1	20	21	1480	5.62	7	5	ND	5	29	1	2	2	77	2.93	.049	2	45	1.91	42	.15	2	3.01	.01	.20	1	1
M 5511	1	30	10	107	.5	22	15	1545	4.97	3	5	ND	1	41	1	2	2	67	3.97	.048	3	43	1.79	41	.12	2	2.80	.02	.17	2	1
M 5512	1	30	15	92	.1	24	28	1165	4.81	5	5	ND	1	31	1	2	2	79	2.45	.058	2	45	1.87	37	.16	9	2.65	.04	.13	1	1
M 5513	1	16	10	102	.3	21	17	1262	4.68	10	5	ND	1	30	1	2	2	92	3.21	.054	2	46	1.87	20	.20	11	2.68	.03	.11	1	1
M 5514	1	23	15	84	.4	19	18	1267	4.40	11	5	ND	1	45	1	3	2	91	3.74	.057	3	26	1.67	28	.19	8	2.46	.04	.18	1	24
M 5515	1	11	17	89	.8	15	64	1264	5.82	61	5	ND	1	26	1	2	2	56	3.72	.051	2	10	1.67	18	.11	2	2.66	.01	.13	2	108
M 5516	1	6	13	92	.4	15	31	1323	5.37	48	5	ND	1	29	1	4	2	54	4.90	.048	3	21	1.55	20	.13	2	2.79	.01	.15	1	89
M 5517	1	14	14	109	.2	20	24	1392	5.70	27	5	ND	1	29	1	2	2	80	3.27	.059	3	32	1.93	16	.18	4	3.40	.02	.14	1	21
M 5518	1	10	10	78	.4	18	26	996	4.26	44	5	ND	1	32	1	2	2	67	3.83	.048	2	32	1.31	15	.14	2	3.12	.04	.15	1	2
M 5519	1	6	15	79	.5	22	41	1192	5.07	55	5	ND	1	27	1	2	2	59	3.65	.058	2	35	1.44	19	.13	7	2.57	.02	.14	1	11
M 5520	1	3	7	78	.4	15	30	1409	3.44	28	5	ND	1	46	1	3	2	38	9.08	.037	3	31	1.00	16	.07	2	1.85	.01	.14	1	15
M 5521	1	5	8	52	.5	17	50	1116	4.53	85	5	ND	1	32	1	2	2	34	4.83	.036	2	19	.96	28	.07	2	1.69	.01	.20	2	5
M 5522	1	2	7	57	.2	11	29	1723	3.68	28	5	ND	1	58	1	2	2	41	10.29	.038	2	16	1.10	29	.08	2	1.86	.01	.21	1	1
M 5523	1	5	11	94	.3	20	21	1790	4.89	7	5	ND	1	37	1	2	2	79	6.70	.049	4	35	1.78	30	.13	2	2.79	.01	.22	2	1
M 5524	1	5	9	83	.3	16	20	1444	4.38	7	5	ND	1	33	1	2	2	62	4.81	.055	2	32	1.59	34	.12	2	2.46	.01	.23	1	1
M 5525	1	12	11	71	.1	16	17	960	3.91	3	5	ND	1	37	1	2	3	88	2.01	.060	2	37	1.72	19	.19	2	2.26	.04	.14	2	1
M 5526	1	36	10	83	.4	8	16	1202	4.08	2	5	ND	1	42	1	2	2	87	3.56	.058	3	14	1.62	21	.15	2	2.33	.03	.15	1	3
M 5527	1	7	9	55	.1	24	17	561	3.49	8	5	ND	1	67	1	2	2	62	6.35	.025	2	77	2.43	3	.14	4	3.89	.03	.05	1	26
M 5528	1	4	9	61	.1	19	20	531	4.44	14	5	ND	1	73	1	2	2	120	2.37	.042	2	39	2.53	9	.21	2	3.66	.10	.06	1	1
M 5529	1	14	10	38	.1	18	14	392	3.06	5	5	ND	1	237	1	2	2	64	3.27	.034	2	15	1.41	1	.21	2	2.55	.01	.02	2	10
M 5530	1	143	4	15	.3	11	8	205	2.15	7	5	ND	1	89	1	3	2	56	2.25	.042	2	6	.80	6	.15	5	2.04	.01	.05	1	1
M 5531	1	76	12	39	.4	61	16	590	3.58	29	5	ND	1	45	1	2	2	93	3.59	.061	2	189	2.08	10	.15	7	2.90	.07	.07	1	22
M 5532	1	80	14	38	.4	23	23	670	4.32	34	5	ND	1	33	1	4	2	157	3.23	.048	2	43	3.00	12	.22	2	3.58	.05	.08	3	29
STD C/AU-R	18	58	38	132	6.6	68	31	1097	4.12	41	20	7	37	47	18	17	19	58	.46	.086	39	58	.92	175	.06	34	1.97	.06	.14	14	530

RECEIVED JUL 1 1 1988

MPH CONSULTING LTD. PROJECT-V2483 FILE # 88-2442

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
M 5533	1	1	13	48	.1	22	20	722	4.39	16	5	ND	1	26	1	2	2	161	3.76	.018	2	36	3.23	8	.22	3	3.99	.02	.08	1	14
M 5534	1	215	15	39	.4	24	21	633	4.39	239	5	ND	1	20	1	2	2	152	5.50	.062	3	38	2.18	4	.15	3	3.52	.01	.06	1	830
M 5535	1	52	17	34	.1	16	14	510	3.11	142	5	ND	1	32	1	2	2	109	11.37	.049	2	27	1.44	1	.10	5	3.48	.01	.04	1	665
M 5536	1	4	16	46	.1	23	19	735	4.37	21	5	ND	1	22	1	2	2	142	5.74	.031	2	43	2.56	4	.17	3	3.58	.01	.06	1	37
M 5537	1	5	11	42	.1	21	16	647	3.90	31	5	ND	1	21	1	2	2	145	4.57	.071	2	37	2.35	3	.16	2	3.08	.01	.05	1	33
M 5538	1	38	20	43	.3	23	18	632	4.13	75	5	ND	1	27	1	2	2	133	3.93	.037	2	33	2.54	4	.13	2	3.52	.03	.04	1	101
M 5539	1	8	10	33	.1	23	15	449	3.03	29	5	ND	2	37	1	2	2	81	3.90	.042	2	36	1.86	3	.18	2	2.55	.01	.03	2	32
M 5540	1	330	10	38	.3	29	24	534	3.43	43	5	ND	1	59	1	2	2	94	6.71	.055	2	46	1.88	9	.16	2	2.77	.07	.07	2	43
M 5541	1	30	10	27	.1	22	17	391	3.09	13	5	ND	1	90	1	3	2	75	5.02	.064	2	29	1.77	3	.17	6	2.67	.02	.05	1	2
M 5542	1	20	13	33	.1	12	15	432	3.34	27	5	ND	2	52	1	2	2	78	2.84	.048	2	22	1.57	13	.15	11	2.91	.07	.08	1	16
M 5543	1	68	13	42	.1	15	18	547	4.16	26	5	ND	2	29	1	2	2	100	1.48	.054	2	25	1.96	11	.18	3	3.04	.03	.10	1	29
M 5544	1	47	4	25	.1	12	12	304	2.60	3	5	ND	2	53	1	2	2	54	3.51	.050	3	21	1.36	6	.15	6	2.33	.03	.05	1	3
M 5545	1	7	3	17	.1	13	12	256	2.53	2	5	ND	1	99	1	2	2	39	1.55	.041	2	17	1.49	2	.15	7	2.28	.01	.01	1	1
M 5546	1	131	6	26	.1	15	15	271	2.83	5	5	ND	1	37	1	2	2	56	1.14	.053	2	21	1.54	9	.17	6	2.07	.06	.06	1	2
M 5547	1	52	7	29	.1	14	14	322	2.90	3	5	ND	2	49	1	2	2	75	1.28	.056	3	23	1.37	25	.21	4	2.14	.11	.12	1	1
M 5548	1	17	8	21	.1	12	11	302	3.00	4	5	ND	2	122	1	2	2	55	1.86	.052	3	21	1.32	10	.16	6	2.47	.02	.04	1	1
M 5549	1	19	8	22	.1	13	13	290	2.93	5	5	ND	1	131	1	2	2	53	1.97	.046	2	18	1.41	10	.14	7	2.74	.04	.03	1	2
M 5550	1	146	9	32	.1	17	19	387	3.75	3	5	ND	1	90	1	2	2	76	1.76	.060	3	28	2.05	7	.18	2	3.29	.03	.05	1	1
M 5551	1	13	10	38	.1	18	17	406	3.60	4	5	ND	2	117	1	2	2	70	1.61	.060	3	29	2.01	11	.16	5	2.92	.04	.04	1	1
STD C/AU-R	18	62	41	133	6.7	70	29	1163	4.15	41	16	8	37	46	18	17	18	57	.46	.082	39	57	.93	176	.06	33	1.97	.06	.14	12	495

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: JULY 14 1988 DATE REPORT MAILED: July 19/88 ASSAYER. C. Leong ..D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483 File # 88-2683 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
N 5552	1	42	7	46	.2	10	7	485	2.97	4	5	ND	1	30	1	2	2	57	2.42	.050	2	23	1.45	8	.19	14	2.16	.03	.05	1	12
N 5553	1	19	5	46	.1	10	8	414	2.92	3	5	ND	1	49	1	2	2	49	2.37	.051	2	20	1.45	5	.19	11	2.21	.02	.04	1	4
N 5554	1	5	3	38	.1	10	7	332	2.51	3	5	ND	1	73	1	2	2	43	1.59	.052	2	22	1.31	4	.16	4	1.87	.01	.02	1	1
N 5555	1	2	11	44	.2	9	10	354	2.50	6	5	ND	2	63	1	2	2	50	1.26	.051	2	21	1.57	9	.16	13	1.87	.05	.07	1	13
N 5556	1	5	4	51	.1	10	10	386	2.77	8	5	ND	1	45	1	2	2	54	1.26	.053	2	19	1.84	5	.17	5	1.86	.03	.03	1	7
N 5557	1	3	4	22	.1	7	7	241	1.92	4	5	ND	1	118	1	2	2	30	2.21	.031	2	16	.94	1	.12	2	1.75	.01	.01	1	2
N 5558	1	3	4	53	.1	13	12	392	3.16	11	5	ND	3	66	1	2	2	61	1.27	.051	2	20	2.27	5	.20	9	2.35	.02	.03	1	3
N 5559	4	3	10	23	.1	6	6	239	1.98	5	5	ND	1	109	1	3	2	37	1.83	.029	2	17	.99	1	.14	9	1.80	.01	.01	1	1
N 5560	1	3	5	15	.1	4	3	161	1.23	2	5	ND	1	58	1	3	2	23	1.28	.014	2	10	.54	2	.07	16	1.12	.01	.01	1	1
N 5561	1	2	8	32	.1	10	7	289	2.28	5	5	ND	1	151	1	4	2	42	2.86	.030	2	18	1.18	1	.16	19	2.23	.01	.01	2	5
N 5562	1	3	6	22	.1	10	6	253	2.16	2	5	ND	1	124	1	2	2	31	2.08	.045	2	18	1.14	1	.16	16	2.11	.01	.01	1	2
N 5563	1	3	10	45	.1	26	14	414	3.42	2	5	ND	1	92	1	2	2	49	1.50	.065	2	33	2.33	3	.16	10	2.96	.04	.02	1	1
N 5564	1	55	3	45	.1	6	8	417	2.81	2	5	ND	1	57	1	3	2	68	2.13	.050	2	16	1.10	13	.14	2	2.88	.19	.06	2	4
N 5565	1	49	8	50	.2	17	15	517	3.85	10	5	ND	1	66	1	2	2	42	1.08	.063	2	27	2.21	1	.15	17	2.70	.01	.01	1	2
N 5566	1	5	2	51	.1	16	22	535	4.32	13	5	ND	1	68	1	2	2	65	1.26	.074	2	29	2.82	6	.19	14	3.31	.04	.01	2	2
N 5567	1	5	11	38	.1	16	16	433	3.43	4	5	ND	1	69	1	2	2	49	1.26	.052	2	24	2.14	10	.16	12	2.91	.04	.02	1	1
N 5568	1	8	2	19	.1	19	7	281	2.15	4	5	ND	1	99	1	3	2	33	1.89	.050	2	32	.72	18	.15	7	1.68	.02	.02	1	1
N 5569	1	388	8	95	.8	7	32	858	6.69	37	5	ND	1	17	1	2	2	101	1.43	.083	2	19	2.07	11	.18	2	3.06	.03	.05	1	55
N 5570	1	88	8	57	.2	6	12	632	4.13	5	5	ND	6	25	1	2	2	72	1.15	.064	3	18	1.31	27	.17	13	2.10	.06	.14	1	5
N 5571	1	117	2	74	.5	7	22	763	5.88	4	5	ND	2	24	1	2	2	97	.83	.067	3	21	1.67	21	.21	6	2.43	.06	.08	1	3
N 5572	1	107	11	62	.3	7	22	666	5.10	12	5	ND	1	27	1	2	2	85	.98	.069	2	19	1.53	25	.18	2	2.46	.08	.11	1	5
N 5573	1	294	3	74	.5	6	17	740	5.29	12	5	ND	4	61	1	2	2	81	1.35	.067	2	20	1.59	15	.17	2	3.51	.14	.04	1	8
N 5574	1	102	8	72	.5	8	24	824	5.82	123	5	ND	3	39	1	2	2	98	1.65	.067	2	21	1.71	18	.20	3	2.67	.03	.09	1	11
N 5575	2	91	5	64	.3	7	20	732	5.09	74	5	ND	11	36	1	2	3	81	1.42	.049	3	19	1.48	15	.17	5	2.45	.02	.07	1	8
N 5576	1	203	13	148	.9	7	27	799	5.69	70	5	ND	5	22	1	2	2	89	1.93	.066	2	20	1.61	13	.18	4	2.88	.02	.07	1	12
N 5577	1	397	20	120	2.3	7	45	930	7.35	143	5	ND	2	24	1	2	19	83	1.35	.068	2	20	1.74	28	.13	5	2.96	.02	.11	1	37
N 5578	1	65	3	54	.3	7	12	557	4.03	7	5	ND	1	21	1	2	2	85	1.15	.070	2	20	1.38	31	.19	3	2.07	.07	.11	2	3
N 5579	1	459	10	107	1.0	10	26	1077	7.10	745	5	ND	1	16	1	2	3	97	1.25	.075	2	28	2.17	34	.12	9	3.31	.02	.09	1	28
N 5580	1	565	13	208	1.2	22	57	2133	14.36	114	5	ND	1	33	1	2	3	141	2.41	.072	2	93	3.61	13	.11	8	5.57	.01	.07	1	26
N 5581	1	116	8	68	.2	9	19	771	5.66	50	5	ND	1	23	1	2	2	107	1.23	.078	2	25	1.89	18	.18	25	2.72	.05	.08	3	10
N 5582	1	44	3	40	.1	7	11	391	3.15	3	5	ND	1	35	1	2	2	73	1.56	.075	2	15	1.28	48	.24	4	2.21	.10	.19	2	1
N 5583	1	920	23	146	2.5	110	33	343	2.59	61	5	ND	1	52	1	2	2	36	1.30	.028	2	81	1.19	9	.11	13	2.03	.12	.03	1	2
N 5584	1	42	9	39	.2	27	10	272	1.46	5	5	ND	1	46	1	4	2	31	1.59	.025	3	61	.70	24	.10	10	1.76	.09	.10	2	1
N 5585	1	145	8	56	.8	34	26	546	3.28	21	5	ND	1	32	1	2	2	55	1.07	.026	2	111	2.20	5	.14	7	2.55	.10	.03	1	1
N 5586	1	431	10	31	1.2	65	27	343	2.28	28	5	ND	1	17	1	3	2	38	.64	.028	2	91	1.22	6	.11	4	1.49	.05	.02	3	1
N 5587	1	6	2	14	.1	14	11	148	1.09	3	5	ND	1	37	1	3	2	30	1.23	.052	2	44	.48	[illegible]	.10	11	1.04	.01	.01	1	2
STD C/AU-R	18	57	37	130	6.5	67	27	1046	3.96	39	19	7	36	48	17	17	19	55	.48	.091	37	56	.92	174	.06	37	1.36	.06	.13	12	500

RECEIVED

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
N 5588	1	21	5	7	.1	7	7	144	1.08	3	5	ND	1	144	1	2	2	39	1.84	.050	2	38	.21	2	.14	9	1.30	.01	.01	1	2
N 5589	1	74	7	25	.2	37	11	295	2.32	3	5	ND	1	44	1	2	2	63	1.09	.025	2	109	1.06	5	.18	4	1.55	.03	.02	1	1
N 5590	1	115	13	107	.4	45	18	523	3.15	7	5	ND	1	66	1	2	4	76	1.90	.052	2	87	1.59	14	.17	7	2.77	.16	.07	1	1
N 5591	1	69	20	143	.3	38	25	545	3.27	18	5	ND	1	15	1	2	3	118	.97	.071	2	106	1.42	7	.25	5	1.63	.06	.04	1	2
N 5592	1	28	7	43	.1	23	26	474	2.70	15	5	ND	1	30	1	3	3	105	1.15	.057	2	85	1.14	8	.25	4	1.55	.07	.03	1	1
N 5593	1	37	5	51	.1	32	26	529	3.52	14	5	ND	1	46	1	2	2	115	1.52	.066	2	90	1.44	12	.23	7	2.15	.12	.04	1	1
N 5594	1	125	5	30	.4	13	23	444	5.59	13	5	ND	1	10	1	2	2	171	1.34	.101	2	25	.83	10	.32	6	1.14	.07	.06	1	1
N 5595	1	108	9	38	.4	20	24	459	6.03	17	5	ND	1	8	1	2	2	217	1.29	.109	3	54	.72	10	.33	11	.95	.06	.05	1	2
N 5596	1	35	14	35	.2	9	26	459	3.23	14	5	ND	1	16	1	2	2	104	1.41	.100	2	22	.95	9	.33	10	1.28	.05	.05	1	1
N 5597	1	47	6	25	.1	7	12	334	3.21	5	5	ND	1	61	1	2	2	111	1.79	.103	2	20	.55	25	.31	9	1.50	.10	.06	1	1
N 5598	1	91	8	37	.4	12	21	527	4.52	14	5	ND	1	13	1	2	2	150	1.27	.098	2	28	1.05	11	.31	3	1.39	.07	.06	1	1
N 5599	1	66	8	43	.3	15	12	444	3.49	33	5	ND	1	13	1	2	2	122	1.32	.102	2	40	.61	6	.32	4	.92	.05	.03	1	2
N 5600	1	98	3	38	.4	22	17	571	3.84	41	5	ND	1	15	1	2	2	122	1.49	.100	2	53	.95	6	.31	3	1.31	.06	.04	1	1
N 5601	1	48	6	35	.2	23	11	489	4.25	4	5	ND	1	39	1	2	2	142	1.62	.074	2	77	1.06	26	.25	2	1.88	.11	.06	1	1
N 5602	1	26	4	33	.1	17	10	519	6.78	5	5	ND	1	8	1	2	2	256	1.11	.107	3	57	.78	14	.32	2	1.00	.05	.04	1	1
N 5603	1	12	11	31	.1	15	14	433	4.36	12	5	ND	1	13	1	2	2	178	1.36	.106	2	46	.57	10	.35	6	.94	.05	.03	1	1
N 5604	1	34	6	28	.2	17	6	350	4.41	8	5	ND	1	24	1	3	2	184	1.42	.107	2	47	.51	5	.39	6	1.07	.04	.03	1	1
N 5605	1	49	5	33	.3	16	16	415	6.95	22	5	ND	1	12	1	3	2	243	1.15	.116	2	57	.79	14	.29	6	1.18	.06	.05	2	2
N 5606	1	16	2	34	.1	13	11	430	5.88	10	5	ND	1	11	1	2	2	208	1.18	.101	2	45	.80	11	.28	3	1.22	.05	.05	1	2
N 5607	1	37	8	86	.4	16	16	472	4.32	38	5	ND	1	12	1	2	2	167	1.33	.109	2	43	.73	10	.31	2	1.07	.06	.04	1	1
N 5608	1	18	18	56	.3	11	11	753	4.35	7	5	ND	1	17	1	2	2	120	1.14	.100	2	17	1.99	7	.24	7	2.27	.05	.04	1	1
N 5609	1	7	5	39	.3	5	4	498	2.64	2	5	ND	1	54	1	2	2	76	2.42	.077	2	10	1.06	11	.20	15	1.76	.04	.03	1	1
N 5610	1	18	120	194	7.0	113	22	780	3.93	91	5	ND	1	26	1	2	2	73	1.68	.045	2	37	2.02	3	.18	9	2.15	.02	.01	1	1
STD C/AU-R	17	58	40	131	6.6	68	28	1057	4.00	41	22	8	37	47	16	17	19	56	.48	.093	39	56	.92	173	.07	35	1.96	.06	.13	12	495

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

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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: JUL 16 1988 DATE REPORT MAILED: July 21/88 ASSAYER. C. Leong ..D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT V2483 File # 88-2723 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
N 5611	1	11	10	53	.2	56	19	349	1.87	20	5	ND	1	24	1	2	2	75	1.63	.093	2	16	.80	12	.46	6	.93	.01	.06	3	1
N 5612	1	21	10	100	.1	11	14	337	2.13	7	5	ND	1	37	1	2	2	51	1.29	.086	2	6	.75	9	.23	11	1.15	.01	.03	1	1
N 5613	1	34	17	176	.1	15	27	635	3.89	7	5	ND	1	73	1	2	2	123	2.01	.072	3	9	1.45	4	.26	17	2.55	.01	.02	1	1
N 5614	1	12	10	67	.1	11	8	527	2.97	7	5	ND	1	73	1	2	2	89	2.20	.081	2	6	1.28	13	.19	11	2.15	.05	.04	1	1
N 5615	1	7	6	39	.1	11	5	493	2.80	2	5	ND	1	37	1	2	2	92	1.66	.070	2	35	1.27	14	.25	7	1.70	.11	.07	1	2
N 5616	1	23	10	34	.1	9	5	442	2.38	3	5	ND	1	58	1	2	2	33	1.64	.059	2	10	1.10	27	.16	14	1.53	.14	.08	1	1
N 5617	1	112	20	62	.7	21	26	426	3.17	53	5	ND	1	28	1	2	2	96	1.52	.081	2	8	.92	15	.29	16	1.38	.11	.07	1	2
N 5618	1	61	15	38	.5	18	25	603	4.75	47	5	ND	1	15	1	2	2	158	1.59	.111	4	10	1.05	11	.41	11	1.47	.08	.06	2	1
N 5619	1	51	11	37	.2	12	17	581	6.02	19	5	ND	1	10	1	2	2	197	1.38	.113	3	10	.90	8	.32	13	1.28	.06	.06	2	1
N 5620	1	125	10	32	.9	14	34	490	4.98	74	5	ND	1	12	1	2	2	135	1.73	.111	3	5	.79	11	.37	13	1.12	.08	.07	2	1
N 5621	1	90	12	32	.6	14	27	504	4.86	62	5	ND	1	40	1	2	2	139	1.64	.105	3	7	.78	16	.34	19	1.35	.08	.08	2	2
N 5622	1	86	31	97	.3	44	19	668	5.03	35	5	ND	1	22	1	2	2	123	1.58	.051	3	96	1.81	35	.35	8	2.37	.08	.11	1	1
N 5623	1	55	13	68	.2	62	15	598	4.49	24	5	ND	1	24	1	2	2	109	1.07	.048	3	143	2.02	30	.35	9	2.30	.09	.11	1	3
N 5624	1	24	16	76	.2	28	11	538	2.98	29	5	ND	1	14	1	2	2	90	1.43	.040	2	46	1.19	12	.22	13	1.41	.12	.07	1	2
N 5625	1	92	9	28	.3	10	3	354	1.45	6	5	ND	4	41	1	2	2	35	2.53	.076	3	2	.57	15	.13	25	2.14	.05	.07	1	1
N 5626	1	11	7	19	.1	10	8	354	1.49	2	5	ND	1	98	1	2	2	53	3.16	.031	2	6	.41	8	.21	12	1.42	.05	.04	1	1
N 5627	1	186	9	77	.5	14	17	434	3.47	59	5	ND	1	31	1	2	2	68	1.58	.070	2	7	1.01	15	.23	15	1.40	.11	.08	1	1
N 5628	1	2	7	21	.1	13	9	348	1.50	223	5	ND	1	101	1	2	2	31	2.52	.025	2	8	.41	5	.12	8	1.52	.02	.01	1	1
N 5629	2	9	13	47	.2	11	9	995	2.55	204	5	ND	1	105	1	2	2	29	5.45	.034	2	8	.69	2	.09	5	1.77	.01	.04	2	1
N 5630	5	77	27	137	1.1	7	3	1928	5.81	97	5	ND	2	50	1	2	2	26	9.63	.125	3	7	.46	2	.03	19	1.28	.02	.02	9	1
N 5631	1	526	9	114	2.8	60	2	1176	2.27	68	5	ND	1	55	1	2	2	12	21.55	.137	2	6	.17	1	.03	12	.61	.01	.01	3	7
N 5632	5	9	8	59	.7	6	3	641	1.13	61	5	ND	1	84	1	2	2	35	21.29	.112	4	12	.13	1	.05	11	.81	.01	.01	2	3
N 5633	5	26	6	59	.3	16	11	933	1.37	642	5	ND	1	100	1	3	2	80	8.65	.095	3	20	.15	1	.08	14	.85	.01	.02	1	1
N 5634	3	481	66	1467	6.5	43	22	663	2.49	544	5	ND	1	130	7	5	9	37	3.27	.076	3	34	.31	2	.13	25	1.41	.02	.01	1	1
N 5635	7	138	27	522	2.6	12	14	587	1.47	556	5	ND	1	84	3	2	4	52	2.83	.075	2	12	.24	3	.08	46	1.11	.03	.01	2	1
N 5636	5	22	8	199	.4	11	1	150	.17	7	5	ND	1	240	10	2	2	98	28.30	.074	3	13	.07	4	.01	731	.42	.02	.01	2	1
N 5637	3	13	2	62	.3	7	1	123	.14	5	5	ND	1	285	3	2	2	30	29.49	.058	2	7	.05	1	.01	72	.26	.01	.01	2	2
N 5638	11	14	4	205	.4	17	1	154	.23	27	5	ND	1	314	3	2	2	72	32.95	.035	3	5	.06	2	.01	1051	.19	.03	.01	1	1
N 5639	7	134	19	27	1.7	9	3	1353	5.91	132	5	ND	1	34	1	2	2	154	7.82	.054	2	21	.42	3	.11	20	.87	.02	.01	21	1
N 5640	6	69	10	36	.9	4	2	1319	3.52	64	5	ND	2	60	1	2	2	75	22.30	.062	3	14	.14	1	.02	29	.68	.01	.02	7	1
N 5641	1	315	14	193	4.1	11	13	2567	8.41	412	5	ND	1	19	2	2	3	29	10.70	.097	3	7	.22	7	.03	20	1.16	.02	.01	34	21
N 5642	1	12	44	38	3.4	51	332	1722	6.05	13324	5	ND	1	30	1	4	21	17	7.39	.064	3	4	.23	3	.02	69	.78	.01	.01	23	623
N 5643	1	6	44	33	3.7	54	415	1539	6.43	25638	5	ND	2	30	1	5	42	13	9.89	.112	2	5	.17	2	.01	47	.51	.03	.01	15	1272
N 5644	1	1	6	15	.1	7	33	604	1.54	1366	5	ND	1	100	1	2	2	16	4.72	.157	5	2	.17	1	.10	23	1.31	.02	.01	2	45
N 5645	1	3	5	13	.1	3	4	493	1.21	171	5	ND	1	63	1	6	2	17	2.68	.103	4	4	.40	1	.06	56	.93	.03	.01	1	14
N 5646	1	1	7	13	.2	8	31	229	1.20	536	5	ND	1	116	1	2	2	21	3.17	.146	6	2	.14	1	.13	14	1.32	.01	.02	1	3
STD C/AU-R	17	57	42	132	6.6	68	25	1055	4.04	39	23	7	35	47	17	17	19	56	.49	.068	35	56	.91	172	.06	39	1.87	.06	.14	11	475

RECEIVED JUL 25 1988

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
N 5647	2	19	9	166	.3	7	8	417	1.42	199	5	ND	2	58	1	2	2	20	2.66	.159	5	8	.27	3	.06	10	.94	.01	.01	1	5
N 5648	2	6	5	13	.1	7	7	231	1.02	374	5	ND	1	77	1	2	2	20	1.82	.078	3	7	.15	2	.03	10	.90	.01	.01	1	1
N 5649	1	1	3	8	.1	6	5	207	.93	363	5	ND	2	88	1	2	2	25	2.44	.091	2	7	.10	1	.11	32	1.00	.01	.01	1	3
N 5650	2	1	2	5	.2	4	4	170	.91	299	5	ND	2	65	1	2	3	17	1.64	.085	3	7	.07	1	.06	8	.31	.01	.01	1	1
N 5651	1	10	5	39	.1	12	5	1279	2.13	267	7	ND	2	41	1	2	2	16	4.11	.108	4	10	.17	25	.06	42	.93	.01	.04	2	2
N 5652	3	21	8	71	.3	25	13	1423	2.60	850	7	ND	1	43	1	2	3	21	5.15	.157	7	16	.21	22	.05	10	1.09	.02	.02	1	6
N 5653	3	15	3	11	.1	12	8	422	1.19	454	5	ND	2	59	1	2	2	15	2.46	.055	5	12	.06	8	.05	9	.84	.01	.01	1	3

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: JUL 21 1988 DATE REPORT MAILED: July 28/88 ASSAYER. C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT V2483 File # 88-2886

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
M 5654	2	13	5	21	.1	11	5	2038	3.93	55	5	ND	1	34	1	2	2	17	7.22	.083	6	12	.15	47	.04	20	.83	.01	.07	11	1
M 5655	4	10	8	34	.1	30	13	888	1.69	451	5	ND	1	52	1	3	2	14	2.81	.093	6	5	.11	26	.05	10	.73	.01	.04	1	10
M 5656	3	20	9	30	.1	25	7	1324	3.17	137	5	ND	1	26	1	2	2	19	5.26	.075	5	11	.13	26	.06	17	1.09	.01	.04	3	1
M 5657	11	161	15	95	.7	43	7	961	2.13	509	5	ND	1	41	1	3	2	23	3.94	.269	8	9	.07	26	.06	14	.91	.01	.03	1	2
M 5658	8	127	9	75	1.0	34	9	1147	2.30	962	5	ND	1	38	1	2	2	26	3.92	.200	8	9	.14	30	.05	43	.97	.01	.05	1	1
M 5659	9	255	7	98	1.3	29	7	930	1.86	122	5	ND	1	55	1	2	2	30	4.68	.152	5	12	.28	13	.06	78	.92	.01	.03	1	2
M 5660	1	7	11	14	.1	16	31	596	1.27	857	5	ND	1	54	1	4	2	28	2.53	.022	2	10	.29	2	.16	89	1.16	.01	.01	1	1
M 5661	1	6	16	56	.2	10	14	948	1.90	101	5	ND	1	48	1	2	2	42	3.87	.024	2	17	.65	2	.19	91	1.26	.01	.01	1	1
M 5662	5	62	5	33	.4	21	3	1213	1.92	128	5	ND	1	24	1	5	2	34	4.06	.222	6	15	.21	14	.05	1342	.98	.01	.02	3	1
M 5663	3	66	12	68	.3	15	3	2068	3.48	107	5	ND	1	44	1	2	2	27	7.94	.149	6	24	.48	14	.04	47	1.27	.01	.06	3	1
M 5664	3	56	7	33	.5	15	4	751	1.51	45	5	ND	1	37	1	4	2	17	4.06	.072	6	9	.13	6	.06	63	.80	.01	.02	1	1
M 5665	3	61	5	18	.3	20	8	896	1.54	83	5	ND	1	25	1	2	2	15	5.41	.131	6	11	.04	20	.03	8	.56	.01	.04	2	1
M 5666	5	359	10	38	1.4	28	6	812	1.73	61	5	ND	1	22	1	2	2	25	3.87	.092	5	12	.03	19	.05	7	.62	.01	.04	4	2
M 5667	3	74	3	25	.6	22	5	942	1.62	60	5	ND	1	27	1	2	2	11	5.23	.071	6	8	.06	14	.03	49	.53	.01	.04	2	1
M 5668	3	62	3	27	.4	16	3	604	1.50	12	5	ND	1	30	1	2	2	11	3.07	.097	7	8	.03	11	.04	13	.55	.01	.02	2	1
M 5669	2	316	16	77	1.0	27	47	461	7.85	209	5	ND	2	177	1	2	3	16	1.50	.086	4	7	.28	27	.05	17	1.39	.09	.05	1	1
M 5670	3	78	2	35	.5	11	6	590	2.02	9	5	ND	2	33	1	2	2	14	3.54	.090	7	10	.06	11	.06	14	.84	.01	.02	2	1
M 5671	5	101	2	39	.8	16	5	587	1.76	13	5	ND	1	28	1	3	2	11	3.53	.091	10	6	.09	18	.05	24	.62	.01	.04	4	1
M 5672	4	232	7	60	1.2	22	14	563	3.22	26	5	ND	2	38	1	3	2	19	3.12	.089	6	10	.21	12	.08	23	.90	.02	.04	2	1
STD C/AU-R	19	60	40	132	7.2	72	30	1049	4.18	41	17	8	37	47	17	17	17	60	.48	.092	40	60	.93	179	.08	31	2.03	.06	.16	13	475

RECEIVED JUL 2 9 1988

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: JUL 26 1988 DATE REPORT MAILED: Aug 1/88 ASSAYER C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT V2483 File # 88-3006 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
M 5673	1	78	18	277	.3	8	16	392	3.75	62	5	ND	1	268	1	2	3	58	1.57	.032	2	9	1.23	50	.15	6	2.98	.23	.15	1	1
M 5674	2	257	17	118	.6	19	22	235	5.15	24	5	ND	1	462	1	3	5	53	2.15	.063	2	9	.70	35	.10	6	3.62	.35	.06	1	1
M 5675	3	156	16	299	.7	25	20	329	3.19	33	5	ND	1	153	1	2	2	24	2.19	.103	4	11	.47	20	.10	33	1.42	.13	.05	1	1
M 5676	1	132	24	103	.6	13	12	451	2.72	83	5	ND	1	359	1	3	4	29	2.67	.079	3	8	.48	15	.08	32	2.72	.28	.03	1	4
M 5677	1	45	13	645	.1	4	7	150	1.31	10	5	ND	1	463	2	2	2	22	2.02	.043	2	4	.25	16	.10	8	2.74	.33	.03	1	1
M 5678	5	169	3	23	.5	37	21	661	4.66	24	5	ND	1	68	1	2	2	23	3.72	.119	7	11	.20	16	.05	5	1.07	.05	.04	1	5
M 5679	5	103	25	168	.4	36	19	1038	4.90	266	5	ND	1	29	1	2	2	20	6.67	.070	5	16	.33	12	.04	26	.79	.01	.04	1	54
M 5680	7	81	11	26	.3	32	16	713	2.84	31	6	ND	1	36	1	2	2	15	5.47	.103	8	19	.31	8	.04	22	.59	.01	.03	1	10
M 5682	4	48	10	72	.3	16	4	1716	2.53	11	5	ND	1	44	1	2	2	28	5.53	.119	8	23	.60	8	.07	235	1.18	.01	.03	2	12
M 5683	4	75	7	48	.3	29	8	2958	3.60	8	6	ND	1	25	1	2	2	24	5.24	.099	3	21	.74	1	.06	551	1.10	.01	.01	2	4
M 5684	2	45	7	77	.2	7	9	1703	2.60	15	5	ND	1	25	1	2	4	37	3.38	.117	4	12	.76	14	.10	256	1.15	.02	.04	1	2
M 5685	1	83	3	112	.2	5	47	623	2.47	76	5	ND	1	36	1	2	2	28	2.77	.090	2	10	.74	11	.12	42	1.32	.02	.03	1	28
M 5686	1	55	14	67	.3	11	13	460	2.61	19	5	ND	1	46	1	2	2	40	1.68	.090	3	12	.70	31	.11	22	1.35	.07	.05	1	1
M 5687	2	123	16	54	.6	34	35	437	3.42	79	5	ND	1	25	1	2	2	46	1.93	.055	3	27	.81	15	.19	9	1.19	.03	.03	1	13
M 5688	1	60	7	49	.4	12	71	539	2.85	257	5	ND	1	30	1	2	2	71	2.38	.055	2	17	.86	28	.19	4	1.30	.04	.07	1	22
M 5689	1	14	6	70	.2	14	19	934	3.96	30	5	ND	1	105	1	3	2	139	3.29	.069	2	22	1.74	27	.20	12	2.78	.12	.06	2	3
M 5690	1	180	12	197	1.0	34	149	1530	5.17	319	5	ND	1	54	3	2	2	109	4.43	.064	2	30	1.75	19	.09	5	2.53	.06	.08	2	101
M 5691	1	76	4	174	.3	4	8	431	1.98	9	5	ND	10	24	1	2	2	59	2.72	.033	2	10	.82	19	.17	5	1.67	.02	.07	1	18
M 5692	1	122	10	208	.5	9	10	625	3.10	21	5	ND	1	53	1	2	2	80	3.34	.042	2	15	1.24	16	.21	4	2.44	.05	.06	1	35
M 5693	1	108	18	240	.4	23	9	405	1.99	31	5	ND	1	111	1	3	2	39	2.31	.067	2	30	.71	2	.19	5	1.93	.01	.01	1	2
M 5694	1	38	11	945	.2	21	11	801	3.66	19	5	ND	1	38	5	2	2	91	4.17	.072	2	37	2.03	7	.19	6	2.22	.02	.03	1	10
M 5695	1	224	10	92	.6	12	7	257	1.78	13	5	ND	1	129	1	2	2	32	2.63	.075	2	11	.63	2	.16	3	1.68	.01	.01	1	4
M 5696	1	44	7	98	.1	16	22	753	3.64	27	5	ND	1	34	1	2	2	81	3.16	.089	3	38	1.66	17	.21	4	1.92	.01	.08	1	5
M 5697	3	185	8	53	.5	53	25	400	2.84	13	5	ND	1	92	1	2	2	52	1.70	.062	2	71	1.39	3	.16	7	2.30	.01	.02	1	1
M 5698	1	130	9	27	.5	34	14	247	1.70	14	5	ND	3	11	1	2	2	29	.57	.011	3	54	.81	15	.12	4	1.04	.05	.05	1	1
M 5699	1	50	11	58	.4	28	24	536	3.94	34	6	ND	1	9	1	2	2	137	.72	.059	2	103	1.40	5	.22	6	1.66	.03	.03	1	2
M 5700	1	13	3	23	.1	3	10	328	2.56	4	5	ND	1	11	1	2	2	86	1.16	.072	2	13	.67	9	.22	2	.90	.06	.04	1	1
M 5701	1	40	7	28	.1	13	39	382	2.49	31	5	ND	1	7	1	2	2	93	1.15	.079	2	17	.74	5	.26	4	.89	.06	.05	1	1
M 5702	1	15	8	89	.1	15	7	762	3.41	7	5	ND	1	31	1	2	2	75	3.17	.075	3	26	1.78	12	.20	2	1.99	.02	.05	1	4
M 5703	1	42	17	228	.2	4	5	663	2.48	8	5	ND	3	21	1	2	2	62	.73	.059	5	9	1.28	10	.19	6	1.47	.03	.03	1	1
M 5704	1	2	5	16	.1	3	5	273	1.03	8	5	ND	1	28	1	2	2	17	1.16	.100	3	4	.30	8	.14	7	.88	.03	.03	1	1
M 5705	4	34	8	28	.1	3	9	350	1.14	534	5	ND	1	56	1	2	2	14	2.40	.097	3	6	.21	9	.18	15	1.26	.01	.02	1	7
M 5706	2	35	3	77	.1	12	3	261	1.34	5	5	ND	1	213	1	2	2	15	32.82	.140	5	8	.20	7	.02	6	.59	.01	.04	4	1
M 5707	10	24	8	218	.1	23	3	195	.93	9	5	ND	1	205	8	2	2	164	28.77	.136	5	31	.48	5	.02	10	.76	.01	.01	3	1
M 5708	6	8	5	39	.1	10	3	314	.64	4	5	ND	1	204	1	2	2	56	32.56	.089	3	20	.29	3	.01	6	.96	.02	.03	3	1
M 5709	10	7	4	36	.1	16	4	195	.46	5	5	ND	1	133	1	2	2	65	20.61	.159	6	20	.06	2	.02	2	1.21	.02	.01	2	2
STD C/AU-R	16	59	39	132	6.6	63	29	1067	4.25	42	24	7	37	47	18	20	17	58	.49	.095	41	57	.96	176	.07	32	2.05	.06	.14	11	475

RECEIVED AUG - 3 1988

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
N 5710	7	17	4	51	.1	16	4	285	.64	15	5	ND	1	154	3	2	2	81	24.69	.052	2	12	.23	4	.01	8	.83	.02	.06	1	1
N 5711	6	13	5	98	.1	8	1	67	.08	7	5	ND	1	325	4	2	2	18	28.37	.050	2	3	.04	2	.01	311	.25	.01	.01	1	1
N 5712	3	69	12	1001	.3	5	4	215	.48	15	6	ND	1	60	5	2	2	10	11.75	.128	4	3	.12	2	.03	362	.44	.01	.01	1	1
N 5713	8	157	13	326	.8	14	4	232	.69	15	6	ND	1	133	4	2	2	43	15.94	.155	5	15	.55	5	.01	38	.67	.01	.01	1	1
N 5714	2	22	3	88	.1	2	1	108	.11	4	5	ND	1	240	1	2	2	3	30.74	.049	3	1	.03	6	.01	135	.29	.01	.01	1	1
N 5715	3	16	4	44	.1	9	4	353	.72	164	7	ND	1	103	1	2	2	8	12.61	.212	7	5	.07	3	.03	82	.53	.01	.01	3	2
N 5716	3	4	3	11	.1	2	2	929	2.23	103	5	ND	1	20	1	2	2	14	4.76	.301	6	11	.10	6	.04	14	.72	.01	.01	7	1
N 5717	1	2	4	8	.1	5	15	510	1.32	1400	5	ND	1	60	1	2	2	13	2.91	.151	5	6	.10	2	.06	9	.97	.01	.01	1	28
N 5718	2	226	30	313	1.3	4	13	439	1.39	1000	5	ND	1	52	1	2	3	39	1.69	.070	2	9	.41	1	.15	6	.95	.01	.01	1	1
N 5719	1	5	3	12	.1	1	1	315	.73	66	5	ND	1	60	1	2	2	15	1.75	.091	3	11	.08	1	.07	27	.83	.01	.01	1	1
N 5720	1	5	2	14	.1	4	1	770	1.12	25	5	ND	1	39	1	3	2	16	3.48	.125	6	11	.07	4	.07	37	.73	.01	.01	1	1
N 5721	1	12	3	10	.1	18	7	864	1.79	92	5	ND	1	40	1	2	2	27	9.72	.438	10	23	.06	3	.06	13	1.25	.01	.01	3	1
N 5722	4	4	6	40	.1	33	23	817	2.04	2802	5	ND	2	58	1	2	2	17	4.60	.234	8	8	.11	4	.05	8	1.15	.01	.01	2	3
N 5723	9	9	4	27	.1	14	5	934	1.45	630	5	ND	1	45	1	2	2	33	4.73	.602	8	10	.08	7	.05	4	1.05	.01	.02	1	1
N 5724	2	712	11	1321	2.7	46	8	612	1.23	825	5	ND	1	61	8	2	2	12	7.46	.146	4	7	.17	3	.05	11	.78	.01	.01	1	2
N 5725	1	183	16	597	.6	25	4	513	1.76	35	5	ND	1	57	2	2	2	28	1.32	.036	2	21	.58	20	.10	13	1.19	.05	.03	1	1
N 5726	11	398	36	363	1.8	31	5	426	1.90	96	5	ND	1	37	1	2	3	22	1.10	.096	4	10	.43	22	.08	6	.78	.04	.04	1	1
N 5727	1	207	26	719	1.1	23	9	542	3.64	114	5	ND	1	42	3	2	2	42	.99	.084	3	13	.71	19	.10	11	1.45	.07	.05	1	1
N 5728	3	195	18	341	.9	31	8	363	1.44	111	5	ND	1	45	1	2	2	18	1.65	.130	6	12	.25	8	.07	13	.79	.02	.01	1	2
N 5729	1	107	11	141	.4	15	14	634	2.07	653	5	ND	1	69	1	3	2	40	1.56	.060	2	13	.64	19	.12	6	1.76	.11	.05	1	5
N 5730	7	89	4	29	.5	9	3	1034	1.19	22	5	ND	1	28	2	3	2	35	4.81	.154	3	11	.08	7	.07	137	.78	.01	.01	1	1
N 5731	9	78	2	93	.4	13	2	1016	1.21	14	5	ND	1	24	2	2	3	42	4.21	.252	5	12	.05	5	.05	179	.65	.01	.01	1	1
N 5732	14	198	7	45	1.1	42	3	784	2.67	31	5	ND	1	24	1	2	2	134	5.00	.162	5	19	.08	9	.05	50	.65	.01	.03	13	1
N 5733	12	223	7	65	.9	24	12	388	1.20	429	5	ND	1	30	1	5	2	58	2.08	.028	2	13	.14	10	.13	18	.94	.01	.02	1	3
N 5734	6	51	4	184	.3	11	5	553	1.17	113	5	ND	1	32	2	4	2	17	3.46	.135	4	8	.07	5	.07	18	.84	.01	.01	1	1
N 5735	4	98	2	19	.4	17	3	919	1.61	41	5	ND	1	23	1	2	2	21	4.69	.180	5	14	.04	7	.06	55	.72	.01	.01	1	2
N 5736	4	46	2	26	.1	14	4	676	1.06	59	5	ND	1	19	2	2	2	12	3.09	.112	6	11	.03	7	.04	14	.69	.01	.01	1	1
N 5737	3	11	5	16	.1	25	20	790	1.86	1870	5	ND	1	16	1	2	2	14	3.66	.076	6	14	.04	7	.03	11	.58	.01	.01	2	14
N 5738	3	3	4	10	.1	37	25	786	1.66	4242	5	ND	1	46	1	6	2	19	3.71	.082	6	8	.04	9	.04	73	.76	.01	.01	1	45
N 5739	4	524	7	34	1.8	124	266	725	4.03	37424	5	ND	1	19	1	11	3	14	3.57	.061	4	3	.03	3	.02	14	.45	.01	.01	1	234
N 5740	2	63	5	20	.2	22	20	796	1.68	2031	5	ND	1	23	1	2	2	14	3.44	.120	6	13	.04	7	.04	10	.62	.01	.01	2	8
N 5741	3	243	5	19	.9	27	13	763	1.91	1190	5	ND	1	19	1	2	2	17	5.96	.107	5	19	.02	4	.04	9	.63	.01	.01	3	17
N 5742	5	65	2	19	.2	22	10	1001	1.77	698	5	ND	1	19	1	2	2	21	3.51	.126	6	16	.07	11	.04	9	.64	.01	.02	1	1
N 5743	3	11	4	11	.1	16	6	692	1.33	135	5	ND	1	20	1	2	2	13	2.98	.123	6	12	.03	7	.04	5	.64	.01	.01	1	1
N 5744	3	45	2	35	.1	20	5	641	1.28	152	5	ND	1	32	1	2	2	8	2.34	.105	7	7	.04	13	.03	18	.62	.01	.02	1	1
N 5745	3	111	2	233	.4	16	3	703	1.60	77	5	ND	1	23	2	2	3	13	2.76	.074	5	8	.04	12	.05	14	.79	.01	.02	1	1
STD C/AU-R	18	60	41	132	6.7	70	29	1129	4.27	43	16	8	38	48	19	16	20	59	.49	.097	41	60	.95	176	.07	39	2.03	.06	.15	12	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
N 5746	3	147	10	238	.5	20	8	600	2.59	299	5	ND	1	35	1	2	5	16	3.19	.090	7	8	.04	17	.07	23	1.04	.01	.02	1	5
N 5747	5	177	3	125	.3	22	8	690	2.72	114	5	ND	1	22	1	2	2	17	3.70	.100	7	13	.07	12	.07	2	.98	.02	.01	3	1
N 5748	4	100	5	73	.4	16	6	542	2.33	35	5	ND	1	34	1	2	2	18	3.08	.157	8	11	.07	13	.08	8	1.01	.01	.02	1	1
N 5749	5	80	2	20	.3	27	5	685	2.05	12	5	ND	1	23	1	2	5	18	3.64	.133	9	14	.04	8	.06	5	.92	.01	.01	1	1
N 5750	10	46	2	14	.1	27	7	776	2.48	25	5	ND	1	20	1	2	2	44	3.84	.129	7	17	.04	5	.06	2	.94	.01	.01	1	1
N 5751	9	35	3	38	.1	18	4	792	2.06	25	5	ND	1	32	1	2	2	25	3.29	.134	8	11	.06	3	.06	29	.83	.01	.01	2	1
N 5752	2	174	9	155	.6	17	17	601	3.57	49	5	ND	1	37	1	2	2	31	2.14	.063	4	8	.37	10	.11	7	1.18	.03	.03	1	3
N 5753	5	38	2	16	.1	12	5	590	1.99	14	5	ND	1	32	1	4	2	15	3.27	.077	7	11	.14	4	.06	17	.73	.01	.02	1	1
N 5754	4	112	4	16	.5	37	12	628	3.96	19	5	ND	1	27	1	2	2	9	4.27	.047	3	11	.12	2	.03	22	.60	.01	.02	1	1
N 5755	2	100	6	81	.3	24	16	561	4.40	35	5	ND	1	91	1	2	2	64	1.93	.061	3	11	.76	29	.12	11	1.62	.07	.05	1	1
N 5756	4	146	10	104	.2	17	7	512	2.17	14	5	ND	1	34	1	2	3	15	2.48	.072	6	11	.14	2	.06	24	.75	.01	.01	1	1
N 5757	1	11	4	131	.2	3	3	237	.85	6	5	ND	1	88	1	2	2	27	2.09	.074	3	5	.06	4	.14	16	1.10	.01	.01	1	2
N 5758	3	79	8	126	.2	32	17	1040	1.73	46	5	ND	2	35	1	2	2	13	1.65	.069	3	11	.13	1	.06	173	.74	.01	.01	1	1
N 5759	7	212	13	546	.8	38	62	1495	6.93	1778	5	ND	1	18	2	3	2	9	5.57	.087	5	12	.17	2	.03	433	.47	.01	.01	1	53
N 5760	3	11	3	84	.1	57	28	364	1.16	150	5	ND	1	91	1	2	2	24	1.98	.072	4	50	.54	94	.09	75	1.12	.06	.05	1	1
N 5761	2	49	6	68	.1	32	17	222	2.16	49	5	ND	2	66	1	2	2	34	1.11	.050	3	23	.69	34	.09	16	1.41	.07	.04	1	1
N 5762	1	60	8	28	.2	11	18	145	1.98	31	5	ND	1	44	1	2	4	22	1.18	.087	3	8	.29	12	.14	10	.97	.06	.03	1	1
N 5763	2	33	2	14	.1	9	3	143	1.06	19	5	ND	1	22	1	2	3	25	1.12	.056	2	7	.27	20	.16	15	.71	.03	.04	1	1
N 5764	1	45	12	69	.1	36	11	471	3.24	19	5	ND	1	23	1	2	2	81	1.26	.069	2	70	2.05	4	.25	3	2.07	.03	.03	1	1
N 5765	1	96	5	58	.2	42	12	438	3.05	28	5	ND	1	100	1	3	2	59	2.58	.048	2	99	1.54	2	.16	2	2.19	.01	.02	1	1
N 5766	2	3	3	13	.1	17	48	449	1.60	105	5	ND	1	67	1	2	2	28	3.36	.152	3	18	.20	4	.22	15	1.29	.01	.01	2	4
N 5767	8	18	10	732	.3	5	6	523	2.16	296	5	ND	1	46	3	6	2	12	2.67	.157	3	6	.15	4	.10	12	.90	.01	.01	1	59
N 5768	3	2	6	19	.1	8	22	1558	5.10	445	5	ND	1	20	1	2	2	40	10.76	.153	5	12	.06	5	.07	5	1.22	.01	.01	5	22
N 5769	4	7	5	120	.1	3	1	745	.23	18	5	ND	1	239	2	2	2	24	33.91	.085	4	4	.05	1	.01	195	.16	.01	.01	2	4
N 5770	5	5	6	56	1.2	4	4	377	.61	226	5	ND	1	101	1	2	12	39	16.10	.092	3	7	.01	1	.09	59	.36	.01	.01	3	20
N 5771	6	11	2	189	.2	5	2	192	.05	28	5	ND	1	269	3	2	4	53	35.16	.044	3	9	.02	1	.01	104	.14	.01	.01	1	1
N 5772	17	30	5	621	.4	13	2	539	.76	29	5	ND	1	46	2	2	3	103	14.09	.415	7	22	.02	1	.02	71	.52	.01	.01	4	1
N 5773	9	38	3	161	.1	19	2	121	.45	4	5	ND	1	209	7	2	2	57	26.41	.128	5	12	.05	2	.02	235	.53	.01	.01	1	1
N 5774	19	13	3	14	.1	29	7	476	1.06	267	5	ND	1	44	1	5	2	75	6.00	.238	5	27	.10	1	.05	11	.49	.01	.01	4	3
N 5775	4	237	3	314	1.2	10	9	434	1.68	252	5	ND	1	53	1	4	2	36	4.17	.069	2	15	.08	3	.09	10	.77	.01	.01	13	2
N 5776	10	654	2	190	3.1	9	3	305	1.08	96	5	ND	1	48	1	11	2	44	2.39	.084	3	19	.10	2	.14	13	.86	.01	.01	1	2
N 5777	7	17	26	14	1.4	25	14	252	.98	256	5	ND	1	62	1	2	20	58	3.22	.108	2	23	.07	3	.10	26	.91	.01	.01	1	12
N 5778	3	76	6	16	.2	6	26	690	1.62	2505	5	ND	1	45	1	4	3	14	3.35	.102	3	8	.11	3	.05	26	.76	.01	.01	1	14
N 5779	2	62	13	13	.9	8	6	142	.81	558	5	ND	1	71	1	2	3	19	1.74	.112	4	15	.07	1	.08	8	.96	.01	.01	1	1
N 5780	2	251	32	1025	2.2	7	11	235	1.31	658	5	ND	1	67	4	2	3	22	1.92	.135	6	4	.11	3	.14	9	1.07	.01	.01	1	1
N 5731	4	85	21	389	1.0	11	6	255	.82	226	5	ND	1	44	1	2	3	13	1.73	.155	7	6	.13	6	.05	5	.72	.01	.02	1	1
STD C/AU-R	18	60	39	132	6.8	70	30	1036	4.27	44	18	3	39	48	17	17	21	60	.49	.093	39	60	.95	180	.07	32	2.05	.06	.14	12	485

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB
N 5782	3	2	3	7	.1	4	2	235	.65	233	5	ND	1	40	1	3	2	9	1.41	.056	3	4	.11	5	.04	4	.63	.01	.01	1	1
N 5783	2	23	7	8	.1	4	4	144	.79	694	5	ND	1	59	1	2	2	13	1.43	.085	3	3	.08	2	.07	2	.77	.01	.01	1	4
N 5784	5	42	20	9	.1	3	2	234	.98	462	5	ND	1	62	1	10	2	16	1.65	.076	3	7	.09	3	.08	8	.99	.01	.01	1	6
N 5785	1	10	2	33	.1	8	4	705	1.16	70	5	ND	1	41	1	5	2	16	3.17	.081	3	10	.10	2	.08	26	.89	.01	.01	1	1
N 5786	1	2	4	6	.1	6	7	261	1.19	21	5	ND	12	141	1	2	2	16	2.60	.030	18	5	.04	2	.07	6	1.53	.01	.01	1	1
N 5787	2	17	9	32	.2	13	11	1428	2.60	625	6	ND	1	20	1	2	2	46	6.83	.355	6	21	.14	14	.09	3	1.68	.01	.02	4	8
N 5788	1	131	13	123	1.5	39	234	965	3.86	15007	5	ND	1	10	1	13	38	26	6.48	.109	6	24	.05	6	.05	3	1.44	.01	.01	5	99
N 5789	4	59	4	13	.3	9	7	1032	1.50	333	5	ND	1	27	2	2	2	36	5.89	.483	7	28	.06	3	.07	33	1.52	.01	.01	3	3
N 5790	17	9	2	25	.2	58	12	1579	2.34	449	5	ND	1	36	1	5	2	165	6.26	.453	10	34	.16	4	.08	26	1.74	.01	.01	6	3
N 5791	72	4	4	13	.2	74	21	1162	2.15	141	5	ND	1	28	1	3	2	198	4.11	.073	6	26	.15	7	.07	18	1.40	.01	.01	3	1
N 5792	12	2	6	29	.1	9	15	1584	2.08	650	5	ND	1	27	1	2	2	17	3.54	.097	2	8	.15	22	.06	72	1.09	.01	.02	1	3
N 5793	3	57	4	22	.4	22	4	985	1.34	75	5	ND	1	28	1	2	2	13	7.69	.100	4	11	.03	2	.04	162	.59	.01	.01	4	15
N 5794	5	46	2	13	.2	15	7	811	1.79	223	5	ND	1	16	1	2	2	11	3.80	.089	7	10	.05	6	.04	17	.79	.01	.01	2	3
N 5795	3	10	2	17	.1	9	2	1536	2.47	20	5	ND	1	22	1	2	2	20	7.52	.261	4	11	.10	10	.05	42	1.05	.01	.01	4	3
N 5796	3	8	2	15	.1	14	6	940	1.53	257	5	ND	1	18	1	2	3	13	3.26	.089	5	11	.07	15	.04	9	.82	.01	.02	1	1
N 5797	2	20	2	15	.1	18	6	812	1.30	107	5	ND	1	24	1	2	2	10	3.66	.099	5	10	.04	11	.04	6	.70	.01	.01	1	1
N 5798	3	55	5	22	.2	29	9	959	1.67	155	5	ND	1	29	1	2	2	12	3.55	.152	7	11	.05	17	.04	7	.71	.01	.02	1	2
N 5799	9	239	5	33	.9	24	13	1300	1.97	431	5	ND	1	18	1	2	2	32	3.78	.111	5	14	.05	17	.05	8	.94	.01	.02	2	1
N 5800	21	46	2	30	.4	20	10	1333	1.67	61	5	ND	1	18	1	2	2	32	4.21	.083	3	14	.05	19	.05	25	.85	.01	.02	2	1
N 5801	4	397	6	77	1.3	26	3	1346	2.83	38	5	ND	1	23	1	2	2	20	4.82	.112	4	15	.05	17	.05	127	.85	.01	.02	4	1
N 5802	3	65	3	51	.3	18	4	607	2.11	218	5	ND	1	36	1	2	2	19	3.82	.193	7	15	.04	10	.04	16	.30	.01	.01	3	1
N 5803	4	226	6	111	.7	16	14	947	2.21	926	5	ND	1	21	1	2	2	19	3.54	.100	8	16	.08	14	.06	58	1.00	.01	.02	1	10
N 5804	2	8	6	81	.2	16	9	1568	2.44	663	5	ND	1	20	1	2	2	24	3.85	.103	6	20	.14	25	.06	168	1.08	.01	.03	1	1
N 5805	4	8	8	37	.1	15	3	1061	1.95	80	5	ND	1	24	1	2	2	20	3.57	.089	6	14	.10	13	.05	145	.93	.01	.02	1	2
N 5806	4	199	7	116	.7	12	1	1383	2.61	12	5	ND	1	23	1	2	2	26	4.40	.112	6	14	.13	28	.05	22	1.27	.01	.03	2	1
N 5807	4	103	5	88	.4	11	2	855	1.62	14	5	ND	1	34	1	2	2	18	4.30	.161	10	14	.09	11	.07	46	1.00	.01	.01	1	1
N 5808	2	85	5	89	.2	10	4	626	1.11	269	5	ND	1	44	1	2	2	11	3.07	.100	7	8	.06	3	.05	159	.82	.01	.01	1	2
N 5809	4	295	25	184	1.3	12	5	395	1.95	149	5	ND	1	64	1	5	2	10	2.42	.181	8	6	.08	3	.06	181	.81	.01	.01	1	1
N 5810	3	19	2	54	.1	11	4	258	1.05	223	5	ND	1	55	1	7	2	11	2.83	.056	4	5	.04	2	.07	22	1.03	.01	.01	1	1
N 5811	1	150	12	166	.6	33	14	632	4.04	148	5	ND	1	71	1	2	2	43	1.03	.036	2	34	.98	29	.09	2	2.00	.13	.05	1	1
N 5812	1	172	8	52	.7	6	3	542	1.18	13	5	ND	1	55	1	5	2	24	2.29	.038	3	11	.11	4	.12	96	1.03	.01	.01	1	1
N 5813	6	407	4	51	1.6	11	4	825	2.09	283	5	ND	1	32	2	2	2	27	6.02	.080	4	9	.09	4	.08	43	1.15	.01	.01	2	1
N 5814	2	2103	15	191	7.4	28	3	496	2.27	84	5	ND	1	46	1	5	2	17	4.98	.066	3	6	.06	2	.09	56	.91	.01	.01	1	8
N 5815	3	1347	15	138	5.3	17	2	578	2.42	37	5	ND	1	41	1	3	2	16	4.41	.219	11	11	.09	4	.05	29	1.04	.01	.01	1	1
N 5816	6	660	13	49	3.6	30	4	428	2.28	12	5	ND	1	40	1	3	3	18	3.58	.231	11	11	.09	4	.04	15	.83	.01	.01	1	1
N 5817	5	457	18	46	1.8	32	6	346	2.10	29	5	ND	1	15	1	2	2	10	2.29	.096	6	8	.05	2	.04	6	.71	.01	.01	1	1
STD C/AU-R	18	60	39	132	6.7	70	29	1076	4.10	42	18	8	38	48	18	17	20	59	.50	.097	39	58	.97	183	.07	35	2.08	.06	.15	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
M 5818	3	101	13	42	.3	18	3	269	.90	19	5	ND	1	17	1	2	2	9	1.37	.101	5	7	.10	6	.06	21	.57	.02	.02	1	3
M 5819	9	104	14	47	.5	23	4	516	1.41	18	5	ND	1	16	1	2	2	8	1.68	.097	6	9	.07	1	.03	6	.49	.01	.01	2	1
M 5820	11	107	13	82	.4	20	8	418	1.71	31	5	ND	1	32	1	2	2	27	1.94	.146	6	9	.28	12	.10	31	.95	.03	.03	1	1
M 5821	1	57	17	145	.2	32	17	405	2.24	84	5	ND	1	213	1	2	2	59	2.00	.060	4	42	1.06	27	.12	17	2.82	.19	.06	1	4
M 5822	3	44	12	73	.1	19	6	928	1.42	16	5	ND	1	12	1	2	2	15	2.05	.076	5	11	.07	2	.08	265	.67	.01	.01	1	1
M 5823	3	22	7	20	.1	14	3	528	1.63	17	5	ND	1	14	1	2	2	14	3.30	.079	6	10	.05	2	.06	7	.73	.01	.31	1	2
M 5824	6	52	10	40	.1	21	4	598	1.72	10	5	ND	1	13	1	3	3	13	2.98	.076	6	12	.05	3	.05	11	.72	.01	.01	1	1
M 5825	1	135	5	94	.4	10	14	214	1.53	153	5	ND	1	49	1	2	2	28	3.36	.072	3	5	.16	9	.10	10	.84	.07	.03	1	4
M 5826	1	7	5	13	.1	17	9	253	1.58	18	5	ND	1	59	1	3	2	45	4.03	.055	2	29	.64	4	.24	13	2.18	.01	.05	2	12
M 5827	1	55	8	42	.1	2	14	531	5.15	3	5	ND	1	44	1	2	2	110	1.58	.139	3	9	1.69	48	.19	2	2.60	.16	.14	1	1
M 5828	1	27	2	25	.1	6	9	313	2.32	4	5	ND	1	71	1	2	2	34	1.33	.075	2	11	1.18	4	.13	4	1.86	.01	.01	1	1
M 5829	1	10	3	30	.1	8	11	388	2.39	4	5	ND	1	96	1	2	2	45	1.49	.070	2	14	1.46	3	.16	4	2.28	.01	.01	1	1
M 5830	1	155	4	25	.4	5	12	369	2.53	6	5	ND	1	66	1	3	2	39	1.17	.059	2	14	1.10	6	.13	6	1.92	.03	.02	1	1
M 5831	1	3	3	31	.1	8	11	401	3.14	2	5	ND	1	100	1	2	2	42	1.51	.093	2	16	1.53	5	.14	5	2.33	.01	.01	1	1
M 5832	1	4	3	6	.1	5	3	153	1.13	2	5	ND	1	72	1	2	2	28	1.45	.033	2	29	.33	3	.10	3	1.14	.01	.01	1	2
M 5833	1	273	4	38	.3	5	23	431	4.53	23	5	ND	1	41	1	2	2	103	1.44	.132	2	11	2.19	20	.22	13	2.53	.04	.06	2	1
M 5834	1	74	10	41	.1	3	32	263	3.90	25	5	ND	1	41	1	2	2	74	1.59	.121	2	11	1.39	30	.19	13	2.05	.09	.12	1	1
M 5835	1	19	3	25	.1	7	10	253	1.81	3	5	ND	10	70	1	2	2	30	.98	.018	3	13	1.07	78	.07	2	1.91	.06	.02	1	4
M 5836	1	183	9	205	.3	19	29	866	5.19	43	5	ND	1	65	1	2	2	125	1.25	.045	2	28	2.49	8	.13	2	3.47	.05	.02	1	1
M 5837	1	136	2	90	.4	14	22	805	4.77	31	5	ND	2	99	1	3	2	90	1.95	.043	2	17	2.08	20	.13	4	3.70	.11	.03	1	5
M 5838	1	9	2	77	.1	19	23	848	4.86	27	5	ND	5	36	1	2	2	89	.83	.048	4	16	2.47	10	.15	4	2.97	.03	.04	1	1
M 5839	1	122	9	159	.4	28	57	1370	6.88	53	5	ND	1	33	1	2	2	93	1.23	.070	2	17	3.31	3	.14	4	3.83	.02	.02	1	2
M 5840	1	29	2	12	.1	2	5	165	1.28	3	5	ND	1	127	1	2	2	65	1.87	.026	2	5	.29	1	.16	3	1.52	.01	.01	1	1
M 5841	1	22	6	45	.1	10	21	516	3.34	21	5	ND	4	81	1	3	2	49	1.53	.021	2	18	1.47	1	.14	6	2.38	.01	.01	2	1
M 5842	1	8	7	55	.1	32	36	588	3.85	50	5	ND	4	75	1	2	2	52	1.21	.042	2	74	2.39	1	.13	5	2.79	.01	.01	1	1
M 5843	1	107	4	21	.5	5	4	280	1.66	5	5	ND	1	105	1	5	2	46	2.60	.053	2	11	.41	15	.12	9	2.11	.09	.04	1	1
M 5844	2	2	3	13	.1	5	3	185	1.46	2	5	ND	1	121	1	2	2	31	1.96	.028	2	15	.49	10	.10	2	1.73	.01	.07	1	2
M 5845	1	3	3	11	.1	2	5	218	1.34	5	5	ND	1	111	1	2	2	17	1.56	.032	2	8	.41	15	.07	4	1.75	.05	.02	1	1
M 5846	1	146	7	31	.2	1	7	291	2.72	5	5	ND	1	40	1	3	2	36	1.86	.095	2	8	.88	25	.16	5	2.16	.06	.11	1	3
M 5847	1	88	2	44	.1	2	25	508	5.96	17	5	ND	1	51	1	2	2	81	1.50	.349	2	9	2.70	27	.15	4	3.43	.07	.05	1	1
STD C/AU-R	18	59	36	132	6.8	69	29	1074	4.30	45	17	8	38	48	18	16	17	59	.49	.092	40	60	.96	180	.07	33	2.03	.06	.15	13	475

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

DATE RECEIVED: SEP 22 1988
DATE REPORT MAILED: Sept. 26/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: C. Leong D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V2483 FILE # 88-2723R

SAMPLE#	AU** oz/t
N 5642	.019
N 5643	.038

RECEIVED SEP 27 1988

C. LABORATORY PROCEDURES

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
Telephone: 253-3158

GEOCHEMICAL ANALYSES - Rocks and Soils

Group 1 Digestion

.50 gram sample is digested with 3 mls 3-1-2 HCl-HNO3-H2O at 95 deg.C for one hour and is diluted to 10 ml with water. This leach is near total for base metals, partial for rock forming elements and very slight for refractory elements. Solubility limits Ag, Pb, Sb, Bi, W for high grade samples.

Group 1A - Analysis by Atomic Absorption.

Element	Detection	Element	Detection	Element	Detection
Antimony*	2 ppm	Copper	1 ppm	Molybdenum	1 ppm
Bismuth*	2 ppm	Iron	0.01 %	Nickel	1 ppm
Cadmium*	0.1 ppm	Lead	2 ppm	Silver	0.1 ppm
Chromium	1 ppm	Lithium	2 ppm	Vanadium	2 ppm
Cobalt	1 ppm	Manganese	5 ppm	Zinc	2 ppm

First Element $2.25 Subsequent Element $1.00

Group 1B - Hydride generation of volatile elements and analysis by ICP. This technique is unsuitable for sample grading over 1% Ni or Cu.

Element	Detection
Arsenic	0.1 ppm
Antimony	0.1 ppm
Bismuth	0.1 ppm
Germanium	0.2 ppm
Selenium	0.2 ppm
Tellurium	0.3 ppm

First Element $4.25 All Elements $5.50

Group 1C - Hg Detection limit - 5 ppb Price $2.50

Hg in the solutions are determined by cold vapour AA using a F & J scientific Hg assembly. The aliquots of the extract are added to a stannous chloride/hydrochloric acid solution. The reduced Hg is swept out of the solution and passed into the Hg cell where it is measured by AA.

Group 1D - ICP Analysis, same digestion

Element	Detection
Ag	0.1 ppm
Cd,Co,Cr,Cu,Mn,Mo,Ni,Sr,Zn	1 ppm
As,Au,B,Ba,Bi,La,Pb,Sb,Th,V,W	2 ppm
U	5 ppm
Al,Ca,Fe,K,Mg,Na,P,Ti	0.01 %

Any 2 elements $3.25
5 elements 4.50
10 elements 5.50
All 30 elements 6.25

Group 1E - Analysis by ICP/MS

Element	Detection
Ga,Ge	1 ppm
Au,Bi,Cd,Hg,In,Ir,Os,Re,Rh,Sb,Te,Th,Tl,U	0.1 ppm

All Elements 15.00 (minimum 20 samples per batch or $15.00 surcharge)

Hydro Geochemical Analysis

Natural water for mineral exploration

26 element ICP - Mo,Cu,Pb,Zn,Ag,Co,Ni,Mn,Fe,As,Sr,Cd,V,Ca,P, Li,Cr,Mg,Ti,B,Al,Na,K,Ce,Be,Si			$8.00
F by Specific Ion Electrode	- detection	20 ppb	$3.75
U by UA3	- detection	.01 ppb	5.00
pH		.1 pH	1.50

* Minimum 20 samples or $5.00 surcharge for ICP or AA and $15.00 surcharge for ICP/MS. All prices are in Canadian Dollars

D. SOIL SAMPLES

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: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

Main Grid

DATE RECEIVED: JULY 10 1988 DATE REPORT MAILED: July 15/88 ASSAYER. C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING LTD. PROJECT-V248-3 File # 88-2556 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
L2+40N 4+95W	1	18	14	25	.1	2	5	107	5.09	2	5	ND	1	13	1	6	2	218	.26	.017	2	49	.10	7	.29	3	.92	.01	.01	1	1
L2+40N 4+85W	1	23	20	27	.1	5	14	3165	4.56	11	5	ND	1	12	1	2	2	156	.21	.043	2	37	.14	10	.24	2	1.44	.01	.04	1	29
L2+40N 4+75W	1	17	15	45	.2	4	6	270	2.90	12	5	ND	1	24	1	4	2	105	.31	.041	2	25	.17	18	.27	9	.80	.01	.03	2	20
L2+40N 4+65W	1	16	13	64	.1	16	13	1310	4.81	5	5	ND	1	15	1	2	2	109	.23	.058	2	74	.47	9	.40	5	3.32	.01	.03	1	1
L2+30N 4+95W	1	11	14	50	.1	6	36	3001	3.56	16	5	ND	1	23	1	6	2	88	.40	.053	2	32	.22	13	.16	4	.55	.01	.03	2	6
L2+30N 4+85W	1	3	15	41	.1	9	7	447	1.94	3	5	ND	1	28	1	3	2	71	.39	.022	2	45	.33	11	.17	6	.74	.01	.03	1	1
L2+30N 4+75W	1	37	13	42	.1	10	9	799	5.10	15	5	ND	1	14	1	2	2	114	.22	.031	3	64	.32	12	.19	4	2.89	.01	.02	1	41
L2+30N 4+65W	1	26	10	23	.3	3	4	251	3.17	4	5	ND	1	12	1	4	2	137	.26	.023	2	35	.13	7	.32	9	1.74	.01	.03	1	1
L2+30N 4+55W	1	20	10	27	.2	4	4	250	1.64	2	5	ND	1	12	1	3	2	90	.22	.026	2	22	.12	6	.19	5	.96	.01	.02	1	2
L2+20N 4+95W	1	7	7	65	.1	3	2	183	.48	2	5	ND	1	17	1	2	3	13	.31	.029	2	3	.16	7	.02	4	.22	.02	.04	1	1
L2+20N 4+85W	1	3	13	20	.1	3	4	403	2.37	2	5	ND	1	14	1	3	2	132	.27	.021	2	34	.11	7	.19	4	1.10	.01	.02	1	38
L2+20N 4+75W	1	26	16	43	.1	9	9	803	3.33	10	5	ND	1	18	1	2	2	111	.32	.031	3	42	.39	13	.21	2	1.20	.01	.02	1	30
L2+20N 4+65W	1	6	11	26	.3	2	1	114	.65	2	5	ND	1	16	1	2	2	51	.24	.015	2	12	.09	2	.16	14	.26	.02	.03	1	1
L2+20N 4+55W	1	15	10	25	.1	3	4	384	.88	2	5	ND	1	32	1	2	2	60	.26	.026	2	14	.15	7	.17	5	.62	.01	.02	1	1
L2+10N 4+95W	1	3	9	20	.1	1	2	229	.67	2	5	ND	1	18	1	2	2	78	.34	.016	2	7	.07	6	.19	4	.31	.01	.03	1	3
L2+10N 4+85W	1	86	18	67	.8	2	49	3436	2.76	28	5	ND	1	28	1	2	6	112	.43	.043	2	10	.20	8	.25	6	.83	.01	.02	1	6
L2+10N 4+75W	1	23	10	39	.1	2	8	398	3.26	31	5	ND	1	21	1	5	4	106	.40	.028	2	11	.15	7	.25	8	.82	.01	.02	2	1
L2+10N 4+65W	2	29	12	40	.1	5	8	421	4.39	27	5	ND	1	14	1	2	2	125	.63	.033	3	26	.10	9	.18	3	1.21	.01	.02	1	17
L2+10N 4+55W	1	7	7	11	.1	1	2	90	1.18	3	5	ND	1	14	1	3	2	123	.24	.009	2	14	.10	2	.24	3	.52	.01	.01	1	4
L2+00N 4+95W	1	13	11	38	.3	1	5	182	2.68	13	5	ND	1	15	1	6	2	123	.36	.029	2	12	.08	5	.17	4	.80	.01	.02	1	27
L2+00N 4+85W	1	7	8	18	.1	2	3	141	2.10	7	5	ND	1	15	1	4	3	117	.64	.014	2	15	.07	9	.21	5	.92	.01	.01	1	94
L2+00N 4+65W	2	58	11	54	.1	4	9	395	6.45	54	5	ND	2	11	1	2	2	109	.96	.029	3	36	.22	7	.16	6	3.30	.01	.02	5	15
L2+00N 4+55W	1	19	9	31	.3	5	3	117	1.82	4	5	ND	1	9	1	2	3	50	.15	.043	2	14	.14	9	.10	4	1.14	.01	.03	1	2
L1+90N 4+95W	1	20	7	20	.2	3	4	306	3.70	22	5	ND	1	15	1	2	3	132	1.65	.020	2	17	.08	4	.25	3	.97	.01	.01	1	142
L1+90N 4+85W	4	136	21	131	1.7	7	10	444	9.92	57	5	ND	2	10	1	2	2	225	1.19	.029	3	40	.13	9	.22	8	2.28	.01	.02	1	305
L1+90N 4+75W	6	105	26	87	1.3	4	19	840	14.75	97	5	ND	2	7	1	2	2	169	1.18	.040	3	43	.12	6	.19	18	2.44	.01	.02	1	390
L1+90N 4+65W	1	15	13	31	.1	10	8	325	5.14	2	5	ND	1	17	1	2	2	146	.32	.028	2	63	.28	5	.66	2	3.21	.01	.01	1	32
L1+90N 4+55W	1	15	11	17	.3	2	1	43	.19	3	5	ND	1	20	1	2	2	3	.11	.027	2	1	.16	6	.01	2	.12	.02	.02	1	1
L1+80N 4+95W	6	88	21	39	.1	2	13	988	13.02	90	5	ND	1	7	1	2	2	326	3.52	.034	2	36	.09	4	.22	2	1.66	.01	.02	6	21
L1+80N 4+85W	13	447	16	68	1.5	4	18	1643	12.55	75	5	ND	2	6	1	2	2	313	3.53	.040	3	38	.17	4	.14	6	2.07	.01	.01	6	28
L1+80N 4+75W	7	183	22	83	.7	4	17	828	13.10	101	5	ND	2	7	1	2	2	191	1.42	.049	3	51	.11	4	.20	10	3.03	.01	.03	3	122
L1+80N 4+65W	1	14	17	31	.1	9	7	541	5.89	6	5	ND	2	22	1	6	2	168	.38	.033	2	78	.29	7	.61	3	2.72	.01	.01	1	18
L1+80N 4+55W	1	6	12	11	.1	2	3	153	2.84	2	5	ND	1	10	1	5	2	128	.23	.009	2	46	.13	5	.32	3	1.13	.01	.01	1	7
L1+70N 4+95W	6	223	13	45	1.6	4	13	837	16.25	84	5	ND	2	7	1	2	2	315	3.19	.027	3	30	.12	5	.22	8	1.61	.01	.01	4	9
L1+70N 4+85W	10	379	19	65	1.4	8	17	1136	15.55	79	5	ND	2	5	1	2	2	258	2.01	.044	3	52	.20	5	.18	5	3.09	.01	.03	7	11
L1+70N 4-75W	14	275	11	94	.9	8	35	2184	9.59	48	5	ND	2	7	1	2	2	155	.72	.050	4	62	.28	7	.14	5	3.68	.01	.02	3	2
STD C/AU-S	17	58	40	132	7.1	66	28	1059	4.12	37	16	7	36	47	17	16	17	57	.47	.083	39	56	.92	174	.06	33	1.99	.06	.14	12	53

RECEIVED JUL 1 9 1988

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
1+70N 4+65W	1	6	19	11	.1	1	1	93	.46	2	5	ND	1	7	1	2	2	78	.19	.006	2	8	.04	3	.20	8	.41	.01	.02	1	1
1+70N 4+55W	15	236	14	61	.4	5	18	1220	13.61	95	5	ND	1	5	1	2	2	276	2.75	.051	2	48	.13	4	.15	8	2.18	.01	.03	10	7
1+60N 4+95W	7	617	26	89	2.8	7	18	921	11.02	52	5	ND	3	7	1	2	2	154	.71	.055	4	69	.33	6	.17	4	5.92	.01	.03	1	17
1+60N 4+85W	7	486	24	60	3.2	6	15	787	10.65	43	5	ND	2	7	1	2	2	161	.65	.048	3	61	.21	5	.17	6	4.51	.01	.01	2	23
1+60N 4+75W	14	459	21	208	1.0	17	40	3197	12.41	100	5	ND	1	5	1	2	2	159	1.15	.074	3	55	.85	7	.06	2	4.86	.01	.04	4	46
1+60N 4+65W	16	388	20	103	1.5	11	33	3858	10.67	55	5	ND	2	7	1	2	2	154	.89	.059	3	50	.40	5	.11	6	3.77	.01	.02	6	16
1+60N 4+55W	1	5	12	15	.1	4	1	80	1.91	2	5	ND	1	10	1	2	2	66	.19	.010	2	9	.08	7	.27	5	.98	.01	.02	1	1
STD C/AU-S	17	60	44	131	7.1	68	27	1052	4.11	39	16	7	36	47	17	16	18	56	.47	.086	38	56	.91	171	.06	34	1.94	.06	.14	12	52

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 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: SOIL   AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: MAY 19 1988   DATE REPORT MAILED: May 26/88   ASSAYER. C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING PROJECT-V2483   File # 88-1506   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
V2483 L10+00N 2+75W	1	5	6	12	.1	3	2	140	1.32	2	5	ND	1	9	1	2	2	113	.18	.007	3	21	.08	9	.25	2	.77	.01	.02	1	2
V2483 L10+00N 2+50W	1	13	10	24	.2	8	3	143	3.74	2	5	ND	1	16	1	2	2	170	.42	.024	2	26	.21	11	.36	3	.60	.01	.04	1	26
V2483 L10+00N 2+25W	1	8	5	23	.1	8	4	170	2.48	2	5	ND	1	12	1	2	2	183	.47	.017	2	19	.34	8	.35	2	.89	.01	.04	1	6
V2483 L10+00N 2+00W	1	4	5	11	.1	3	2	87	.90	2	5	ND	1	7	1	2	2	86	.26	.009	2	42	.12	3	.25	2	.40	.01	.01	1	33
V2483 L10+00N 1+75W	1	11	9	12	.1	5	2	71	.63	2	5	ND	1	8	1	2	2	52	.28	.018	2	22	.14	3	.17	7	.32	.01	.05	1	2
V2483 L10+00N 1+50W	1	5	6	13	.1	3	1	107	1.12	2	5	ND	1	10	1	2	2	94	.23	.022	2	15	.10	5	.19	2	.53	.01	.02	1	1
V2483 L10+00N 1+25W	1	8	8	19	.1	6	3	83	1.67	2	5	ND	1	14	1	2	2	73	.35	.030	2	64	.14	7	.12	4	.30	.01	.04	2	1
V2483 L10+00N 1+00W	1	10	8	15	.1	3	1	87	1.37	2	5	ND	1	12	1	2	2	134	.26	.017	2	21	.11	7	.32	2	.96	.01	.02	1	2
V2483 L10+00N 0+75W	1	11	11	24	.2	4	2	105	1.57	2	5	ND	1	12	1	2	2	134	.24	.024	3	20	.12	9	.29	3	1.00	.01	.05	1	4
V2483 L10+00N 0+50W	1	9	8	24	.1	4	2	102	1.36	2	5	ND	1	16	1	2	2	108	.33	.025	2	34	.13	12	.22	2	.77	.01	.04	1	1
V2483 L10+00N 0+25W	1	7	3	17	.1	15	4	110	3.98	2	5	ND	1	9	1	2	2	191	.24	.013	2	100	.33	3	.13	2	.81	.01	.04	1	1
V2483 L10+00N 0+25E	1	4	6	17	.1	5	2	93	1.27	2	5	ND	1	16	1	2	2	95	.28	.020	2	28	.14	7	.19	3	.89	.01	.03	1	1
V2483 L10+00N 0+50E	1	5	5	28	.1	1	4	163	5.00	2	5	ND	1	13	1	2	2	214	.27	.025	2	5	.16	11	.14	2	.63	.01	.04	1	1
V2483 L10+00N 0+74E	1	4	8	27	.1	3	1	65	.80	2	5	ND	1	36	1	2	2	47	.55	.043	2	15	.12	10	.08	4	.31	.01	.05	1	1
V2483 L9+00N 2+75W	4	44	18	55	.5	5	3	54	2.14	6	5	ND	2	30	1	2	2	87	.36	.070	3	12	.10	15	.18	4	1.03	.01	.07	1	1
V2483 L9+00N 2+50W	2	101	8	58	.3	8	2	58	2.29	8	5	ND	1	25	1	2	2	90	.34	.044	2	16	.12	20	.20	2	1.03	.01	.03	1	8
V2483 L9+00N 2+25W	1	20	8	16	.2	4	2	66	1.51	10	5	ND	1	24	1	3	2	125	.52	.013	2	12	.08	8	.24	2	.76	.01	.02	2	105
V2483 L9+00N 2+00W	1	8	4	19	.3	6	2	68	.89	5	5	ND	2	13	1	2	2	75	.28	.009	2	22	.12	4	.15	2	.42	.01	.05	1	1
V2483 L9+00N 1+75W	3	18	3	17	.1	4	2	88	4.22	7	5	ND	1	12	1	2	2	168	.30	.018	2	18	.17	8	.28	2	1.37	.01	.03	1	7
V2483 L9+00N 1+50W	3	25	11	16	.2	3	2	111	2.11	5	5	ND	1	13	1	2	2	170	.47	.022	3	19	.10	8	.30	2	.98	.01	.02	1	6
V2483 L9+00N 1+25W	1	2	8	15	.5	1	2	118	1.32	2	5	ND	3	23	1	2	2	142	.30	.012	2	6	.10	5	.32	2	.43	.01	.05	1	2
V2483 L9+00N 1+00W	1	1	6	23	.3	1	2	205	2.88	2	5	ND	1	20	1	2	2	263	.36	.016	2	11	.08	5	.32	2	.45	.01	.04	2	3
V2483 L9+00N 0+75W	2	2	11	26	.1	3	3	178	5.60	2	5	ND	2	10	1	2	2	444	.20	.015	2	25	.10	6	.46	2	1.14	.01	.03	1	1
V2483 L9+00N 0+50W	1	1	3	18	.3	6	2	128	3.38	2	7	ND	3	9	1	2	2	142	.34	.014	2	31	.25	8	.18	2	1.04	.01	.06	1	1
V2483 L9+00N 0+25W	1	1	5	11	.1	2	1	86	1.63	2	5	ND	1	12	1	2	2	125	.26	.011	3	9	.10	7	.21	2	.94	.01	.04	1	1
V2483 L9+00N 0+25E	1	3	6	17	.4	2	1	52	.49	2	5	ND	1	11	1	2	3	45	.24	.017	2	9	.10	8	.08	2	.45	.01	.04	2	2
V2483 L9+00N 0+50E	1	1	4	8	.4	1	1	44	.46	2	5	ND	2	10	1	2	2	41	.25	.008	2	3	.04	3	.10	2	.35	.01	.05	1	1
V2483 L9+00N 0+75E	1	2	15	23	.1	3	2	206	2.30	2	5	ND	2	17	1	2	2	164	.35	.006	3	14	.24	8	.34	2	1.69	.01	.03	1	1
V2483 L9+00N 1+00E	3	4	5	15	.5	6	3	125	3.44	7	5	ND	1	22	1	2	3	238	.43	.016	2	25	.13	8	.37	2	.82	.01	.05	1	1
V2483 L9+00N 1+25E	1	3	6	25	.3	12	3	64	2.22	2	5	ND	2	18	1	2	2	131	.40	.019	2	75	.18	6	.22	2	.71	.01	.07	2	2
V2483 L9+00N 1+50E	2	16	6	40	.2	15	7	181	5.07	2	5	ND	1	33	1	2	2	90	.63	.077	2	46	.16	21	.09	4	1.71	.02	.06	2	1
V2483 L8+50N 2+65W	1	17	9	25	.2	6	2	50	.79	2	5	ND	1	26	1	2	2	24	.34	.022	3	11	.10	24	.06	2	.65	.01	.06	2	1
V2483 L8+50N 2+50W	2	15	6	26	.3	6	3	86	5.53	2	5	ND	4	14	1	2	2	139	.22	.045	3	26	.16	13	.24	2	1.50	.01	.07	1	2
V2483 L8+50N 2+25W	1	12	6	9	.1	2	1	49	.90	2	5	ND	1	16	1	2	2	60	.28	.011	3	5	.06	15	.11	2	.73	.01	.04	1	5
V2483 L8+50N 2+00W	2	15	11	26	.1	3	3	86	6.37	167	5	ND	2	23	1	2	4	259	.37	.021	4	20	.10	10	.37	2	1.83	.01	.04	1	23
V2483 L8+50N 1+75W	3	30	6	25	.3	5	4	195	6.30	213	8	ND	4	22	1	2	3	188	.62	.019	3	21	.26	14	.37	2	1.61	.01	.06	1	1
STD C/AU-S	20	63	42	134	7.2	72	31	1080	4.17	39	19	8	40	54	19	17	22	60	.49	.091	39	61	.93	185	.07	34	1.88	.05	.14	14	49

RECEIVED MAY 2 7 1988

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
V2483 L8+50N 1+50W	2	7	12	20	.1	2	2	211	6.56	260	5	ND	1	23	1	2	7	224	.77	.024	2	17	.07	7	.35	2	1.07	.02	.03	1	26
V2483 L8+50N 1+25W	1	19	9	15	.1	2	1	72	2.93	64	5	ND	1	36	1	2	4	118	.84	.010	2	9	.08	3	.32	4	.95	.02	.01	1	4
V2483 L8+50N 1+00W	2	18	9	29	.1	4	5	181	5.54	50	5	ND	1	22	1	2	3	127	.56	.018	2	30	.30	8	.20	3	2.16	.04	.02	2	127
V2483 L8+50N 0+75W	3	46	8	18	.1	5	2	92	5.51	38	5	ND	1	14	1	2	2	181	.38	.010	3	38	.16	9	.37	2	2.40	.02	.02	1	1120
V2483 L8+50N 0+50W	1	12	10	41	.1	6	4	217	2.92	2	5	ND	1	26	1	3	2	138	.51	.017	2	16	.50	20	.22	3	1.66	.04	.05	1	18
V2483 L8+50N 0+25W	1	8	6	27	.1	4	4	253	7.45	2	5	ND	1	32	1	2	2	328	.45	.025	2	41	.35	5	.33	2	2.81	.04	.01	1	5
V2483 L8+50N 0+25E	2	19	6	18	.1	4	3	103	6.02	3	5	ND	2	15	1	2	2	252	.27	.016	2	32	.20	8	.31	2	2.74	.01	.02	1	2
V2483 L8+50N 0+50E	1	6	2	14	.1	4	1	53	.72	2	5	ND	1	10	1	2	2	44	.27	.012	2	64	.11	2	.07	4	.35	.04	.02	1	1
V2483 L8+50N 0+75E	2	10	4	16	.1	3	2	87	5.93	4	5	ND	1	13	1	2	3	265	.22	.016	2	37	.12	4	.39	2	1.21	.02	.02	1	1
V2483 L8+50N 1+00E	1	1	10	19	.1	1	1	134	2.40	2	5	ND	1	12	1	2	2	327	.23	.009	3	9	.07	5	.56	2	1.05	.02	.03	1	16
V2483 L8+50N 1+25E	2	1	9	22	.1	2	3	128	5.33	2	5	ND	1	15	1	2	6	450	.28	.019	2	10	.15	8	.72	2	1.16	.03	.03	1	1
V2483 L8+50N 1+50E	16	8	9	25	.1	2	1	71	2.22	4	5	ND	1	18	1	2	2	181	.28	.023	2	6	.09	8	.31	6	.67	.04	.04	1	2
V2483 L8+50N 1+75E	1	4	7	32	.2	1	1	24	.36	2	6	ND	2	16	1	2	2	20	.35	.035	2	1	.08	6	.05	11	.23	.04	.11	2	1
V2483 L8+50N 2+00E	1	4	5	27	.1	1	1	32	.45	2	5	ND	1	13	1	2	2	35	.22	.031	2	3	.05	10	.05	3	.48	.02	.05	1	1
V2483 L8+50N 2+25E	1	3	4	19	.1	2	1	28	.55	2	5	ND	1	14	1	2	2	48	.20	.020	2	21	.10	7	.11	5	.30	.01	.05	1	11
V2483 L7+50N 1+15W	2	30	7	53	.3	18	8	278	2.61	28	5	ND	1	43	1	2	2	50	.74	.144	5	33	.78	9	.10	12	2.61	.11	.05	1	76
V2483 L7+50N 1+00W	7	70	18	65	.5	13	21	2051	15.31	476	5	ND	1	13	1	2	2	114	1.35	.081	5	39	.53	12	.10	8	2.42	.01	.03	2	830
V2483 L7+50N 0+75W	3	14	9	24	.1	4	5	143	5.54	110	5	ND	1	14	1	2	2	182	.21	.021	3	34	.13	11	.32	3	1.29	.02	.02	2	10
V2483 L7+50N 0+50W	2	3	10	23	.1	5	3	261	4.26	2	5	ND	1	26	1	2	2	147	.68	.018	3	13	.23	16	.30	2	2.93	.01	.02	1	8
V2483 L7+50N 0+25W	1	6	7	17	.1	3	3	160	.85	2	5	ND	1	19	1	2	2	77	.43	.022	2	17	.11	8	.20	6	1.13	.04	.03	1	6
V2483 L7+50N 0+25E	2	123	8	46	.2	17	8	240	8.31	10	5	ND	2	13	1	4	2	226	.25	.051	8	86	.43	13	.65	3	7.90	.04	.03	4	21
V2483 L7+50N 0+50E	1	14	3	33	.1	5	3	419	6.08	2	5	ND	1	26	1	2	2	225	.46	.019	3	30	.22	9	.38	2	1.67	.05	.03	1	1
V2483 L7+50N 0+75E	1	5	5	14	.1	3	1	77	1.13	2	5	ND	1	9	1	2	2	89	.24	.013	2	37	.10	5	.23	2	.55	.01	.02	1	15
V2483 L7+50N 1+00E	2	2	10	10	.1	1	1	21	.42	2	5	ND	1	9	1	2	2	59	.12	.014	4	10	.03	11	.14	2	1.08	.03	.04	1	1
V2483 L7+50N 1+25E	1	1	4	9	.1	2	1	26	.42	2	5	ND	1	11	1	2	2	39	.17	.010	2	4	.03	6	.07	4	.43	.02	.05	1	1
V2483 L7+50N 1+50E	6	2	9	18	.1	2	2	82	8.32	2	5	ND	2	12	1	2	2	234	.19	.014	3	24	.16	9	.36	2	2.59	.03	.03	1	1
V2483 L7+50N 1+75E	1	1	2	17	.1	1	1	14	.56	2	5	ND	1	11	1	2	2	29	.24	.012	2	3	.02	4	.05	7	.23	.01	.05	1	1
V2483 L7+50N 2+00E	1	1	4	13	.1	1	1	25	.59	2	5	ND	1	7	1	2	2	30	.13	.014	2	1	.04	6	.06	3	.34	.01	.04	1	1
V2483 L7+50N 2+25E	1	1	2	9	.1	1	1	29	.19	2	5	ND	1	7	1	2	2	29	.09	.017	2	1	.02	5	.04	3	.54	.02	.05	1	1
V2483 L7+50N 2+50E	1	4	6	20	.2	1	1	68	.42	2	5	ND	1	12	1	2	2	29	.22	.024	2	1	.06	7	.07	5	.46	.01	.06	1	1
V2483 L7+50N 2+75E	4	3	7	25	.2	2	1	10	.27	2	5	ND	1	8	1	2	2	24	.11	.028	2	14	.04	10	.08	3	.56	.02	.07	1	1
V2483 L7+50N 3+00E	4	1	10	11	.1	1	1	21	.28	2	5	ND	1	12	1	2	2	41	.21	.015	2	6	.03	8	.16	3	.66	.02	.01	1	1
V2483 L7+50N 3+25E	1	4	5	15	.1	3	1	93	1.07	2	5	ND	1	12	1	2	2	93	.19	.008	3	18	.07	6	.20	2	.61	.01	.03	1	4
V2483 L7+50N 3+50E	1	4	7	23	.2	2	1	89	1.06	2	5	ND	1	15	1	2	2	92	.22	.011	3	17	.08	7	.19	2	.59	.02	.06	1	6
V2483 L7+00N 1+10W	3	77	15	151	.4	14	22	1698	4.70	192	5	ND	1	56	2	2	2	114	2.75	.080	8	32	.34	7	.06	10	1.19	.01	.04	1	89
V2483 L7+00N 1+00W	2	22	31	363	.3	16	24	1335	3.33	206	5	ND	1	12	5	2	2	186	2.78	.063	11	42	.10	6	.06	11	.91	.01	.01	1	47
STD C/AU-S	19	62	39	130	7.1	71	30	1070	4.09	43	17	8	40	52	19	17	20	59	.50	.089	41	61	.87	179	.07	34	1.89	.07	.15	14	51

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
V2483 L7+00N 0+75W	3	4	7	60	.3	2	3	608	4.73	37	5	ND	1	10	1	2	2	331	3.68	.043	4	62	.03	3	.19	4	1.36	.01	.02	1	15
V2483 L7+00N 0+50W	3	22	5	35	.5	4	4	135	8.90	18	6	ND	2	23	1	2	2	226	.52	.029	4	37	.13	10	.39	7	1.95	.03	.03	1	2
V2483 L7+00N 0+25W	2	11	6	25	.3	5	3	115	3.66	8	5	ND	1	25	1	2	2	139	.39	.029	3	27	.19	7	.32	6	1.26	.03	.05	1	1
V2483 L7+00N 0+25E	1	4	3	14	.2	2	1	109	.81	2	5	ND	1	15	1	2	2	59	.28	.016	3	16	.09	7	.15	8	.43	.03	.05	1	1
V2483 L7+00N 0+50E	1	4	4	14	.1	3	2	89	.98	2	5	ND	1	25	1	2	2	75	.34	.011	2	15	.15	8	.20	6	.80	.01	.04	1	1
V2483 L7+00N 0+75E	9	55	12	36	.5	8	4	122	4.86	9	5	ND	1	18	1	2	2	161	.26	.029	6	44	.27	20	.24	3	3.12	.02	.03	1	1
V2483 L7+00N 1+00E	6	23	8	31	.5	6	5	109	13.08	8	6	ND	5	10	1	2	2	293	.15	.023	5	62	.18	12	.43	2	4.40	.01	.07	1	1
V2483 L7+00N 1+25E	1	1	2	12	.1	1	1	16	.68	2	5	ND	1	8	1	2	2	43	.15	.008	2	4	.02	7	.07	4	.43	.03	.02	1	1
V2483 L7+00N 1+50E	3	5	9	20	.1	2	2	94	7.53	15	5	ND	2	16	1	2	2	216	.24	.024	4	33	.11	10	.32	2	2.33	.03	.02	1	1
V2483 L7+00N 1+75E	1	4	4	19	.2	2	2	85	2.35	2	5	ND	1	16	1	2	2	90	.27	.022	3	10	.12	10	.19	2	1.10	.02	.07	1	1
V2483 L7+00N 2+00E	2	2	6	29	.1	2	2	64	1.31	2	5	ND	1	27	1	2	2	66	.37	.011	3	4	.13	9	.25	3	.87	.01	.05	1	1
V2483 L7+00N 2+25E	2	2	9	14	.3	1	1	50	2.26	2	5	ND	2	16	1	2	2	90	.25	.009	4	6	.08	8	.17	2	1.22	.02	.07	1	1
V2483 L7+00N 2+50E	1	3	5	15	.1	10	2	82	2.19	2	6	ND	2	11	1	2	2	130	.28	.011	3	39	.24	12	.20	4	1.00	.02	.06	1	46
V2483 L7+00N 2+75E	2	2	9	14	.1	1	1	30	.50	2	5	ND	1	9	1	2	2	62	.12	.025	3	6	.04	10	.11	3	.84	.02	.04	1	1
V2483 L7+00N 3+00E	6	13	6	25	.3	3	3	85	7.50	4	5	ND	3	14	1	2	2	182	.19	.019	3	36	.13	10	.29	4	2.74	.04	.05	1	1
V2483 L7+00N 3+25E	1	2	2	13	.2	1	1	15	.31	2	5	ND	1	5	1	2	2	20	.09	.010	2	3	.02	8	.05	6	.26	.01	.06	1	1
V2483 L7+00N 3+50E	1	2	3	24	.1	5	2	110	2.28	2	5	ND	2	10	1	2	2	94	.23	.015	3	22	.26	9	.19	5	1.64	.03	.06	1	1
V2483 L7+00N 3+75E	1	2	7	16	.2	4	2	72	1.90	2	8	ND	2	11	1	2	2	113	.22	.019	3	12	.15	9	.16	3	.88	.01	.08	1	1
V2483 L7+00N 4+00E	1	1	12	11	.1	2	1	30	.69	2	5	ND	1	7	1	2	2	62	.10	.011	2	10	.07	8	.20	3	1.00	.03	.04	1	1
V2483 L7+00N 4+25E	1	1	2	7	.1	1	1	12	.33	2	5	ND	1	5	1	2	2	18	.07	.010	2	5	.02	4	.03	6	.16	.02	.01	1	4
V2483 L7+00N 4+50E	1	2	4	14	.2	1	1	27	.49	3	6	ND	2	6	1	2	3	25	.09	.017	2	9	.06	6	.05	4	.24	.01	.06	1	1
V2483 L7+00N 4+75E	1	2	2	28	.1	1	1	18	.27	2	5	ND	1	27	1	2	2	10	.08	.019	2	4	.12	28	.02	9	.20	.02	.04	1	1
V2483 L7+00N 5+00E	2	3	7	40	.1	2	1	54	4.84	4	5	ND	1	35	1	2	2	136	.34	.038	3	21	.16	9	.20	4	1.43	.01	.04	1	1
V2483 L7+00N 5+25E	1	2	3	62	.1	1	1	37	.07	2	5	ND	1	93	1	2	2	2	.36	.047	2	1	.30	24	.01	8	.07	.04	.02	1	1
V2483 L4+50N 1+00W	1	6	2	46	.1	1	1	5	.04	2	5	ND	1	75	1	2	2	1	.70	.043	2	1	.23	13	.01	6	.07	.05	.05	1	1
V2483 L4+50N 0+75W	1	5	6	38	.2	3	2	29	.38	3	7	ND	1	83	1	2	2	15	.37	.043	2	9	.16	27	.03	7	.29	.04	.08	1	1
V2483 L4+50N 0+50W	1	31	5	65	.3	11	7	272	3.91	10	5	ND	1	87	1	2	3	88	.65	.078	2	23	.63	45	.18	16	2.65	.06	.05	2	1
V2483 L4+50N 0+25W	3	50	10	60	.6	9	23	654	2.67	234	5	ND	1	22	1	2	2	72	.51	.067	4	22	.17	22	.15	16	1.99	.01	.04	1	335
V2483 L4+50N 0+25E	1	100	2	121	.3	38	14	292	3.25	22	5	ND	1	16	1	2	2	55	.22	.041	5	46	.75	25	.15	6	4.99	.01	.05	1	16
V2483 L4+50N 0+50E	3	13	9	24	.2	4	4	91	10.05	10	6	ND	1	10	1	3	2	289	.19	.015	3	53	.13	7	.47	2	1.50	.01	.03	1	1
V2483 L4+50N 0+75E	2	15	5	32	.2	8	4	121	8.20	18	5	ND	2	10	1	2	2	227	.21	.018	2	87	.21	8	.30	5	3.78	.05	.01	1	1
V2483 L4+50N 1+00E	2	41	2	39	.3	8	4	159	7.12	15	5	ND	1	19	1	3	2	153	.31	.026	3	49	.28	14	.31	9	3.87	.01	.03	1	1
V2483 L4+50N 1+25E	2	18	5	34	.1	7	4	212	5.98	13	5	ND	1	16	1	2	2	180	.34	.019	2	41	.30	15	.31	5	4.46	.02	.02	1	3
V2483 L4+50N 1+50E	1	3	6	16	.2	5	3	102	1.10	2	5	ND	1	10	1	3	3	105	.28	.012	2	30	.12	3	.25	11	.37	.05	.04	1	2
V2483 L4+50N 1+75E	3	4	12	23	.1	5	2	85	2.47	2	5	ND	1	13	1	2	2	207	.22	.017	2	19	.13	9	.42	4	.76	.01	.02	1	11
V2483 L4+50N 2+00E	11	50	10	39	.1	7	4	115	9.26	10	5	ND	1	15	1	2	2	228	.26	.037	2	91	.25	7	.62	4	3.99	.01	.01	1	1
STD C/AU-S	20	62	39	132	7.1	72	30	1079	4.15	43	21	7	39	53	20	15	19	60	.51	.091	42	61	.87	181	.07	34	1.90	.07	.14	14	53

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
V2483 L4+50N 2+25E	1	7	6	19	.4	5	3	46	1.16	2	5	ND	2	8	1	2	2	58	.16	.020	3	17	.11	7	.11	5	.58	.01	.07	2	3
V2483 L4+50N 2+50E	1	3	3	36	.3	1	1	19	.54	2	6	ND	1	11	1	2	2	27	.09	.022	2	3	.05	8	.05	8	.26	.03	.09	2	1
V2483 L4+50N 2+75E	1	1	7	15	.1	1	1	54	.39	2	6	ND	1	9	1	2	2	60	.15	.005	3	4	.03	6	.14	3	.69	.03	.04	1	1
V2483 L4+50N 3+00E	1	2	2	19	.2	1	1	39	1.16	2	5	ND	2	8	1	2	2	46	.16	.012	2	4	.05	3	.06	6	.18	.03	.08	1	1
V2483 L4+50N 3+25E	1	3	6	15	.6	1	2	33	.99	2	5	ND	3	12	1	2	2	69	.15	.011	3	3	.06	8	.13	4	.69	.01	.13	2	1
V2483 L4+50N 3+50E	1	8	7	23	.1	1	2	75	1.02	2	7	ND	1	22	1	2	2	41	.20	.019	2	2	.16	12	.09	6	.58	.01	.07	1	1
V2483 L4+50N 3+75E	2	9	9	22	.1	1	1	39	.76	2	5	ND	1	10	1	2	2	50	.13	.023	5	11	.05	12	.11	2	1.58	.03	.06	1	1
V2483 L4+50N 4+00E	1	8	6	23	.1	3	1	53	1.21	3	5	ND	1	10	1	2	2	52	.15	.025	3	11	.07	10	.09	10	.72	.01	.05	2	1
V2483 L3+50N 0+25E	1	1	8	30	.2	4	1	211	.74	3	8	ND	1	26	1	4	2	63	.46	.016	3	13	.08	9	.15	12	.51	.02	.05	1	12
V2483 L3+50N 0+50E	1	4	6	19	.1	16	3	132	3.53	25	5	ND	1	17	1	2	2	144	.30	.013	2	76	.34	13	.30	3	1.08	.01	.04	1	1
V2483 L3+50N 0+75E	2	13	11	29	.2	4	3	122	5.61	8	5	ND	2	13	1	2	2	206	.28	.015	3	37	.21	12	.38	2	2.79	.01	.06	1	2
V2483 L3+50N 1+00E	1	5	8	25	.2	7	3	136	2.93	4	8	ND	1	36	1	2	2	125	.34	.027	2	38	.26	13	.26	5	.76	.01	.08	1	1
V2483 L3+50N 1+25E	1	12	6	56	.4	14	7	410	5.80	2	7	ND	1	14	1	2	2	199	.30	.037	2	75	.36	9	.22	3	1.26	.01	.04	1	1
V2483 L3+50N 1+75E	2	22	10	37	.4	5	3	144	7.67	6	5	ND	3	14	1	2	2	239	.25	.026	4	57	.14	7	.46	2	2.53	.01	.04	2	6
V2483 L3+50N 2+00E	1	13	8	44	.2	7	4	217	2.91	2	5	ND	2	15	1	2	2	97	.33	.032	2	25	.23	11	.15	5	1.03	.01	.08	1	1
V2483 L3+50N 2+25E	2	24	9	43	.2	9	3	155	7.19	7	7	ND	2	15	1	2	2	239	.27	.019	3	67	.12	6	.55	2	2.07	.02	.03	1	3
V2483 L3+50N 2+50E	3	7	8	54	.1	2	2	79	6.23	2	5	ND	2	19	1	2	2	180	.29	.029	3	29	.12	15	.28	3	2.07	.01	.04	1	1
V2483 L3+50N 2+75E	2	17	10	60	.2	11	4	247	3.72	6	7	ND	2	16	1	2	2	116	.32	.028	3	34	.21	28	.20	3	1.74	.01	.05	1	1
V2483 L3+50N 3+00E	1	6	10	11	.5	6	2	69	1.58	2	5	ND	3	11	1	3	2	158	.24	.010	3	25	.05	3	.33	3	.37	.03	.08	1	72
V2483 L3+50N 3+25E	1	7	6	19	.1	9	2	87	1.11	2	5	ND	1	9	1	2	2	43	.30	.016	2	66	.17	4	.05	3	.30	.02	.05	1	1
V2483 L3+50N 3+50E	1	4	4	27	.1	5	2	73	1.80	2	5	ND	1	12	1	2	2	77	.22	.009	2	93	.06	5	.06	4	.31	.04	.04	1	36
V2483 L3+50N 3+75E	1	3	5	9	.2	7	2	75	.73	2	6	ND	3	9	1	3	2	33	.23	.009	2	63	.13	3	.05	4	.23	.01	.07	1	1
V2483 L3+50N 4+00E	2	8	11	36	.1	5	1	73	2.36	2	7	ND	1	13	1	2	2	153	.22	.020	4	25	.06	9	.31	3	.90	.01	.04	1	2
V2483 L2+50N A1+25W	1	6	10	45	.1	3	1	48	.96	2	5	ND	1	44	1	2	2	58	.78	.038	2	8	.14	29	.10	6	.31	.01	.06	1	1
V2483 L2+50N A1+00W	12	33	4	31	.1	8	4	131	6.34	39	5	ND	3	18	1	2	2	168	.23	.021	5	37	.34	13	.30	7	4.01	.01	.07	1	7
V2483 L2+50N A0+75W	5	7	7	31	.1	4	3	112	4.60	28	5	ND	1	24	1	2	2	152	.31	.018	3	13	.22	16	.28	5	1.57	.01	.04	1	3
V2483 L2+50N A0+50W	2	19	6	32	.1	5	3	112	5.60	2	6	ND	2	22	1	2	2	160	.26	.027	3	32	.20	15	.27	3	2.61	.02	.04	1	93
V2483 L2+50N A0+25W	3	38	3	43	.1	7	5	148	5.32	3	5	ND	2	34	1	2	2	161	.35	.032	3	30	.28	18	.24	2	3.44	.01	.05	1	18
V2483 L2+50N A0+25E	2	13	10	31	.1	4	3	237	4.45	5	5	ND	1	29	1	2	2	139	.44	.032	4	24	.19	12	.32	2	2.47	.01	.03	2	5
V2483 L2+50N A0+50E	2	8	12	22	.1	3	2	127	3.42	8	5	ND	1	21	1	3	2	128	.34	.019	4	17	.08	9	.27	2	1.28	.01	.02	1	32
V2483 L2+50N A0+75E	1	10	10	27	.1	3	2	112	2.71	3	5	ND	1	27	1	2	11	112	.40	.027	3	9	.12	11	.22	3	1.16	.01	.04	1	670
V2483 L2+50N A1+00E	1	3	9	17	.1	3	1	74	2.36	2	5	ND	1	18	1	2	2	146	.27	.014	3	15	.06	7	.31	3	.87	.03	.01	1	4
V2483 L2+50N A1+25E	2	12	10	34	.2	4	3	298	3.28	3	6	ND	1	21	1	2	2	141	.45	.034	3	18	.17	14	.26	3	1.35	.01	.05	1	21
V2483 L2+50N A1+50E	3	9	11	27	.2	5	3	184	3.66	2	5	ND	1	25	1	2	2	227	.61	.026	3	16	.14	9	.37	2	1.33	.01	.05	1	1
V2483 L2+50N A1+75E	3	50	7	45	.2	7	6	655	6.38	24	5	ND	2	18	1	2	2	192	.46	.036	3	40	.23	12	.33	9	3.70	.02	.04	1	1
V2483 L2+50N A2+00E	7	42	4	60	.5	13	7	189	7.37	38	5	ND	6	17	1	2	2	240	.47	.038	8	62	.35	6	.37	4	5.90	.01	.03	1	9
STD C/AU-S	20	62	39	132	7.0	72	31	1082	4.11	41	20	8	40	53	20	17	21	60	.51	.091	41	61	.96	181	.07	34	1.92	.06	.15	12	52

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
V2483 L2+50N A2+25E	6	20	15	47	.9	8	6	234	8.01	25	5	ND	3	13	1	2	2	255	.59	.038	8	31	.12	11	.33	3	2.47	.01	.07	3	2
V2483 L2+50N A2+50E	1	16	3	58	.9	3	3	280	2.61	15	5	ND	3	21	1	2	2	113	1.07	.024	2	10	.10	10	.18	7	.45	.02	.09	1	1
V2483 L2+50N A2+75E	2	7	12	27	.3	3	3	109	7.04	15	5	ND	3	14	1	2	2	223	.33	.016	4	15	.17	9	.46	3	1.37	.01	.05	1	1
V2483 L2+50N A3+00E	2	22	9	46	.5	6	4	126	6.75	35	5	ND	6	14	1	2	2	156	.33	.029	6	66	.24	8	.32	5	4.46	.01	.06	4	24
V2483 L2+50N A3+25E	3	7	6	30	.3	7	4	161	3.18	17	5	ND	3	50	1	3	2	169	.86	.010	3	15	.45	3	.47	5	1.13	.01	.09	1	1
V2483 L2+50N A3+50E	2	70	5	195	.8	26	76	23948	8.09	18	5	ND	3	37	3	2	2	112	1.65	.072	12	31	.06	166	.07	3	9.25	.01	.04	3	1
V2483 L2+50N A3+75E	3	63	6	26	.3	6	8	96	6.88	11	5	ND	2	14	1	3	2	380	.35	.016	2	11	.15	6	.51	2	.89	.02	.04	2	1
V2483 L2+50N A4+00E	1	3	12	33	.1	3	2	184	1.29	2	5	ND	1	29	1	3	2	119	.50	.019	6	11	.08	17	.25	8	.46	.01	.07	2	1
V2483 L2+50N A4+25E	1	3	8	14	.1	2	1	87	.95	2	5	ND	2	9	1	2	2	72	.23	.011	4	14	.06	7	.21	2	.84	.01	.04	1	1
V2483 L2+50N A4+50E	1	5	7	60	.1	7	3	151	.90	2	5	ND	1	23	1	2	2	52	.41	.038	2	20	.14	12	.10	12	.19	.03	.12	1	1
V2483 L2+50N A4+75E	1	9	4	26	.1	4	6	147	3.47	2	6	ND	1	16	1	2	2	185	.46	.015	2	15	.18	5	.35	2	.46	.01	.05	1	1
V2483 L2+50N A5+00E	5	90	10	79	.2	11	22	743	8.99	2	5	ND	1	14	1	2	2	303	.27	.047	6	103	.25	13	.38	2	5.02	.01	.04	1	1
V2483 L2+50N A5+25E	1	3	3	25	.1	1	6	182	7.00	2	6	ND	2	21	1	2	2	374	.29	.010	2	10	.09	6	.32	2	.41	.01	.04	1	1
V2483 L2+50N A5+50E	1	3	4	11	.1	2	2	23	.70	2	5	ND	1	13	1	2	2	49	.15	.022	2	11	.08	1	.09	2	.18	.02	.06	1	1
V2483 L2+00N 0+85W	10	33	57	39	.2	6	4	65	4.54	164	5	ND	4	10	1	2	2	96	.15	.051	6	55	.19	12	.22	2	8.74	.01	.03	1	113
V2483 L2+00N 0+75W	8	19	24	56	.2	5	3	80	11.19	232	5	ND	3	20	1	2	2	189	.20	.034	4	29	.17	24	.28	2	3.06	.01	.05	1	72
V2483 L2+00N 0+50W	2	4	11	26	.1	3	2	98	4.83	2	5	ND	2	25	1	3	2	184	.33	.016	4	19	.17	14	.38	3	1.35	.01	.05	1	94
V2483 L2+00N 0+25W	3	21	10	59	.1	9	5	134	7.51	3	5	ND	2	25	1	2	2	132	.28	.044	5	22	.23	26	.20	5	2.18	.01	.05	1	2
V2483 L2+00N 0+25E	1	10	6	25	.1	4	1	55	1.42	2	5	ND	1	28	1	2	2	47	.24	.021	3	10	.09	22	.09	7	.79	.01	.04	2	1
V2483 L2+00N 0+50E	1	11	9	19	.1	4	2	244	4.65	2	5	ND	3	18	1	2	2	137	.28	.022	5	24	.12	7	.15	2	1.44	.01	.06	1	1
V2483 L2+00N 0+75E	1	9	6	21	.1	2	2	185	4.64	2	5	ND	2	18	1	2	2	140	.27	.022	5	23	.13	7	.16	2	1.49	.02	.06	1	2
V2483 L2+00N 1+00E	1	8	6	56	.1	4	2	91	.94	2	5	ND	1	41	1	2	2	26	.38	.040	2	9	.21	29	.06	4	.45	.01	.06	1	1
V2483 L2+00N 1+25E	2	11	12	23	.1	3	2	97	4.80	2	5	ND	2	14	1	2	2	172	.24	.015	5	23	.15	10	.24	2	2.01	.01	.05	1	75
V2483 L2+00N 1+50E	1	8	9	55	.1	2	2	84	.58	2	5	ND	1	31	1	2	2	22	.54	.060	2	3	.17	14	.04	6	.30	.02	.15	1	1
V2483 L2+00N 1+75E	1	7	9	25	.2	3	2	95	1.48	2	7	ND	2	27	1	2	2	87	.39	.028	3	8	.12	11	.15	3	.86	.01	.06	1	1
V2483 L2+00N 2+00E	2	2	10	22	.1	4	1	78	3.06	2	5	ND	1	17	1	2	2	164	.27	.020	4	15	.11	12	.28	2	1.13	.02	.06	1	3
V2483 L2+00N 2+25E	1	3	9	22	.1	2	1	108	1.07	2	5	ND	1	15	1	2	3	115	.26	.015	3	6	.08	5	.20	3	.64	.01	.02	1	12
V2483 L2+00N 2+50E	1	5	9	16	.1	2	1	111	.84	2	5	ND	1	18	1	2	3	98	.30	.017	3	5	.09	7	.17	2	.57	.01	.05	1	3
V2483 L2+00N 2+75E	2	9	8	27	.1	4	2	246	6.85	2	5	ND	3	13	1	2	2	211	.22	.024	4	26	.13	8	.27	2	2.16	.01	.05	1	19
V2483 L2+00N 3+00E	1	17	11	41	.1	2	2	96	.98	2	5	ND	1	26	1	2	2	49	.41	.042	2	3	.12	13	.09	4	.63	.03	.04	1	1
V2483 L2+00N 3+25E	1	8	7	43	.1	1	2	100	.86	2	5	ND	1	34	1	2	2	64	.34	.023	2	2	.12	12	.12	3	.58	.01	.06	3	1
V2483 L2+00N 3+50E	1	3	8	17	.1	1	2	264	1.80	2	5	ND	1	11	1	2	2	132	.32	.011	3	5	.17	8	.27	3	.71	.01	.04	1	4
V2483 L2+00N 3+75E	1	8	7	41	.1	3	3	332	1.10	2	5	ND	1	9	1	2	2	81	.25	.028	2	4	.21	6	.12	7	.48	.01	.04	2	1
V2483 L2+00N 4+00E	1	10	5	16	.1	2	3	162	1.56	2	5	ND	1	26	1	2	2	106	.38	.011	2	4	.18	6	.21	3	.86	.01	.04	1	2
V2483 L2+00N 4+25E	1	2	11	21	.1	1	1	105	1.85	2	5	ND	1	10	1	2	2	138	.20	.008	4	10	.07	6	.26	2	.98	.02	.02	1	4
V2483 L2+00N 4+50E	1	3	7	15	.1	4	2	184	.92	2	5	ND	1	12	1	2	3	89	.27	.012	2	8	.08	5	.19	3	.56	.02	.03	1	3
STD C/AU-S	20	63	39	133	7.0	74	31	1087	4.31	43	20	7	39	54	20	17	18	60	.52	.092	40	63	.95	183	.07	33	1.80	.07	.13	13	49

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
V2483 L2+00N 4+75E	1	5	6	15	.3	2	2	83	.88	2	5	ND	1	10	1	2	2	77	.18	.013	2	4	.08	5	.13	4	.59	.02	.04	1	2
V2483 L2+00N 5+00E	1	7	10	54	.3	16	5	197	.82	2	5	ND	2	18	1	2	2	30	.40	.034	2	16	.35	17	.07	7	.48	.03	.11	1	1
V2483 L2+00N 5+25E	4	48	6	36	.2	6	5	110	9.69	2	5	ND	4	10	1	2	2	197	.14	.021	3	50	.26	14	.26	5	7.19	.01	.04	1	1
V2483 L2+00N 5+50E	5	58	12	157	.3	12	42	1834	14.20	27	5	ND	4	6	1	2	5	216	.12	.047	6	58	.20	14	.25	6	9.24	.01	.03	1	1
STD C/AU-S	19	61	41	132	7.3	71	30	1049	4.20	39	21	8	40	52	19	18	22	60	.52	.090	40	61	.92	178	.07	33	1.91	.08	.16	11	50

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 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: SOIL AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: MAY 19 1988 DATE REPORT MAILED: May 25/88 ASSAYER. C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING PROJECT-V2483 File # 88-1509 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
L6+00N 0+25W	2	38	12	58	.2	21	19	547	4.75	20	6	ND	3	25	1	2	2	141	.40	.018	5	42	1.05	27	.20	5	2.36	.01	.07	1	1
L6+00N 0+25E	6	56	9	19	.1	6	2	69	1.33	12	5	ND	1	15	1	2	2	90	.22	.019	3	28	.23	9	.23	2	1.84	.01	.01	1	1
L6+00N 0+50E	4	3	7	14	.3	6	2	46	2.15	4	5	ND	2	12	1	2	2	154	.21	.012	2	45	.15	10	.26	2	.64	.03	.05	1	1
L6+00N 0+75E	1	3	5	10	.3	4	3	40	1.10	3	5	ND	3	17	1	2	2	68	.18	.009	3	19	.12	10	.13	2	.62	.01	.06	1	1
L6+00N 1+00E	1	2	9	35	.3	5	2	65	1.56	4	5	ND	2	21	1	2	2	99	.18	.015	3	20	.25	13	.17	3	.89	.02	.10	1	21
L6+00N 1+25E	1	1	4	8	.1	2	1	18	1.69	3	5	ND	3	4	1	2	2	67	.06	.005	2	13	.02	3	.03	6	.14	.02	.04	1	1
L6+00N 1+50E	1	4	5	26	.1	2	3	54	.91	7	5	ND	1	18	1	2	2	46	.24	.027	2	4	.14	10	.06	2	.45	.01	.04	1	1
L6+00N 1+75E	1	1	9	7	.2	1	1	41	.37	5	7	ND	2	6	1	2	2	65	.12	.007	3	3	.03	6	.10	2	.58	.02	.04	1	1
L6+00N 2+00E	3	4	12	20	.2	3	2	72	6.04	7	5	ND	3	11	1	2	2	180	.15	.020	3	28	.13	9	.25	2	3.17	.01	.04	1	8
L6+00N 2+25E	2	4	8	14	.1	1	2	58	6.02	2	5	ND	2	9	1	2	5	202	.13	.015	3	22	.08	7	.24	2	1.72	.01	.02	1	1
L6+00N 2+50E	1	4	6	25	.1	1	1	33	.85	4	5	ND	1	10	1	2	2	46	.14	.025	2	4	.04	11	.05	2	.49	.02	.05	1	1
L6+00N 2+75E	1	1	7	8	.1	1	1	16	.12	3	5	ND	1	6	1	2	2	28	.07	.011	2	2	.02	7	.05	3	.20	.03	.02	1	2
L6+00N 3+00E	1	1	8	12	.1	1	1	30	.34	5	5	ND	1	7	1	2	2	21	.13	.016	2	2	.05	6	.04	2	.20	.01	.03	1	1
L6+00N 3+25E	2	1	12	13	.1	1	1	58	3.47	5	5	ND	2	10	1	2	2	190	.16	.008	3	10	.07	7	.30	2	1.04	.04	.03	1	3
L6+00N 3+50E	3	1	10	18	.2	1	1	34	1.63	2	5	ND	2	11	1	2	2	112	.14	.009	4	9	.06	10	.21	2	.80	.02	.05	1	2
L6+00N 3+75E	1	3	5	64	.1	1	1	20	.11	3	5	ND	1	20	1	2	2	5	.27	.033	2	2	.08	13	.01	3	.10	.02	.09	1	1
L6+00N 4+00E	1	1	5	20	.1	1	1	49	.22	6	5	ND	1	15	1	2	2	17	.22	.018	2	2	.05	8	.04	4	.23	.02	.02	1	1
L5+00N 1+00W	1	4	5	35	.1	1	1	2	.05	3	5	ND	1	63	1	2	2	1	.41	.036	2	2	.22	7	.01	14	.06	.03	.06	1	1
L5+00N 0+75W	1	34	7	55	.1	23	11	352	3.38	12	5	ND	2	32	1	2	2	83	.54	.031	4	40	1.27	32	.24	3	2.65	.01	.09	1	2
L5+00N 0+50W	5	464	12	158	.9	30	68	1415	6.76	238	6	ND	2	26	1	2	4	114	.56	.080	4	48	1.27	37	.15	4	3.53	.01	.03	1	35
L5+00N 0+25W	2	35	8	48	.1	15	6	199	2.51	19	7	ND	2	18	1	2	2	94	.23	.019	5	49	.60	16	.19	2	2.19	.01	.07	1	1
L5+00N 0+25E	4	40	7	36	.1	14	8	266	3.51	13	5	ND	2	17	1	2	2	123	.33	.030	4	37	.57	21	.18	2	2.30	.03	.04	1	1
L5+00N 0+50E	5	55	11	41	.1	17	9	305	5.27	15	5	ND	3	15	1	2	2	135	.22	.013	4	53	.68	22	.30	2	3.57	.01	.04	2	1
L5+00N 0+75E	4	39	8	35	.2	13	6	149	8.44	15	5	ND	4	11	1	2	5	192	.17	.020	4	65	.41	16	.42	2	4.47	.02	.05	1	1
L5+00N 1+00E	3	9	6	22	.1	7	3	117	3.47	5	5	ND	1	15	1	2	2	163	.25	.012	3	26	.34	11	.22	2	1.46	.01	.03	1	1
L5+00N 1+25E	4	29	10	36	.1	6	4	178	8.57	13	5	ND	3	10	1	2	2	214	.16	.032	4	81	.18	9	.41	2	5.32	.01	.03	1	1
L5+00N 1+50E	1	7	6	17	.2	5	3	82	5.22	6	5	ND	3	10	1	2	2	254	.22	.013	2	51	.15	7	.44	2	.87	.01	.06	1	18
L5+00N 1+75E	1	4	4	11	.1	2	1	68	.63	5	5	ND	1	13	1	2	2	64	.24	.013	2	12	.08	4	.14	2	.32	.01	.03	1	2
L5+00N 2+00E	1	1	4	16	.1	1	3	159	.97	4	5	ND	1	14	1	2	2	51	.29	.011	3	3	.31	7	.13	2	.68	.02	.01	1	1
L5+00N 2+25E	3	3	11	20	.1	2	1	52	1.43	2	6	ND	1	14	1	2	2	85	.17	.025	3	5	.06	13	.13	2	.69	.01	.05	1	1
L5+00N 2+50E	2	8	9	18	.1	1	2	76	6.36	2	5	ND	5	8	1	2	2	171	.12	.022	3	25	.14	6	.19	2	5.76	.01	.02	1	1
L5+00N 2+75E	1	1	3	9	.1	1	1	19	.33	2	5	ND	1	7	1	2	2	40	.11	.009	2	2	.03	5	.05	5	.43	.02	.01	1	1
L5+00N 3+00E	1	1	6	8	.1	1	1	58	1.58	2	5	ND	3	12	1	2	2	112	.19	.005	3	10	.04	6	.12	2	.54	.02	.02	1	1
L5+00N 3+25E	4	34	11	22	.1	2	3	71	6.87	6	5	ND	5	9	1	2	2	187	.13	.019	3	49	.16	9	.28	2	5.85	.01	.03	1	1
L5+00N 3+50E	3	8	10	19	.1	1	2	66	7.79	4	6	ND	3	11	1	2	3	271	.13	.014	4	28	.14	9	.36	2	3.40	.02	.02	1	1
L5+00N 3+75E	3	12	11	24	.3	4	3	91	5.53	4	5	ND	5	11	1	2	2	146	.15	.020	4	44	.24	9	.24	2	4.98	.04	.05	1	2
L5+00N 4+00E	4	5	11	19	.1	2	2	71	6.82	8	5	ND	2	9	1	2	2	237	.13	.013	4	22	.10	11	.32	2	2.19	.01	.01	1	1
STD C/AU-S	19	60	37	132	7.0	70	31	1048	4.08	42	14	7	39	52	19	17	20	60	.48	.088	41	60	.96	179	.07	34	1.80	.08	.15	14	52

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
L1+00N 1+00W	1	64	4	255	.5	9	4	4758	.92	11	5	ND	1	808	7	2	2	23	21.45	2.086	2	9	.24	53	.02	6	.72	.10	.05	1	1
L1+00N 0+75W	1	63	5	92	.4	13	11	1006	1.45	5	5	ND	1	187	3	3	2	19	2.78	.226	4	14	.26	136	.02	6	1.78	.01	.01	1	2
L1+00N 0+50W	10	30	7	39	1.1	10	6	188	8.12	27	7	ND	2	28	1	2	2	264	.45	.027	4	57	.33	13	.72	3	2.13	.01	.03	1	1
L1+00N 0+25W	4	16	10	27	.4	4	2	107	2.94	4	5	ND	1	23	1	2	2	138	.38	.027	3	12	.17	19	.29	4	.91	.01	.03	1	2
L1+00N 0+25E	3	8	5	17	.1	3	2	85	2.26	6	5	ND	1	22	1	2	2	127	.31	.011	3	13	.13	13	.22	3	1.04	.01	.02	1	1
L1+00N 0+50E	2	8	5	16	.2	2	2	71	2.26	2	5	ND	2	21	1	2	2	128	.29	.011	4	12	.11	13	.22	4	.95	.01	.03	1	1
L1+00N 0+75E	1	8	6	20	.1	2	1	64	.94	6	5	ND	1	24	1	2	2	48	.26	.014	2	10	.11	15	.10	4	.50	.02	.03	1	1
L1+00N 1+00E	1	8	7	33	.2	3	2	128	1.32	5	5	ND	1	21	1	2	2	65	.38	.029	2	8	.18	19	.12	4	.64	.02	.06	1	1
L1+00N 1+25E	2	6	6	22	.4	3	2	74	2.82	4	5	ND	1	13	1	2	2	121	.22	.017	3	11	.16	9	.18	6	1.29	.01	.03	1	1
L1+00N 1+50E	3	12	5	28	.4	5	2	71	5.96	10	5	ND	2	9	1	2	2	142	.15	.034	3	41	.16	9	.22	4	3.76	.02	.04	2	1
L1+00N 1+75E	1	4	5	15	.1	2	1	53	.93	5	5	ND	1	14	1	2	2	45	.19	.026	2	10	.06	12	.05	12	.32	.02	.02	1	1
L1+00N 2+00E	1	1	2	11	.1	2	1	30	.48	5	5	ND	1	11	1	2	2	56	.15	.008	2	5	.04	3	.11	3	.49	.01	.03	1	1
L1+00N 2+25E	1	4	3	12	.3	2	2	53	1.55	2	5	ND	1	20	1	3	2	83	.22	.013	2	13	.08	10	.13	3	.67	.01	.01	1	1
L1+00N 2+50E	1	10	3	20	.3	4	3	103	3.33	4	5	ND	1	23	1	2	2	149	.25	.022	2	19	.13	9	.13	4	.91	.03	.03	1	1
L1+00N 2+75E	1	5	4	18	.2	5	3	115	2.82	2	5	ND	1	17	1	2	2	154	.21	.017	2	33	.09	9	.07	6	.43	.02	.03	1	1
L1+00N 3+00E	2	37	16	70	.2	16	12	474	3.19	16	5	ND	1	39	1	3	2	88	.50	.066	3	17	.33	38	.15	7	1.34	.01	.03	1	1
L1+00N 3+25E	1	9	4	32	.1	4	4	114	1.45	4	5	ND	1	27	1	2	2	59	.27	.030	2	23	.14	12	.04	4	.50	.01	.04	1	1
L1+00N 3+50E	1	6	11	17	.3	1	1	59	.90	2	5	ND	1	10	1	2	2	73	.13	.024	3	7	.04	13	.09	2	1.00	.01	.04	1	1
L1+00N 3+75E	1	2	5	11	.1	2	2	122	2.89	2	5	ND	1	9	1	2	2	128	.17	.009	3	15	.06	4	.17	2	.75	.01	.01	1	1
L1+00N 4+00E	1	5	12	22	.4	4	3	101	3.07	2	5	ND	1	19	1	2	2	201	.22	.019	2	11	.21	7	.21	2	1.19	.01	.06	1	1
L1+00N 4+25E	1	3	3	16	.2	1	2	126	2.69	2	5	ND	1	17	1	2	2	212	.30	.012	2	6	.08	5	.22	9	.54	.01	.03	1	1
L1+00N 4+50E	1	3	6	18	.1	2	3	125	.79	3	5	ND	1	13	1	2	2	45	.24	.016	2	5	.14	5	.09	6	.46	.01	.03	1	1
L1+00N 4+75E	1	3	7	19	.1	1	1	93	.51	6	5	ND	1	11	1	2	2	41	.21	.013	3	3	.06	8	.09	7	.37	.02	.03	1	1
L1+00N 5+00E	3	11	9	24	.3	3	2	89	8.20	3	5	ND	4	12	1	2	2	226	.19	.023	3	43	.11	8	.25	2	5.51	.01	.03	1	1
L1+00N 5+25E	1	2	11	12	.1	1	1	66	.48	3	5	ND	1	7	1	2	2	70	.08	.020	3	5	.03	7	.15	2	.82	.02	.03	1	1
L1+00N 5+50E	1	9	9	35	.1	2	3	142	.85	2	5	ND	1	18	1	2	2	46	.36	.030	2	2	.18	10	.07	8	.42	.01	.05	1	1
STD C/AU-S	19	62	39	130	7.3	72	30	1062	4.15	42	16	8	40	53	19	17	21	59	.51	.090	41	61	.91	180	.07	34	1.93	.06	.15	13	50

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 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: SOIL AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: MAY 13 1988 DATE REPORT MAILED: May 19/88 ASSAYER C. Leong ...D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

MPH CONSULTING PROJECT-V2483 File # 88-1423 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
3+50N 1+00W	1	4	2	33	.1	1	1	9	.06	3	5	ND	1	33	1	2	4	2	.10	.031	2	2	.25	18	.01	7	.06	.04	.03	2	1
3+50N 0+75W	9	12	11	35	.4	4	3	101	3.43	44	5	ND	1	16	1	2	3	106	.19	.045	4	15	.32	22	.26	6	1.44	.02	.06	2	1
3+50N 0+50W	6	11	10	35	.3	4	5	120	2.82	88	5	ND	1	20	1	2	2	89	.28	.040	3	12	.24	29	.21	6	1.25	.01	.06	2	1
3+50N 0+25W	2	6	13	20	.1	2	3	412	1.36	105	5	ND	1	23	1	2	2	59	.89	.029	2	6	.07	20	.17	108	.64	.01	.02	1	24
BL 10+00N	2	6	9	19	.1	4	2	150	2.06	7	5	ND	1	13	1	2	2	151	.27	.009	2	21	.21	10	.37	5	1.23	.01	.02	2	1
BL 9+75N	1	4	11	24	.1	3	3	96	2.48	6	5	ND	1	19	1	2	6	223	.36	.012	2	20	.19	7	.49	2	1.18	.01	.02	1	1
BL 9+50N	3	13	11	38	.1	5	3	104	2.83	8	5	ND	1	14	1	2	2	177	.26	.049	3	19	.22	11	.40	4	1.14	.02	.05	1	1
BL 9+25N	2	5	4	21	.1	5	3	110	2.11	6	5	ND	1	12	1	2	2	155	.35	.012	3	22	.24	9	.33	2	1.11	.01	.03	1	1
BL 9+00N	2	3	10	18	.1	2	1	70	.93	4	5	ND	1	13	1	2	2	96	.25	.017	3	10	.10	10	.17	2	1.15	.01	.03	1	1
BL 8+75N	3	16	10	23	.1	3	2	93	2.53	23	5	ND	1	14	1	2	2	149	.32	.022	4	19	.17	12	.31	5	2.93	.01	.03	2	9
BL 8+50N	1	6	7	17	.1	3	2	96	3.97	8	5	ND	1	17	1	2	3	216	.34	.011	2	21	.19	5	.29	2	1.14	.01	.02	1	1
BL 8+25N	3	22	6	30	.2	4	4	135	7.59	24	5	ND	2	17	1	2	2	252	.32	.021	2	32	.29	10	.34	4	2.60	.01	.03	1	5
BL 8+00N	1	5	13	18	.1	3	2	82	1.34	9	5	ND	1	22	1	2	2	115	.39	.015	2	14	.15	10	.31	2	1.03	.01	.02	1	18
BL 7+75N	3	68	10	22	.1	4	4	104	6.80	25	5	ND	1	19	1	2	5	299	.35	.023	3	24	.17	8	.70	2	1.72	.01	.03	1	14
BL 7+50N	2	106	7	35	.1	14	7	438	7.40	21	5	ND	2	14	1	2	2	278	.30	.027	5	53	.38	12	.70	2	4.45	.02	.03	1	4
BL 7+25N	1	15	4	17	.1	5	4	123	4.52	8	5	ND	1	12	1	2	2	222	.30	.019	2	35	.20	5	.51	2	1.24	.01	.02	1	2
BL 7+00N	3	29	6	23	.1	7	6	101	9.54	14	5	ND	2	10	1	2	2	403	.24	.043	3	67	.29	5	.84	2	3.12	.01	.03	1	1
BL 6+75N	2	26	2	27	.1	7	4	79	7.14	17	5	ND	2	14	1	2	2	290	.24	.043	3	41	.22	9	.57	4	1.70	.01	.04	1	1
BL 6+50N	6	11	7	22	.1	11	6	160	4.24	17	5	ND	1	14	1	6	2	201	.29	.006	3	54	.39	10	.50	2	1.60	.01	.02	2	5
BL 6+25N	2	6	9	17	.1	7	4	85	2.84	4	5	ND	1	20	1	2	3	167	.29	.009	2	26	.18	5	.24	2	.74	.01	.02	1	1
BL 6+00N	8	55	14	47	.1	14	9	179	3.92	22	5	ND	1	20	1	2	2	242	.32	.020	4	40	.54	24	.49	2	2.95	.01	.03	1	1
BL 5+75N	11	31	6	26	.1	9	4	125	2.17	16	5	ND	1	14	1	2	3	118	.22	.020	4	27	.35	21	.25	2	1.63	.01	.03	1	51
BL 5+50N	2	20	10	21	.1	5	3	100	3.97	10	5	ND	1	11	1	4	2	172	.23	.027	3	29	.19	9	.40	4	1.28	.01	.03	1	2
BL 5+25N	7	28	7	34	.1	11	6	205	4.25	16	5	ND	1	17	1	2	4	162	.29	.028	4	50	.54	18	.33	3	2.98	.01	.03	2	2
BL 4+75N	3	216	7	114	.5	30	43	1151	4.62	89	5	ND	1	26	1	2	2	111	.59	.064	4	49	1.03	37	.22	4	3.49	.02	.05	1	27
BL 4+50N	4	41	12	80	.2	10	46	1219	3.45	137	5	ND	1	16	1	3	2	165	.36	.049	3	26	.23	19	.32	2	1.89	.02	.04	1	5
BL 4+25N	7	141	11	157	1.2	26	122	3737	4.65	1309	5	ND	1	16	1	2	2	75	.51	.103	7	54	.27	36	.14	13	6.95	.01	.03	1	38
BL 4+00N	4	93	12	210	1.0	17	160	6770	6.89	276	5	ND	3	12	1	2	2	94	.30	.080	6	49	.16	28	.17	9	8.95	.01	.02	1	14
BL 3+75N	3	63	12	193	.9	13	117	3759	6.21	227	5	ND	3	13	1	2	2	96	.25	.113	7	39	.11	28	.13	13	8.83	.01	.02	1	8
BL 3+50N	2	12	9	36	.1	4	10	225	4.68	590	5	ND	1	20	1	6	4	128	.36	.037	2	18	.14	12	.32	42	2.94	.01	.02	1	4
BL 3+25N	3	38	11	40	.5	3	7	312	9.02	1441	5	ND	1	24	1	9	9	183	.80	.035	3	13	.12	23	.40	15	1.25	.01	.02	1	33
BL 3+00N	2	14	7	20	.1	4	3	109	4.68	29	5	ND	1	17	1	4	3	162	.21	.021	3	23	.18	16	.33	2	1.34	.01	.02	1	13
BL 2+75N	2	12	7	17	.1	3	3	97	3.91	16	5	ND	2	19	1	2	4	167	.23	.012	4	17	.17	18	.30	2	1.57	.01	.02	1	16
BL 2+50N	2	24	7	33	.1	5	4	120	8.79	25	5	ND	2	11	1	3	2	235	.17	.042	4	43	.21	15	.30	2	3.54	.01	.03	1	9
BL 2+25N	1	13	16	14	.2	4	2	90	3.04	22	5	ND	1	19	1	5	2	206	.25	.023	3	18	.08	11	.31	2	1.05	.01	.02	1	18
BL 2+00N	4	58	10	36	.1	6	4	123	6.81	2	5	ND	3	15	1	8	4	167	.21	.029	5	35	.18	15	.31	2	6.29	.01	.03	1	55
STD C/AU-S	20	62	37	132	7.5	73	31	1092	4.08	43	25	8	40	47	19	20	21	60	.48	.099	40	62	.97	182	.08	35	1.81	.07	.14	15	52

RECEIVED MAY 20 1988

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
BL 1+75N	2	20	6	32	.1	4	4	134	4.85	10	5	ND	1	28	1	2	2	147	.35	.016	5	20	.25	24	.27	6	1.85	.02	.01	1	1
BL 1+50N	4	7	5	24	.1	1	2	99	4.32	7	5	ND	1	21	1	2	4	165	.27	.016	3	15	.10	14	.32	3	1.02	.01	.01	1	2
BL 1-25N	2	34	5	30	.1	7	33	715	4.16	5	5	ND	1	19	1	2	2	100	.23	.032	4	15	.20	23	.17	4	2.09	.03	.02	1	5
BL 1+00N	2	15	5	23	.1	4	3	94	4.37	2	5	ND	2	19	1	2	2	144	.27	.010	2	21	.11	19	.24	4	1.79	.03	.02	1	1

Appendix IV

GEOSTATISTICAL EVALUATION OF

MPH SOIL SAMPLE SURVEYS

PHASES I THROUGH III

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Au* Unit = PPB N = 324

Mean =	9.540	Min =	1.000	1st Quartile =	1.000
Std. Dev. =	20.985	Max =	142.000	Median =	1.000
CV % =	219.965	Skewness =	3.721	3rd Quartile =	6.000

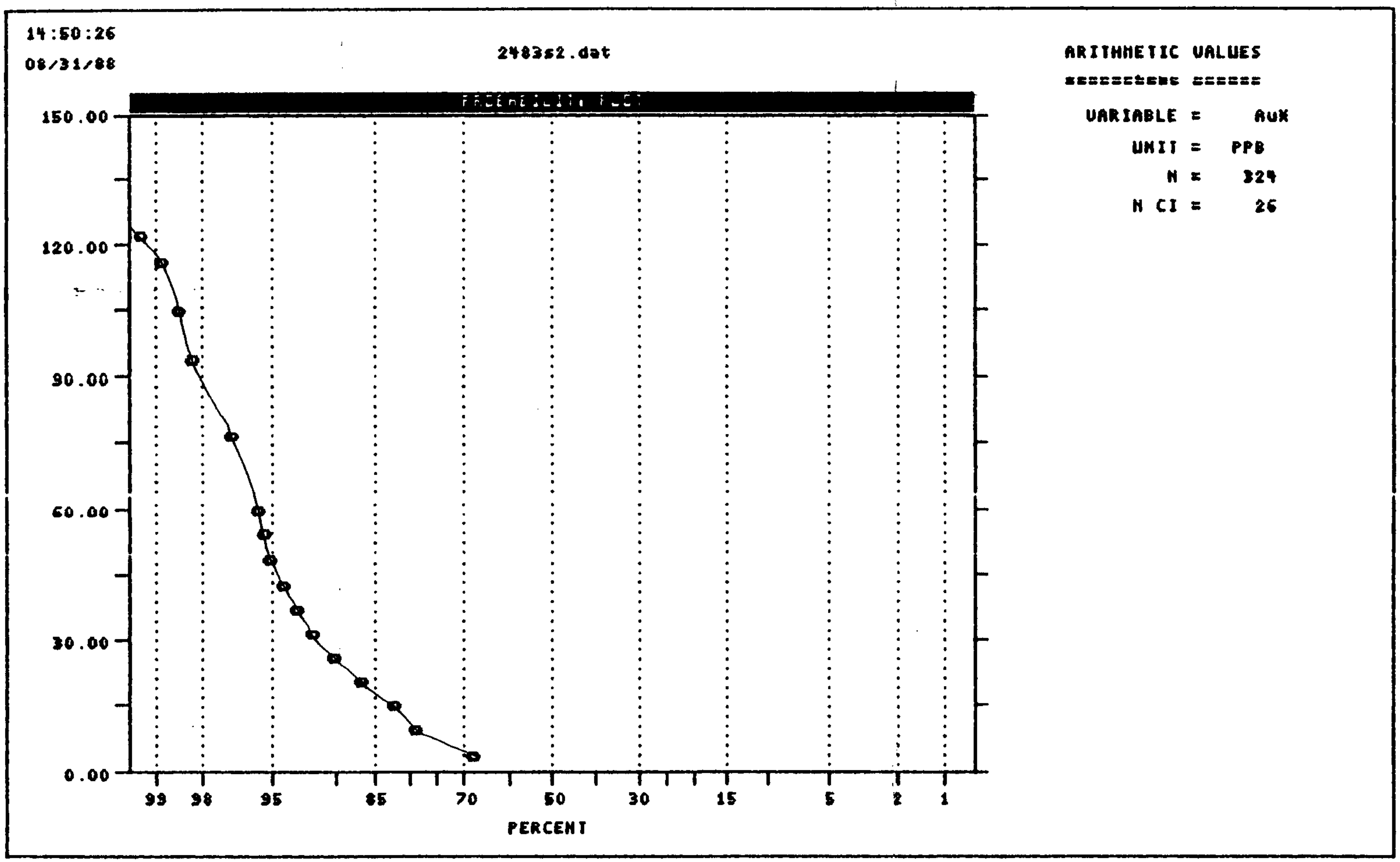
==

%	cum %	cls int	(# of bins = 26 - bin size = 5.640)
0.00	0.15	-1.820	
67.90	67.85	3.820	################################ --) 110
11.11	78.92	9.460	##################
3.70	82.62	15.100	######
4.32	86.92	20.740	#######
3.09	90.00	26.380	#####
2.16	92.15	32.020	####
1.23	93.38	37.660	##
0.93	94.31	43.300	##
0.93	95.23	48.940	##
0.31	95.54	54.580	
0.31	95.85	60.220	
0.00	95.85	65.860	
0.00	95.85	71.500	
1.23	97.08	77.140	##
0.00	97.08	82.780	
0.00	97.08	88.420	
1.23	98.31	94.060	##
0.00	98.31	99.700	
0.31	98.62	105.340	
0.00	98.62	110.980	
0.31	98.92	116.620	
0.31	99.23	122.260	
0.31	99.54	127.900	
0.00	99.54	133.540	
0.00	99.54	139.180	
0.31	99.85	144.820	

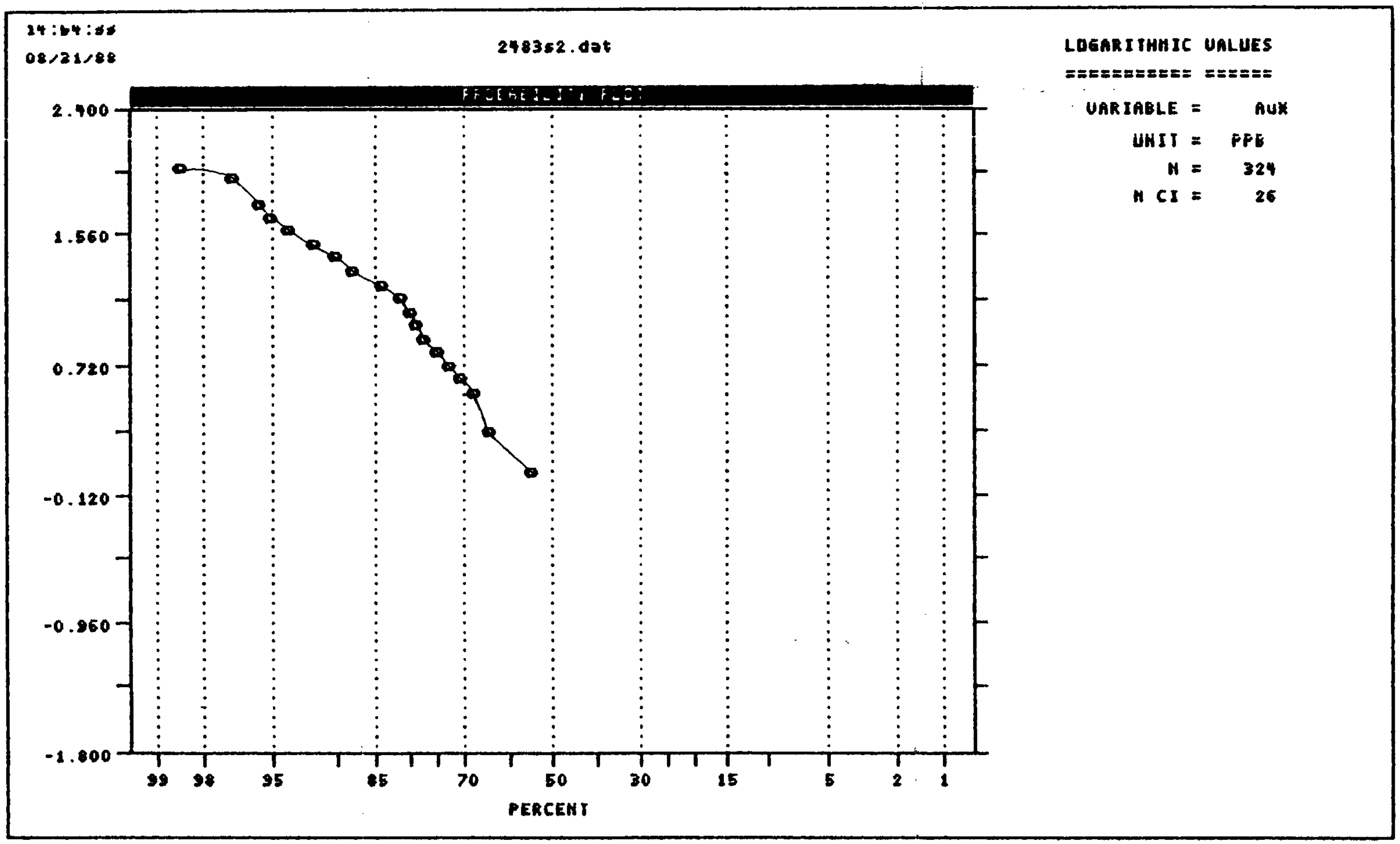
0 1 2 3 4

Each "#" represents approximately 2.0 observations.

##

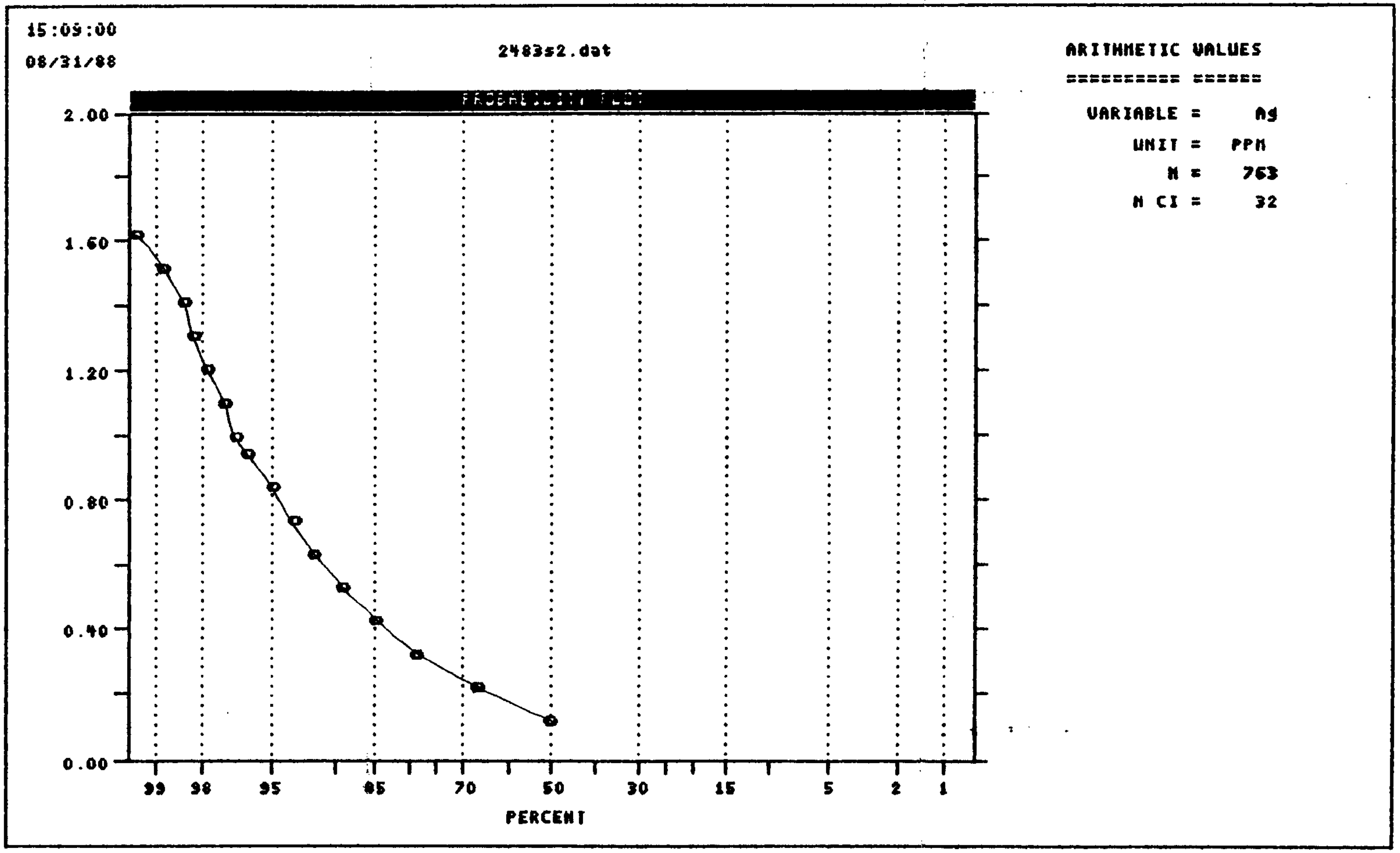

14:50:26
08/31/88
2483s2.dat
ARITHMETIC VALUES
VARIABLE = AuX
UNIT = PPB
N = 324
N CI = 26
150.00
120.00
90.00
60.00
30.00
0.00
99 98 95 85 70 50 30 15 5 2 1
PERCENT

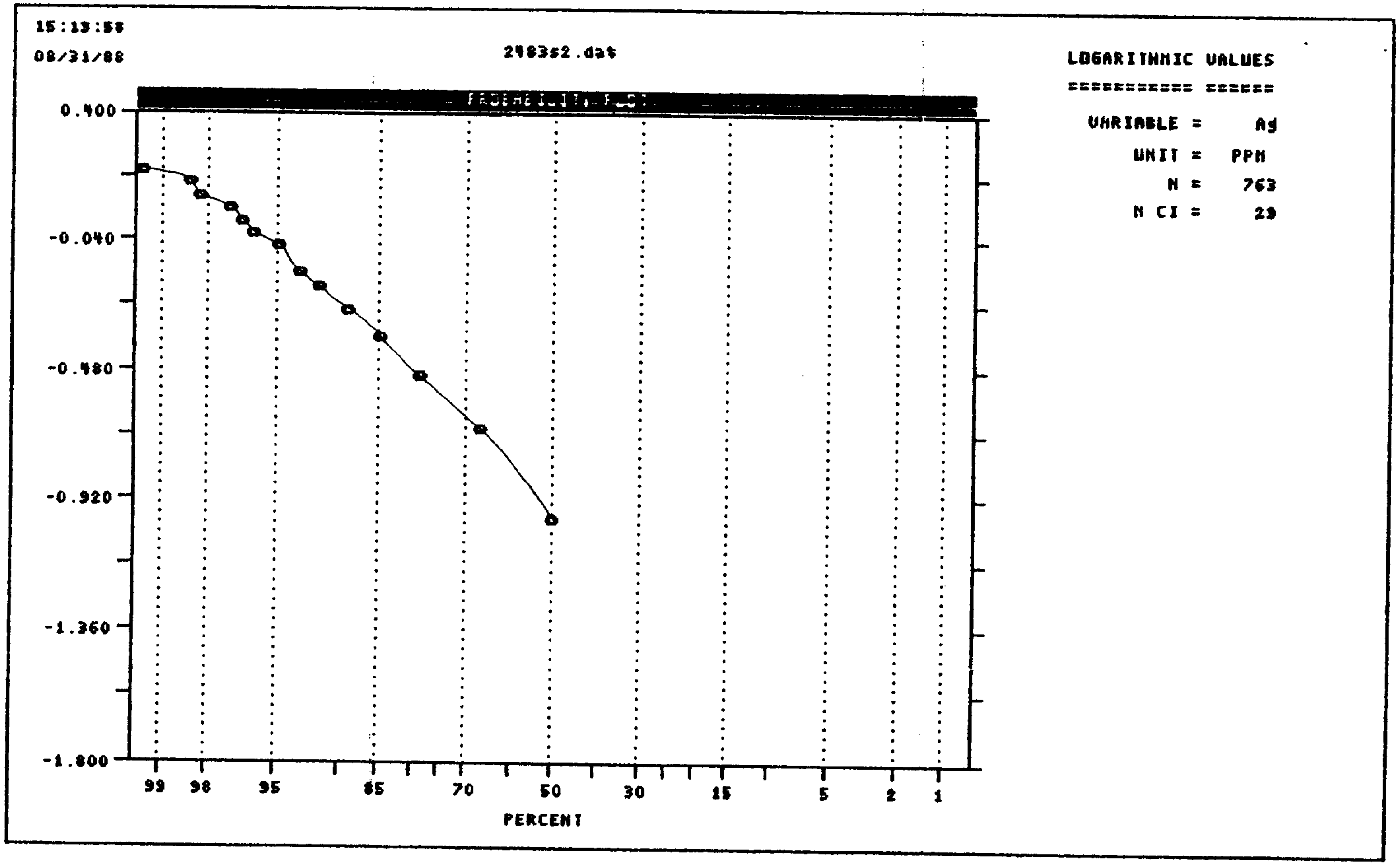
```
14:53:40                          2483s2.dat                          08/31/88

##########################################################################
SUMMARY STATISTICS and HISTOGRAM                          LOGARITHMIC VALUES

 Variable =   Au*           Unit =      PPB                 N =   324

     Mean =    0.4356        Min =    0.0000  1st Quartile =    0.0000
Std. Dev. =    0.6016        Max =    2.1523        Median =    0.0000
     CV % =  138.0966   Skewness =    1.1632  3rd Quartile =    0.7782

        Anti-Log Mean =     2.727     Anti-Log Std. Dev. : (-)    0.682
                                                           (+)   10.896

==========================================================================
 %   cum %   antilog  cls int  (# of bins = 26  -  bin size =    0.0861)
----- -----  -------- -------  -------------------------------------------
 0.00  0.15     0.906 -0.0430
54.94 54.92     1.104  0.0430  ****************************** -->    89
 0.00 54.92     1.346  0.1291
 0.00 54.92     1.641  0.2152
 9.88 64.77     2.001  0.3013  ****************
 0.00 64.77     2.440  0.3874
 0.00 64.77     2.975  0.4735
 3.09 67.85     3.627  0.5596  *****
 3.09 70.92     4.423  0.6457  *****
 2.16 73.08     5.392  0.7318  ****
 2.16 75.23     6.575  0.8179  ****
 2.47 77.69     8.016  0.9040  ****
 1.23 78.92     9.774  0.9901  **
 1.23 80.15    11.916  1.0761  **
 1.54 81.69    14.529  1.1622  **
 2.78 84.46    17.714  1.2483  ****
 3.70 88.15    21.598  1.3344  ******
 1.85 90.00    26.334  1.4205  ***
 2.16 92.15    32.107  1.5066  ****
 1.85 94.00    39.147  1.5927  ***
 1.23 95.23    47.729  1.6788  **
 0.62 95.85    58.194  1.7649  *
 0.00 95.85    70.953  1.8510
 1.23 97.08    86.509  1.9371  **
 1.54 98.62   105.475  2.0232  **
 0.93 99.54   128.600  2.1092  **
 0.31 99.85   156.796  2.1953
--------------------------------------------------------------------------
                                0         1         2         3         4

                     Each "*" represents approximately 2.0 observations.

##########################################################################
```



08/21/88
2483s2.dat
LOGARITHMIC VALUES
=========== ======
VARIABLE = AuX
UNIT = PPB
N = 324
N CI = 26
2.400
1.560
0.720
-0.120
-0.960
-1.800
99 98 95 85 70 50 30 15 5 2 1
PERCENT

```
15:08:03                          2483s2.dat                           08/31/88

################################################################################
SUMMARY STATISTICS and HISTOGRAM                                ARITHMETIC VALUES

 Variable =   Ag             Unit =      PPM             N =   763

     Mean =     0.266        Min =     0.100  1st Quartile =     0.100
Std. Dev. =     0.281        Max =     1.700        Median =     0.100
     CV % =   105.459   Skewness =     2.707  3rd Quartile =     0.300

================================================================================
  %   cum %   cls int           (# of bins = 32  -  bin size =    0.052)
 ----- -----  --------          ----------------------------------------
 0.00  0.07     0.074
50.07 50.07     0.126           ******************************* --> 135
 0.00 50.07     0.177
16.64 66.69     0.229           ******************************* -->  45
 0.00 66.69     0.281
12.06 78.73     0.332           *********************************
 0.00 78.73     0.384
 6.16 84.88     0.435           *****************
 0.00 84.88     0.487
 4.19 89.07     0.539           ***********
 0.00 89.07     0.590
 2.88 91.95     0.642           ********
 0.00 91.95     0.694
 1.57 93.52     0.745           ****
 0.00 93.52     0.797
 1.44 94.96     0.848           ****
 0.00 94.96     0.900
 1.31 96.27     0.952           ****
 0.52 96.79     1.003           *
 0.00 96.79     1.055
 0.52 97.32     1.106           *
 0.00 97.32     1.158
 0.52 97.84     1.210           *
 0.00 97.84     1.261
 0.39 98.23     1.313           *
 0.00 98.23     1.365
 0.26 98.49     1.416           *
 0.00 98.49     1.468
 0.39 98.89     1.519           *
 0.00 98.89     1.571
 0.39 99.28     1.623           *
 0.00 99.28     1.674
 0.66 99.93     1.726           **
--------------------------------------------------------------------------------
                               0         1         2         3         4

                        Each "*" represents approximately 2.8 observations.

################################################################################
```


15:09:00
08/31/88
2483s2.dat
ARITHMETIC VALUES
========== ======
VARIABLE = Ag
UNIT = PPM
N = 763
N CI = 32
2.00
1.60
1.20
0.80
0.40
0.00
99
98
95
85
70
50
30
15
5
2
1
PERCENT



15:13:58
08/31/88
2483s2.dat
LOGARITHMIC VALUES
=========== ======
VARIABLE = Ag
UNIT = PPM
N = 763
N CI = 29
0.400
-0.040
-0.480
-0.920
-1.360
-1.800
99
98
95
85
70
50
30
15
5
2
1
PERCENT

15:43:51 2483m2.dat 08/31/88

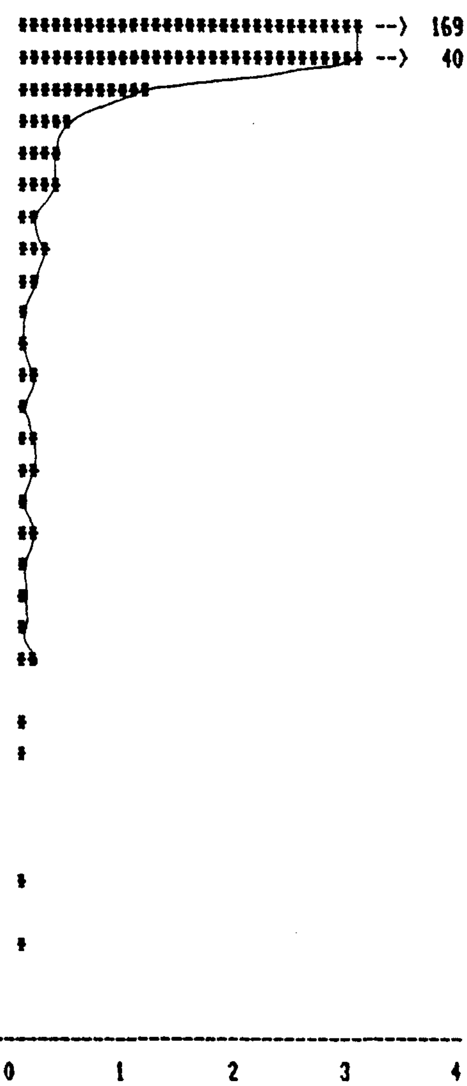
SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = As Unit = PPM N = 751

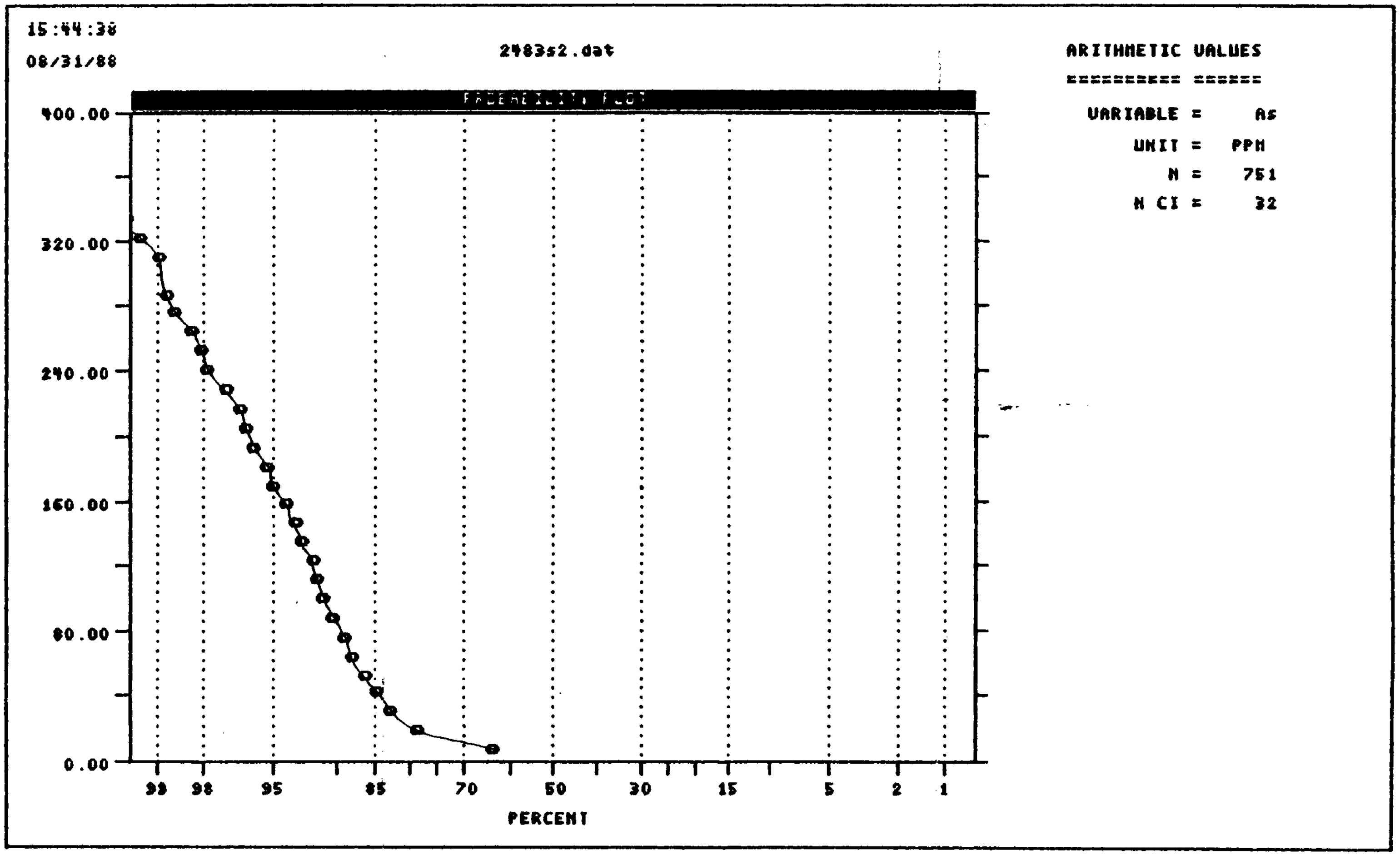
Mean =	27.320	Min =	2.000	1st Quartile =	2.000
Std. Dev. =	59.568	Max =	365.000	Median =	4.000
CV % =	218.041	Skewness =	3.180	3rd Quartile =	15.000

(# of bins = 32 - bin size = 11.710)

%	cum %	cls int
0.00	0.07	-3.855
63.78	63.76	7.855
14.91	78.66	19.565
4.39	83.05	31.274
2.00	85.04	42.984
1.46	86.50	54.694
1.60	88.10	66.403
0.93	89.03	78.113
1.20	90.23	89.823
0.93	91.16	101.532
0.53	91.69	113.242
0.40	92.09	124.952
0.93	93.02	136.661
0.53	93.55	148.371
0.67	94.22	160.081
0.80	95.01	171.790
0.40	95.41	183.500
0.67	96.08	195.210
0.40	96.48	206.919
0.27	96.74	218.629
0.53	97.27	230.339
0.67	97.94	242.048
0.13	98.07	253.758
0.27	98.34	265.468
0.40	98.74	277.177
0.13	98.87	288.887
0.00	98.87	300.597
0.13	99.00	312.306
0.27	99.27	324.016
0.13	99.40	335.726
0.40	99.80	347.435
0.00	99.80	359.145
0.13	99.93	370.855



Each "*" represents approximately 2.8 observations.


15:44:38
08/31/88
2483s2.dat
ARITHMETIC VALUES
========== ======
VARIABLE = As
UNIT = PPM
N = 751
N CI = 32
400.00
320.00
240.00
160.00
80.00
0.00
99 98 95 85 70 50 30 15 5 2 1
PERCENT

15:47:54 2483s2.dat 08/31/88

##

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = As Unit = PPM N = 751

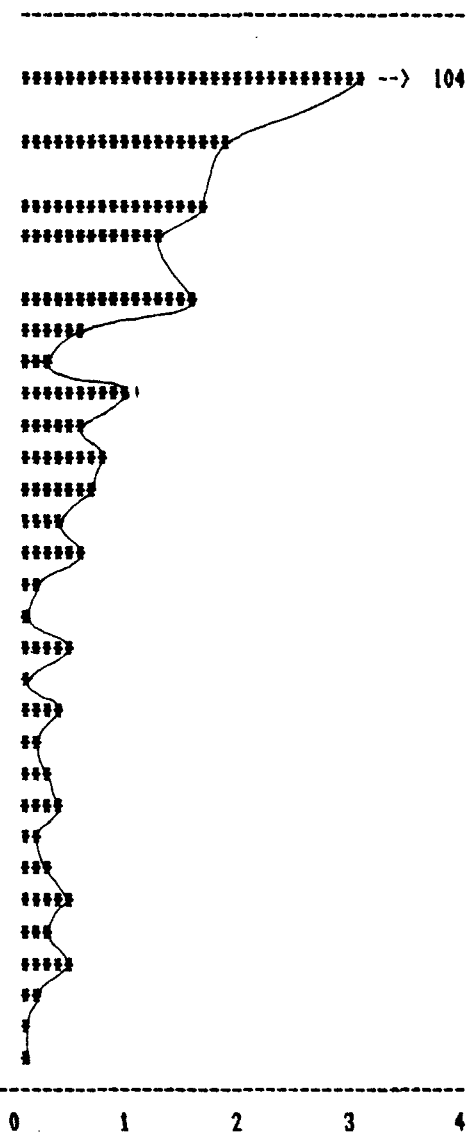
Mean =	0.8391	Min =	0.3010	1st Quartile =	0.3010
Std. Dev. =	0.6376	Max =	2.5623	Median =	0.6021
CV % =	75.9944	Skewness =	1.0924	3rd Quartile =	1.1761

Anti-Log Mean = 6.903 Anti-Log Std. Dev. : (-) 1.590
(+) 29.971

==

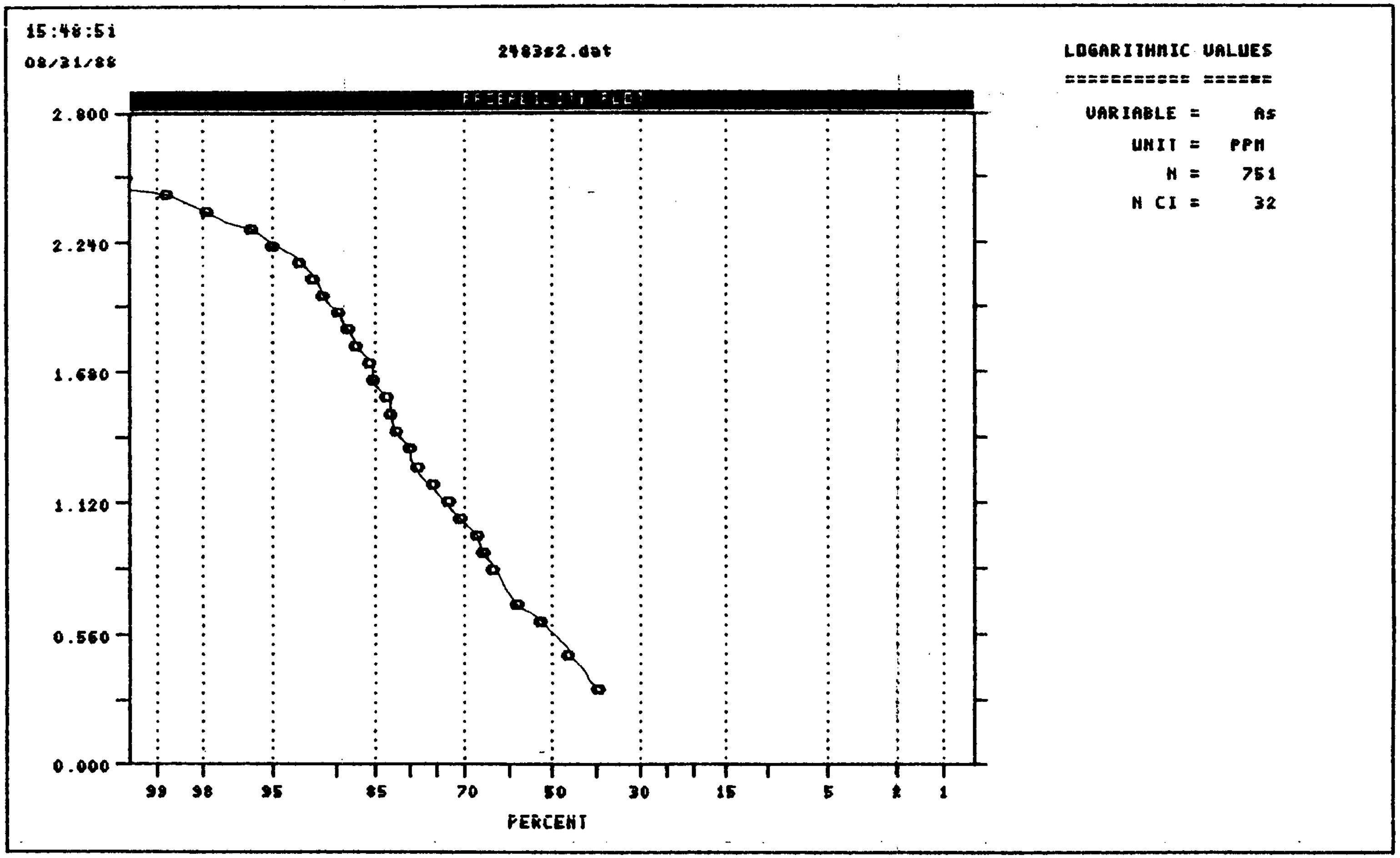
(# of bins = 32 - bin size = 0.0729)

%	cum %	antilog	cls int
0.00	0.07	1.839	0.2646
39.15	39.16	2.175	0.3375
0.00	39.16	2.573	0.4104
7.32	46.48	3.044	0.4834
0.00	46.48	3.600	0.5563
6.39	52.86	4.259	0.6293
5.06	57.91	5.038	0.7022
0.00	57.91	5.959	0.7752
5.86	63.76	7.049	0.8481
2.26	66.02	8.338	0.9211
1.20	67.22	9.863	0.9940
3.60	70.81	11.667	1.0669
2.26	73.07	13.800	1.1399
3.06	76.13	16.324	1.2128
2.53	78.66	19.310	1.2858
1.33	79.99	22.841	1.3587
2.13	82.11	27.019	1.4317
0.93	83.05	31.960	1.5046
0.53	83.58	37.805	1.5775
2.00	85.57	44.719	1.6505
0.53	86.10	52.898	1.7234
1.60	87.70	62.572	1.7964
0.93	88.63	74.016	1.8693
1.07	89.69	87.553	1.9423
1.46	91.16	103.565	2.0152
0.93	92.09	122.506	2.0882
1.20	93.28	144.911	2.1611
1.73	95.01	171.414	2.2340
1.20	96.21	202.763	2.3070
1.73	97.94	239.846	2.3799
0.93	98.87	283.711	2.4529
0.53	99.40	335.599	2.5258
0.53	99.93	396.977	2.5988

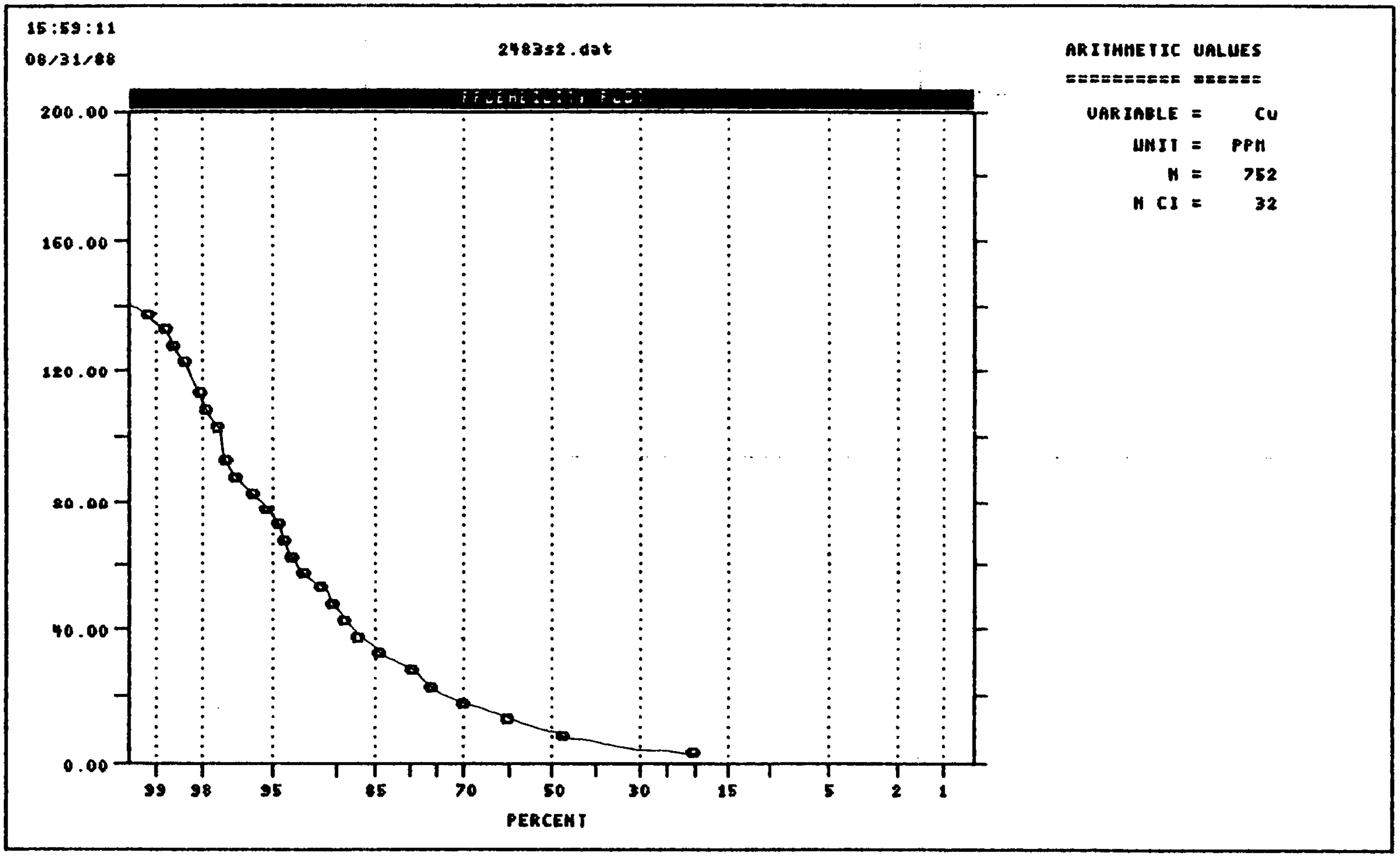


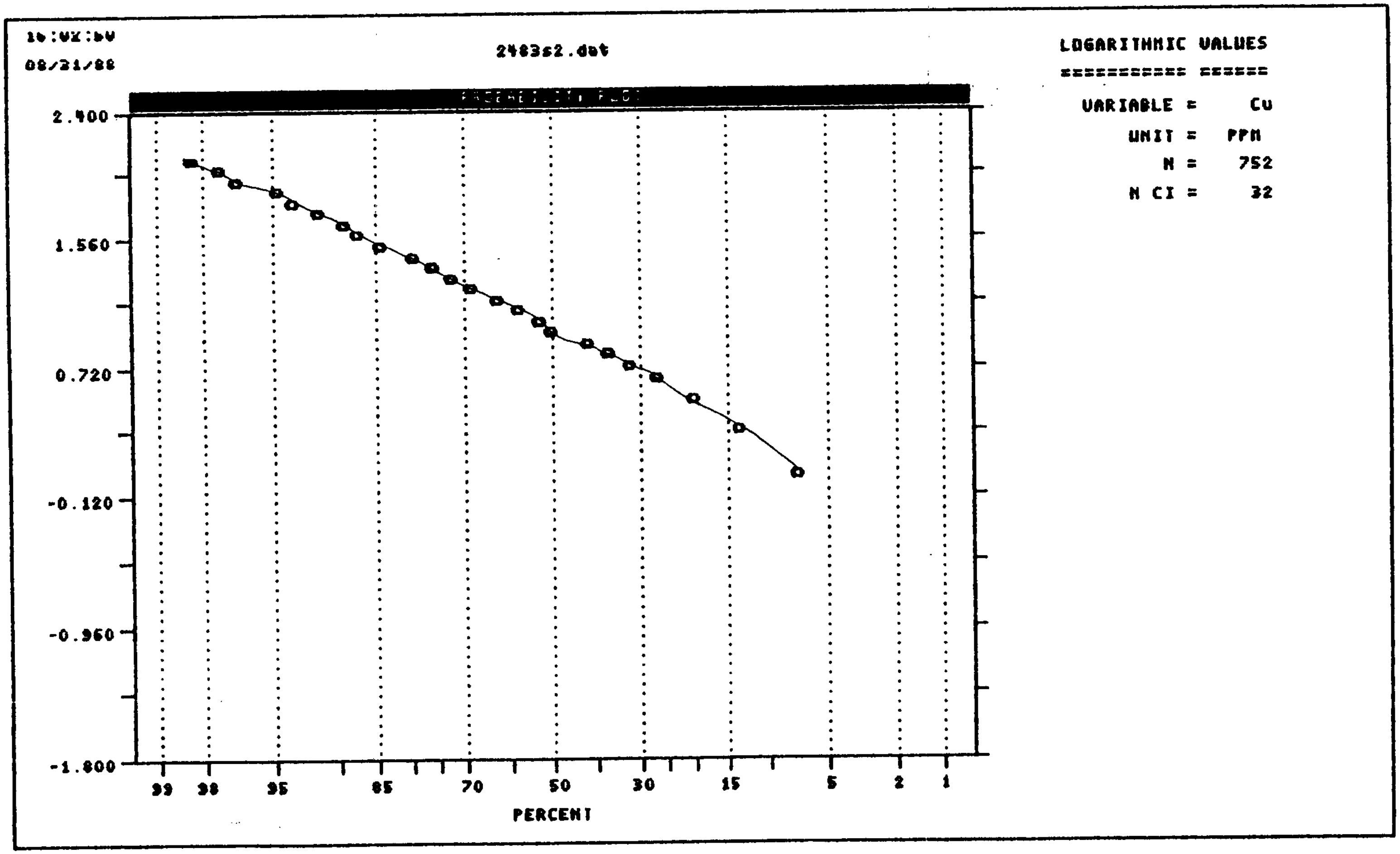
Each "*" represents approximately 2.8 observations.

##


15:48:51
08/31/88
2483s2.dat
LOGARITHMIC VALUES
=========== ======
VARIABLE = As
UNIT = PPM
N = 751
N CI = 32
2.800
2.240
1.680
1.120
0.560
0.000
99 98 95 85 70 50 30 15 5 2 1
PERCENT

```
15:58:41                          2483s2.dat                          08/31/88

##########################################################################
SUMMARY STATISTICS and HISTOGRAM                           ARITHMETIC VALUES

 Variable =   Cu            Unit =      PPM                N =   752

     Mean =    18.960        Min =     1.000  1st Quartile =     4.000
Std. Dev. =    25.341        Max =   156.000        Median =     9.000
     CV % =   133.652   Skewness =     2.730  3rd Quartile =    22.000

==========================================================================
  %   cum %   cls int          (# of bins = 32  -  bin size =     5.000)
----- -----  --------          ----------------------------------------
 0.00  0.07    -1.500
20.35 20.39     3.500          ******************************* -->   54
26.99 47.34     8.500          ******************************* -->   72
13.03 60.36    13.500          ***********************************
 9.44 69.79    18.500          *************************
 6.52 76.29    23.500          *****************
 3.32 79.61    28.500          *********
 5.19 84.79    33.500          **************
 2.79 87.58    38.500          *******
 1.46 89.04    43.500          ****
 1.20 90.24    48.500          ***
 1.20 91.43    53.500          ***
 1.46 92.90    58.500          ****
 0.93 93.82    63.500          **
 0.53 94.36    68.500          *
 0.40 94.75    73.500          *
 0.66 95.42    78.500          **
 0.66 96.08    83.500          **
 0.80 96.88    88.500          **
 0.40 97.28    93.500          *
 0.00 97.28    98.500
 0.27 97.54   103.500          *
 0.40 97.94   108.500          *
 0.13 98.07   113.500
 0.00 98.07   118.500
 0.40 98.47   123.500          *
 0.27 98.74   128.500          *
 0.13 98.87   133.500
 0.27 99.14   138.500          *
 0.40 99.54   143.500          *
 0.00 99.54   148.500
 0.13 99.67   153.500
 0.27 99.93   158.500          *
--------------------------------------------------------------------------
                              0         1         2         3         4

                      Each "*" represents approximately 2.8 observations.

##########################################################################
```


15:59:11
08/31/88
2483s2.dat
ARITHMETIC VALUES
========== ======
VARIABLE = Cu
UNIT = PPM
N = 752
N CI = 32
200.00
160.00
120.00
80.00
40.00
0.00
99 98 95 85 70 50 30 15 5 2 1
PERCENT



08/21/88
2483s2.dat
2.400
1.560
0.720
-0.120
-0.960
-1.800
99
98
95
85
70
50
30
15
5
2
1
PERCENT
LOGARITHMIC VALUES
UARIABLE = Cu
UNIT = PPM
N = 752
N CI = 32

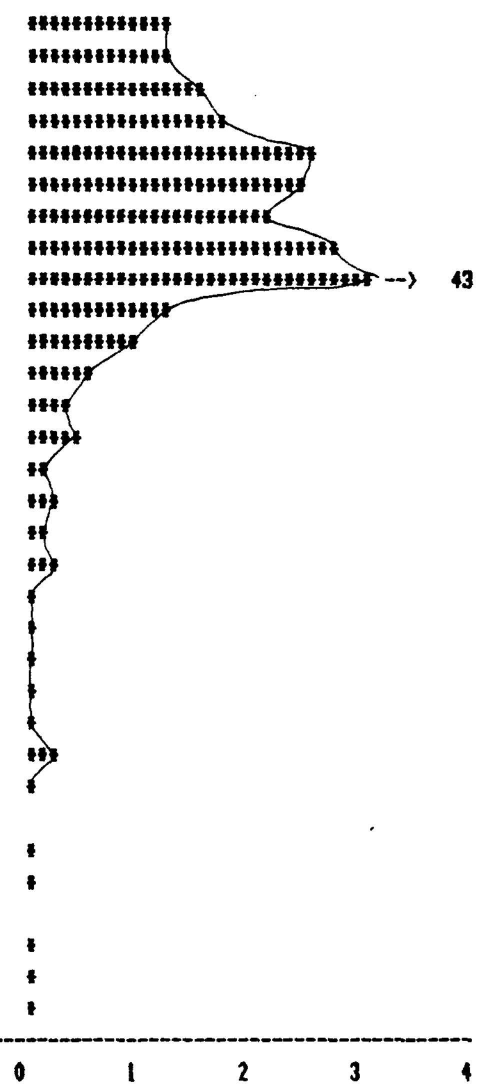
16:10:32 2483s2.dat 08/31/88

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable =	Pb	Unit =	PPM	N =	756
Mean =	9.403	Min =	2.000	1st Quartile =	6.000
Std. Dev. =	5.721	Max =	35.000	Median =	9.000
CV % =	60.843	Skewness =	1.747	3rd Quartile =	11.000

(# of bins = 32 - bin size = 1.065)

%	cum %	cls int
0.00	0.07	1.468
4.76	4.82	2.532
4.89	9.71	3.597
5.95	15.65	4.661
6.75	22.39	5.726
9.79	32.17	6.790
9.52	41.68	7.855
8.33	50.00	8.919
10.58	60.57	9.984
16.14	76.68	11.048
4.89	81.57	12.113
3.57	85.14	13.177
2.38	87.52	14.242
1.46	88.97	15.306
1.98	90.95	16.371
0.79	91.74	17.435
1.19	92.93	18.500
0.66	93.59	19.565
1.19	94.78	20.629
0.40	95.18	21.694
0.40	95.57	22.758
0.40	95.97	23.823
0.53	96.50	24.887
0.26	96.76	25.952
1.06	97.82	27.016
0.40	98.22	28.081
0.13	98.35	29.145
0.40	98.75	30.210
0.26	99.01	31.274
0.00	99.01	32.339
0.40	99.41	33.403
0.26	99.67	34.468
0.26	99.93	35.532

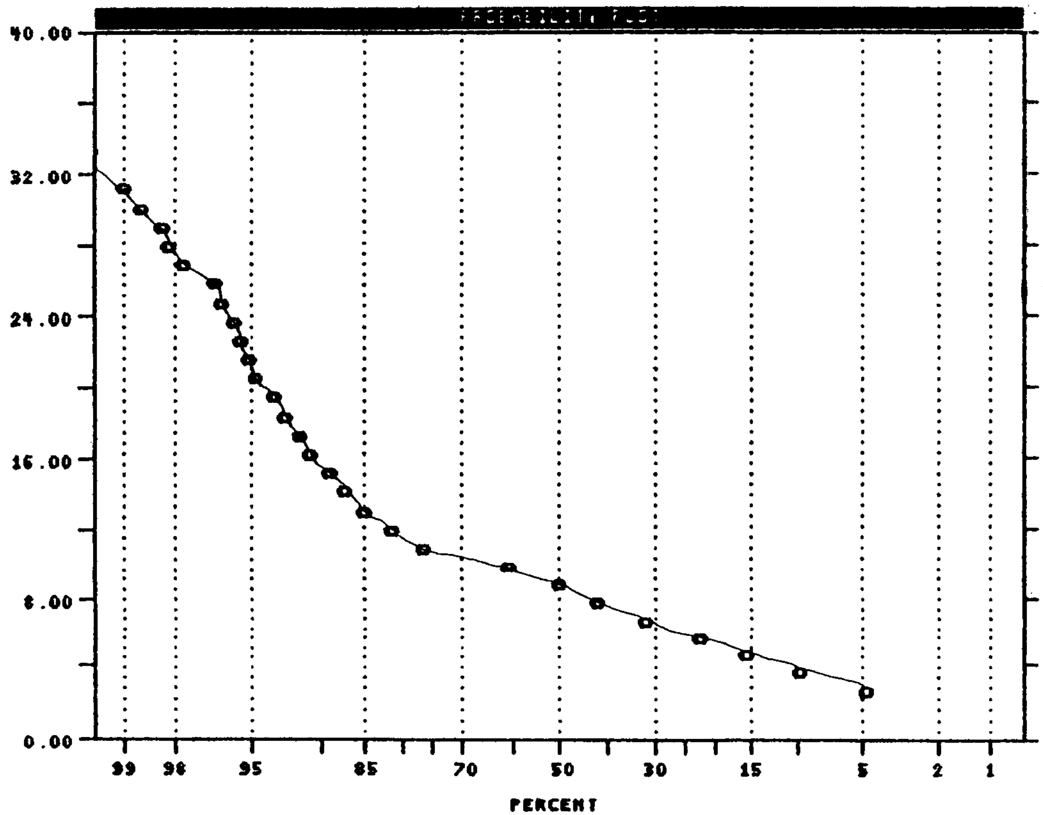


Each "*" represents approximately 2.8 observations.

16:11:14

08/31/86

2483s2.dat



ARITHMETIC VALUES
========== ======

VARIABLE = Pb

UNIT = PPM

N = 756

N CI = 32

16:14:29 2483s2.dat 08/31/88

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

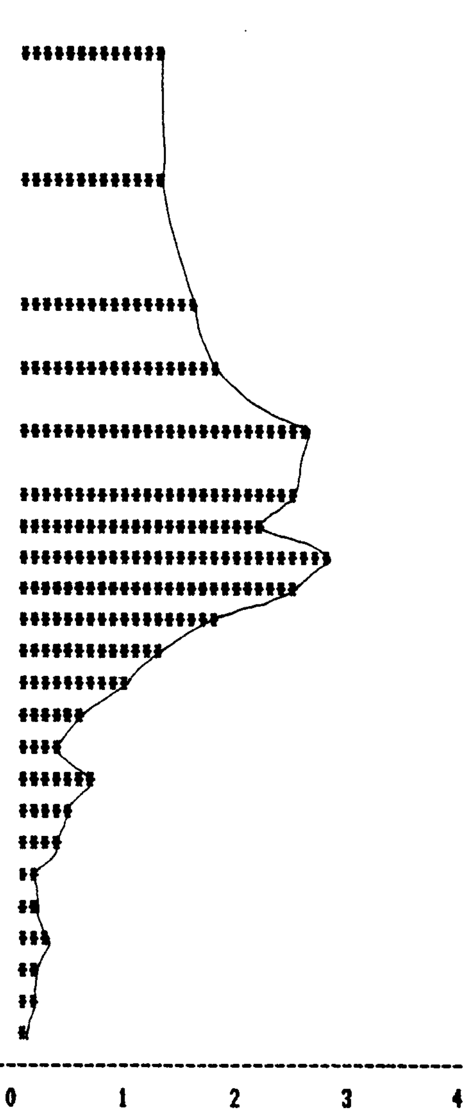
Variable = Pb Unit = PPM N = 756

Mean =	0.9009	Min =	0.3010	1st Quartile =	0.7782
Std. Dev. =	0.2563	Max =	1.5441	Median =	0.9542
CV % =	28.4506	Skewness =	-0.2607	3rd Quartile =	1.0414

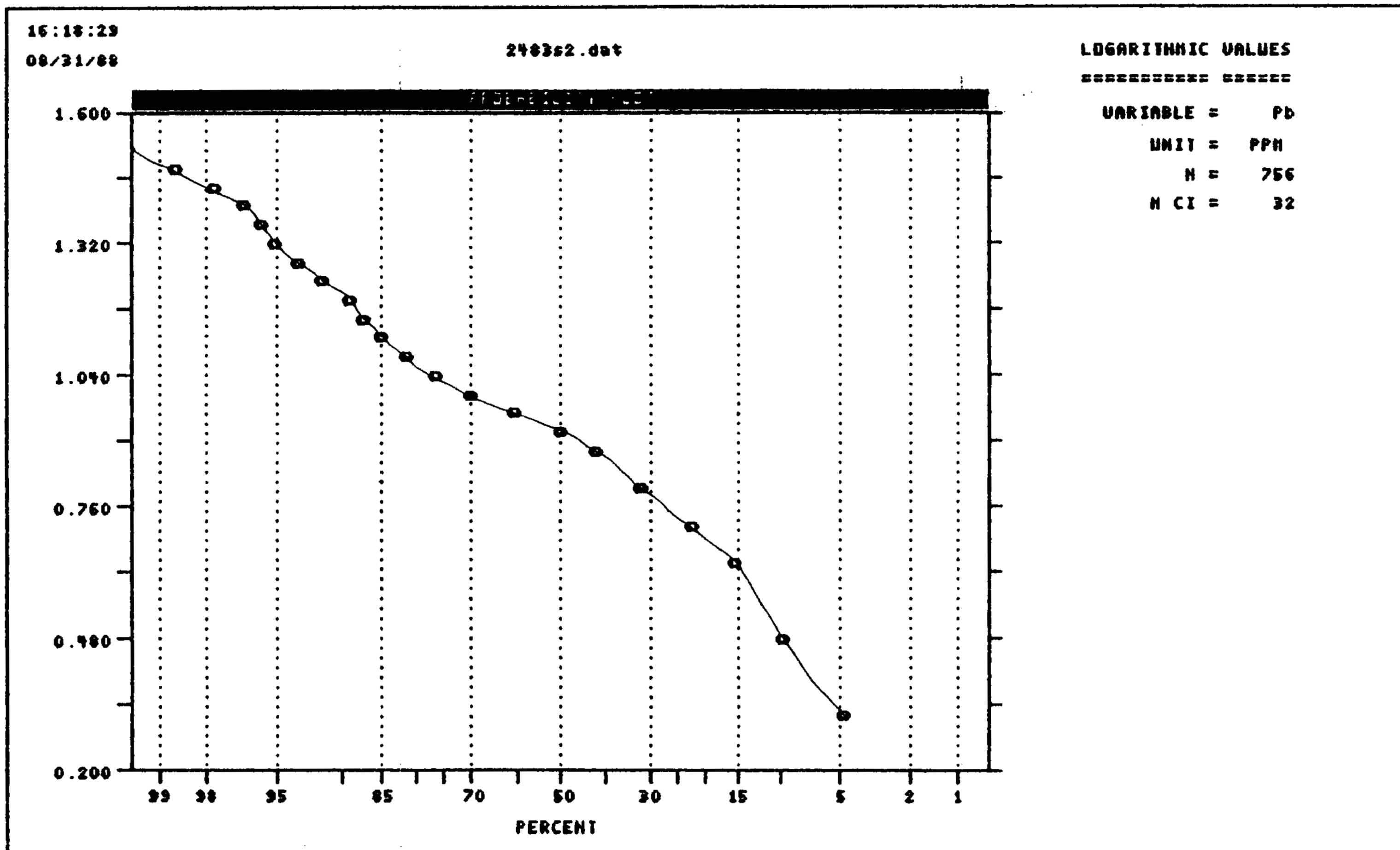
Anti-Log Mean = 7.961 Anti-Log Std. Dev. : (-) 4.412
(+) 14.364

%	cum %	antilog	cls int
0.00	0.07	1.910	0.2810
4.76	4.82	2.094	0.3211
0.00	4.82	2.297	0.3612
0.00	4.82	2.519	0.4013
0.00	4.82	2.763	0.4414
4.89	9.71	3.030	0.4815
0.00	9.71	3.323	0.5216
0.00	9.71	3.645	0.5617
0.00	9.71	3.997	0.6018
5.95	15.65	4.384	0.6419
0.00	15.65	4.808	0.6820
6.75	22.39	5.273	0.7221
0.00	22.39	5.783	0.7622
9.79	32.17	6.342	0.8023
0.00	32.17	6.956	0.8424
9.52	41.68	7.629	0.8825
8.33	50.00	8.367	0.9225
10.58	60.57	9.176	0.9626
9.39	69.95	10.063	1.0027
6.75	76.68	11.037	1.0428
4.89	81.57	12.104	1.0829
3.57	85.14	13.275	1.1230
2.38	87.52	14.559	1.1631
1.46	88.97	15.967	1.2032
2.78	91.74	17.512	1.2433
1.85	93.59	19.206	1.2834
1.59	95.18	21.063	1.3235
0.79	95.97	23.101	1.3636
0.79	96.76	25.335	1.4037
1.06	97.82	27.786	1.4438
0.93	98.75	30.473	1.4839
0.66	99.41	33.421	1.5240
0.53	99.93	36.654	1.5641

(# of bins = 32 - bin size = 0.0401)



Each "#" represents approximately 2.8 observations.


16:18:29
08/31/88
2483s2.dat
LOGARITHMIC VALUES
VARIABLE = Pb
UNIT = PPM
N = 756
N CI = 32
1.600
1.320
1.040
0.760
0.480
0.200
99
98
95
85
70
50
30
15
5
2
1
PERCENT

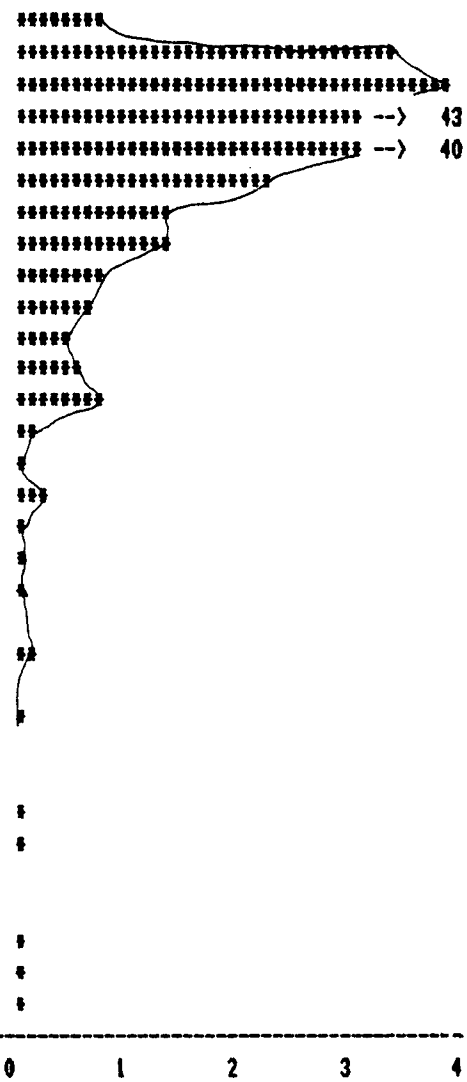
SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Zn Unit = PPM N = 751

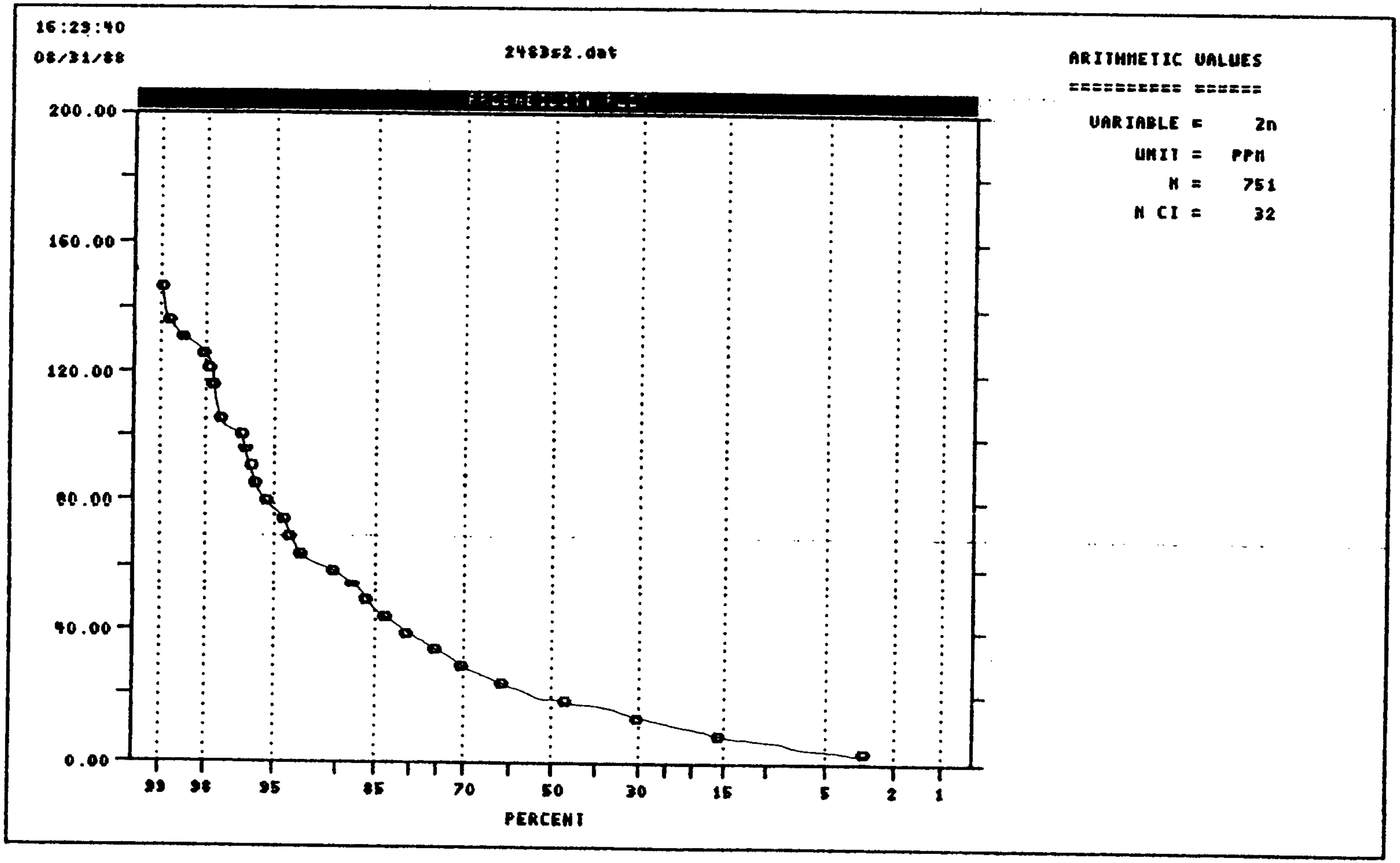
Mean =	27.441	Min =	1.000	1st Quartile =	12.000
Std. Dev. =	25.956	Max =	160.000	Median =	20.000
CV % =	94.588	Skewness =	2.440	3rd Quartile =	34.000

(# of bins = 32 - bin size = 5.129)

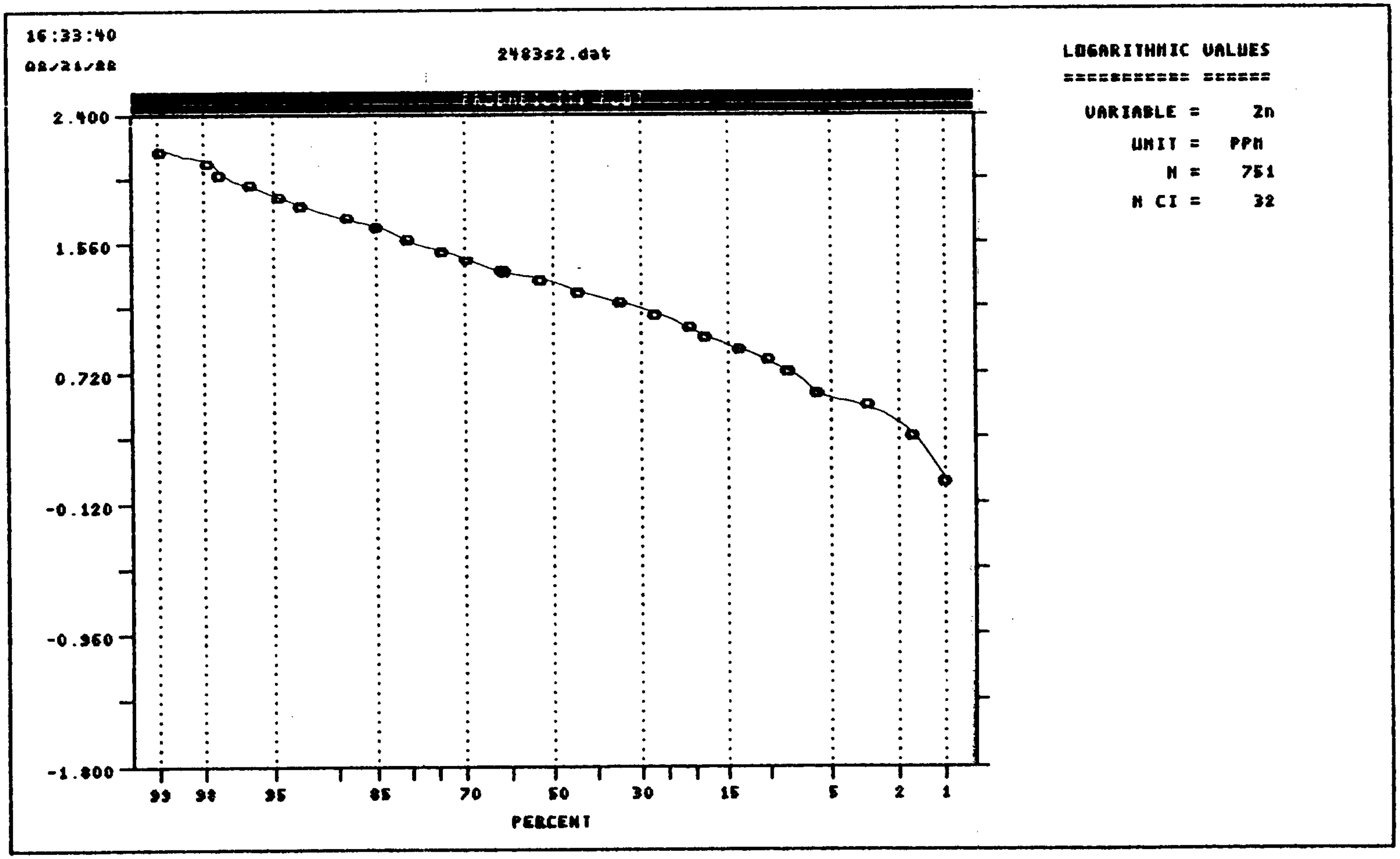
%	cum %	cls int
0.00	0.07	-1.565
3.06	3.13	3.565
12.78	15.89	8.694
14.65	30.52	13.823
16.25	46.74	18.952
14.91	61.64	24.081
8.66	70.28	29.210
5.33	75.60	34.339
5.19	80.78	39.468
3.20	83.98	44.597
2.53	86.50	49.726
1.73	88.23	54.855
2.13	90.36	59.984
2.93	93.28	65.113
0.80	94.08	70.242
0.40	94.48	75.371
1.07	95.55	80.500
0.53	96.08	85.629
0.27	96.34	90.758
0.27	96.61	95.887
0.13	96.74	101.016
0.80	97.54	106.145
0.00	97.54	111.274
0.27	97.81	116.403
0.13	97.94	121.532
0.13	98.07	126.661
0.53	98.60	131.790
0.27	98.87	136.919
0.00	98.87	142.048
0.13	99.00	147.177
0.40	99.40	152.306
0.27	99.67	157.435
0.27	99.93	162.565



Each "*" represents approximately 2.8 observations.


16:29:40
08/31/88
2483s2.dat
ARITHMETIC VALUES
========== ======
VARIABLE = Zn
UNIT = PPM
N = 751
N CI = 32
200.00
160.00
120.00
80.00
40.00
0.00
99
98
95
85
70
50
30
15
5
2
1
PERCENT

```
16:32:56                        2483s2.dat                          08/31/88

############################################################################
SUMMARY STATISTICS and HISTOGRAM                          LOGARITHMIC VALUES

 Variable =  Zn            Unit =     PPM                N =   751

     Mean =    1.2832         Min =   0.0000  1st Quartile =   1.0792
Std. Dev. =    0.3801         Max =   2.2041        Median =   1.3010
     CV % =   29.6183    Skewness =  -0.3234  3rd Quartile =   1.5315

        Anti-Log Mean =     19.195     Anti-Log Std. Dev. : (-)    8.001
                                                            (+)   46.051

============================================================================
  %    cum %   antilog  cls int  (# of bins = 32  -  bin size =   0.0711)
-----  -----  --------  -------  ----------------------------------------
 0.00  0.07     0.921   -0.0356
 0.93  1.00     1.085    0.0356  **
 0.00  1.00     1.278    0.1067
 0.00  1.00     1.506    0.1778
 0.00  1.00     1.774    0.2489
 0.67  1.66     2.089    0.3200  **
 0.00  1.66     2.461    0.3911
 0.00  1.66     2.898    0.4622
 1.46  3.13     3.414    0.5333  ****
 2.80  5.92     4.021    0.6044  *******
 0.00  5.92     4.736    0.6755
 2.40  8.31     5.579    0.7466  ******
 1.86 10.17     6.571    0.8177  *****
 3.33 13.50     7.740    0.8888  *********
 5.06 18.55     9.117    0.9599  **************
 2.26 20.81    10.739    1.0310  ******
 6.66 27.46    12.649    1.1021  *******************
 7.06 34.51    14.899    1.1732  ********************
 9.72 44.22    17.549    1.2443  ***************************
 8.79 52.99    20.671    1.3154  ************************
 8.66 61.64    24.348    1.3865  ************************
 7.86 69.48    28.679    1.4576  **********************
 5.19 74.67    33.780    1.5287  ***************
 6.13 80.78    39.789    1.5998  *****************
 4.39 85.17    46.867    1.6709  *************
 3.60 88.76    55.203    1.7420  **********
 4.53 93.28    65.023    1.8131  *************
 1.46 94.75    76.589    1.8842  ****
 1.60 96.34    90.213    1.9553  ****
 1.20 97.54   106.260    2.0264  ***
 0.40 97.94   125.161    2.0975  *
 1.07 99.00   147.424    2.1686  ***
 0.93 99.93   173.648    2.2397  **
----------------------------------------------------------------------------
                                 0         1         2         3         4

                          Each "*" represents approximately 2.8 observations.

############################################################################
```



16:33:40
2483s2.dat
LOGARITHMIC VALUES
=========== ======
VARIABLE = Zn
UNIT = PPM
N = 751
N CI = 32
2.400
1.560
0.720
-0.120
-0.960
-1.800
99 98 95 85 70 50 30 15 5 2 1
PERCENT

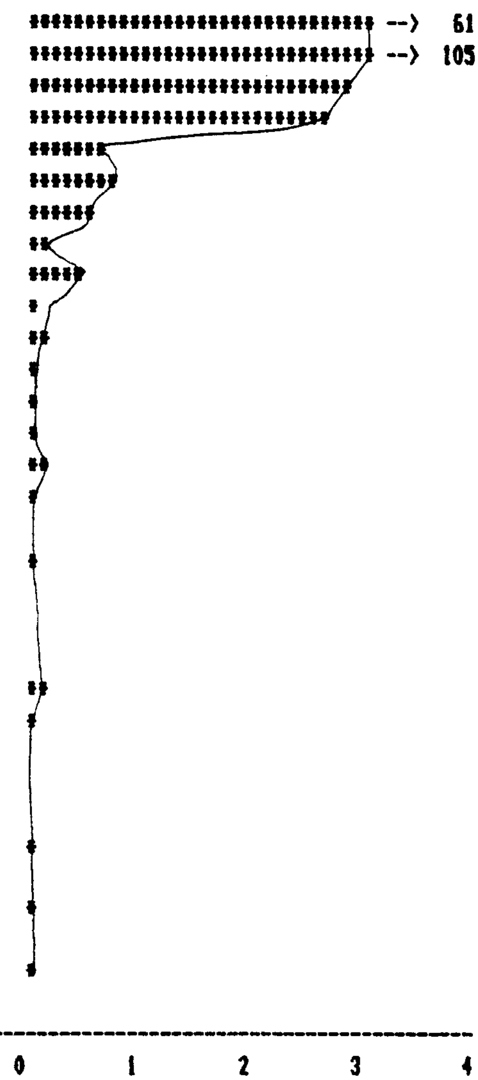
SUMMARY STATISTICS and HISTOGRAM — ARITHMETIC VALUES

Variable = Co   Unit = PPM   N = 756

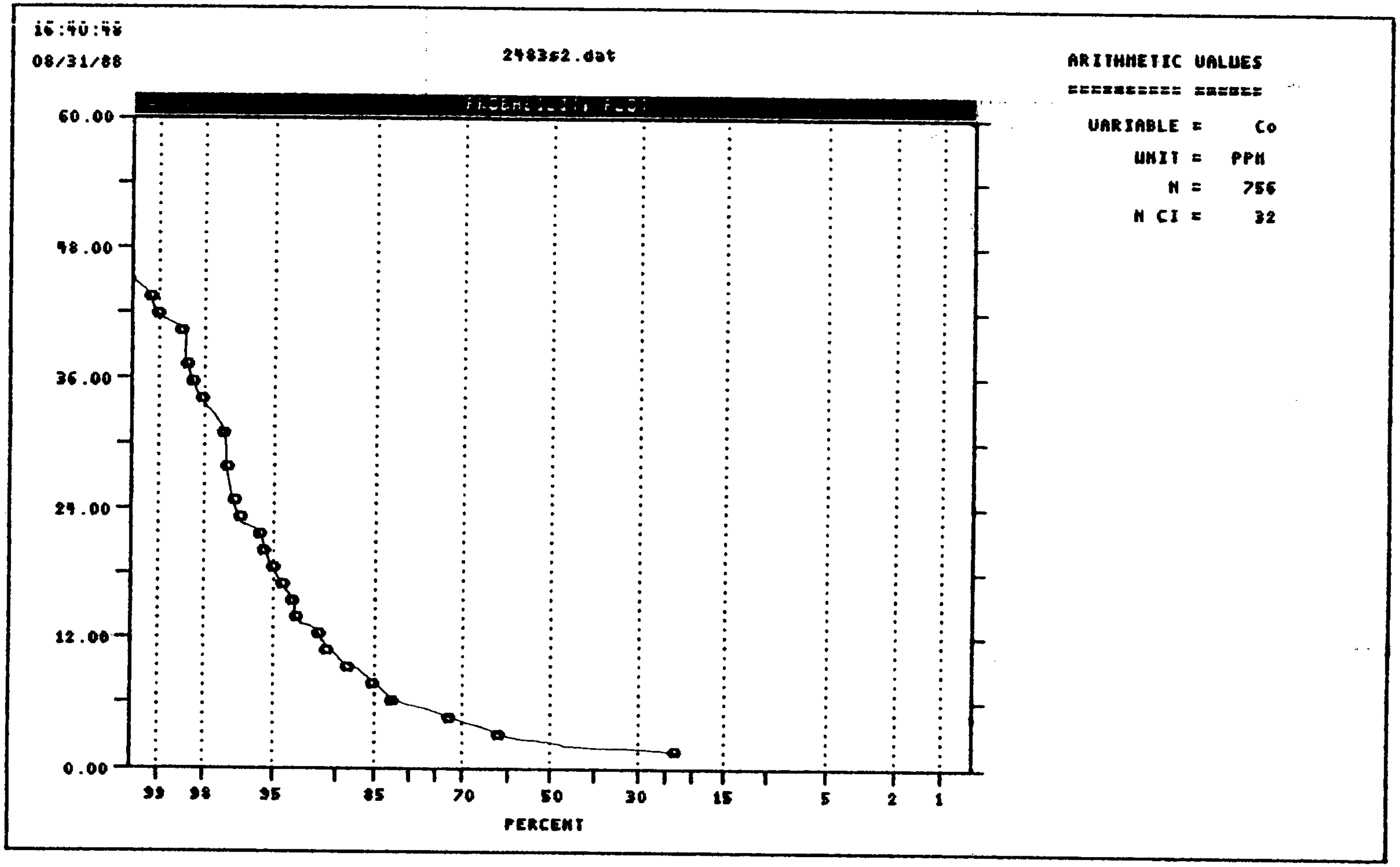
Mean =	5.004	Min =	1.000	1st Quartile =	2.000
Std. Dev. =	7.123	Max =	49.000	Median =	3.000
CV % =	142.355	Skewness =	3.658	3rd Quartile =	5.000

(# of bins = 32 - bin size = 1.548)

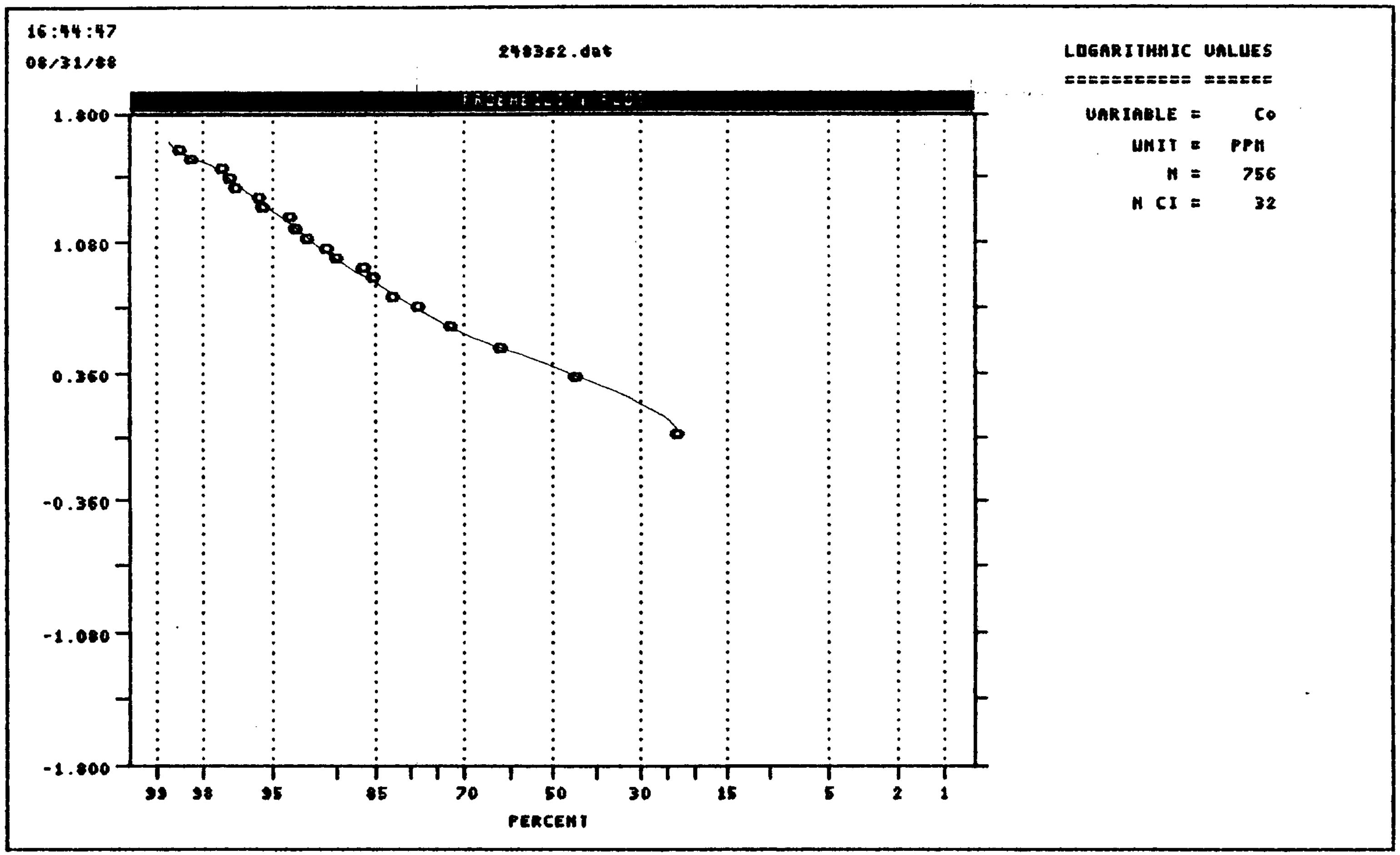
%	cum %	cls int
0.00	0.07	0.226
22.75	22.79	1.774
39.15	61.89	3.323
10.71	72.59	4.871
10.19	82.76	6.419
2.78	85.54	7.968
3.17	88.71	9.516
2.12	90.82	11.065
0.79	91.61	12.613
1.85	93.46	14.161
0.40	93.86	15.710
0.66	94.52	17.258
0.53	95.05	18.806
0.53	95.57	20.355
0.26	95.84	21.903
0.93	96.76	23.452
0.26	97.03	25.000
0.00	97.03	26.548
0.26	97.29	28.097
0.00	97.29	29.645
0.13	97.42	31.194
0.00	97.42	32.742
0.66	98.08	34.290
0.26	98.35	35.839
0.13	98.48	37.387
0.00	98.48	38.935
0.13	98.61	40.484
0.40	99.01	42.032
0.13	99.14	43.581
0.26	99.41	45.129
0.13	99.54	46.677
0.26	99.80	48.226
0.13	99.93	49.774



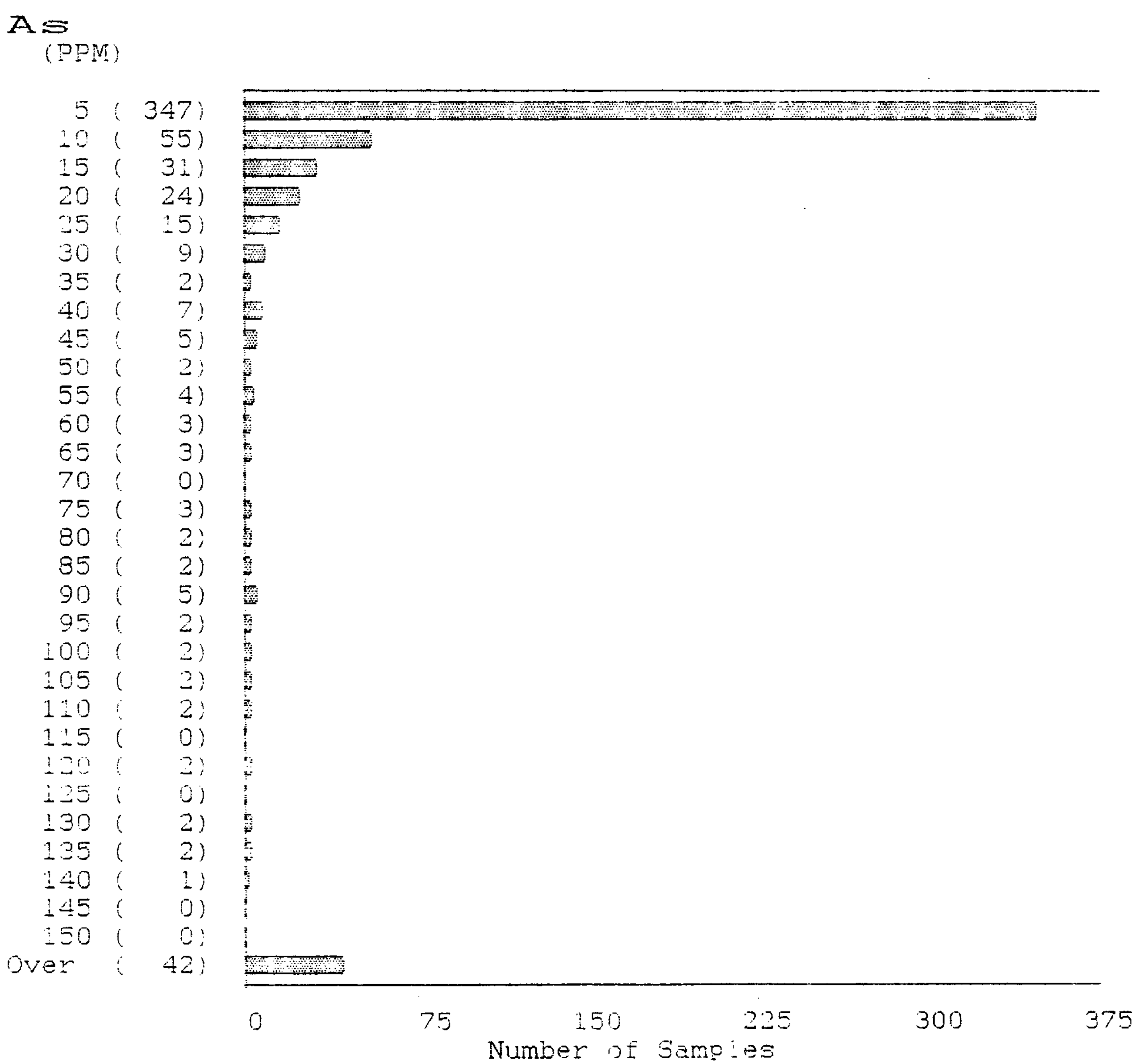
Each "#" represents approximately 2.8 observations.


16:40:48
08/31/88
2483s2.dat
ARITHMETIC VALUES
========== ======
VARIABLE = Co
UNIT = PPM
N = 756
N CI = 32
60.00
48.00
36.00
24.00
12.00
0.00
99 98 95 85 70 50 30 15 5 2 1
PERCENT

```
16:44:03                        2483s2.dat                          08/31/88

############################################################################
SUMMARY STATISTICS and HISTOGRAM                          LOGARITHMIC VALUES

 Variable =   Co            Unit =      PPM               N =   756

     Mean =    0.4831        Min =    0.0000  1st Quartile =    0.3010
Std. Dev. =    0.3914        Max =    1.6902        Median =    0.4771
     CV % =   81.0144   Skewness =    0.7751  3rd Quartile =    0.6990

        Anti-Log Mean =     3.041     Anti-Log Std. Dev. : (-)    1.235
                                                           (+)    7.489

============================================================================
  %   cum %   antilog  cls int  (# of bins = 32  -  bin size =   0.0545)
----- -----  -------- -------  ------------------------------------------
 0.00  0.07     0.939 -0.0273
22.75 22.79     1.065  0.0273  ############################### -->    61
 0.00 22.79     1.207  0.0818
 0.00 22.79     1.369  0.1363
 0.00 22.79     1.552  0.1908
 0.00 22.79     1.759  0.2454
 0.00 22.79     1.995  0.2999
21.83 44.58     2.261  0.3544  ############################### -->    58
 0.00 44.58     2.564  0.4089
 0.00 44.58     2.907  0.4634
17.33 61.89     3.296  0.5180  ############################### -->    46
 0.00 61.89     3.737  0.5725
10.71 72.59     4.237  0.6270  #############################
 0.00 72.59     4.803  0.6815
 6.22 78.80     5.446  0.7361  #################
 3.97 82.76     6.174  0.7906  ###########
 0.00 82.76     7.000  0.8451
 2.78 85.54     7.936  0.8996  #######
 1.32 86.86     8.998  0.9541  ####
 3.04 89.89    10.202  1.0087  ########
 0.93 90.82    11.566  1.0632  ##
 1.85 92.67    13.113  1.1177  #####
 0.79 93.46    14.867  1.1722  ##
 0.53 93.99    16.856  1.2268  #
 1.59 95.57    19.111  1.2813  ####
 0.26 95.84    21.667  1.3358  #
 1.06 96.90    24.565  1.3903  ###
 0.26 97.16    27.851  1.4448  #
 0.26 97.42    31.577  1.4994  #
 0.93 98.35    35.801  1.5539  ##
 0.26 98.61    40.589  1.6084  #
 0.93 99.54    46.019  1.6629  ##
 0.40 99.93    52.174  1.7175  #
----------------------------------------------------------------------------
                                0         1         2         3         4

                         Each "#" represents approximately 2.8 observations.

############################################################################
```


16:44:47
08/31/88
2483s2.dat
LOGARITHMIC VALUES
=========== ======
VARIABLE = Co
UNIT = PPM
N = 756
N CI = 32
1.800
1.080
0.360
-0.360
-1.080
-1.800
99
98
95
85
70
50
30
15
5
2
1
PERCENT

MPH CONSULTING (V248,V2843)



576 Samples   Maximum: 1707   Minimum: 2

Mean: 43
Median: 3
Standard Deviation: 149

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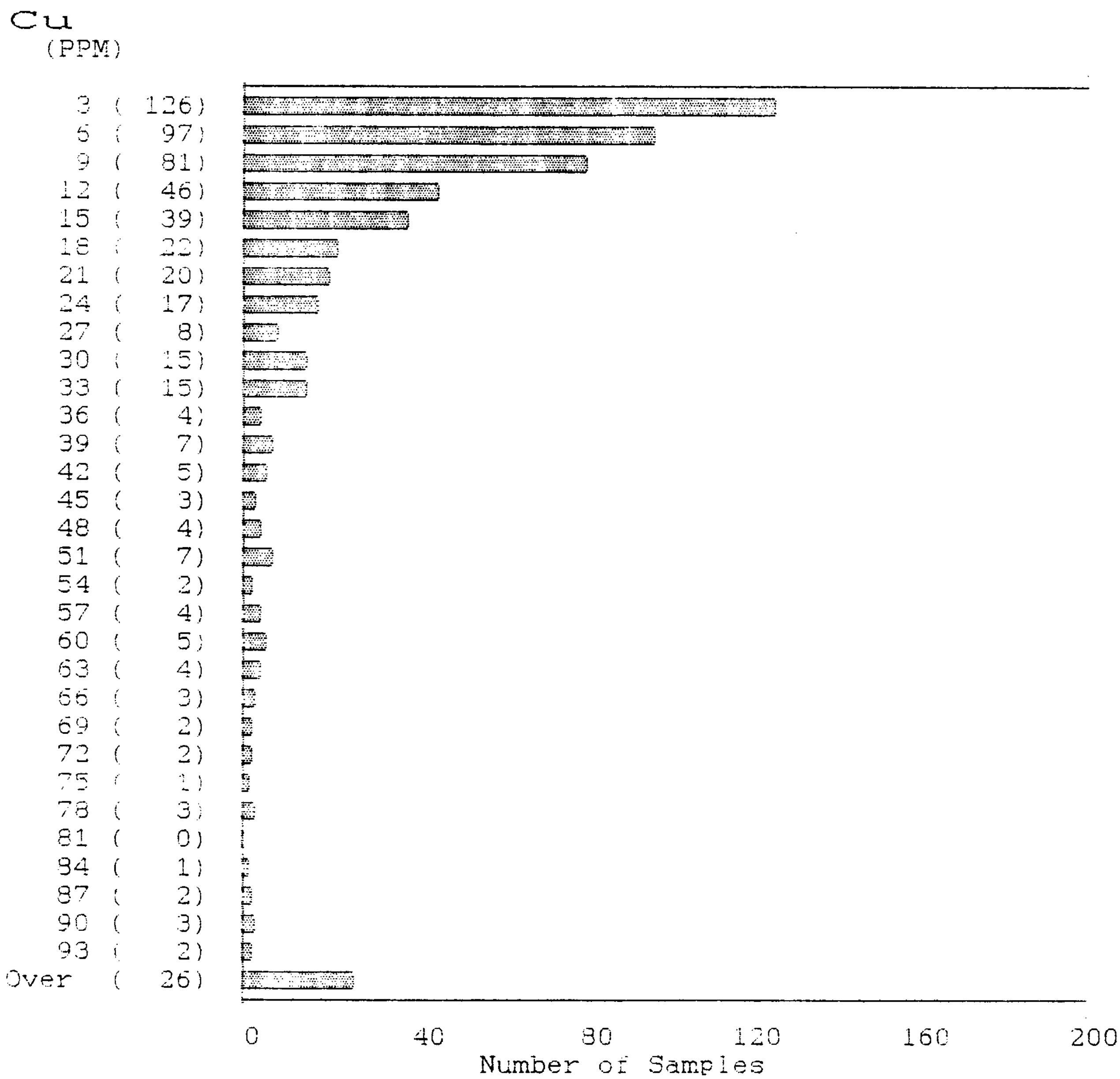
MPH CONSULTING (V248,V2843)

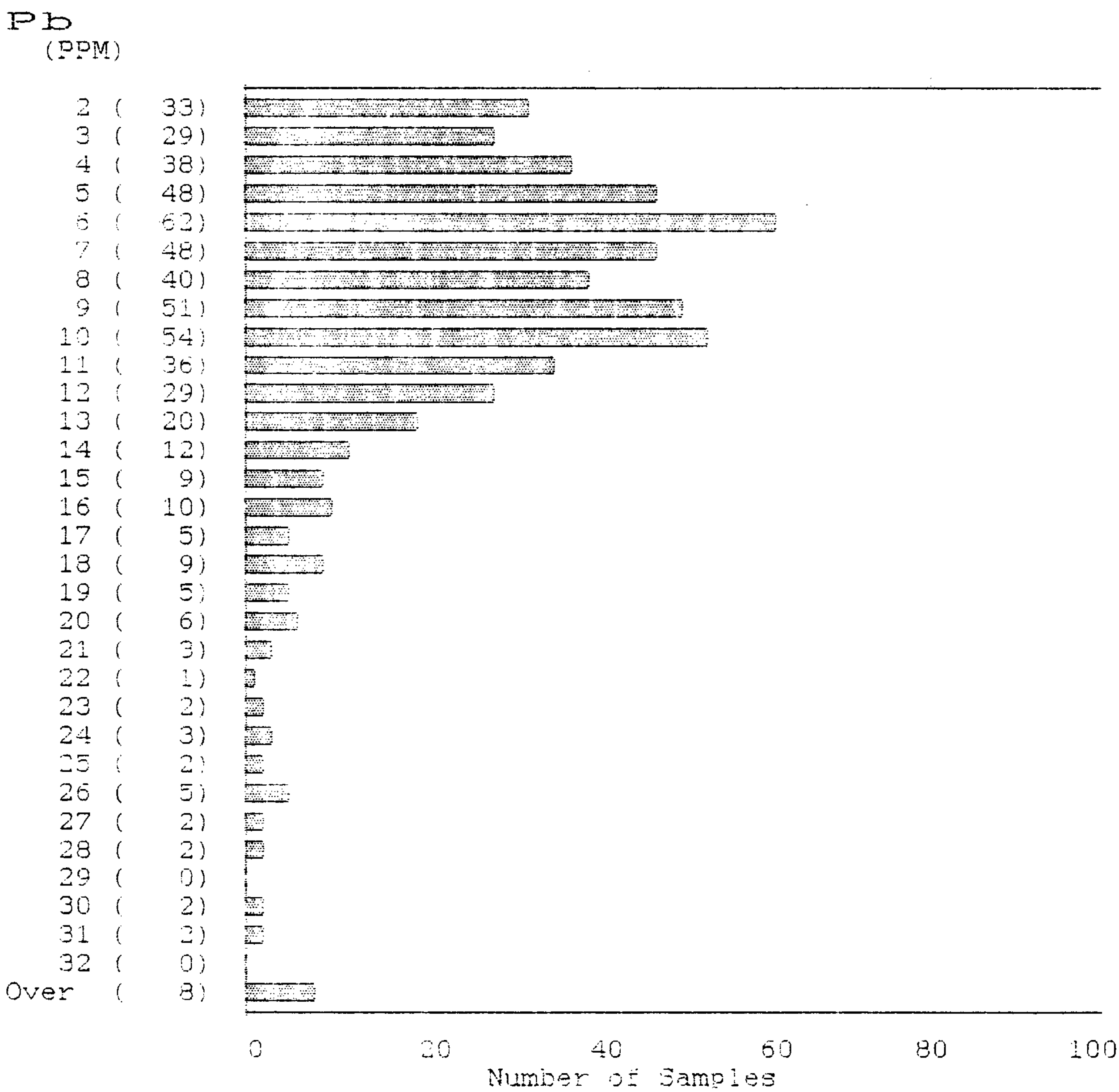


576 Samples

Maximum: 617
Minimum: 1

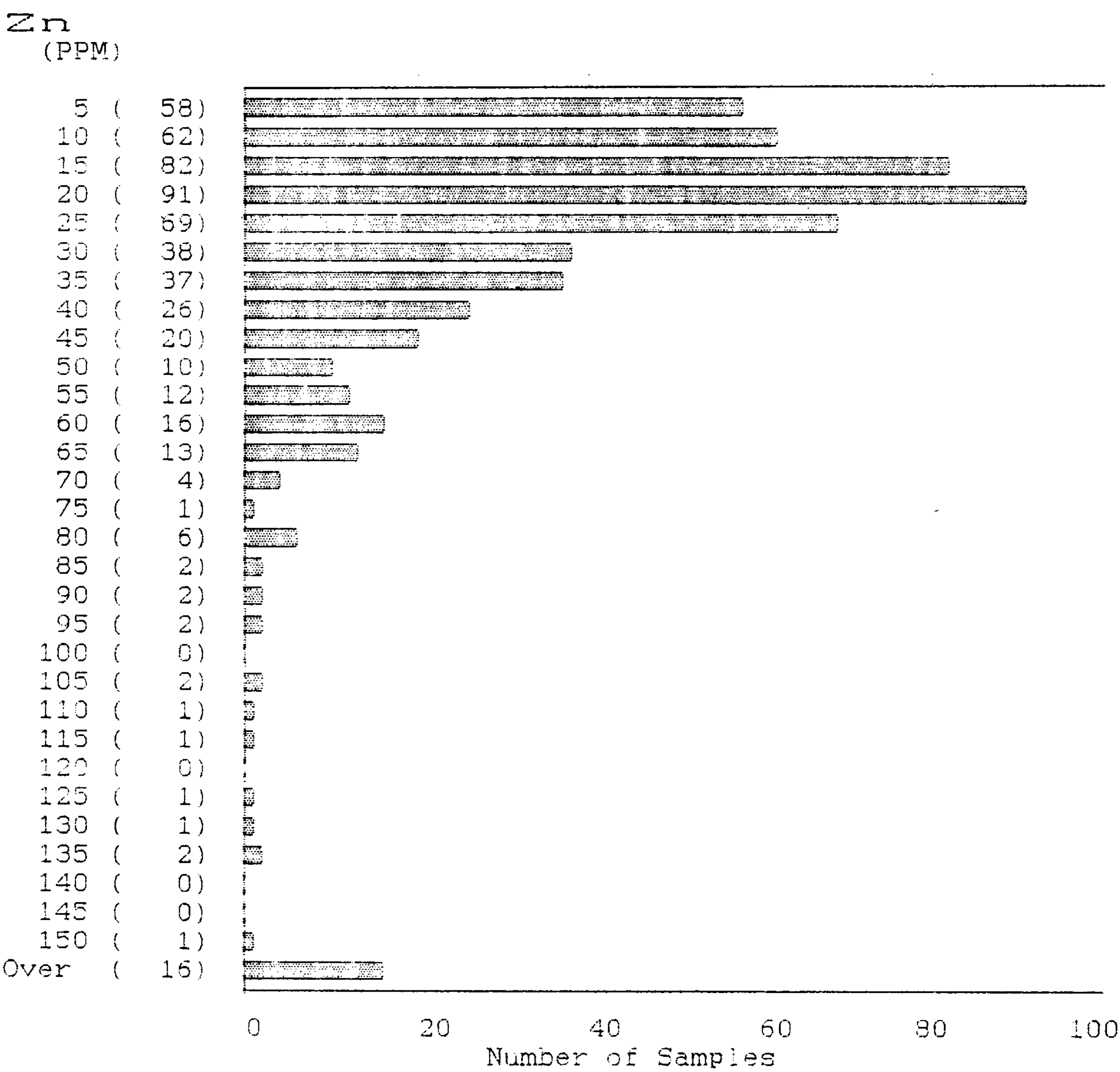
Mean: 25
Median: 9
Standard Deviation: 58

MPH CONSULTING (V248,V2843)



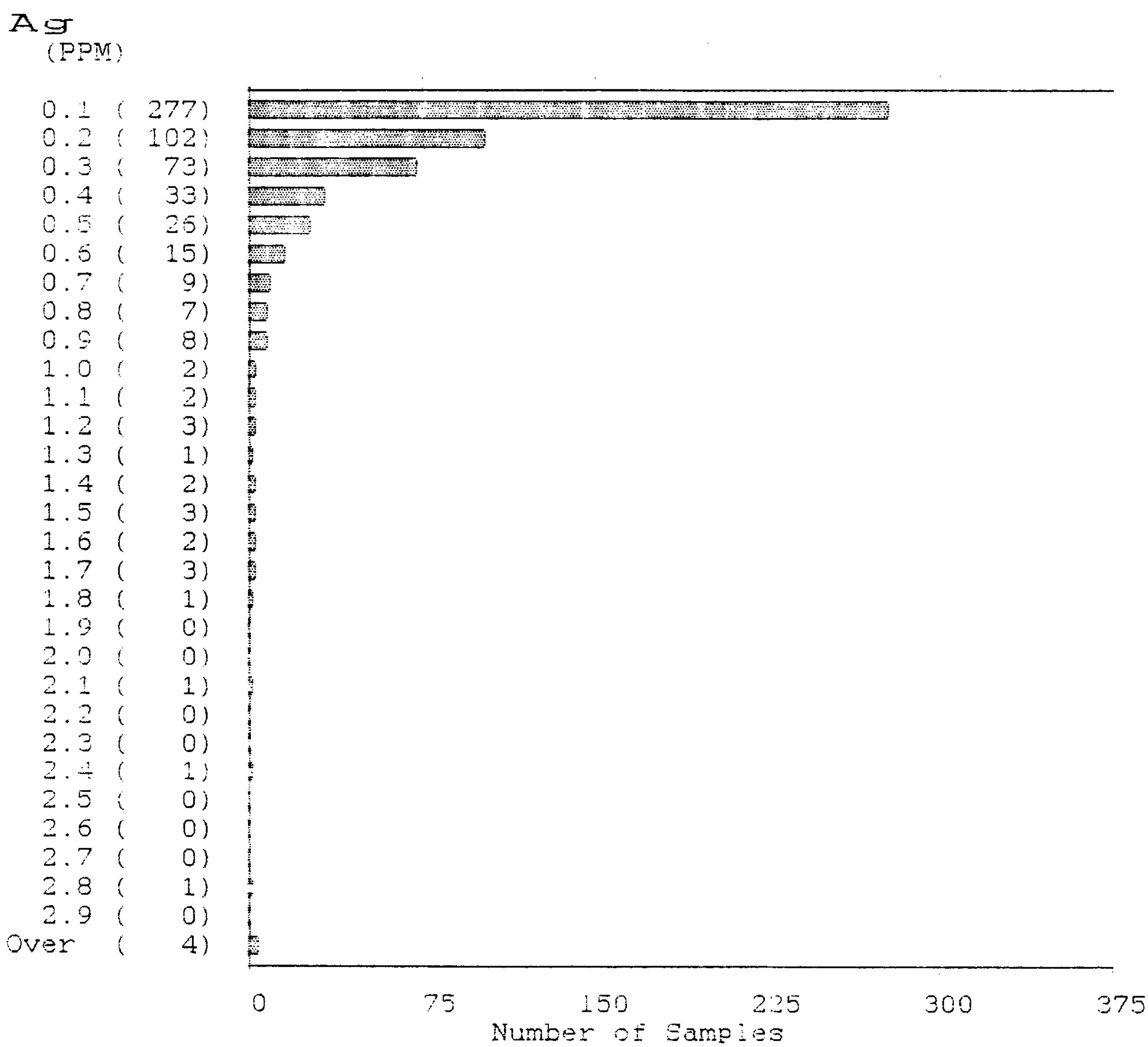
576 Samples Maximum: 140 Mean: 10
Minimum: 2 Median: 6
Standard Deviation: 8

MPH CONSULTING (V248,V2843)



576 Samples	Maximum:	363	Mean:	31
	Minimum:	1	Median:	20
			Standard Deviation:	38

MPH CONSULTING (V248,V2843)

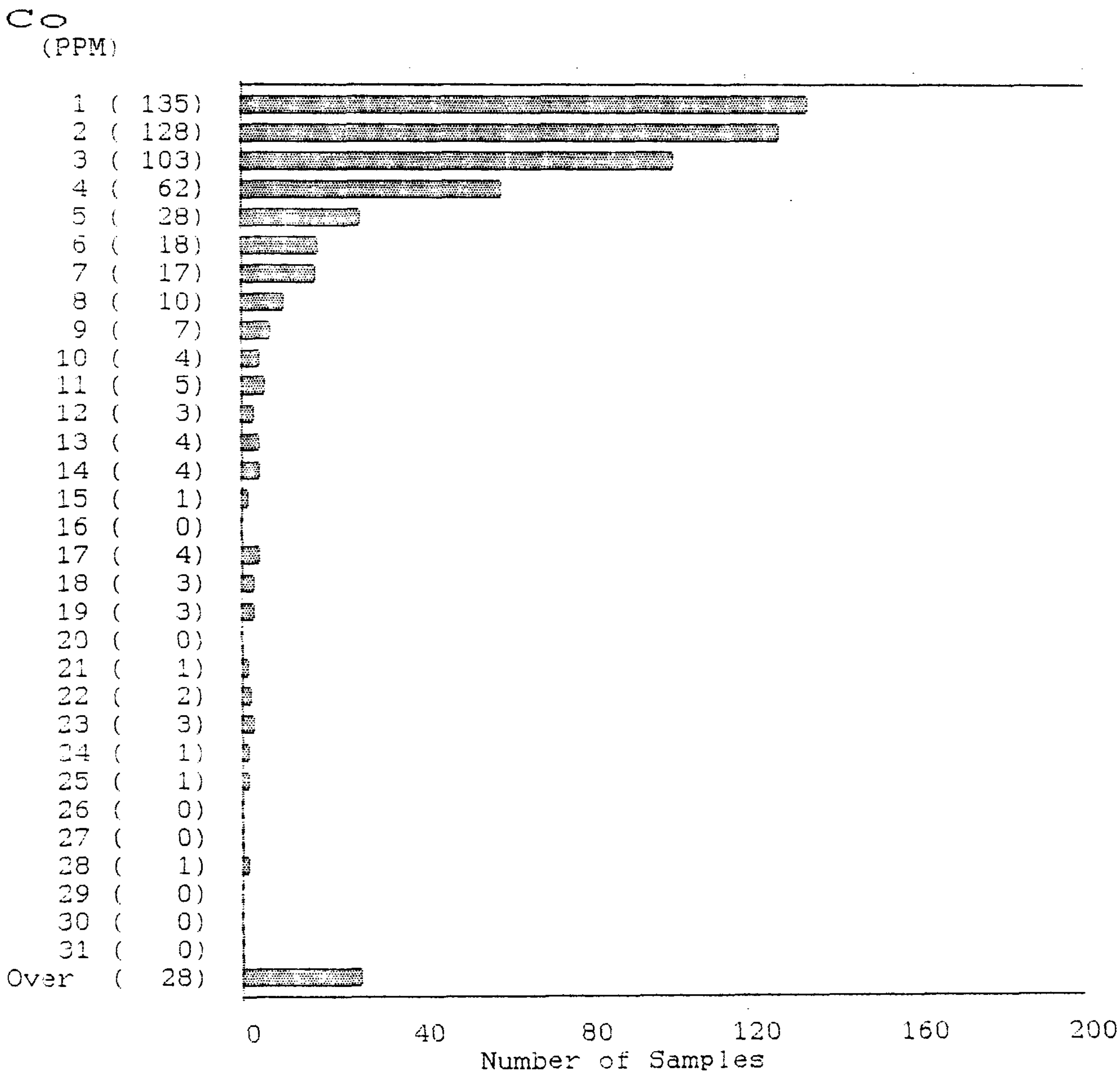


576 Samples

Maximum: 7.9
Minimum: 0.1

Mean: 0.3
Median: 0.0
Standard Deviation: 0.5

MPH CONSULTING (V248,V2843)



576 Samples   Maximum: 160   Minimum: 1

Mean: 7
Median: 3
Standard Deviation: 15

Appendix V

PHASE III DRILL LOGS

DDH CA88-1 TO CA88-18

ABBREVIATIONS USED IN DRILL LOGS

Colors

dark	dk
grey	gy
green	grn
light	lt
brown	brn
black	blk

Textures

medium	med
moderately	mod
subangular	sub-ang
rounded	rdd
subrounded	sub-rdd

Minerals

quartz	qtz, qz
carbonate	carb
pyrite	py
pyrrhotite	po
arsenopyrite	asp, apy
sphalerite	sp
chalcopyrite	cp
visible gold	VG
magnetite	mt, mag

Other

veinlets	vnlts
core axis	CA
altered	alt'd
fractures	frcts
trace	tr
disseminated	dis
minor	mnr
cross cutting	x-ctg
brecciated	bx'd
massive	mass
contact	ctc

MPH CONSULTING LIMITED
Project: Contact Au
Project No.: V248-3
Client: Parallax Development Corp.

Length (m): 69.19
Dip : -55°
Azimuth : 270°
Core Size : NQ
Casing : 6.71 m

Grid: McNeil Peninsula L3+50N, 1+15E
Collar elev.: 57 m
Remarks: Sample nos. 5001 to 5050

Drilled: June 8-9/88
Contractor : Burwash
Logged by : G. Yip
Date logged: June 15/88

Objective: See drill hole CA88-1 summary in text of report.

Hole No.: CA88-1
Hole Survey Type: None
Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 6.71	Casing										
6.71 - 11.01	Dark green, fine-grained, volcanic(?) with localized qtz-carb filled frcts and epidote alt'n. Mineralization occurs as dis py ranging from a tr to 5%. Approx. 3 mm masses of chlorite.										
	7.09 - 7.41 m. Volcanic(?), as above, with 10% blebs of qtz ranging from <0.5 to 4 mm. Hairline frcts @ 28° to CA are filled with qtz and/or epidote. Py (approx. 3%) occurs as dis masses and as frct fill.	chlorite, qtz & mnr epidote	Broken core. Frcts @ 28° to CA. 3% py.	5001	7.09-7.41	0.32	6	0.2	136	69	
	7.92 - 8.32 m. Volcanic(?), as above. Vugs are coated with a rusty brown residue.										
	8.57 - 9.29 m. Volcanic(?), as above. Intensely carb and epidotized. Carb veins (1-2 mm) @ 45° & 20° to CA. Py (3-5%) occurs as finely dis grains, masses (1-5 mm) and as frct fill.	epidote & carb.	Broken core. Carb veins @ 45° & 20° to CA. Py dis, masses & frct fill.	5002	8.57-9.29	0.72	31	0.1	3	115	
	9.29 - 9.49 m. Volcanic(?), as above. Intensely epidotized and moderately carb. Epidote alt'n appears to be orientated @ 30° to CA. 3% finely dis py and mnr amounts of frct fill.	epidote & carb.	Broken Core. Alt'd 30° to CA. 3% finely dis py and frct fill.	5003	9.29-9.49	0.20	1	0.1	2	7	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
6.71 - 11.01 (cont.)	10.28 - 10.36 m. Sphalerite(?) and carb. Fault @ 46° to CA.										
	10.76 - 10.92 m. Chlorite appears to be orientated @ 35° to CA.		Chlorite @ 35° to CA.								
11.01 - 12.48	Dk grn and white, med-grained, alt'd gneiss. Contact between intrusives and volcanic(?) @ 19° to CA. All original textures are lost. Feldspars (40%) have been sheared, along with chlorite (20%) (alt'd mafics?) to define the foliation @ 16-19° to CA. Localized epidote alt'n; lower contact is more epidotized than upper.	chlorite and epidote	Contact @ 19° to CA.								
12.48 - 21.05	Dk grn, fine-grained, alt'd volcanic(?). Contact between gneiss and alt'd volcanic(?) @ 41° to CA. Locally, moderate to intense epidotization, chlorite alt'n and swirly qtz masses. Mineralization includes massive mt and py.		Contact @ 41° to CA.								
	12.91 - 14.01 m. Alt'd volcanic(?) as above. Gy-grn to buff, fine-grained alt'd volcanic. Intensely epidotized and silicified. Mnr carbonatization. 3-5% finely dis py.	epidote and qtz	Broken core. 3-5% dis py.	5004	12.91-14.01	1.10	1	0.2	2	19	
	14.01 - 14.25 m. Alt'd volcanic(?) as above. Grnish-buff. Intensely epidotized, silicified. Carbonate filled frcts (0.5 mm). 3-5% dis py on frct surfaces.	epidote and qtz	Broken core. 3-5% dis py.	5005	14.01-14.25	0.24	1	0.1	3	18	

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: June 15, 1988 Hole No.: CA88-1

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
12.48 - 21.05 (cont.)	14.25 - 14.79 m. Volcanic(?), as above. Gy-grn in color. Mod epidotization and mnr carb with patches of chlorite and sub-ang mafic mineral fragments (1-2 mm). Tr to 3% finely dis py.	epidote, carb and chlorite	Broken core. Tr to 3% py.	5006	14.25-14.79	0.54	2	0.1	1	37	
	14.79 - 15.29 m. Alt'd volcanic(?) as above. Light gy-grn. Intensely silicified and epidotized. Qtz-epidote veins (2 mm) @ 55°, 37° and 25° to CA. Blebs of qtz tend to be parallel to CA. Tr of finely dis py. Mnr carbonatization.	qtz, epidote and carb	Tr of py. Veins @ 55°, 37° & 25° to CA.	5007	14.79-15.29	0.50	3	0.1	5	57	
	15.29 - 15.74 m. Volcanic(?) as above. Dk grn. Cut by qtz-carb-epidote vein (3 mm) @ 50° to CA and epidote or carb filled veins (1 mm) @ 75° to CA. Tr of dis py in veins.	epidote and qtz	Veins @ 50° & 75° to CA. Tr of py.	5008	15.29-15.74	0.45	2	0.1	3	8	
	15.74 - 16.14 m. Volcanic(?) as above. Dk grn. Hairline frcts filled with epidote. Lightly carb. Py (5%) occurs in masses 2-5 mm in size.	epidote, carb and chlorite	Broken core. 5% py masses.	5009	15.74-16.14	0.40	16	0.1	4	43	
	16.14 - 16.49 m. Volcanic(?) as above. Dk grn, mod epidotized and carbonatized stringers. 5% py masses (1-4 mm) and 10% mt.	epidote and carb	Broken core. 5% py and 10% mt.	5010	16.14-16.49	0.35	33	0.1	3	79	
	16.49 - 16.91 m. Blk and white, massive mt with carb (15%) and py masses, all of which define a banding @ 40-42° to CA. Localized patches of epidote also parallel to fabric. Mt in places appears to be feathery. 7-10% py and 70% mt. 3 mm carb vein @ 120° to CA.	epidote	70% mt, 7-10% py, fabric 40-42° to CA.	5011	16.49-16.91	0.42	12	0.5	81	123	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
12.48 - 21.05 (cont.)	16.91 - 17.14 m. Blk and white massive mt with 7% carb blebs and 10% cp define a foliation @ 33-36° to CA. Py occurs in masses ranging from 1-5 mm.	epidote	Foliation 33-36° to CA. 10% py, 10% cp, mass mt.	5012	16.91-17.14	0.23	73	1.1	172	209	
	17.14 - 17.34 m. Volcanic(?) as above. Med grn. Lightly to mod epidotized. Locally intensely, silicified and chlorite alt'n. Tr to 3% cp masses (1-3 mm). No original textures visible.	epidote, qtz and chlorite	Broken core. Tr to 3% cp.	5013	17.14-17.34	0.20	21	0.1	57	72	
	17.34 - 17.70 m. Alt'd volcanic(?) as above. Lt gy-grn. Intensely silicified and moderately carb. Frcts @ 20° and 37° to CA are filled with carb. 5% py occurs in masses 1-3 mm in and adjacent to frcts. Epidotization and no original textures visible.	qtz, carb and epidote	Frcts @ 20° and 37° to CA. 5% py.	5014	17.34-17.70	0.36	23	0.1	9	49	
	17.70 - 17.95 m. Alt'd volcanic as above. Intensely silicified, mildly carb and epidotized. Hairline frcts roughly parallel @ 45°-49° to CA are filled with carb. 3% dis py in and adjacent to veins. No original textures visible.	qtz, carb and epidote	Frcts @ 45-49° to CA. 3% py.	5015	17.70-17.95	0.25	1	0.4	11	17	
	17.95 - 18.20 m. Alt'd volcanic(?) as above. Intensely silicified, mod epidotized and carb. Hairline frcts @ 30-39° to CA filled with carb. Tr to 3% py in the host and in frcts. No original textures visible.	qtz, epidote and carb	Frcts 30-39° to CA. Tr to 3% py.	5016	17.95-18.20	0.25	2	0.2	12	17	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
12.48 - 21.05 (cont.)	18.20 - 18.78 m. Alt'd volcanic(?) as above. Lt grn. Intensely silicified and epidotized. Numerous x-ctg frcts (<0.5 mm) filled with carb. Approx. 5% py in frcts and a tr to 10% massive mt. No original textures visible.	qtz, epidote and chlorite	5% py, tr to 10% mt.	5017	18.20-18.78	0.58	2	0.1	8	9	
	18.78 - 19.10 m. Alt'd volcanic(?) as above. Med grn; intensely silicified, epidotized and mod carb. 3 mm frct @ 23° to CA. Numerous other x-ctg frcts (<0.5 mm). Frcts are filled with carb and have margins of chlorite. 15% massive mt, 3% dis py in frcts and the host. No original textures visible.	qtz, epidote and chlorite	Frcts 23° to CA. 15% massive mt, 3% dis py.	5018	18.78-19.10	0.32	10	0.1	28	37	
	19.10 - 19.80 m. Alt'd volcanic(?) as above. Lt to med grn. Intensely silicified and epidotized, mod to lt carb and chloritization. Locally, epidote appears in swirls. Contains 3-5% py in masses ranging from 0.5-1.5 mm and as frct fill. No original textures visible.	qtz, epidote, carb and chlorite	3-5% py.	5019	19.10-19.80	0.70	133	1.4	341	1028	
	19.80 - 20.34 m. Alt'd volcanic as above. Lt grn. Shear (3 mm) parallel to CA. Hairline frcts filled with carb. Tr to 3% py as frct fill. Minor carbonatization. No original textures visible.	qtz, epidote and carb	Lineation parallel to CA. Tr to 3% py.	5020	19.80-20.34	0.54	1	0.1	2	33	
	20.48 - 20.69 m. Volcanic as above. Dk gy-grn. 3 mm frct filled with gy-white qtz-carb with epidote margins @ 28° to CA. 5-7% chlorite.	epidote and chlorite	Frct @ 28° to CA.	5021	20.48-20.69	0.21	5	0.1	17	74	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
21.05 - 22.95	Blk and white, med to fine-grained qtz diorite with 30-35% subhedral to anhedral mafics (1-5 mm), 45-50% anhedral plagioclase crystals (1-3 mm). Several frcts (1-3 mm) are filled with milky white massive qtz, some with halos of epidote @ 36°, 24° and 47° to CA. Upper ctc @ 35° to CA. Lower ctc @ 30° to CA. Poorly developed foliation within 10 cm of lower ctc @ approx. 24-30° to CA. Tr to 1% finely dis py. Chlorite alt'n of mafics.	epidote and chlorite	Frcts @ 24°, 36° and 47° to CA. Upper ctc @ 55° to CA. Lower ctc @ 30° to CA. Foliation 24-30° to CA. Tr to 1% dis py.								
22.95 - 27.89	Med to lt pale grn alt'd intrusive. Very intensely epidotized and silicified. Very little of original textures still remain. Numerous (10%) subhedral to anhedral mafic grains(?) ranging from 0.5-2 mm. Tr to 5% very finely dis py and pyritic masses ($\leq$3.0 mm).	epidote and qtz	Broken core. Tr to 5% py.								
	22.95 - 22.99 m. Alt'd volcanic(?) in ctc with dk grn fine-grained tuff with 10% chlorite patches @ 63° to CA. Ctc is defined by 2 mm carb vnlt. Tr to 3% dis py within vnlt.	epidote and qtz	Ctc and vnlt @ 63° to CA. Tr to 3% py.	5022	22.95-22.99	0.04	49	3.2	407	101	
	22.99 - 23.17 m. Alt'd volcanic(?). Blue-grn and very fine-grained. Intensely silicified and epidotized. Patches of chlorite (3-5 mm) and of carb (2-3 m). Contains 1-2% very finely dis py and a tr of asp.	epidote, qtz and chlorite	Broken core. 1-2% py, tr asp.	5023	22.99-23.17	0.18	3	1.4	13	54	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
22.95 - 27.89 (cont.)	23.17 - 23.30 m. Alt'd intrusive(?). Blue-grn with blk anhedral to sub-hedral mafic grains (approx. 10%) (1-2 mm). Contains 5 mm veins of gy-white qtz-carb @ 27° and 35° to CA. Intensely epidotized and sili-cified. 5% dis and massive py within the veins. Tr in host.	epidote and qtz	Broken core. Tr to 5% py.	5024	23.17-23.30	0.13	128	3.4	751	190	
	23.30 - 23.90 m. Alt'd intrusive. Med to lt grn. Intensely silicified, and epidotized with a 10 cm wide, very intensely alt'd zone @ 62° to CA. Contains 10% dk grn angular spots of chlorite, some with carb cores (0.5-2.5 mm). Tr to 5% dis, pods (0.5-1.5 mm) and frct filled py.	epidote and qtz	Alt'n zone @ 62° to CA. Tr to 5% py.	5025	23.30-23.90	0.60	13	1.1	32	50	
	23.90 - 24.30 m. Alt'd intrusive. Lt grn. Intensely epidotized and silicified. Mnr carb with 5-10% dk grn fragments (0.5-1.5 mm) of chlorite and qtz(?). Frct surfaces are oxidized; rusty orange in color. Tr to 5% dis py.	epidote, qtz and chlorite	Broken core. Tr to 5% py.	5026	23.90-24.30	0.40	2	0.8	9	21	
	24.30 - 24.69 m. Alt'd intrusive. Lt grn. Intensely epidotized and silicified. Mod carb. Contains 10% dk grn angular flakes of chlor-ite (0.5-1.5 mm), 12 cm alt'n zone with frcts (<05 mm) @ 13°, 34° and 30°. Tr to 3% finely dis py.	qtz, epidote and carb	Frcts @ 13°, 34° and 30° to CA. Tr to 3% py.	5027	24.30-24.69	0.39	22	0.5	2	139	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
22.95 - 27.89 (cont.)	24.69 - 25.19 m. Alt'd intrusive as above. Lt grn in color. Intensely epidotized and silicified. 5-7% dk grn rdd to sub-rdd spots (0.5-1.5 mm), some of which are chlorite and others qtz(?). Poorly defined banding @ approx. 26° to CA. (Defined by lt and dk alt'n; 5 cm.) Randomly oriented frcts (0.5-2 mm) filled with gy-white qtz-carb. Tr to 1% finely dis py.	qtz and epidote	Broken core. Tr to 1% dis py.	5028	24.69-25.19	0.50	21	1	2	43	
	25.19 - 26.31 m. Alt'd intrusive. Lt grn with 5-7% dk grn sub-ang speckles (0.5-1.5 mm) of chlorite and qtz(?). Intensely silicified and epidotized. Frct surfaces contain off-white qtz-carb. Tr to 5% dis py on frct surfaces.	qtz, epidote and chlorite	Broken core. Tr to 5% dis py.	5029	25.19-26.31	1.12	1	1.2	1	30	
	26.31 - 27.65 m. Alt'd intrusive. Top 8 cm has appearance of a feldspar porphyry (dk grn) (2 to 4 mm). Then speckled intrusive; intensely silicified and epidotized (lt grn) with 3-5% dk grn sub-ang to sub-rdd spots of chlorite and qtz. Hairline frcts filled with off-white qtz-carb. Tr to 3% finely dis py on frct surfaces.	qtz, epidote and chlorite	Broken core. Tr to 3% dis py.	5030	26.31-27.65	1.34	47	0.7	1	41	
	27.65 - 27.79 m. Dk grn, very fine-grained volcanic(?).										
27.79 - 28.07	27.79 -27.89 m. Intrusive is med-grained diorite, containing 30-35% feldspars, 50-60% dk grn mafics; alt'd to chlorite & 5-10% qtz. Ctc between dk grn volcanic(?) and intrusive @ 49° to CA with 2.5 cm wide alt'n zone of epidote and grn-white qtz. Tr of dis py in alt'n zone & a tr to 3% dis py in the diorite.	chlorite and epidote	Tr py in alt'd zone. Tr to 3% py in diorite.	5031	27.79-27.89	0.10	6	1.5	227	44	724 Zn

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
28.07 - 29.29	Dk grn, very fine-grained volcanic(?) with 7-10% chlorite spots (approx. 1 mm) and milky-white qtz-carb stringers (1-2 mm) @ 70°, 58°, 35° and 45° to CA. Ctc with diorite @ 70° to CA. Some veins have margins of epidote. Tr amounts of dis py. Mnr carb.										
	28.79 - 29.29 m. Volcanic as above with milky-white qtz stringers @ 58°, 35° and 75° to CA. Tr of finely dis py.	chlorite and carb	Qtz stringers @ 58°, 35° and 75° to CA. Tr of dis py.	5032	28.79-29.29	0.50	1	0.5	67	26	
29.29 - 36.41	Fine-grained, grn and white diorite with 60% dk grn, euhedral mafic grains (alt'd to chlorite) 1-3 mm in size, 35% euhedral feldspars (1-4 mm) and euhedral qtz grains (1-2 mm). Ctc between volcanic and intrusive @ 47° to CA. Cut by massive milky-white qtz veins (1-4 mm) @ 45°, 40°, 56° and 25° to CA. Tr amounts of dis py. Note: of the 60% mafics, 15-20% are biotite(?).		Ctc @ 47° to CA. Tr dis py.								
	29.64 - 29.70 m. Massive milky-white qtz vein @ 45° to CA (3 cm wide) with 3% py in 1-2 mm masses.		Vein @ 45° to CA. 3% py.	5050	29.64-29.70	0.06	10	0.9	472	73	
	30.88 - 30.94 m. Qtz vein @ 44° to CA (4 cm). Massive milky-grey qtz with alt'd (chlorite) fragments of host (approx. 1 mm) and epidote in hairline frcts. Tr to 2% dis py.		Vein @ 44° to CA. Tr to 2% dis py.	5033	30.88-30.94	0.06	1	0.3	29	14	
	32.48 - 32.61 m. Massive milky-white qtz vein @ 52° to CA (5 cm). Tr of finely dis py.		Vein @ 52° to CA. Tr dis py.	5034	32.48-32.61	0.13	15	0.4	68	360	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
36.41 -	Dk grn, very fine-grained tuff(?) with 3 mm shear @ 67° to CA with epidote, qtz and a tr to 1% dis py. Ctc between diorite and volcanic(?) @ 70° to CA.										
36.50 - 43.69	Fine-grained, grn and white diorite with 65% dk grn anhedral mafic grains (alt'd to chlorite). Contains 1-3 mm, 7% anhedral qtz grains (1-1.5 mm) and 28% anhedral plagioclase grains (1-4 mm). Approx. 10% of the dk grn mafics are biotite and qtz veins @ 32°, 20°, 37° and 45° to CA (1-15 mm). Tr of finely dis py.										
	39.01 - 39.26 m. Intrusive as above. Dk grn and fine-grained with bands (approx. 12 mm) of white qtz that have 3% chlorite (0.5-2 mm) @ 52° and 58° to CA. Epidote margins around qtz veins. Tr to 3% finely dis py.	chlorite and epidote	Banding @ 52° and 58° to CA. Tr to 3% dis py.	5035	39.01-39.26	0.25	1	0.1	35	5	
	41.20 - 41.36 m. Massive milky-white qtz vein @ 42° to CA. Approx. 6 cm wide with fragments of wall rock (5 cm) and epidote alt'n. Wall rock is alt'd to chlorite. Tr of finely dis py in regions of epidote alt'n.	epidote and chlorite	Vein @ 42° to CA. Tr dis py.	5036	41.20-41.36 Au assay 0.039 oz/ton (1.34 g/t)	0.16	960	0.2	64	7	
43.69 - 44.12	Drk grn, very fine-grained tuff(?) with 10% dk grn ang mafic fragments (alt'd to chlorite). Ctc between diorite and volcanic @ 73° to CA. Randomly oriented hairline frcts filled with milky-white qtz. Tr of dis py in and adjacent to frcts. Bottom ctc is epidotized.		Ctc @ 73° to CA. Tr dis py.	5037	43.69-44.12	0.43	1	0.2	32	9	

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: June 17, 1988 Hole No.: CA88-1

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
44.12 - 47.52	Grn and white, med to fine-grained diorite (see 36.50-43.69 m) with milky-white qtz stringers (1-2 mm) @ 10° and 18° to CA. Tr of finely dis py.	chlorite and epidote									
	45.35 - 45.55 m. Dk grn diorite as above with milky-white qtz veins @ 15° and 19° to CA (3-5 mm). Tr to 5% finely dis py.		Veins @ 15° and 19° to CA. Tr to 5% dis py.	5038	45.35-45.55	0.20	205	0.2	89	3	
47.52 - 47.75	Dk grn, very fine-grained sheared intrusive(?) with 70% lt grn ang clasts of feldspars (<0.5 mm) and 30% dk grn ang clasts (≤0.5 mm) alt'd to chlorite. Ctc between diorite and sheared(?) intrusive @ 69° to CA. Tr of finely dis py.		Ctc @ 69° to CA. Tr dis py.								
47.75 - 48.56	Dk grn, fine-grained diorite, 5% anhedral white qtz (1-2 mm), 45% grn-white, anhedral plagioclase feldspars (1-3 mm) and 50% dk grn anhedral mafics (1-5 mm) alt'd to chlorite. Tr of very finely dis py. Qtz-epidote stringers @ 14°, 55° and 40° to CA.	chlorite	Qtz-epidote stringers @ 14°, 55° and 40° to CA. Tr dis py.								
48.56 - 49.14	Dk grn, very fine-grained sheared intrusive(?) with lenticular patches of chlorite @ 77° to CA and hairline frcts filled with milky-white qtz, some with epidote margins. Numerous sub-rdd qtz clasts(?) in most cases associated with finely dis py (tr).		Chlorite orient @ 77° to CA. Tr dis py.	5039	48.56-49.14	0.58	3	0.2	107	7	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
49.14 - 59.49	Med to fine-grained, dk grn and white diorite with 50-60% dk grn anhedral crystals of mafics (85%) and biotite (15%) ranging from 0.5-2 mm. Contains 20-30% white andhedral plagioclase masses ranging from 0.5-4 mm, and approx. 10% andhedral qtz grains (0.5-1.5 mm). Locally intensely epidotized and silicified. Qtz-carb and epidotized veins 0.5-3 mm @ 38°, 17° and 77° to CA. Tr of finely dis py throughout.	epidote and chlorite									
	50.52 - 50.98 m. Lt grn alt'd diorite as above. Intensely epidotized and silicified. X-ctg frcts @ 53°-54°, 43° and 23° to CA. Feldspars have alt'd to epidote; 5 cm shear @ 47° to CA with 3 mm porphyroblasts of ? (alt'd to chlorite). Within the shear is a 3.5 cm lens of epidote. Tr to 3% dis py on frct surfaces.	epidote and qtz	Frcts @ 53°, 43° and 23° to CA. Tr to 3% py.	5040	50.52-50.98	0.46	89	0.1	15	3	
	53.95 - 54.15 m. Dk grn, fine-grained diorite as above with milky-white qtz veins @ 73° and 53° to CA (approx. 3 mm). Most veins have epidote margins and small amounts of epidote within the veins. No visible mineralization.	chlorite	Veins @ 73° and 53° to CA.	5041	53.95-54.15	0.20	2	0.1	61	4	
	56.39 - 56.41 m. Lt brn fault gouge(?), 70% clay, 20% silt and 10% sand. Upper and lower boundaries are bound by poorly foliated (sheared) intrusives @ 25-30°.		Foliation @ 25-30° to CA.								

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
49.14 - 59.49 (cont.)	57.58 - 59.49 m. Poorly developed foliation @ 24-25° to CA.	chlorite	Foliation @ 24-25° to CA.								
	59.31 - 59.49 m. Blk and white fine-grained diorite cut by epidote filled stringers @ 40° and 12° to CA. Tr of finely dis py.		Stringers @ 40° and 12° to CA. Tr dis py.	5042	59.31-59.49	0.18	1	0.2	55	2	
59.49 - 61.19	Dk grn, very fine-grained volcanic. Ctc with diorite not visible. However, region about the ctc is intensely epidotized and cut by numerous x-ctg hairline frcts filled with epidote.										
	59.56 - 59.81 m. Dk grn, alt'd fine-grained sheared intrusive(?). Epidote alt'n (possible shear?) @ 58° to CA with pods of carb parallel to shear direction (3 mm). Tr of finely dis py.	epidote and chlorite	Shear @ 58° to CA. Tr dis py.	5043	59.46-59.81	0.25	1	0.1	9	2	
61.19 - 65.36	Dk grn and white diorite (see 49.14-59.49) with frcts filled with qtz and epidote @ 47°, 57°, 34° and 14° to CA. Ctc between intrusive(?) and diorite @ 76°-82° to CA.		Ctc @ 76-82° to CA.								
	61.50 - 61.54 m. Shear @ 64° to CA with bands of epidote and qtz (0.5 - 1 mm).										
	61.77 - 61.81 m. Shear @ 60° to CA with 1 cm band of epidote and qtz (0.5-1 mm).										
	63.19 - 63.28 m. Shear @ 54° to CA with small qtz clasts perpendicular to CA (1-3 mm).										

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
61.19 - 65.36 (cont.)	64.53 - 64.59 m. Diorite as above. Contains 1 cm wide shear @ 63° to CA. Several x-ctg frcts filled with qtz and epidote, 3% py in masses (0.5-2 mm).		3% py in masses.	5044	64.53-64.59	0.06	2	0.4	172	5	
	65.12 - 65.26 m. Fine-grained diorite as above, but cut by a very fine-grained, dk grn-gy dyke @ 33° to CA (2.8 cm wide). Dyke is composed of mt with tr of finely dis cp in the diorite and mt.		Ctc @ 33° to CA. 5-10%(?) dis mt. Tr of cp.	5045	65.12-65.26	0.14	1	0.2	75	2	
65.36 - 69.19	Dk grn, very fine-grained andesite with randomly orientated frcts (0.5-1 mm) filled with milky-white qtz some of which have epidotized margins. Localized alt'n zones of epidote. Ctc between diorite and volcanic @ 64° to CA. Tr to 2% finely dis py. Note: magnetic.		Ctc @ 64° to CA. 5-10%(?) dis mt. Tr to 2% dis py.								
	65.51 - 66.14 m. Dk grn andesite as above with hairline frcts of milky-white qtz @ 78°, 63° and 34° to CA. Contains 1-2% finely dis py as frct fill and in host @ approx. 60° to CA.		Vnlt @ 78°, 63° and 34° to CA. Py lineation @ 60° to CA. 1-2% dis py.	5046	65.51-66.14	0.63	2	0.1	85	8	
	66.14 - 66.83 m. Dk grn andesite as above with a 1 cm wide epidotized alt'n zone @ 69° to CA. Contains 2% dis py throughout; some pods are orientated @ 42° to CA.		Alt'd zone @ 69° to CA. 2% dis py @ 42° to CA.	5047	66.14-66.83	0.69	1	0.3	96	8	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
65.36 - 69.19 (cont.)	67.62 - 68.30 m. Dk grn andesite as above, with hairline frcts @ 64°, 56° and 30° to CA. Filled with off-white qtz. Contains 2% finely dis py in host and as frct fill. Slightly magnetic.		Frcts @ 64°, 56° and 30° to CA. 2% dis py.	5048	67.62-68.30	0.68	1	0.3	103	11	
	69.30 - 69.49 m. Andesite as above, 1 cm fault @ 52° to CA with a shear zone parallel to fault. Chlorite alt'n.										
	68.49 - 68.74 m. Lt grn alt'd andesite(?). Intensely epidotized and silicified. Orientation of alt'n @ 36° to CA. Chloritized. Contains 1-2% finely dis py.	epidote, qtz and chlorite	Alt'd zone 36° to CA. 1-2% dis py.	5049	68.49-68.74	0.25	1	0.3	182	5	
	68.74 - 68.86 m. Foliated (sheared) andesite @ 38° to CA.		Foliation @ 38° to CA.								
69.19	EOH										

MPH CONSULTING LIMITED
Project: Contact Au
Project No.: V248-3
Client: Parallax Development Corp.

Length (m): 50.29
Dip : -85°
Azimuth : 270°
Core Size : NQ
Casing : 3.05 m

Grid: McNeil Peninsula L3+50N, 1+15E
Collar elev.: 57 m
Remarks: Sample nos. 5051 to 5080

Drilled: June 9, 1988
Contractor : Burwash
Logged by : G. Yip
Date logged: June 22/88

Objective: See drill hole CA88-2 summary in text of report.

Hole No.: CA88-2
Hole Survey Type: None
Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 3.05	Casing										
3.05 - 15.05	Dk gy-grn, fine-grained andesite. Cut by frcts filled with qtz-carb and epidote @ 19°, 70° and 75° to CA. Locally very alt'd to epidote.										
	11.60 - 12.03 m. Andesite with qtz-carb-epidote vnlts @ 72° and 20° to CA. Tr of finely dis py.	qtz and epidote	Veins @ 72° and 20° to CA. Tr dis py.	5051	11.60-12.03	0.43	1	0.1	64	8	
	12.03 - 12.38 m. Alt'd andesite. Intensely epidotized and silicified. Contains 3 mm qtz vein @ 17° to CA. Tr to 1% dis py.	epidote and qtz	Vein @ 17° to CA. Tr to 1% dis py.	5052	12.03-12.38	0.35	21	0.1	91	32	
	12.38 - 12.80 m. Alt'd andesite. Qtz-carb vnlt @ 43° to CA. Tr to 3% finely dis py.	epidote and qtz	Broken core. Tr to 3% dis py.	5053	12.38-12.80	0.42	4	0.4	14	55	
	12.80 - 13.20 m. Alt'd andesite. Tr of dis py throughout. Up to 3% on frct surfaces.	epidote, qtz and chlorite(?)	Tr to 3% dis py.	5054	12.80-13.20	0.40	78	0.1	30	24	
	13.20 - 13.84 m. Alt'd andesite. Locally epidotized. Vnlts @ 54° and 55° to CA filled with qtz-carb or epidote. Tr of finely dis py.	qtz and epidote	Broken core. Tr dis py.	5055	13.20-13.84	0.64	3	0.1	12	22	
	13.84 - 14.10 m. Andesite. Mnr epidotization and silicification. No visible mineralization.	epidote and qtz	Broken core.	5056	13.84-14.10	0.26	1	0.1	14	3	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
3.05 - 15.05	14.10 - 14.37 m. Andesite. Mnr epidotization and carb. Contains 10% massive mt.	epidote and carb	Broken core. 10% mt.	5057	14.10-14.37	0.27	1	0.2	52	9	
	14.37 - 14.50 m. Fault(?) gouge.										
	14.37 - 14.97 m. Andesite. Patchy epidote alt'n and silicification. Tr to 1% patches (1-3 mm) of po.	epidote and qtz	Tr to 1% po.	5058	14.37-14.90	0.53	16	0.2	71	33	
15.05 - 38.85	14.90 - 15.14 m. Alt'd diorite(?). Intensely epidotized and silicified. Mnr carb. Tr of dis py.	epidote, qtz and carb	Tr py.	5059	14.90-15.14	0.24	24	0.2	19	9	
	15.14 - 15.82 m. Alt'd diorite(?) with qtz-epidote veins @ 17°, 47° and 73° to CA (approx. 4 mm). Tr amounts of finely dis py.	epidote	Veins @ 17°, 47° and 73° to CA. Tr dis py.	5060	15.14-15.82	0.68	3	0.1	7	1335	
	15.82 - 16.42 m. Alt'd diorite(?) with qtz-epidote filled frcts @ 42° and 63° to CA (2-18 mm). Tr of finely dis py.	epidote	Frcts @ 42° and 63° to CA. Tr dis py.	5061	15.82-16.42	0.60	1	0.2	31	78	
	16.56 - 16.58 m. Shear @ 35° to CA.		Shear @ 35° to CA.								
	17.57 - 17.75 m. Shear @ 49° to CA.		Shear @ 49° to CA.								
	17.97 - 18.07 m. Shear @ 44° to CA.		Shear @ 44° to CA.								
	18.65 - 25.59 m. Poorly developed fabric @ approx. 37° to CA.		Foliation @ approx. 37° to CA.								
	19.02 - 19.23 m. Alt'd and sheared diorite @ 45-50° to CA. Epidote and qtz occur in thin wispy bands. Tr of dis py.	epidote	Banding @ 45-50° to CA. Tr dis py.	5062	19.02-19.23	0.21	1	0.7	104	61	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
15.05 - 38.85 (cont.)	19.63 - 20.08 m. Alt'd diorite(?). Intensely epidotized and silicified with xenoliths(?) (1.5-3 cm). Tr of finely dis py.	qtz, epidote and chlorite	Tr dis py.	5063	19.63-20.08	0.45	2	0.2	50	23	424 Zn
	20.24 - 20.92 m. Diorite with xenoliths. Locally intensely epidotized. Tr to 2% finely dis py.	epidote	Tr to 2% dis py.	5064	20.24-20.92	0.68	2	0.1	146	23	
	20.40 - 20.92 m. Alt'd diorite(?) with xenoliths(?). Intensely silicified. Tr to 2% dis py in 1-3 mm groupings.	qtz and epidote	Broken core. Tr to 2% dis py.	5065	20.40-20.92 Au assay 0.009 oz/ton (0.309 g/t)	0.52	315	0.4	5	18	
	20.92 - 22.36 m. Alt'd diorite(?). Intensely epidotized and silicified. Qtz-carb on frct surfaces. Tr of finely dis py.	qtz and epidote	Broken core. Tr dis py.	5066	20.92-22.36	1.44	32	0.1	3	10	
	22.36 - 22.86 m. Alt'd diorite(?). Intensely silicified and epidotized. Mod carbonatized. Tr of finely dis py throughout and in 3-4 mm pods associated with carb lenses.	qtz, epidote and carb	Broken core. Tr dis py.	5067	22.36-22.86	0.50	2	0.1	2	7	
	22.86 - 23.81 m. Alt'd diorite(?). Intensely silicified and epidotized. Tr to 2% finely dis py.	qtz and epidote	Broken core. Tr to 2% dis py.	5068	22.86-23.81	0.95	5	0.1	10	2	
	23.81 - 24.01 m. Alt'd(?). Intensely silicified and epidotized. Lt carb. Original textures are lost. Tr of finely dis py.	qtz and epidote	Tr dis py.	5069	23.81-24.01	0.20	2	0.6	380	59	
	24.01 - 24.48 m. Alt'd diorite and xenoliths(?). Banding of alt'n @ 52-55° to CA. Offset by frcts @ 64° to CA. Tr of finely dis py and as frct fill in offsetting frcts.	epidote and qtz	Contact @ 89° to CA. Banding of alt'n @ 52-55° to CA. Frcts @ 64° to CA. Tr dis py.	5070	24.01-24.48	0.47	165	0.1	20	26	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
15.05 - 38.85 (cont.)	24.48 m. Ctc with unaltered diorite @ 89° to CA.										
	24.88 - 25.30 m. Diorite with shears filled with qtz @ 18° and 30° to CA. Mnr amounts of epidote in shears (6-9 mm). Tr of finely dis py.		Shears @ 18° and 30° to CA. Tr dis py.	5071	24.88-25.30	0.42	5	0.1	49	15	
	25.76 - 25.91 m. Diorite, dk gy-blk. Tr to 2% finely dis py.		Tr to 2% dis py.	5072	25.76-25.91	0.15	1	0.2	38	2	
	27.60 - 27.80 m. Foliated (poorly) diorite and a xenolith(?). Foliation @ 45° to CA. Mineralization is in and adjacent to xenolith. Contains 3-5% dis py.		Foliation @ 45° to CA. 3-5% dis py.	5073	27.60-27.80	0.20	2	2.1	920	41	
	28.32 - 29.06 m. Diorite with xenoliths (@ 28.96 m) ranging from 2 - 3 cm. Mineralization associated with xenoliths. Contains 2-3% dis py.		2-3% dis py.	5074	28.32-29.06	0.74	1	0.1	60	9	
	29.22 - 29.34 m. Massive qtz vein (6 cm wide) @ 55° to CA. Contains 2% dis py.		Vein @ 55° to CA. 2% dis py.	5075	29.22-29.34	0.12	2	0.2	80	34	
	29.34 - 30.58 m. Alt'd diorite(?). Intensely epidotized and silicified with mnr amounts of carb. Alt'n has banded appearance @ 34-50° to CA. Tr to 3% finely dis py. Note: local chlorite alt'n. Lower ctc with diorite @ 40° to CA @ 30.54 m.	epidote, qtz, carb and chlorite	Banding @ 34-50° to CA. Tr to 3% dis py.	5076	29.34-30.58	1.24	3	0.4	132	63	
	31.90 - 32.07 m. Qtz vein in diorite @ 46° to CA (>3 cm). Mnr epidote alt'n @ ctc. Tr of dis asp.	epidote	Broken core. Vein @ 46° to CA. Tr dis asp.	5077	31.90-32.07	0.17	1	0.2	29	92	

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: June 23, 1988 Hole No.: CA88-2

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
15.05 - 38.85 (cont.)	33.82 - 34.02 m. Massive qtz vein in diorite @ 38° to CA. Mnr epidote alt'n within and adjacent to vein. Tr to 2% finely dis py.		Tr to 2% dis py.	5078	33.82-34.02	0.20	1	0.3	23	8	
	38.78 m. Fault @ 45° to CA.										
38.85 - 50.29	38.85 - 39.85 m. Fine-grained, dk grn andesite(?) with 5-7% chlorite spots (1-3 mm). Silicified. Locally, numerous frcts filled with qtz-carb or epidote (≤1.0 mm). Tr to 2% finely dis py. Lower ctc sheared @ 48° to CA.	chlorite and qtz	Tr to 2% dis py. Lower ctc @ 48° to CA.	5079	38.85-39.85	1.00	4	0.3	57	70	
	42.40 - 42.46 m. Shear @ 33° to CA.		Shear @ 33° to CA.								
	44.30 - 44.80 m. Ctc @ 49° to CA. Dk grn, fine-grained andesite(?) (see 38.85-38.95 m). Locally, numerous hairline frcts @ 57° to CA filled with qtz. Contains 3-5% very finely dis py on frct surfaces. Lower ctc sheared(?) @ 43° to CA.		Ctc @ 49° to CA. Frcts @ 57° to CA. 3-5% dis py on frcts. Lower ctc @ 43° to CA.	5080	44.30-44.80	0.50	1	0.1	18	7	
50.29	EOH										

MPH CONSULTING LIMITED
Project: Contact Au
Project No.: V248-3
Client: Parallax Development Corp.

Length (m): 81.38
Dip : -46°
Azimuth : 093°
Core Size : NQ
Casing : 6.10 m

Grid: McNeil Peninsula L2+45N, 1+90E
Collar elev.: 68 m
Remarks: Sample nos. 5081 to 5109

Drilled: June 10-11/88
Contractor : Burwash
Logged by : G. Yip
Date logged: June 24/88

Objective: See drill hole CA88-3 summary in text of report.

Hole No.: CA88-3
Hole Survey Type: None
Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 6.10	Casing										
6.10 - 12.90	Gr to dk grn, med to fine-grained diorite. Cut by qtz-carb veins @ 17°, 24° and 45° to CA. Locally intensely epidotized.										
	9.23 - 9.86 m. Dk grn fine-grained andesite. 45° to CA.		Upper and lower ctc @ 45° to CA.								
	10.82 - 11.19 m. Alt'd(?) dk grn diorite with a 2.5 cm wide shear filled with gy-white qtz @ 28° to CA. Tr of finely dis py. Iron-carb in veins also(?).		Vein @ 28° to CA. Tr dis py.	5081	10.82-11.19	0.37	3	0.9	256	41	
	12.20 m. Fault @ 55° to CA.		Fault @ 55° to CA.								
12.91 - 23.42	Andesite porphyry(?) (subvolcanic).										
	12.72 - 13.34 m. Alt'd diorite/ andesite porphyry. Dk gy grn in color. Locally intensely epidotized and silicified; lightly (iron?) carb. Tr of py in areas of intense alt'n.	epidote, qtz and carb	Tr py.	5082	12.72-13.34	0.62	1	0.1	10	21	
	14.25 - 14.65 m. Subvolcanic(?). Dk grn in color. Intensely silicified and epidotized with mnr (iron?) carb. Alt'n zone @ 12° to CA. No visible mineralization.	epidote, qtz and carb		5083	14.25-14.65	0.40	1	0.2	4	22	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
12.91 - 23.42 (cont.)	15.17 - 15.83 m. Dk grn alt'd and sheared(?) subvolcanic(?) with veins filled with epidote and qtz @ 18° and subparallel to CA (2-3 mm). Tr to 2% finely dis py. Iron-carb alt'n(?).		Veins @ 18° to subparallel to CA. Tr to 2% dis py.	5084	15.17-15.83	0.66	1	0.1	121	30	
	16.06 - 16.36 m. Sheared and alt'd subvolcanic(?) contains 2.7 cm wide epidote alt'n zone @ 14° to CA with the shear @ approx. 30° to CA. Tr of dis py in alt'n zone.	epidote	Alt'n zone @ 14° to CA. Shear @ 30° to CA. Tr dis py.	5085	16.06-16.36	0.30	3	0.4	108	48	
	17.14 - 17.63 m. Dk grn alt'd subvolcanic(?) with epidote-qtz-carb filled veins @ 45° and 18° to CA. Tr of dis py in veins (1-5 mm).		Veins @ 45° and 18° to CA. Tr dis py.	5086	17.14-17.63	0.49	3	0.9	213	21	
	17.89 - 18.53 m. Dk grn subvolcanic(?). Numerous stringers of yellow-white qtz @ 4°, 13° and 22° to CA. Tr of dis py, associated with stringers. Size of stringers 1-3 mm.		Stringers @ 4°, 13° and 22° to CA. Tr dis py.	5087	17.89-18.53	0.64	1	0.1	118	21	
	18.53 - 18.77 m. Alt'd dk grn subvolcanic(?). Stringers @ 17° and 24° to CA (<0.5-3 mm). Tr of finely dis py and po; associated with veins. Veins filled with gy-white qtz and iron-carb(?).		Stringers @ 17° and 24° to CA. Tr py cp.	5088	18.53-18.77	0.24	1	0.3	85	17	
	18.77 - 19.44 m. Dk grn alt'd subvolcanic. Stringers @ 30° and 82° to CA of qtz and iron-carb(?). Tr of py adjacent and in veins.		Stringers @ 30° and 82° to CA. Tr py.	5089	18.77-19.44	0.67	1	0.4	168	32	

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: June 26, 1988 Hole No.: CA88-3

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
12.91 - 23.42 (cont.)	19.44 - 19.84 m. Dk grn alt'd subvolcanic(?) with stringers @ 32° to CA (approx. 3 mm). Tr of dis py in veins.		Stringers @ 32° to CA. Tr dis py.	5090	19.44-19.84	0.50	1	0.1	76	10	
	20.30 m. Fault(?) subparallel to CA.										
	22.12 - 22.37 m. Alt'd subvolcanic (grn) with blebby qtz veins and patches of iron-carb @ approx. 33° to CA. Contains 2-3% dis py throughout and 1% po in veins.		Veins @ 33° to CA. 2-3% dis py, 1% cp.	5091	22.12-22.37	0.25	7	0.6	274	58	
	22.37 - 22.87 m. Dk grn andesite with feldspar phenocrysts. Randomly orientated hairline frcts filled with qtz and iron-carb. Fault @ 30° to CA. Tr of finely dis py in frcts.		Fault @ 30° to CA. Tr dis py.	5092	22.37-22.87	0.50	1	0.3	142	9	
	22.87 - 23.42 m. Dk grn andesite with feldspar phenocrysts. Stringers @ 15° to CA filled with qtz and epidote. Foliation @ 32° to CA. Locally, tr to 3% dis py, dominantly parallel with foliation.		Stringers @ 15° to CA. Foliation @ 32° to CA. Tr to 3% dis py.	5093	22.87-23.42	0.55	2	0.6	256	20	
23.42 - 24.63	Dk grn, med to fine-grained, alt'd diorite with veins of qtz and iron-carb @ 12° to CA (approx. 4 mm). Mafic minerals have alt'd to chlorite. Contact @ 26° to CA.		Ctc @ 26° to CA.								
24.63 - 29.30	Dk grn, fine-grained, andesite with qtz, carb and iron-carb filled veins @ 27°, 70°, 89° and 24° to CA. Fault @ 35° to CA.										

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
24.63 - 29.30 (cont.)	27.15 - 27.36 m. Dk grn andesite. Intensely alt'd; silicified and epidotized. Gy qtz vein @ 54° to CA. Tr of finely dis py.	qtz and epidote	Vein @ 54° to CA. Tr dis py.	5094	27.15-27.36	0.21	5	0.1	24	2	
29.30 - 29.57	Dk grn, fine-grained diorite with qtz-carb filled stringers and patchy epidote alt'n. Contact @ 65° to CA.		Ctc @ 65° to CA.								
29.57 - 57.66	Dk grn, fine-grained andesite with whitish grn feldspar phenocrysts (euhedral-subhedral) ranging from 1-3.5 mm. Contact @ 59° to CA. Frcts (1-3 mm) @ 31°, 37°, 21° and 70° to CA.		Ctc @ 59° to CA.								
	34.51 - 35.66 m. Alt'd andesite. Chlorite and patchy-intense epidote alt'n. Veining @ 37° to CA (3 to 10 mm) filled with epidote and qtz. Locally up to 5% py in masses (10 mm) in epidote alt'd veins.	chlorite and epidote	Veining @ 37° to CA. Up to 5% py in alt'd zones.	5095	34.51-35.66	1.15	12	0.9	393	39	
	36.08 - 36.67 m. Alt'd diorite(?).										
	37.09 - 37.44 m. Andesite with feldspar phenocrysts(?). Gy qtz vein (13 mm) @ 26° to CA with mnr amounts of epidote alt'n. Mnr qtz-carb veins @ 44° to CA (1-3 mm). Tr to 2% dis py on frct surfaces.	epidote	Vein @ 26° to CA. Stringers @ 44° to CA. Tr to 2% dis py.	5096	37.09-37.44	0.35	6	0.1	33	15	
	37.44 - 37.79 m. Andesite porphyry with 12 mm vein of qtz and iron-carb @ 20° to CA. Tr of dis py in vein.		Vein @ 20° to CA. Tr dis py in vein.	5097	37.44-37.79	0.35	2	0.1	43	9	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
29.57 - 57.66 (cont.)	38.73 - 39.07 m. Alt'd andesite(?). Epidotized and silicified. Vein (3 cm) @ 38° to CA. Alt'n is parallel to vein orientation. Tr of dis py in areas of alt'n.		Broken core. Vein @ 38° to CA. Tr dis py.	5098	38.73-39.07	0.20	2	0.1	102	29	
	39.07 - 39.30 m. Alt'd diorite.										
	39.30 - 39.81 m. Foliated diorite @ 24° to CA.		Foliation @ 24° to CA.								
	39.81 - 57.66 m. Andesite with feldspar phenocrysts. Contact @ 26° to CA.										
	46.79 m. Fault @ 6° to CA.										
	48.53 - 50.35 m. Dk grn, fine-grained andesite; no phenocrysts. Numerous hairline frcts @ 16°, 42°, 36° and 45° to CA. Patchy epidote alt'n. Tr to 3% finely dis py mostly as frct fill. Silicified.	epidote and qtz	Frcts @ 16°, 42°, 36° and 45° to CA. Tr to 3% py.	5099	48.53-50.35	1.82	1	0.2	84	11	
	50.75 - 51.36 m. Alt'd diorite(?).		Shear @ 12° to CA.								
	53.67 - 53.80 m. Andesite feldspar porphyry sheared @ 12° to CA with large (1-3 cm) pockets of qtz. Tr of finely dis py.		Tr dis py.	5100	53.67-53.80	0.13	1	0.1	58	3	
	53.91 - 53.96 m. Fault @ 53° to CA.										
57.66 - 67.73	Med to fine-grained, alt'd, grn diorite. Contact @ 17° to CA. Poorly developed foliation @ approx. 30° to CA. Veins (2-4 mm) @ 45°, 12° and 52° to CA filled with qtz and iron-carb(?).		Ctc @ 17° to CA. Foliation @ 30° to CA.								

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
57.66 - 67.73 (cont.)	65.62 - 65.58 m. Fault @ 26° to CA.		Fault 26° to CA.								
	66.61 - 67.61 m. Alt'd diorite. Intensely epidotized with veins @ 40° and 12° to CA (approx. 4 mm) filled with qtz and epidote. Tr of dis py in alt'd regions of rock.	epidote	Veins @ 40° and 20° to CA. Tr dis py.	5101	66.61-67.61	1.00	1	0.1	70	2	
67.73 - 74.10	Alt'd andesite feldspar porphyry. Intensely epidotized and silicified with veins @ 36°, 20° and 30° to CA (3-5 mm) filled with epidote and carb-qtz veins.										
	67.73 - 68.75 m. Alt'd andesite(?). Intensely epidotized and silicified. Veins of epidote and qtz-carb @ 23°, 15° and 8° to CA. Qtz-carb occurs in blebs 1-4 cm in size. Tr of finely dis py.	epidote and qtz	Veins @ 23°, 15° and 8° to CA. Tr dis py.	5102	67.73-68.75	1.02	1	0.1	161	16	
	69.19 - 69.95 m. Alt'd andesite porphyry. Intensely epidotized, silicified and chloritized with epidote veins @ 15°, 34° and 44° to CA. Tr of finely dis py.	epidote, qtz and chlorite	Veins @ 15°, 34° and 44° to CA. Tr dis py.	5103	69.19-69.95	0.76	1	0.1	1	24	
	69.95 - 70.37 m. Alt'd andesite feldspar porphyry. Intensely silicified, and epidotized. Moderately chloritized. Tr to 3% py masses (2-3 mm) and cubic py (1 mm).	qtz and epidote	Tr to 3% py masses and cubes.	5104	69.95-70.37	0.42	4	0.1	11	48	
	70.37 - 71.74 m. Alt'd andesite. Locally, intensely epidotized and silicified; with numerous x-ctg hairline frcts. Tr amounts of dis py.	epidote and qtz	Tr dis py.	5105	70.37-71.74	1.37	1	0.1	20	10	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
67.73 - 74.10 (cont.)	71.74 - 72.24 m. Alt'd andesite. Intensely epidotized and silicified. Qtz-carb vein (6 mm) parallel to CA. Approx. 3% py masses within vein (2-3 mm) and a tr of cp.	qtz and epidote	Vein parallel to CA. 3% py masses. Tr dis cp.	5106	71.74-72.24	0.50	4	0.4	171	13	383 Zn
	72.24 - 73.10 m. Alt'd andesite porphyry. Locally intensely epidotized and silicified. Moderate chloritization. Veining @ 12° to CA. Tr of dis py.	epidote, qtz and chlorite	Vein @ 12° to CA. Tr dis py.	5107	72.24-73.10	0.86	1	0.1	42	9	
74.10 - 81.38	Ctc @ 20° to CA. Med to fine-grained, grn diorite, with dk grn fine-grained volcanic(?) xenoliths. Frcts; filled with qtz-carb and/or epidote @ 33°, 55° and 49° to CA.										
	79.12 - 79.32 m. Alt'd diorite. Locally epidotized and silicified. Cut by 3-4 mm qtz-carb veins @ 45° and 10° to CA. Tr of dis py in veins.	epidote and qtz	Tr dis py.	5108	79.12-79.32	0.20	1	0.1	2	33	
	79.75 - 80.24 m. Grn, fine-grained, xenolith(?).										
	79.95 - 80.05 m. Contains 4.5 cm wide vein @ 40° to CA filled with qtz and patches of epidote (0.5 - 4 cm). Tr of dis py.		Vein @ 40° to CA. Tr dis py.	5109	79.95-80.05	0.10	1	0.1	17	3	
81.38	EOH										

MPH CONSULTING LIMITED
Project: Contact Au
Project No.: V248-3
Client: Parallax Development Corp.

Length (m): 79.25
Dip : -45°
Azimuth : 270°
Core Size : NQ
Casing : 1.83 m

Grid: McNeil Peninsula L2+45N, 1+90E
Collar elev.: 68 m
Remarks: Sample nos. 5835 to 5839

Drilled: June 11-12/88
Contractor : Burwash
Logged by : C. Naas
Date logged: July 17/88

Objective: See drill hole CA88-4 summary in text of report.

Hole No.: CA88-4
Hole Survey Type: None
Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 1.83	Casing										
1.83 - 79.25	Diorite. Med-grained diorite to fine-grained slightly more mafic diorite with slight to mod foliation. Diorite is locally alt'd to epidote, qtz, and carb. Epidote, qtz, and carb stringers and veins are common. Rare volcanic xenoliths(?) are gy, fine-grained tuffs/flows(?). Tr py is common throughout, especially in the volcanic rocks.										
	23.61 - 24.21 m. Qtz vein @ 25° to CA.	qtz and carb	Tr py.	5835	23.61-24.21	0.60	4	0.1	19	3	
	28.91 - 29.41 m. Qtz, epidote and carb stringers.	qtz, carb and epidote	Tr to 1% py.	5836	28.91-29.41	0.50	1	0.3	183	43	
	34.18 - 34.36 m. Qtz, epidote and carb stringers.	qtz, carb and epidote	1% py.	5837	34.18-34.36	0.18	5	0.5	136	31	
	35.76 - 36.21 m. Qtz, epidote and carb stringers.	qtz, carb and epidote	1% py.	5838	35.76-36.21	0.45	1	0.1	9	27	
	36.21 - 36.96 m. Qtz, epidote and carb stringers.	qtz, carb and epidote	1% py.	5839	36.21-36.96	0.75	2	0.4	122	53	
79.25	EOH										

MPH CONSULTING LIMITED
Project: Contact Au
Project No.: V248-3
Client: Parallax Development Corp.

Length (m): 78.64
Dip : -70°
Azimuth : 270°
Core Size : NQ
Casing : 1.83 m

Grid: McNeil Peninsula L2+45N, 1+90E
Collar elev.: 68 m
Remarks: Sample nos. 5840 to 5842

Drilled: June 12-13/88
Contractor : Burwash
Logged by : C. Naas
Date logged: July 17/88

Objective: See drill hole CA88-5 summary in text of report.

Hole No.: CA88-5
Hole Survey Type: None
Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 1.83	Casing										
1.83 - 78.64	Med-grained diorite to fine-grained slightly more mafic diorite. Diorite is locally alt'd to epidote, qtz and carb. Epidote, qtz and carb veining is common. Volcanic xenoliths(?) are rare. Xenoliths(?) are grn, fine-grained tuff/flow(?). Tr py is common, especially in the volcanic clasts. Both the diorite and volcanics show a slight to mod foliation.										
	24.00 - 24.35 m. Extreme qtz ± epidote alt'n of diorite. Pale grn diorite has no original textures.			5840	24.00-24.35	0.35	1	0.1	29	3	
	29.02 - 29.32 m. Qtz vein accompanied by intense epidote and carb stringers. Sulphides found in qtz vein. Qtz vein 10 cm wide at 60° to CA.		Tr to 1% py.	5841	29.02-29.32	0.30	1	0.1	22	21	
	30.72 - 31.07 m. Same as above.		Tr to 1% py.	5842	30.72-31.07	0.35	1	0.1	8	50	
78.64	EOH										

MPH CONSULTING LIMITED
Project: Contact Au
Project No.: V248-3
Client: Parallax Development Corp.

Length (m): 81.38
Dip : -45°
Azimuth : 270°
Core Size : NQ
Casing : 3.05 m

Grid: McNeil Peninsula L3+55N, 2+90E
Collar elev.: 42 m
Remarks: Sample nos. 5110 to 5154

Drilled: June 13-15/88
Contractor : Burwash
Logged by : G. Yip
Date logged: June 20/88

Objective: See drill hole CA88-6 summary in text of report.

Hole No.: CA88-6
Hole Survey Type: None
Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 3.05	Casing										
3.05 - 6.29	Alt'd dk gy-grn folded diorite. Intensely epidotized.		Broken. Foliation 17° to CA.								
6.29 - 62.10	Dk gy, very fine-grained speckled andesite(?). Locally porphyritic with subhedral - euhedral feldspars ranging from 1-4 mm, intensely epidotized, qtz-carb-epidote vnlts @ 40°, 25° and 58° to CA, shears @ 32°, 42° and 45° to CA. Within are pockets of med to fine-grained intrusive with a poorly developed gneissic fabric. Locally may contain xenoliths (>15 cm) 40-60% anhedral - euhedral feldspars ranging from 1-4 mm, 30-50% dk grn anhedral mafics ranging from 0.5 - 2.5 mm (generally alt'd to chlorite) and a maximum of 10% anhedral qtz grains ≤1.5 mm.										
	4.53 - 4.83 m. Dk gy, alt'd, fine-grained diorite(?) as above. Cut by epidote-carb filled frcts @ 35° and 45° to CA (1-3 mm). Chlorite alt'n of host. Tr of dis py within epidotized rock.	epidote and chlorite	Broken. Tr of dis py.	5110	4.53-4.83	0.30	5	2.7	19	18	
	6.29 - 7.12 m. Fault @ 35° to CA also contact between diorite (see 4.53 - 4.83) and a dk gy speckled, porphyritic andesite(?).										

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
6.29 - 62.10 (cont.)	7.60 - 7.61 m. Shear(?) @ 61° to CA with massive gy-grn qtz-carb and epidotized margins. Fewer porphyrys.										
	7.03 - 8.23 m. Alt'd and foliated andesite as above. Intensely epidotized and silicified. Lightly carbonatized. Epidote filled frcts @ 17°, 23°, 44°, 35° and 55° to CA (0.5-2.5 mm). Tr to 5% finely dis py. Foliation @ approx. 20° to CA.	epidote, qtz and carb	Frcts @ 17°, 23°, 35° and 44° to CA. Foliation @ 20° to CA. Tr to 5% dis py.	5111	7.03-8.23	1.20	3	0.2	53	33	
	10.27 - 11.28 m. Foliated diorite with xenoliths and randomly orientated hairline frcts filled with epidote. Foliation approx. 2-3° to CA. Chlorite alt'n of mafics.	chlorite	Foliation @ 2-3° to CA.								
	11.28 - 11.88 m. Grading into andesite contact not visible, with 3-5% feldspar porphyrys.		Broken core.								
	12.72 - 12.77 m. Shear @ 44° to CA. Fewer porphyrys.		Broken core. Shear @ 44° to CA.								
	14.20 - 14.81 m. Med grn, alt'd fine-grained andesite(?) as above. Mod epidotized and intensely chloritized. Tr to 2% finely dis py.	epidote and chlorite	Broken core. Tr to 2% dis py.	5112	14.20-14.81	0.61	1	0.2	29	10	
	14.81 - 15.31 m. Med to light grn alt'd fine-grained andesite(?). Intensely epidotized and mod chloritized. Weak banding of epidote alt'n and carb @ 12° to CA. Tr of finely dis py.	epidote and chlorite	Banding @ 12° to CA. Tr dis py.	5113	14.81-15.31	0.50	1	0.2	1	49	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
6.29 - 62.10 (cont.)	17.19 - 18.59 m. Dk grn, fine-grained, porphyritic andesite with 5-7% feldspar phenocrysts.										
	18.29 - 18.74 m. Andesite as above. Med to lt grn, alt'd andesite. Mod intensely epidotized and intensely silicified. Frcts (approx. 2 mm) @ 23° to CA. Filled with gy-white qtz-carb; walls of host are alt'd to chlorite and/or epidote. Tr of finely dis py.	epidote and qtz	Frcts @ 23° to CA. Tr dis py.	5114	18.29-18.74	0.45	8	0.6	235	19	
	18.59 - 21.67 m. Dk gr fine-grained andesite.										
	20.31 - 20.65 m. Lt grn epidotized andesite.										
	20.72 - 20.75 m. Shear @ 61° to CA with 12 mm patches of qtz and mnr amounts of chlorite.										
	21.37 - 21.69 m. Gy-grn alt'd andesite(?) as above. Very intensely carb. Mod epidotized and silicified. Mineralization occurs along the boundary between the very intensely carb andesite (gy-white) and the mod carb andesite (grn). Contains 3-5% dis py.	carb, epidote and qtz	3-5% dis py.	5115	21.37-21.69	0.32	2	0.7	161	19	
	20.75 - 22.32 m. Porphyritic andesite with a poorly defined foliation.										

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
6.29 - 62.10 (cont.)	22.32 - 22.70 m. Sheared andesite(?) with 2.5 cm pockets intrusive. Shear @ 50-63° to CA. Mod chlorite alt'n and mnr epidotization.										
	22.70 - 24.20 m. Med grn aphanitic andesite as above. Mnr foliation defined by patches of chlorite (3 mm) @ 52° to CA.										
	24.20 - 24.59 m. Medium-grained diorite(?) with fine-grained, rounded xenoliths (up to 5 cm).										
	24.59 - 37.38 m. Med grn, fine-grained andesite as above.										
	26.66 - 27.04 . Dk grn andesite as above. Mnr amounts of chlorite and epidote alt'n. Contains 5-7% dis py on frct surfaces.	chlorite and epidote	5-7% dis py.	5116	26.66-27.04	0.38	6	1.1	382	45	
	27.88 - 28.32 m. Med grn andesite as above with numerous hairline frcts filled with epidote. Host is chloritized and locally intensely epidotized. Banding of alt'n @ 64° to CA. Contains 3-5% dis py in host and as frct fill.	epidote and chlorite	Alt'n @ 64° to CA. 3-5% dis py in frct and host.	5117	27.88-28.32	0.44	22	0.5	148	29	
	28.64 - 29.30 m. Med grn andesite as above. Patchy epidote alt'n of host, and silicification. Frcts (<0.5 mm) are filled with epidote @ 74°, 46° and 29° to CA. Tr to 3% dis py with approx. 5% dis py in frcts.	epidote and qtz	Frcts @ 74°, 46° and 29° to CA. Tr to 3% dis py in host; 5% dis py in frct.	5118	28.64-29.30	0.56	1	0.5	179	17	588 Zn

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
6.29 - 62.10 (cont.)	30.73 - 32.49 m. Med grn andesite as above. Silicified and locally epidotized. Hairline frcts filled gy qtz and/or epidote and localized patches of chlorite (0.5-2 mm). Contains 2-3% dis py.	qtz and epidote	Broken core. 2-3% dis py.	5119	30.73-32.49	1.76	1	0.5	152	36	
	32.49 - 33.85 m. Alt'd andesite as above. Silicified, carb, epidotized and patchy chloritization. All is localized, to various degrees. Contains 3-5% dis and cubic py throughout.	qtz, carb, epidote and chlorite	Broken core. 3-5% dis & cubic py.	5120	32.49-33.85	1.36	1	0.1	117	37	
	34.35 - 34.84 m. Andesite as above with 1-2 mm patches of chlorite.										
	35.24 - 35.66 m. Intensely alt'd, gy-white andesite(?).										
	35.66 - 36.27 m. Gy-white recrystalized limestone/intense carb. Contact @ 44° to CA. Contains 2-3% finely dis py.	carbonate	Contact @ 44° to CA. 2-3% dis py.	5121	35.66-36.27	0.61	1	0.2	102	7	
	36.27 - 36.63 m. Medium-grained dioritie as above. Contact with Limestone @ 20°. Foliation @ 15° to CA.		Contact @ 20° to CA. Foliation @ 15° to CA.								
	36.63 - 37.66 m. Med grn, fine-grained andesite as above.										
	37.66 - 37.83 m. Med grain diorite as above.										
	37.83 m. Contact @ 65° to CA.		Contact @ 65° to CA.								
	37.83 - 38.36 m. Aphanitic andesite as above.										

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
6.29 - 62.10 (cont.)	38.36 m. Contact @ 34° to CA.		Contact @ 34° to CA.								
	38.36 - 39.07 m. Med-grained diorite as above.										
	39.07 - 40.08 m. Med grn andesite as above.										
	39.16 m. Fault @ 65° to CA.		Fault @ 65° to CA.								
	40.08 - 40.68 m. Medium-grained dioritic intrusive, in the form of non-descriptive masses within the andesite (5-10 cm).										
	40.68 - 62.02 m. Med to dk grn andesite as above. Locally alt'd with increasing number of qtz and epidote stringers.										
	43.89 - 44.79 m. Med to dk gy-grn alt'd andesite(?). Intensely silicified and locally mod to intensely epidotized. Alt'n is banded(?) @ 37-49° to CA. Contains 7-10% finely dis py and pyritic masses (1-5 mm).	qtz and epidote	Banding 37-49° to CA. 7-10% dis & masses of py.	5122	43.89-44.79	0.90	1	1.8	602	36	447 Zn
	44.79 - 45.83 m. Dk gy alt'd andesite(?) as above. Intensely epidotized and silicified. Locally feldspar fragments(?) alt'd to epidote (1-9 mm) and blebs of qtz with diffuse boundaries (2-5 mm). Contains 5-7% finely dis py.	epidote and qtz	5-7% dis py.	5123	44.79-45.83	1.04	6	1.3	409	55	817 Zn

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
6.29 - 62.10 (cont.)	46.49 - 52.57 m. Dk gy andesite as above with 3-5% greenish-white euhedral to subhedral feldspar phenocrysts (1-18 mm) and blebs of grey-white qtz (1-3 mm).										
	46.76 - 46.92 m. Dk gy andesite with feldspar phenocrysts as above (see 46.49-52.57 m). Cut by hair-line frcts @ 76° and 64° filled with greenish-white qtz or epidote. Tr to 3% finely dis py; generally associated with phenocrysts.	epidote	Frcts 76° and 64° to CA. Tr to 3% dis py.	5124	46.76-46.92	0.16	2	0.4	101	60	609 Zn
	47.17 - 47.84 m. Dk gy, alt'd andesite with feldspar phenocrysts (see 46.49-52.57 m). Alignment of phenocrysts (2-3 mm) @ approx. 30° to CA. Contains 2-3% finely dis py and locally up to 5% po in masses. Mnr silicification.	epidote and qtz	Phenocrysts aligned @ 30° to CA. Veins @ 47° to CA. 2-3% dis py. Locally 5% po.	5125	47.17-47.84	0.67	1	1.0	244	71	
	47.84 - 48.32 m. Dk gy andesite as above with feldspar phenocrysts. Mod to intensely epidotized and silicified. Qtz-carb-epidote vein @ 45° to CA (3-4 mm). Contains 3-5% finely dis py and up to 7% on frct surfaces.	epidote and qtz	Vein @ 45° to CA. 3-5% dis py. Up to 7% on frct surfaces.	5126	47.84-48.32	0.48	1	0.7	214	110	
	48.32 - 48.55 m. Dk gy andesite as above with feldspar phenocrysts. Frcts (3-5 mm) filled with qtz-epidote; randomly orientated. Contains 3-5% finely dis py, 3% po and a tr of asp in qtz-epidote filled frcts.	epidote	3-5% dis py, 3% po, tr asp.	5127	48.32-48.55	0.23	1	0.7	214	110	

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: June 20, 1988 Hole No.: CA88-6

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
6.29 - 62.10 (cont.)	48.55 - 49.27 m. Dk gy alt'd andesite(?) as above. Very intensely silicified. Mod to intensely epidotized. Fault @ 35° to CA and a vein @ 42° to CA (3 mm). Contains 7-10% finely dis py and a tr to 2% po.	qtz and epidote	Fault 35° to CA. Vein @ 42° to CA. 7-10% dis py, tr to 2% po.	5128	48.55-49.27	0.72	19	1.5	406	156	
	49.27 - 49.51 m. Med to dk grn alt'd andesite(?) as above. Intensely epidotized. Contains 3-5% dis py; tr to 3% po blebs (3 mm); up to 10% py on frct surfaces.	epidote	Broken core. 3-5% dis py, 3% po, tr sp.	5129	49.27-49.51	0.24	8	1.6	559	229	4422 Zn
	49.51 - 50.12 m. Dk gy andesite as above, grading into feldspar phenocrysts with patches of granodiorite(?) (4-5 cm). Intensely silicified and mod epidotized. Contains 5-7% dis py and a tr to 3% po (locally).	qtz and epidote	5-7% dis py, tr to 5% po.	5130	49.51-50.12	0.61	5	0.9	262	101	800 Zn
	50.12 - 50.55 m. Dk gy-grn andesite with feldspar phenocrysts and blebs of qtz. Intensely silicified and carb. Frcts (1-3 mm) filled with epidote @ 65°, 54° and 60° to CA. Locally 3-5% dis py and py cubes.	epidote and qtz	Frcts @ 64°, 54° and 60° to CA, 3-5% dis & cubic py.	5131	50.12-50.55	0.43	1	0.3	44	60	
	50.55 - 51.00 m. Dk gy andesite as above with feldspar phenocrysts. Frcts filled with qtz, carb and epidote. Contains 5% dis py; locally 3% dis po.	qtz and epidote	Broken core. 5% dis py. Locally 3% dis po.	5132	50.55-51.00	0.45	1	0.7	160	76	1067 Zn

MPH CONSULTING LIMITED   Project: Contact Au   Logged by: G. Yip   Date: June 20, 1988   Hole No.: CA88-6

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
6.29 - 62.10 (cont.)	51.00 - 52.43 m. Dk gy andesite(?) as above with feldspar phenocrysts. Epidote filled frcts @ 54° and 78° to CA (1-2 mm). Intensely silicified with patchy epidote alt'n (approx. 3 mm). Contains 5-7% finely dis py throughout.		Broken core. Frcts @ 54° and 78° to CA. 5-7% dis py.	5133	51.00-52.43	1.43	7	0.9	265	139	
	52.43 - 53.04 m.		Pebbly								
	53.16 - 53.80 m. Med grn andesite as above. Intensely silicified and mod epidotized and carbonatized. Qtz-carb vnlts @ 23°, 36° and 43° to CA (1-3 mm). Approx. 3% dis po in host and as frct fill and tr py.	qtz and epidote	Vnlts @ 23°, 36° & 43° to CA. 3% dis po, tr py.	5134	53.16-53.80	0.64	10	0.3	100	15	
	53.80 - 54.15 m. Med grn, alt'd andesite(?) as above. Intensely silicified, mod epidotized with mnr amounts of carb. Contains 3% po in masses (approx. 1-25 mm).	qtz, epidote and carb	3% po in masses.	5135	53.80-54.15	0.35	1	0.4	291	6	
	54.15 - 54.82 m. Med grn, alt'd andesite(?). Intensely silicified, epidotized and locally carb. Alt'n appears to be banded @ 47-55° to CA. Contains 3% dis py and a tr of asp.	qtz, epidote and carb	Banding @ 47-55° to CA. 3% dis py, tr asp.	5136	54.15-54.82 Au assay 0.028 oz/ton (0.96 g/t)	0.68	775	0.6	73	5	
	54.82 - 55.97 m. Alt'd. Intensely epidotized, silicified and localized carbonatization. Randomly orientated hairline frcts. Contains 2% asp and tr of py.	qtz, epidote and carb	Broken core. 2% asp, tr py.	5137	54.82-55.97	1.15	1	0.2	12	855	
	55.97 - 56.76 m. Alt'd andesite(?). Intensely silicified and epidotized. Contains 3-5% po in masses ranging 1-5 mm.	qtz and epidote	3-5% po.	5138	55.97-56.76	0.79	1	0.4	89	16	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
6.29 - 62.10 (cont.)	56.76 - 57.70 m. Alt'd andesite(?). Banding defined by epidote alt'n and qtz layers @ 52° to CA. Contains 3% po in masses, approx. 3% py as layers in banding (mm scale).	epidote and qtz	Broken core. Banding @ 52° to CA. 3% py, 3% po.	5139	56.76-57.70	0.94	2	0.6	126	113	
	57.70 - 58.34 m. Alt'd andesite(?). Alt'n and mineralization occurs in bands @ 52° to CA. Contains 3% po in masses (1-9 mm). Tr amounts of cp (banding in mm scale).	epidote, qtz and carb	Banding @ 52° to CA. 3% po, tr cp.	5140	57.70-58.34 Ag assay 0.14 oz/ton (4.8 g/t)	0.64	1	4.8	1295	7	
	58.34 - 59.00 m. Alt'd andesite(?). Banding of alt'n @ 60° to CA (mm scale). Trace amounts of dis asp and cp. Contains 2% po in masses (approx. 3 mm) and 3% dis py.	epidote, qtz and carb	Banding @ 60° to CA. Tr asp & cp, 2% po in masses, 3% dis py.	5141	58.34-59.00	0.66	2	2.6	654	31	
	59.00 - 59.65 m. Alt'd andesite(?). Banded (mm scale) @ 58° to CA. Contains 2-3% finely dis py.	qtz, epidote and carb	Banding @ 58° to CA. 2-3% dis py.	5142	59.00-59.65	0.65	1	0.7	210	16	
	59.65 - 60.59 m. Alt'd andesite(?). Banding (mm scale) @ 65° to CA. Contains 3% po in masses (1-5 mm), tr amounts of dis py and cp.	qtz, epidote and carb	Banding @ 65° to CA. 3% po in masses, tr dis cp and py.	5143	59.65-60.59	0.94	205	2.0	431	16	
	60.59 - 61.04 m. Andesite. Locally epidotized 3-4% po in masses (1-6 mm), approx 3% dis and cubic py in host and as frct fill. Tr amounts of cp.	epidote, qtz and carb	3-4% po, 3% dis and cubic py, tr cp.	5144	60.59-61.04	0.45	220	1.3	316	166	1088 Zn
62.10 - 66.92	Med to fine-grained diorite with gneissic textures and locally epidotized. Tr of finely dis py.	epidote	Foliation @ 37° to CA.								

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
62.10 - 66.92 (cont.)	62.19 - 62.36 m. Massive gy-white qtz vein @ 37° to CA. Random hair-line frcts with epidote. Contains 1-2% dis py and tr of cp.	epidote	Vein @ 37° to CA. 1-2% dis py, tr cp.	5145	62.19-62.36	0.17	1	0.2	73	45	
	62.73 - 62.85 m. Alt'd andesite. Med grn with 2-3% dis py and a tr of cp. Epidote and qtz alt'n.	epidote and qtz	2-3% po, tr cp.	5146	62.73-62.85	0.12	1	0.3	75	58	
	62.85 - 62.97 m. Massive gy-white qtz vein @ 39° to CA. Contains 1-2% cubic (approx. 1 mm) py along contact (3.5 cm wide).	epidote	Vein @ 39° to CA. 1-2% cubic py.	5147	62.85-62.97	0.12	1	0.1	82	23	
	63.81 - 64.31 m. Massive qtz veins @ 43° and 37° to CA (approx. 6 cm wide). Tr of dis py.	epidote	Vein @ 43° & 37° to CA. Tr dis py.	5148	63.81-64.31	0.50	2	0.8	164	45	
	64.94 - 65.00 m. Alt'n zone @ 45° to CA.		Alt. zone 45° to CA.								
66.92 - 67.12	Alt'd andesite with numerous frcts (1-3 mm) filled with epidote. Tr to 2% dis py.	epidote and qtz	Broken core. Tr to 2% dis py.	5149	66.92-67.12	0.20	31	0.5	161	36	
	66.03 - 67.12 m. Dk gy andesite(?). Contact(?)/alt'n zone @ 29° to CA.		Contact @ 29° to CA.								
67.12 - 68.08	67.12 - 67.42 m. Alt'd andesite(?) with blebs of dioritic intrusive. Contains 2-3% cp and tr of py in masses (1-3 mm).	epidote and qtz	2-3% cp, tr py.	5150	67.12-67.42	0.30	152	10.5	3126	113	757 Zn
	67.75 - 68.08 m. Alt'd andesite(?). Numerous randomly orientated vnlts filled with qtz-carb. Tr to 3% finely dis py.	qtz and epidote	Tr to 3% dis py.	5151	67.75-68.08	0.33	15	0.5	73	22	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
68.08 - 81.38	Med to fine-grained diorite with andesite packages (gneissose).										
	73.80 - 73.84 m. Shear @ 50° to CA.		Shear @ 50° to CA.								
	74.35 - 74.38 m. Shear @ 70° to CA.		Shear @ 70° to CA.								
	74.40 m. Foliation @ 60° to CA.		Foliation @ 60° to CA.								
	74.97 - 75.29 m. Qtz vein; size(?). Tr of finely dis py.		Broken core. Vein @ 44° to CA. Tr py.	5152	74.97-75.00	0.03	15	0.9	224	176	
	75.00 - 75.29 m. Refer to sample 74.97 - 75.29 m.		Broken core. Veins @ 44° to CA. Tr py.	5153	75.00-75.29	0.29	6	0.1	66	9	
	77.78 - 77.83 m. Qtz vein, 2.2 cm wide, @ 53° to CA. Tr of finely dis py.		Vein @ 53° to CA. Tr dis py.	5154	77.78-77.83	0.05	2	0.3	62	10	
81.38	EOH										

MPH CONSULTING LIMITED Project: Contact Au Project No.: V248-3 Client: Parallax Development Corp.	Length (m): 73.00 Dip : -70° Azimuth : 270° Core Size : NQ Casing : 3.05 m	Grid: McNeil Peninsula L3+55N, 2+90E Collar elev.: 42 m Remarks: Sample nos. 5332 to 5342, 5344 to 5393	Drilled: June 15-16/88 Contractor : Burwash Logged by : G. Yip Date logged: July 5/88	Objective: See drill hole CA88-7 summary in text of report.	Hole No.: CA88-7 Hole Survey Type: None Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 3.05	Casing										
3.05 - 21.73	Dk grn, fine-grained andesite. Locally porphyritic with feldspar phenocrysts (1-3 mm). Stringers are generally epidotized. Mafics have generally alt'd to chlorite and feldspars to epidote. Some frcts are filled with carb.										
	6.62-7.10 m. Alt'd andesite. Dk grn; chloritized. Numerous x-ctg hairline frcts filled with epidote. Contains 2-3% finely dis py.	chlorite and epidote	2-3% dis py.	5332	6.62-7.10	0.48	5	0.3	72	44	
	8.70 - 8.82 m. Alt'd andesite. Med grn. Localized epidote alt'n in stringers @ 49° to CA. Chlorite alt'n of host.	epidote and chlorite	Veins @ 49° to CA. Tr dis py.	5333	8.70-8.82	0.12	1	0.2	3	10	
	17.58 - 17.90 m. Andesite. Dk grn with spotty epidote alt'n and stringers filled with epidote. Qtz vein (3 mm) @ 40° to CA with an epidote halo. Chlorite alt'n and silicification of host. Tr to 2% dis py.	epidote, chlorite and qtz	Vein @ 40° to CA. Tr to 2% dis py.	5334	17.58-17.90	0.32	1	0.3	48	16	
	18.79 - 19.12 m. Alt'd andesite. Greenish-brn. Intensely epidotized and silicified with garnet growth. Mildly carb. Tr of dis py.	epidote, qtz and garnet	Tr dis py.	5335	18.79-19.12	0.33	5	0.5	43	22	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
3.05 - 21.73 (cont.)	20.28 - 20.56 m. Andesite porphyry. Dk grn with subhedral feldspar phenocrysts (2-3 mm). Localized epidote alt'n, silicification and chloritization of host. Contains 2-3% dis py.	epidote, chlorite and qtz	2-3% dis py.	5336	20.28-20.56	0.28	1	0.7	144	17	
21.73 - 23.87	21.73 - 22.09 m. Recrystallized limestone, and 70% massive sulphides - skarn. Contains 90% massive po, 10% dis py and a tr of asp(?).		90% massive po, 10% dis py, tr asp.	5337	21.73-22.09	0.36	7	3.4	1201	39	
	22.09 - 22.51 m. Recrystallized limestone. Dk gy and sugary. Tr of dis po, and to a lesser extent, py.		Tr dis po and py.	5338	22.09-22.51	0.42	1	0.3	19	5	
	22.51 - 22.79 m. Recrystallized limestone. Dk gy and sugary. Tr of dis po(?).		Tr dis po.	5339	22.51-22.79	0.28	1	0.5	15	6	
	23.51 - 23.87 m. Recrystallized limestone. Dk gy and sugary. Tr of finely dis py.		Tr dis py.	5340	23.51-23.87	0.36	1	0.3	13	4	
23.87 - 25.59	Andesite as above (see 3.05-21.73). Contact @ 90° to CA.										
	23.87 - 24.10 m. Alt'd andesite. Contact @ 90° to CA. Epidotized, chloritized and silicified. Mod carb. Tr to 2% finely dis py.	chlorite, epidote, qtz, and carb	Contact @ 90° to CA. Tr to 2% dis py.	5341	23.87-24.10	0.23	5	0.2	14	50	
25.59 - 27.22	Medium-grained diorite. Contact @ 25° to CA. Approx. 25% mafics (alt'd to chlorite) and 75% feldspars. Tr of finely dis py.										

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
27.22 - 29.91	Dk grn, fine-grained andesite with qtz stringers (<0.5 mm) locally alt'd to epidote. Contact @ 51° to CA.										
29.91 - 30.49	Medium-grained diorite as above. Feldspars are alt'd to epidote and the mafics to chlorite. Contact @ 62° to CA.										
	29.91 - 30.28 m. Alt'd diorite. Feldspars have alt'd to epidote and the mafics to chlorite. Randomly orientated frcts (1-3 mm) filled with epidote. Tr of finely dis py.	epidote and chlorite	Tr dis py.	5342	29.91-30.28	0.37	12	0.1	3	20	
30.49 - 31.89	Dk grn, fine-grained andesite (see 3.05 - 21.73 m).										
31.89 - 32.92	Medium-grained diorite (see 25.59 to 27.22 m). Contact @ 35° to CA.										
32.92 - 55.62	Dk grn, fine-grained andesite (see 3.05 - 21.73 m) but with localized blebs of chlorite.										
	34.63 - 35.11 m. Dk grn andesite with qtz-carb vnlts @ 57°, 69° and 71° to CA. Chlorite alt'n and silicification. Contains 2-5% finely dis py on frct surfaces.	chlorite and qtz	Veins @ 57°, 69° and 71° to CA. 2-5% dis py.	5344	34.63-35.11	0.48	2	1.3	289	55	
	35.66 - 36.58 m. Lt grn, alt'd andesite(?). Broken core. Intensely epidotized and chloritized. Mod carb. Tr to 3% finely dis py.	epidote, chlorite and carb	Broken core. Tr to 3% dis py.	5345	35.66-36.58	0.92	1	0.5	103	23	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
32-92 - 55.62 (cont.)	36.58 - 36.79 m. Gy-grn, alt'd andesite(?). Epidotized, silicified and mod carb. Tr of finely dis py.	epidote, carb and qtz	Tr dis py.	5346	36.58-36.79	0.21	3	0.1	7	7	
	37.03 - 37.46 m. Gy andesite porphyry with subhedral feldspar phenocrysts (1-5 mm). Lineation @ 61° to CA. Contains 4% finely dis py, parallel to lineation. Silicified.	qtz	Lineation @ 61° to CA. 4% dis py.	5347	37.03-37.46	0.43	2	1	398	32	
	38.19 - 38.37 m. Gy fine-grained, silicified andesite. Lineation @ 30° to CA. Contains 7% finely dis py.	qtz	Lineation @ 30° to CA. 7% dis py.	5348	38.19-38.37	0.18	1	2.7	1317	67	
	38.37 - 38.85 m. Gy silicified andesite. Contains 7-10% finely dis py.	qtz	7-10% dis py.	5349	38.37-38.85	0.48	1	1.2	604	23	
	38.85 - 39.22 m. Gy silicified andesite. Epidote filled stringers @ 52° and 65° to CA. Contains 7 to 10% finely dis py.	qtz	Stringers @ 52° and 65° to CA. 7-10% dis py.	5350	38.85-39.22	0.37	1	2.8	1000	43	
	39.22 - 39.61 m. Gy silicified andesite. Contains 3-5% dis py in clumps (1-6 mm).		3-5% dis py.	5351	39.22-39.61	0.39	3	3.4	922	42	
	40.00 - 40.28 m. Alt'd volcanic(?) with a blob of massive qtz; mafics alt'd to chlorite. Tr of finely dis py.	chlorite	Tr dis py.	5352	40.00-40.28	0.28	1	0.2	75	8	
	40.43 - 41.05 m. Lt grn alt'd volcanic. Epidotized and silicified. Carb filled frct @ 13° to CA. Tr of finely dis py.	epidote and qtz	Frcts @ 13° to CA. Tr dis py.	5353	40.43-41.05	0.62	1	0.2	5	8	

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From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
32.92 - 55.62 (cont.)	41.76 - 42.43 m. Gy-grn, alt'd volcanic. Epidotized, silicified and moderately carbonatized with localized chlorite alt'n. Tr of finely dis py.	epidote, qtz and carb	Tr dis py.	5354	41.76-42.43	0.67	12	0.2	17	26	
	42.43 - 43.03 m. Lt grn, alt'd volcanic. Intensely silicified and epidotized with localized chlorite alt'n. Mod to intensly carb. Tr of finely dis py.	qtz, epidote, carb and chlorite	Tr dis py.	5355	42.43-42.75	0.32	48	0.2	6	4	
	42.75 - 43.02 m. Alt'd medium-grained diorite. Feldspars alt'd to epidote and mafics to chlorite. Tr of finely dis py.	epidote and chlorite	Tr dis py.	5356	42.75-43.02	0.27	23	0.1	5	4	
	43.02 - 43.50 m. Lt grn, alt'd volcanic. Epidotized and silicified, locally intensely silicified. Mod to intensely carb. Tr of finely dis py.	epidote, qtz and carb	Tr dis py.	5357	43.02-43.50	0.48	44	0.1	7	8	
	43.50 - 44.06 m. Lt grn, alt'd intrusive. Epidotized and chloritized. Lt carb. Tr of finely dis py.	epidote, chlorite and carb	Tr dis py.	5358	43.50-44.06	0.56	84	0.1	5	11	
	44.06 - 44.23 m. Med grn, alt'd intrusive(?). Epidotized and chloritized. Mod carb. Tr of dis py. Visible gold.	epidote, chlorite and carb	Tr dis po. V.G. patches <0.3 m.	5359	44.06-44.23 Au assay 0.096 oz/ton (3.29 g/t)	0.17	3570	0.3	9	2	
	44.16 - 44.33 m. Med grn, alt'd intrusive(?). Epidotized, chloritized and carb. Contains 3% dis po and a tr of py.	epidote, chlorite and carb	3% dis po, tr dis py.	5360	44.23-44.33 Au assay 0.014 oz/ton (0.48 g/t)	0.10	480	0.2	60	4	

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From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
32.92 - 55.62 (cont.)	44.33 - 44.57 m. Carbonate with localized epidote and chlorite alt'n - skarn(?). Contains 2% finely dis po.	epidote and chlorite	2% dis po.	5361	44.33-44.57	0.24	6655	0.1	57	10	
					Au assay 0.142 oz/ton (4.87 g/t)						
	44.57 - 44.81 m. Dk gy carb. Contains 10-15% dis masses of po and a tr of py - skarn(?).		10-15% po, tr py.	5362	44.57-44.81	0.24	71	0.6	497	11	
	44.81 - 44.90 m. Dk gy carbonate. Locally epidotized. Contains 5% dis masses of po.	epidote	5% dis po.	5363	44.81-44.90	0.09	15	0.3	230	33	
	44.90 - 44.99 m. Dk gy, alt'd volcanic. Chloritized and locally epidotized. Contains 3-5% dis po masses. Mod carb.	chlorite and epidote	3-5% dis po.	5364	44.90-44.98	0.08	93	0.2	91	6	
	44.99 - 45.29 m. Dk grn alt'd intrusive(?). Epidotized and chloritized. Mod carb. Contains 2% finely dis po.	epidote, chlorite and carb	2% dis po.	5365	44.98-45.28	0.30	4	0.3	53	49	
	45.29 - 45.33 m. Dk grn, alt'd volcanic. Banded @ 63° to CA. Silicified and carb. Locally epidotized. Contains 2% dis po.	qtz, carb and epidote	2% dis po.	5366	45.28-45.53	0.25	77	0.1	44	24	
	45.53 - 45.79 m. Dk gy-grn, alt'd volcanic. Epidotized and silicified. Numerous hairline frcts, some of which are filled with carb. Tr to 2% finely dis po.	epidote and qtz	Tr to 2% dis po.	5367	45.53-45.79	0.26	29	0.1	18	99	
	45.79 - 46.24 m. Lt grn, alt'd volcanic with blebs of qtz and numerous hairline frcts. Intensely epidotized and silicified. Tr of dis po.	epidote and qtz	Tr dis po.	5368	45.79-46.24	0.45	64	0.1	5	20	

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From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
32.92 - 55.62 (cont.)	46.24 - 47.52 m. Lt grn bx'd volcanic. Epidotized angular clasts with carb filling the interstices. Tr of finely dis po. NB: Missing core.	epidote	Broken core. Tr dis po.	5369	46.24-47.52	1.28	105	0.1	10	25	
	47.71 - 47.99 m. Lt gy-grn alt'd volcanic. Intensely silicified and lightly carb. Numerous hairline frcts; some filled with carb. Contains 2-3% finely dis py.	qtz and carb	2-3% dis py	5370	47.71-47.99	0.28	8	0.4	93	34	811 Zn
	47.99 - 48.46 m. Lt grn-white alt'd volcanic(?). Very intensely silicified with vein @ 28° to CA (17 mm). Tr to 3% finely dis py. Possible iron-carb(?).	qtz and iron-carb(?)	Vein @ 28° to CA. Tr to 3% dis py.	5371	47.99-48.46	0.47	4	0.1	46	36	591 Zn
	48.46 - 49.12 m. Lt grn-yellow alt'd volcanic(?). Intensely silicified, iron-carb and patchy epidote alt'n. Qtz occurs as massive blebs. Tr to 2% finely dis py. Commonly associated with qtz blebs.	qtz, iron-carb and epidote	Tr to 2% dis py.	5372	48.46-49.12	0.66	6	0.4	126	35	374 Zn
	49.12 - 49.60 m. Lt gy-grn, alt'd volcanic(?). Intensely silicified. Contains 1-2% dis py.	qtz	1-2% dis py.	5373	49.12-49.60	0.48	10	0.4	49	20	1143 Zn
	49.60 - 49.93 m. Lt gy-grn, alt'd volcanic(?). Intensely silicified, iron-carb and patchy chlorite alt'n. Contains 2-3% dis py. Locally, mod carb.	qtz, iron-carb and chlorite	2-3% dis py.	5374	49.60-49.93	0.33	1	0.1	28	7	689 Zn

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: July 5-6/88 Hole No.: CA88-7

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
32.92 - 55.62 (cont.)	49.93 - 50.00 m. Lt grn-gy, alt'd volcanic(?). Very intensely silicified. Host is alt'd to epidote. Locally carb. Tr of finely dis py.	qtz, epidote and carb	Tr dis py.	5375	49.93-50.00	0.07	1	0.1	9	24	422 Zn
	50.00 - 50.44 m. Lt grn, alt'd volcanic(?). Intensely silicified, locally carb, and patchy epidote alt'n. Tr to 3% dis py.	qtz, epidote and carb	Tr to 3% dis py.	5376	50.00-50.44	0.44	1	0.3	84	31	750 Zn
	50.44 - 50.78 m. Lt grn, alt'd volcanic(?). Very intensely silicified, mod epidotized and locally carb. Possible banding. Tr to 2% dis py; locally up to 5% dis py.	qtz, epidote and carb	Tr to 2% dis py, locally 5% py.	5377	50.44-50.78	0.34	11	1	354	59	
	50.78 - 51.02 m. Gy-white alt'd volcanic(?). Intensely silicified with localized epidote alt'n. Localized carb alt'n. Possible banding (mm scale) @ 39° to CA. Tr of finely dis py.	qtz, epidote and carb	Banding @ 39° to CA. Tr dis py.	5378	50.78-51.02	0.24	3	0.7	170	35	873 Zn
	51.02 - 51.85 m. Dk grn alt'd volcanic(?). Intensely silicified, chloritized. Banding; small scale folding(?). Mineralization follows banding @ 56° to CA. Tr to 4% finely dis py.	qtz and chlorite	Broken core. Banding @ 56° to CA. Tr to 4% dis py.	5379	51.02-51.85	0.83	3	0.3	137	49	
	51.85 - 52.01 m. Dk grn alt'd volcanic(?). Intensely silicified, chloritized and locally epidotized. Localized banding @ 41° to CA. Contains 5% finely dis py throughout.	qtz, chlorite and epidote	Banding @ 41° to CA. 5% dis py.	5380	51.85-52.01	0.16	8	0.7	293	75	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
32.92 - 55.62 (cont.)	52.01 - 52.47 m. Gy-grn alt'd volcanic. Intensely silicified and epidotized. Localized chlorite alt'n. Banding @ 55° to CA. Numerous hairline frcts perpendicular to banding. Tr to 2% finely dis py.	qtz, epidote and chlorite	Banding @ 55° to CA. Tr to 2% dis py.	5381	52.01-52.47	0.46	1	0.4	54	12	
	52.47 - 52.62 m. Massive qtz vein @ 56° to CA (11.4 cm). Iron-carb alt'n along margins. Hairline frcts are locally epidotized. Contains 2-3% dis py in and adjacent to frcts. Tr of dis py in qtz.	iron-carb and epidote	Vein @ 56° to CA. 2-3% dis py in frcts. Tr dis py in vein.	5382	52.47-52.62	0.15	1	0.3	94	47	
	52.62 - 53.24 m. Alt'd intrusive. Lt grn. Intensely silicified, epidotized and chloritized. Contains 3-5% dis py in masses (1-2.5 mm).	qtz, epidote and chlorite	Broken core. 3-5% dis py in masses.	5383	52.62-53.24	0.62	1	0.5	11	68	
	53.24 - 53.39 m. Alt'd volcanic. Lt gy. Intensely silicified. Localized epidote and iron-carb alt'n. Tr of finely dis py.	qtz, epidote and iron-carb	Tr dis py.	5384	53.24-53.39	0.15	1	0.7	72	101	
	53.60 - 54.08 m. Alt'd volcanic. Lt grn-white. Very intensely silicified and epidotized. Locally carb. Tr to 3% finely dis py.	qtz, epidote and carb	Tr to 3% dis py.	5385	53.60-54.08	0.48	1	0.2	4	23	
	54.13 - 54.45 m. Gy-yellow alt'd diorite. Contact @ 50° to CA.										
	54.50 - 54.99 m. Alt'd volcanic. Med gy and banded @ 55° to CA (mm scale). Intensely silicified and epidotized. Contains 3-5% dis py in 1-2 mm layers parallel to banding.	qtz and epidote	3-5% dis py.	5386	54.50-54.99	0.49	1	0.3	107	23	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
32.92 - 55.62 (cont.)	54.99 - 55.28 m. Alt'd volcanic. Intensely silicified, epidotized and chloritized. Banding @ 83° to CA (mm scale). Tr of dis py.	qtz, epidote and chlorite	Banding @ 83° to CA. Tr dis py.	5387	54.99-55.28	0.29	8	0.8	190	29	
55.62 - 65.92	Fine to medium-grained, med to dk grn diorite. Mafics alt'd to chlorite and feldspars to epidote. Contact @ 72° to CA.		Contact @ 72° to CA.								
	63.39 - 63.47 m. Contains 2 cm wide qtz vein @ 55° to CA. Patchy epidote alt'n. Tr of finely dis py.	epidote	Vein @ 55° to CA. Tr dis py.	5388	63.39-63.47	0.08	20	1.5	389	68	
65.92 - 67.31	Dk grn, fine-grained andesite with lenticular masses (1-2 mm) of chlorite @ 51° to CA. Fault @ 42° to CA.										
	66.16 - 66.27 m. Qtz vein @ 61° to CA. Spotty chlorite and epidote alt'n. Tr of finely dis py.	chlorite and epidote	Vein @ 61° to CA. Tr dis py.	5389	66.16-66.27	0.11	1	0.2	17	3	
67.31 - 73.00	Med to fine-grained, gy-grn diorite. Mafics have alt'd to chlorite.										
	69.80 - 69.90 m. Contains 2 cm wide qtz vein @ 51° to CA. Localized chlorite alt'n and a tr of finely dis py.	chlorite	Vein @ 51° to CA. Tr dis py.	5390	69.80-69.90	0.10	34	0.2	126	2	
	70.34 - 70.42 m. Diorite with a 2 cm band of volcanics @ 49° to CA. Epidote alt'n of volcanics. Tr of finely dis py.	epidote	Band @ 49° to CA. Tr dis py.	5391	70.34-70.42	0.08	2	0.3	56	44	
	70.59 - 70.67 m. Contains 4.2 cm wide qtz vein @ 62° to CA. Epidote and iron-carb alt'n. Tr of finely dis py.	epidote and iron-carb	Vein @ 62° to CA. Tr dis py.	5392	70.59-70.67	0.08	1	0.1	40	28	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
67.31 - 73.00 (cont.)	71.13 - 71.27 m. Alt'd diorite. Intensely epidotized. Tr of finely dis py.	epidote	Tr dis py.	5393	71.13-71.27	0.14	1	0.3	10	11	317 Zn
73.00	EOH										

MPH

MPH CONSULTING LIMITED
Project: Contact Au
Project No.: V248-3
Client: Parallax
Development Corp.

Length (m): 77.42
Dip : -70°
Azimuth : 278°
Core Size : NQ
Casing : 0.61 m

Grid: McNeil Peninsula
L4+45N, 0+75E
Collar elev.: 44 m
Remarks: Sample nos.
5155 to 5190, 5193

Drilled: June 16-17/88
Contractor : Burwash
Logged by : G. Yip
Date logged: July 14/88

Objective: See drill hole CA88-8 summary in text of report.

Hole No.: CA88-8
Hole Survey Type: None
Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 0.61	Casing										
0.61 - 7.36	Dk grn, fine-grained andesite. Anhedral mafic crystals (<0.5 mm) have alt'd to chlorite. Localized patches of medium-grained diorite. Again mafics have alt'd to chlorite. Feldspars have patchy epidote alt'n. Occassional stringers of qtz-carb.										
7.36 -	Med to dk grn, fine-grained diorite. Contact @ 73° to CA. Feldspars occur in unalt'd anhedral masses (1-6 mm). Mafics occur in anhedral to subhedral masses (1-3 mm).										
9.79 - 10.40	Dk grn, fine-grained andesite. Contact @ 34° to CA. Locally epidotized. (See 0.61-7.36 m.)										
10.40 - 12.73	Med grn diorite. Contact @ 57° to CA. Locally epidotized. (See 7.36 to 9.79 m.)										
12.73 - 31.36	Dk grn fine-grained andesite, locally with subhedral, 1-2 mm, feldspar phenocrysts. Non-defined contact										
	14.75 - 15.14 m. Dk grn andesite.	chlorite and qtz	1-2% dis py, tr dis po.	5155	14.75-15.14	0.39	1	0.5	80	37	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
12.73 - 31.36 (cont.)	15.14 - 16.30 m. Dk grn andesite.	chlorite, carb and qtz	10% dis py, 15-20% massive mt.	5156	15.14-16.30	1.16	2	1.2	564	79	
	16.30 - 16.65 m. Dk grn andesite.	epidote and chlorite	Tr dis po, and tr dis py.	5157	16.30-16.65	0.35	1	0.4	81	36	
	16.65 - 17.23 m. Dk grn andesite.	epidote, chlorite and carb	Tr to 1% dis po, tr dis py.	5158	16.65-17.23	0.58	7	1.4	307	539	
	17.23 - 17.81 m. Lt gy-grn alt'd andesite.	epidote, carb, chlorite and iron-carb	Broken core. Tr to 2% dis py.	5159	17.23-17.81	0.58	3	1.3	291	93	
	17.81 - 18.39 m. Dk grn andesite.	iron-carb, epidote and chlorite	Tr po, tr py.	5160	17.81-18.39	0.58	1	0.4	46	23	
	18.39 - 18.62 m. Dk grn andesite. Localized iron-carb alt'n.	chlorite, iron-carb and epidote	Tr py.	5161	18.39-18.62	0.23	3	0.3	8	60	
	18.62 - 19.13 m. Dk grn andesite.	chlorite, epidote, and iron-carb	3-5% dis po.	5162	18.62-19.13	0.51	2	1.2	261	203	
	19.89 - 20.28 m. Med grn alt'd andesite. Mineralization associated with alt'n.	epidote	2-3% po, tr py and cp.	5163	19.89-20.28	0.39	32	6.5	1491	54	574 Zn
	20.54 - 20.84 m. Med grn andesite.	epidote	Tr dis py.	5164	20.54-20.84	0.30	11	0.7	122	85	
	20.76 - 28.31 m. Andesitic feldspar porphyry. Med to dk grn subhedral phenocrysts (1-11 mm).										
	24.04 - 24.27 m. Med grn andesite (ie. feldspar porphyry).	epidote, chlorite and iron-carb	3% dis po, tr dis py.	5165	24.04-24.27	0.23	3	1.4	257	45	
	27.84 - 28.31 m. Med grn andesitic feldspar porphyry.	epidote and chlorite	Tr to 2% dis py, and tr asp.	5166	27.84-28.31	0.47	6	0.5	103	700	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
12.73 - 31.36 (cont.)	28.31 - 28.75 m. Med grn andesite.	chlorite and carb	Broken core. 3% dis py.	5167	28.31-28.75	0.44	72	0.3	10	126	
	28.75 - 29.11 m. Med grn andesite.	chlorite, epidote and carb	Tr to 2% dis py.	5168	28.75-29.11	0.36	21	0.2	10	80	
	29.11 - 29.38 m. Mineralized zone. Massive white carb.	chlorite	Tr to 3% dis py.	5169	29.11-29.38	0.27	86	3.3	70	107	
	29.38 - 29.78 m. Mineralized zone. Altered volcanic(?).	chlorite and carb	3-5% dis po, 2-3% dis py, tr dis cp.	5170	29.38-29.78 Au assay 0.006 oz/ton (0.206 g/t)	0.40	215	16.4	1333	298	337 Zn
	29.78 - 30.14 m. Mineralized zone. Altered volcanic(?).	chlorite and carb	3-5% dis po, 3-5% dis py, tr dis cp, tr to 1% asp.	5171	29.78-30.14 Au assay 0.008 oz/ton (0.274 g/t)	0.36	305	7.3	977	2578	410 Zn
	30.14 - 30.68 m. Mineralized zone. Dk grn-white alt'd volcanic.	carb and chlorite	2-3% dis py and po.	5172	30.14-30.68	0.54	147	1.7	199	356	
	30.68 - 31.00 m. Mineralized zone. Dk grn-white alt'd volcanic.	carb and chlorite	10% massive mt, 5% dis py, & tr po.	5173	30.68-31.00 Au assay 0.006 oz/ton (0.206 g/t)	0.32	250	2.8	484	527	
	31.00 - 31.36 m. Mineralized zone. Med to lt grn alt'd volcanic.	epidote, carb and chlorite	3-5% dis po, 2% dis cp, 2% dis py, and 1% asp.	5174	31.00-31.36 Au assay 0.025 oz/ton (0.857 g/t)	0.36	710	8.8	1758	2752	1253 Zn
31.36 - 32.98	31.36 - 31.55 m. Mineralized zone. Med to dk grn diorite(?).	epidote, chlorite and carb	Tr to 2% dis py, 1% asp.	5175	31.36-31.55 Au assay 0.104 oz/ton (3.57 g/t)	0.19	3750	3.0	296	2551	986 Zn 187 Co
	31.55 - 32.43 m. Gy-grn diorite(?).	epidote and chlorite	Tr dis py.	5176	31.55-32.43 Au assay 0.026 oz/ton (0.891 g/t)	0.88	925	0.4	33	214	
	32.43 - 32.98 m. Fine-grained grn diorite.	epidote and chlorite	Tr dis py.	5177	32.43-32.98 Au assay 0.008 oz/ton (0.274 g/t)	0.55	205	0.4	17	74	
32.98 - 34.38	32.98 - 33.48 m. Med grn andesite. Patches of purple qtz.	epidote and chlorite	Tr dis asp.	5178	32.98-33.48	0.50	64	0.4	18	966	

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: July 14, 1988 Hole No.: CA88-8

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
32.98 - 34.38 (cont.)	33.81 - 34.15 m. Lt grn andesite. Bands of purple qtz.	epidote and carb	Tr sp, tr cp.	5179	33.81-34.15 Au assay 0.009 oz/ton (0.309 g/t) Ag assay 0.11 oz/ton (3.77 g/t)	0.34	315	5.1	975	762	13582 Zn 481 Co
34.38 - 49.55	Med gy-white diorite.										
	34.80 m. Fault @ 38° to CA.		Fault @ 38° to CA.								
	38.64 - 39.23 m. Med grn alt'd diorite(?).	qtz and garnet	Banding @ 53° to CA. Tr dis po, tr dis py.	5180	38.64-39.23	0.59	1	0.3	157	27	
	39.23 - 39.67 m. Med grn alt'd diorite(?).	epidote, garnet and qtz	Banding @ 56° to CA. Tr py.	5181	39.23-39.67	0.44	9	0.3	118	74	
	49.39 - 49.50 m. White qtz vein, 5.2 cm wide.		Vein @ 40° to CA.	5182	49.39-49.50	0.11	1	0.1	41	4	
49.55 - 77.42	Med grn andesite.										
	49.63 - 49.73 m. Med to lt grn alt'd andesite.	epidote, chlorite and iron-carb	Tr dis py.	5183	49.63-49.73	0.10	1	0.1	90	63	
	49.99 - 50.51 m. Med grn andesite.	iron-carb, chlorite and qtz	Tr dis py, tr dis po.	5184	49.99-50.51	0.52	1	0.1	84	2	
	51.17 - 51.29 m. Gy-grn alt'd diorite, 6.6 cm wide.	iron-carb, qtz and chlorite	Alt'd zone @ 64° to CA. Tr dis py.	5193	51.17-51.29	0.12	1	0.1	7	2	
	57.99 - 58.04 m. Lt grn, alt'd diorite.	epidote and qtz	Contact @ 77° to CA. Tr dis py.	5185	57.99-58.04	0.05	1	0.1	9	2	
	58.04 m. Dk grn, fine-grained andesite.										
	61.62 - 62.78 m. Massive white qtz vein(?).	epidote and chlorite	Vein @ 85° to CA. Tr dis py.	5186	61.62-62.78	1.16	3	0.1	11	5	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
49.55 - 77.42 (cont.)	63.77 - 63.95 m. Med grn andesite.	carb and epidote	Tr dis py.	5187	63.77-63.95	0.18	1	0.1	17	2	
	66.39 - 66.83 m. Lt grn alt'd andesite.	iron-carb, carb, qtz and epidote	Tr to 1% dis py.	5188	66.39-66.83	0.44	1	0.1	1	2	
	70.79 - 71.18 m. Dk gy-white feldspar porphyritic andesite.	epidote and iron-carb	Tr dis py.	5189	70.79-71.18	0.39	1	0.2	73	5	
	72.24 - 72.85 m. Yellow-gy, alt'd andesite.	epidote and iron-carb	Tr dis py.	5190	72.24-72.85	0.61	1	0.1	2	2	
77.42	EOH										

MPH CONSULTING LIMITED
Project: Contact Au
Project No.: V248-3
Client: Parallax
Development Corp.

Length (m): 71.63
Dip : -45°
Azimuth : 278°
Core Size : NQ
Casing : 3.65 m

Grid: McNeil Peninsula
L4+45N, 0+75E
Collar elev.: 44 m
Remarks: Sample nos. 5191, 5192, 5194 to 5229

Drilled: June 17-18/88
Contractor : Burwash
Logged by : G. Yip
Date logged: July 14/88

Objective: See drill hole CA88-9 summary in text of report.

Hole No.: CA88-9
Hole Survey Type: None
Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 3.65	Casing										
3.65 - 26.15	Dk gy, fine-grained andesite. Locally cut by qtz-carb stringers some of which are partially alt'd to epidote.										
	8.38 - 9.13 m. Dk gy andesite with anhedral mafic phenocrysts.		Tr py, tr po.	5191	8.38-9.13	0.75	1	0.1	132	2	
	9.13 - 9.27 m. Dk gy andesite and 9 mm wide qtz vein.	quartz	Vein @ 38° to CA. Tr dis py.	5192	9.13-9.27	0.14	2	0.1	41	2	
	9.85 - 10.24 m. Dk gy andesite.	epidote and chlorite	Tr dis py.	5194	9.85-10.24	0.39	2	0.8	230	2	
	11.63 - 11.94 m. Dk gy andesite.	epidote	2% dis py.	5195	11.63-11.94	0.31	1	0.4	65	2	
	13.77 - 14.33 m. Dk gy andesite with patches of coarse-grained diorite(?).	epidote and chlorite	1% dis py.	5196	13.77-14.33	0.55	1	0.1	65	10	
	14.33 - 14.60 m. Dk gy andesite.	chlorite	Lineation @ 36° to CA. 1-2% dis py.	5197	14.33-14.60	0.27	1	0.4	138	12	
	14.60 - 14.88 m. Dk gy andesite with 3.9 mm wide alt'n zone.	epidote and iron-carb	Alt'n @ 23° to CA. 1-2% dis py.	5198	14.60-14.88	0.28	2	0.3	88	11	
	15.19 - 15.75 m. Gy-white re-crystallized limestone.	epidote	1-2% dis py	5199	15.19-15.75	0.56	1	0.3	51	18	
	15.73 m. Lower contact of lime-stone with andesite.		Contact @ 36° to CA.								

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
3.65 - 26.15 (cont.)	17.89 - 18.50 m. Lt grn alt'd volcanic(?).	epidote, carb and qtz	Tr to 1% dis py.	5200	17.89-18.50	0.61	1	0.2	53	51	
	19.42 - 19.65 m. Med to dk grn alt'd andesite.	epidote and carb	Tr dis py, tr cp.	5201	19.42-19.65	0.23	1	1.7	448	63	
	19.78 - 20.01 m. Dk gy locally alt'd andesite. No visible mineralization.	epidote, iron-carb, and chlorite		5202	19.78-20.01	0.23	6	0.1	7	2	
	20.31 - 20.80 m. Dk gy andesite and intrusive(?).	epidote, chlorite and qtz	7% dis py, 5% dis po, tr cp.	5203	20.31-20.80	0.49	1	0.7	458	30	
	20.80 - 21.46 m. Dk gy andesite.	epidote, qtz and chlorite	Lineation @ 39° to CA. 7-10% dis po, 7-10% dis py, tr cp.	5204	20.80-21.46	0.66	2	0.6	495	6	
	21.46 - 21.85 m. Dk gy andesite.	qtz and epidote	10% dis po, 5-7% dis py, tr cp.	5205	21.46-21.85	0.39	1	0.4	341	16	
	22.84 - 23.07 m. Dk gy andesite.	qtz	5-7% dis py, 3% dis po, tr cp.	5206	22.84-23.07	0.23	1	1.2	392	77	
26.15 - 30.54	Medium to fine-grained diorite. Locally porphyritic andesite with subhedral feldspar phenocrysts (up to 8 mm). Occassional epidote alt'n zones.		Contact @ 64° to CA.								
	27.11 - 27.77 m. Lt grn alt'd volcanic with purple qtz.	epidote and qtz	Tr to 1% dis py.	5207	27.11-27.77	0.66	1	0.1	15	74	
30.54 - 36.17	Dk gy, fine-grained andesite.										
	31.39 - 31.73 m. Mineralized zone. Massive gy-white carb with fragments of volcanics.	chlorite	Broken core. 1% dis py.	5208	31.39-31.73	0.34	113	0.3	37	127	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
30.54 - 36.17 (cont.)	31.73 - 32.09 m. Mineralized zone. Bx'd; volcanic fragments supported by gy-white carb.	chlorite	1% dis po, 5-7% dis py.	5209	31.73-32.09	0.36	245	0.4	27	193	
	32.09 - 32.65 m. Mineralized zone. Dk gy-grn alt'd volcanics with carb.	chlorite and carb	5% dis py, tr asp.	5210	32.09-32.65 Au assay 0.013 oz/ton (0.446 g/t)	0.56	520	0.5	59	517	
	32.65 - 33.53 m. Mineralized zone. Dk grn andesite with carb	chlorite	Broken core. 2-3% dis py, tr cp.	5211	32.65-33.53	0.88	36	0.3	24	3	
	33.53 - 34.32 m. Mineralized zone. Breccia(?) of dk gy volcanic and carb.	chlorite and carb	5-7% dis py, 2-3% dis asp, 5% dis po.	5212	33.53-34.32 Au assay 0.011 oz/ton (0.377 g/t)	0.79	455	0.9	124	4047	
	34.32 - 34.86 m. Mineralized zone. Silver-gy, massive sulphides.	carb	70% massive asp, 10-15% dis mt, 10% dis po, 5% dis py, tr cp.	5213	34.32-34.86 Au assay 0.236 oz/ton (8.09 g/t)	0.54	7860	3.0	279	99999	236 Co
	34.86 - 35.19 m. Mineralized zone. Dk silver-gy massive sulphides and carb.		35% mass asp, 15-20% mass mt, 15-20% po, 5-10% dis py, tr cp.	5214	34.86-35.19 Au assay 0.256 oz/ton (8.78 g/t)	0.33	9050	3.4	316	99999	100 Co
	35.19 - 35.35 m. Mineralized zone. Dk gy and white fine-grained volcanic and qtz-carb.	carb	10-15% mass py, 5-7% mass po, 5-7% mas asp, 1-2% dis cp.	5215	35.19-35.35 Au assay 0.114 oz/ton (3.91 g/t) Ag Assay 0.74 oz/ton (25.4 g/t)	0.16	3270	20.1	4678	13343	160 Co
	35.35 - 35.51 m. Mineralized zone. Blk-brn massive magnetite.		75% mass mt, 10-15% dis py, 3% dis cp, 5-7% dis po.	5216	35.35-35.51 Au assay 0.022 oz/ton (0.754 g/t) Ag assay 0.33 oz/ton (11.3 g/t)	0.16	847	10.5	2446	1970	
	35.51 - 35.85 m. Brownish-grey alt'd(?) volcanic. Garnetiferous zone.	garnet and carb	1-2% dis py, 1% asp, tr cp.	5217	35.51-35.85	0.34	88	2.6	582	1431	
	35.85 - 36.06 m. Gy-brn alt'd volcanic(?). Garnetiferous zone.	garnet, epidote and qtz	1-2% dis py, tr asp.	5218	35.85-36.06	0.21	105	0.4	57	347	

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: July 14, 1988 Hole No.: CA88-9

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
36.17 - 38.64	Fine-grained blk and white diorite. Locally alt'd.										
38.64 - 40.36	38.64 - 38.97 m. Gy-grn fine-grained volcanic(?)	epidote	1-2% dis py, tr cp.	5219	38.64-38.97	0.33	41	2.2	496	193	505 Zn
	38.97 - 39.47 m. Gy-grn fine-grained volcanic(?).	epidote and chlorite	Broken core. Tr to 1% dis py.	5220	38.97-39.47	0.50	29	1.7	339	148	1110 Zn
	39.47 - 39.96 m. Gy-grn fine-grained volcanic(?).	qtz and epidote	3-5% dis py, 1-2% dis po, tr of cp.	5221	39.47-39.96	0.49	22	4.3	1016	187	548 Zn
					Au assay 0.12 oz/ton (4.1 g/t)						
	39.96 - 40.15 m. Gy-grn alt'd fine-grained volcanic(?).	epidote and qtz	1-2% dis py.	5222	39.96-40.15	0.19	27	2.5	382	355	466 Zn
	40.15 - 40.41 m. Dk gy fine-grained volcanic(?).	epidote and chlorite	1-2% dis py.	5223	40.15-40.41	0.26	5	1.5	473	77	
40.36 - 45.62	Med to fine-grained blk and white diorite with dk gy fine-grained xenoliths.		Contact @ 36° to CA.								
45.62 - 48.25	Gy-grn fine-grained, alt'd volcanic(?).										
	46.17 - 46.95 m. Gy-grn alt'd volcanic(?). Reddish brn patches of garnet(?).	epidote and qtz	Tr dis py	5224	46.17-46.95	0.78					
	47.12 - 47.52 m. Gy-white alt'd volcanic(?). Banded alt'n.	epidote, iron-carb and qtz	Alt'n @ 10° to CA. Tr to 1% dis py.	5225	47.12-47.52	0.39					
	47.52 - 48.25 m. Gy-grn alt'd volcanic(?).	epidote and qtz	Banding @ 10° to CA. Veins @ 35° to CA. Tr to 1% dis po.	5226	47.52-48.25	0.73					

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
48.25 - 51.32	Med to fine-grained gy-white diorite with stringers filled with epidote and iron-carb. Occassional xenoliths.		Contact @ 37° to CA. Foliation @ 28° to CA.								
51.32 - 51.89	Fine-grained, gy-grn volcanic(?) with mafic phenocrysts(?) (1 mm.)	chlorite	Contact @ 60° to CA (sheared?).								
51.89 - 57.45	Med to fine-grained foliated dior-ite. Locally alt'd to epidote or to a dk gy colour.		Foliation @ 41° to CA.								
57.45 - 57.88	Dk gy, fine-grained volcanic(?) with epidote vein filling.		Contact @ 65° to CA.								
57.88 - 58.77	Gy-white, fine to med-grained diorite with veins filled with qtz and epidote.	epidote	Contact @ 76° to CA.								
58.77 - 58.98	Dk gy, fine-grained volcanic(?) with epidote filled veins.										
	58.77 - 59.04 m. Volcanic(?) as above.	epidote	Contact @ 29° to CA. Tr py.	5227	58.77-59.04	0.27	5	0.7	218	10	
58.98 - 63.16	Med to fine-grained, foliated whitish-gy diorite. Localized epidote alt'n.	epidote	Contact @ 75° to CA. Foliation @ 53° to CA.								
63.16 - 63.79	Gy, fine-grained volcanic(?) with angular mafic fragments 1-2 mm.		Contact @ 23° to CA.								
	63.43 - 63.53 m. Qtz vein within dk gy volcanics, 11 mm wide.	epidote and chlorite	Vein @ 55° to CA. Tr dis py.	5228	63.43-63.53	0.10	3	0.1	5	2	
63.79 - 71.63	Foliated, fine-grained diorite. Gy-white to dk gy in colour. Locally epidotized.		Contact @ 60° to CA. Foliation 30° to CA.								
	63.94 - 64.11 m. Diorite and gy fine-grained volcanic-sheared.	epidote	Sheared @ 32° to CA. Tr py.	5229	63.94-64.11	0.17	4	0.4	155	20	
71.63	EOH										

MPH CONSULTING LIMITED
Project: Contact Au
Project No.: V248-3
Client: Parallax Development Corp.

Length (m): 97.56
Dip : -45°
Azimuth : 255°
Core Size : NQ
Casing : 4.57 m

Grid: McNeil Peninsula L7+55N, 0+25W
Collar elev.: 35 m
Remarks: Sample nos. 5230 to 5331

Drilled: June 19-21/88
Contractor : Burwash
Logged by : G. Yip
Date logged: June 27/88

Objective: See drill hole CA88-10 summary in text of report.

Hole No.: CA88-10
Hole Survey Type: None
Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 4.57	Casing										
4.57 - 4.78	Gneissic intrusive(?).		Broken core								
4.78 - 6.84	Dk grn, fine-grained andesite feldspar porphyry. Contains 3-5% subhedral-euhedral feldspar phenocrysts (up to 2 mm). Greenish-white stringers (0.5-3 mm) @ 18°, 32° and 47° to CA.		Broken core								
6.84 - 9.05	Med to fine-grained diorite. Locally intensely silicified. Veins @ 22°, 25°, 32° and 14° to CA (1-3 mm) filled with qtz-carb.		Broken core								
	7.64 - 8.08 m. Alt'd diorite. Locally intensely epidotized. Mafic minerals have been alt'd to chlorite. Qtz-carb veins @ 19° and 24° to CA (1-3 mm). Tr of finely dis py.	epidote and chlorite	Veins @ 19° and 24° to CA. Tr dis py.	5230	7.64-8.08	0.44	5	0.4	155	4	
9.05 - 11.83	Dk gy andesite feldspar porphyry with up to 10% feldspar phenocrysts ranging from 1-17 mm. Contact @ 53° to CA. Locally intensely epidotized. Cut by veins @ 26° and 54° to CA (1-3 mm) filled with qtz or epidote.		Contact @ 53° to CA.								

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: June 27, 1988 Hole No.: CA88-10

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
11.83 - 14.83	Med to fine-grained diorite. Contact @ 30° to CA. Locally epidotized. Veins @ 19°, 41° 50° and 34° to CA filled with qtz and epidote.	epidote	Contact @ 30° to CA.								
14.83 - 20.81	Dk gy fine-grained andesite. Contact @ 22° to CA. Qtz-carb and epidote filled veins @ 46° and 50° to CA. Locally porphyritic with feldspar phenocrysts 1-3 mm.										
	15.17 - 15.44 m. Andesite cut by greenish-white qtz-carb @ 50°, 17° and 42° to CA. No visible mineralization.			5231	15.17-15.44	0.27	83	0.6	3	96	
	16.13 - 16.41 m. Alt'd andesite(?). Intensely silicified and epidotized. Yellow-green in color. Tr of dis py.	epidote and qtz	Tr dis py.	5232	16.13-16.41	0.28	5	0.3	11	7	
	16.41 - 16.55 m. Alt'd andesite(?). Intensely epidotized and silicified. 8 mm wide area of massive py (3%).	epidote and qtz	3% py, tr cp.	5233	16.41-16.55 Au assay 0.005 oz/ton (0.171 g/t)	0.14	225	1.6	567	125	
	16.55 - 16.86 m. Massive, brn mt with patches of qtz-carb (1-2.5 cm) with laths of chlorite (up to 1.6 cm). Contains 5% dis py in 1-5 mm masses.		5% dis py, 1% cp, massive mt.	5234	16.55-16.86 Au assay 0.045 oz/ton (1.54 g/t)	0.31	1990	3.8	1274	313	182 Co
	16.86 - 16.97 m. Massive brn mt. Contains 5% dis py masses (1-7 mm) with minor amounts of frct fill.		5% dis py, massive mt.	5235	16.86-16.97 Au assay 0.040 oz/ton (1.37 g/t)	0.11	1355	0.4	100	216	112 Co
	16.97 - 17.19 m. Massive mt with blue grn bands. Bands contain less mt @ approx. 74° to CA. Contains 7-10% py masses parallel to banding. Layers contain qtz-carb.		Banding @ 74° to CA. 7-10% py in bands, massive mt.	5236	16.97-17.19 Au assay 0.018 oz/ton (0.617 g/t)	0.22	605	1.3	84	285	184 Co

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
14.83 - 20.81 (cont.)	17.30 - 17.72 m. Massive mt with gy-grn patches of chlorite and carb. Contains approx. 7% dis py masses (0.5-2 mm).		7% dis py masses, 1% asp, massive mt.	5237	17.19-17.72	0.53	3450	0.5	135	3501	2164 Co
					Au assay 0.108 oz/ton (3.70 g/t)						
	17.72 - 17.88 m. Massive mt with a band of qtz-carb with chlorite laths on the margins. Contains 5% po in masses (4-40 mm) with 3-5% py masses (2-4 mm) and a tr of cp.		5% po, 3-5% py, tr cp, massive mt.	5238	17.72-17.88	0.16	1502	2.1	990	2495	1483 Co
					Au assay 0.047 oz/ton (1.61 g/t)						
	17.88 - 18.46 m. Massive mt with patches of grn chlorite and carb(?) (1-7 mm). Locally 3% py masses (2-9 mm).		Tr py, 1% asp, massive mt.	5239	17.88-18.46	0.58	1750	0.6	78	1459	761 Co
					Au assay 0.072 oz/ton (2.47 g/t)						
	18.46 - 18.63 m. Alt'd volcanic(?). Chloritized and carbonatized host with approx. 30% mt.	chlorite and carb	30% mt, 1% asp.	5240	18.46-18.63	0.17	1620	0.4	21	3079	1951 Co
					Au assay 0.045 oz/ton (1.54 g/t)						
	18.63 - 18.89 m. Alt'd volcanic(?). Chlorite laths (1-3 mm) with 10% dis mt grains and tr of dis py. Minor carbonatization.	chlorite and carb	10% dis mt, tr py, tr asp.	5241	18.63-18.89	0.26	1085	0.7	52	2009	1218 Co
					Au assay 0.033 oz/ton (1.13 g/t)						
	18.89 - 19.37 m. Lt grn, alt'd volcanic(?) breccia with intensely carb and silicified rounded clasts (1-26 mm). Interstices are filled with mt. Contains 3-5% py masses (1-5 mm), 5% mt.	epidote, qtz and carb	3-5% py masses, 5% mt, tr asp.	5242	18.89-19.37	0.48	350	0.3	92	716	466 Co
					Au assay 0.010 oz/ton (0.343 g/t)						
	19.37 - 19.99 m. Lt grn, alt'd volcanic(?). Intensely carb and silicified with hairline frcts filled with mt. Minor amounts of epidotization. Contains 3% dis py throughout, 5% mt.	epidote, qtz and carb	3% dis py, 5% mt.	5243	19.37-19.99	0.62	75	0.9	295	558	376 Co

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
14.83 - 20.81 (cont.)	19.99 - 20.14 m. Lt grn, alt'd volcanic(?). Intensely carb and silicified with laths of chlorite(?). Hairline frcts filled with 7% dis mt and 2-3% dis py.	carb and qtz	2-3% dis py, 7% dis mt, 1% cp.	5244	19.99-20.14	0.15	60	7.0	1954	202	132 Co
	20.14 - 20.34 m. Lt grn, alt'd volcanic(?). Intensely silicified and carb. Patchy epidote alt'n (localized). Contains approx. 7% dis mt as frct fill and throughout, and 3% cubic py (2-7 mm).	qtz, carb, and epidote	7% dis mt, 3% cubic py.	5245	20.14-20.34	0.20	72	1.6	440	52	
	20.34 - 20.44 m. Lt grn, alt'd volcanic(?). Intensely silicified and carb. Patchy epidote alt'n. Contains approx. 10% dis mt as frct fill and throughout, 2-3% dis masses of py and a tr of dis cp.	qtz, carb and epidote	10% dis mt, 2-3% dis py, tr dis cp.	5246	20.34-20.44 Au assay 0.012 oz/ton (0.411 g/t)	0.14	420	1.4	154	35	
	20.44 - 20.91 m. Alt'd diorite(?). Epidote alt'n of feldspars and chlorite alt'n of mafics. Tr of finely dis py.	epidote and chlorite	Broken core. Tr dis py.	5247	20.44-20.91	0.47	36	0.3	17	28	
20.81 - 25.15	Fine-grained diorite. Feldspar is alt'd to epidote and the mafics to chlorite. Locally intensely epidotized and silicified. Qtz-carb veins @ 22°, 47°, 38° and 50° to CA.										
	24.78 - 24.97 m. Alt'd and sheared diorite(?). Intensely epidotized and silicified. Foliation @ 64° to CA. Small lenses of carb parallel to foliation. No visible mineralization.	epidote and qtz	Foliation @ 64° to CA.	5248	24.96-25.15	0.19	6	0.1	19	31	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
25.15 - 29.29	Dk grn, fine-grained alt'd andesite.										
	25.15 - 25.25 m. Alt'd andesite(?) with a 2.8 cm wide epidotized and silicified zone @ 55° to CA. Contains approx. 3% dis py in and adjacent to alt'd zone.	qtz and epidote	Approx. 3% dis py.	5249	25.15-25.25 Au assay 0.025 oz/ton (0.857 g/t)	0.10	930	1.1	222	44	
	25.25 - 25.41 m. Lt grn, alt'd andesite. Intensely silicified and lightly carb. Numerous randomly orientated frcts. Contains 3% py as frct fill.	qtz and carb	3% py frct fill, 1% cp.	5250	25.25-25.41 Au assay 0.169 oz/ton (5.79 g/t)	0.16	5135	7.6	2522	174	136 Co
	25.41 - 25.91 m. Alt'd andesite. Intensely silicified and lightly carb. All original textures lost. Numerous hairline frcts. Tr of dis py in brn alt'n.	qtz and carb	Tr dis py.	5251	25.41-25.91 Au assay 0.019 oz/ton (0.651 g/t)	0.50	610	1.1	318	25	
	25.91 - 26.32 m. Lt blue-grn andesite(?). Intensely silicified with numerous laths of chlorite. Contains 3% mt in patches and a tr of dis py.	qtz	3% mt, tr dis py.	5252	25.91-26.32	0.41	73	1.4	475	41	
	26.32 - 26.62 m. Alt'd andesite(?). Very intensely silicified with mnr carb. Tr of dis py.	qtz and carb	Tr dis py.	5253	26.32-26.62	0.30	59	0.1	31	19	
	26.62 - 26.95 m. Alt'd andesite. Intensely silicified with minor amounts of epidote. Contains 2-3% finely dis py.	qtz and epidote	2-3% dis py.	5254	26.62-26.95 Au assay 0.016 oz/ton (0.549 g/t)	0.33	495	0.2	12	26	
	26.95 - 27.41 m. Alt'd andesite. Intensely silicified with qtz-carb vnlt @ 9° to CA (2-3 mm). Tr amounts of dis py and as frct fill.	qtz	Tr dis py and frct fill.	5255	26.95-27.41 Au assay 0.005 oz/ton (0.171 g/t)	0.46	225	0.1	10	19	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
25.15 - 29.29 (cont.)	27.41 - 27.61 m. Alt'd andesite(?). Intensely silicified, locally epidotized. No visible mineralization.	qtz and epidote	Tr cp.	5256	27.41-27.61	0.20	48	1.4	552	29	
	28.12 - 28.46 m. Alt'd andesite(?). Intensely silicified and epidotized. Tr to 2% finely dis py.	qtz and epidote	Tr to 2% dis py.	5257	28.12-28.46	0.34	92	0.9	240	89	
	28.46 - 28.64 m. Alt'd andesite(?). Intensely silicified and epidotized. Qtz-carb vein (approx. 2 mm) @ 40° to CA. No visible mineralization.	qtz and epidote		5258	28.46-28.64	0.18	52	0.4	53	148	
29.29 - 35.66	Gy, fine-grained diorite with dk, gy-grn, fine-grained xenoliths(?). Locally intensely epidotized. Contact @ 54° to CA. Veins @ 39°, 50°, 47° and 14° to CA. Mafics have alt'd to chlorite. Feldspars alt'd to epidote.	epidote									
	31.70 - 31.90 m. Alt'd diorite and xenolith(?). Lt grn in color. Intensely silicified. Numerous hairline frcts with epidote halos. Sporadic lenses of carb. Chlorite alt'n. Tr of dis py.	qtz, epidote and chlorite	Tr dis py.	5259	31.70-31.90	0.20	3	0.1	3	4	
35.66 - 65.36	Alt'd volcanic(?). Intensely silicified and epidotized, localized chlorite alt'n. Numerous carb and qtz veins @ 42°, 56°, 23° and 32° to CA.										
	35.72 - 36.35 m. Alt'd volcanic(?). Silicified, epidotized, and chloritized. Numerous patches of qtz (1-4 mm). Tr of finely dis py.	qtz, epidote and chlorite	Tr dis py.	5260	35.72-36.35	0.63	1	0.1	25	2	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
35.66 - 65.36 (cont.)	36.75 - 36.95 m. Volcanic breccia.										
	36.52 - 36.90 m. Gy-grn, alt'd volcanic(?). Poorly defined foliation @ 50° to CA. Silicified and epidotized. Several stringers of carb. Tr of finely dis py.	qtz and epidote	Tr dis py.	5261	36.52-36.90	0.38	1	0.1	2	2	
	38.71 - 38.79 m. Massive qtz vein (4.5 cm) @ 46° to CA. Crosscutting frcts (<0.5 mm) with patches of chlorite and epidote. Tr of dis py.	chlorite and epidote	Vein @ 46° to CA. Tr dis py.	5317	38.71-38.79	0.08	1	0.1	6	8	
	40.89 - 41.35 m. Gy-grn, alt'd volcanic(?). Silicified and epidotized. Patches of chlorite. Carb filled frcts @ 12° to CA (approx. 1 mm). Tr of finely dis py.	qtz, epidote and chlorite	Frcts @ 12° to CA. Tr dis py.	5262	40.89-41.35	0.46	1	0.1	3	7	
	45.03 - 45.23 m. Volcanic bx(?). Lt gy-grn; sub-ang to sub-rdd feldspar fragments (0.5-6 mm), some alt'd to epidote. Sub-rdd lithic fragments alt'd to epidote and chlorite (1-20 mm) and rdd blebs of carb (1-4 mm) all supported by a massive fine-grained matrix. No visible mineralization. Fault @ 42° to CA is 5 cm wide @ 45.18 m.	epidote, chlorite and qtz	Fault @ 42° to CA.	5263	45.03-54.23	0.20	29	0.3	36	20	
	45.39 - 45.85 m. Alt'd volcanic(?). Lt grn, intensely silicified. Cut by qtz-carb vnlts @ 30°, 49° and 50° to CA. Epidote alt'n with localized chlorite alt'n. No visible mineralization.	qtz, epidote and chlorite	Veins @ 30°, 49° and 50° to CA.	5264	45.39-45.85	0.46	7	0.3	6	9	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
35.66 - 65.36 (cont.)	47.51 - 47.74 m. Bx'd qtz-carb veins @ 46° to CA (4.1 & 10.5 cm) in a grn, fine-grained andesite. Silicified and chloritized. Angular fragments (1-25 mm) of wall rock orientated parallel to vein. Alt'n to chlorite with spots of epidote. Contains 2-3% dis py masses (1-9 mm).	qtz, chlorite and epidote	Veins @ 46° to CA. 2-3% dis py masses.	5265	47.51-47.74	0.23	460	0.7	396	53	
					Au assay 0.012 oz/ton (0.411 g/t)						
	47.85 m. Fault @ 39° to CA.										
	48.20 - 48.52 m. Alt'd volcanic(?). Intensely silicified moderately chloritized, patchy iron-carb and spotty epidotization. Qtz-carb vnlts @ 24°, 40° and 48° to CA. Tr of dis py in veins.	qtz, chlorite, iron-carb and epidote	Veins @ 24°, 40° and 48° to CA. Tr dis py.	5266	48.20-48.52	0.32	16	0.1	38	11	
	48.67 - 49.02 m. Alt'd andesite(?). Mod silicified, and chloritized. Patchy iron-carb alt'n. Qtz-carb veins @ 35° and 90° to CA (1-3 mm). Blebs of qtz (2-12 mm). Tr of dis py.	qtz, chlorite and iron carb	Veins @ 35° and 90° to CA. Tr dis py.	5267	48.67-49.02	0.35	2	0.1	6	4	
	49.02 - 49.66 m. Alt'd volcanic(?). Intensely silicified, patchy chlorite and iron-carb alt'n, minor epidotization. Tr of dis py.	qtz, chlorite, iron-carb and epidote	Tr dis py.	5268	49.02-49.66	0.64	2	0.1	4	4	
	49.66 - 49.88 m. Alt'd volcanic. Intensely silicified, epidotized and mod chloritized. Qtz-carb vein @ 71° to CA (approx. 6 mm). Tr to 5% dis py on frct surfaces.	qtz, epidote and chlorite	Vein @ 71° to CA. Tr to 5% dis py.	5269	49.66-49.88	0.22	32	0.1	38	31	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
35.66 - 65.36	49.88 - 50.16 m. Alt'd volcanic(?). Intensely silicified and epidotized with carb veins @ 34° and 27° to CA (4 & 16 mm). Contains 2-3% dis py throughout.	qtz and epidote	Veins @ 34° and 27° to CA. 2-3% dis py, 1% cp.	5270	49.88-50.16 Au assay 0.015 oz/ton (0.514 g/t)	0.28	540	3.2	1069	147	
	50.16 - 50.79 m. Alt'd volcanic. Dk grn, silicified, chloritized and lightly carb. Patchy epidote alt'n. Laths of chlorite visible (≤2 mm). Tr of dis py, locally up to 5% dis py.	qtz, chlorite and epidote	Tr dis py, locally 5% dis py, 1% cp.	5271	50.16-50.79	0.63	96	2.6	1094	52	
	50.79 - 51.39 m. Alt'd volcanic. Lt to med grn, intensely silicified and epidotized with qtz-carb veins (3-8 mm) @ 37°, 48°, 52°, 34° and 65° to CA. Chlorite alt'n occurs in halos about the veins. Tr to 1% finely dis py in veins and on frct surfaces.	qtz, epidote and chlorite	Veins @ 34-65° to CA. Tr to 1% dis py.	5272	50.79-51.39	0.60	11	0.1	155	33	
	51.39 - 51.52 m. Alt'd volcanic(?). Dk gy-grn. Bx'd with epidotized angular clasts (1-19 mm); mod carb and chloritization. Contains 3-5% patchy dis py (≤3 mm).	epidote, chlorite and carb	3-5% patchy dis py, tr cp, tr asp.	5273	51.39-51.52 Au assay 0.050 oz/ton (1.71 g/t) Ag assay 0.22 oz/ton (7.54 g/t)	0.13	1850	4.1	1066	745	
	51.52 - 51.80 m. Alt'd volcanic. Dk grn with numerous qtz-carb stringers. Mod carb and intensely chloritized. Patchy epidote alt'n. Contains 2% dis py.	chlorite, carb and epidote	2% dis py, 1% cp.	5274	51.52-51.80	0.28	203	3.9	1185	127	
	51.80 - 52.12 m. Alt'd volcanic. Med to dk grn. Intensely chloritized, epidotized and silicified. Carb veins @ 35° and 17° to CA (1-3 mm). Contains 2-3% dis py as frct fill.	chlorite, epidote and qtz	2-3% dis py, tr to 1% cp.	5275	51.80-52.12 Au assay 0.012 oz/ton (0.411 g/t)	0.32	490	2.3	1057	167	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
35.66 - 65.36 (cont.)	52.12 - 52.75 m. Alt'd volcanic. Med to dk grn. Intensely silicified, epidotized and chloritized. Cut by qtz-carb veins @ 47° and 35° to CA (1-4 mm). Tr to 2% finely dis py.	qtz, epidote and chlorite	Veins @ 47° & 35° to CA. Tr to 2% dis py, tr cp.	5276	52.12-52.75	0.63	95	3.4	1682	18	
	52.75 - 53.05 m. Alt'd volcanic(?). Dk to med grn. Large patches of chlorite alt'n and silicification. Contains 2-3% dis py.	chlorite and qtz	2-3% dis py.	5277	52.75-53.05	0.30	2	2.6	1331	46	
	53.05 - 53.38 m. Alt'd volcanic. Med grn, with carb stringers @ 20°, 34° and 45° to CA. Chloritized and silicified. Contains 3% cubic and dis py.	chlorite and qtz	Veins @ 20°, 34° and 45° to CA. 3% cubic and dis py.	5278	53.05-53.38	0.33	29	1.4	521	51	
	53.38 - 53.95 m. Alt'd volcanic. Med grn. Chloritized and mod silicified, with patchy epidotization. Contains 2% dis py.	chlorite and qtz	2% dis py, tr cp.	5279	53.38-53.95 Ag assay 0.21 oz/ton (7.2 g/t)	0.57	117	5.4	1909	67	
	53.95 - 54.20 m. Alt'd volcanic. Dk grn, chloritized, mod silicified, and lightly carb. Tr to 2% finely dis py and 4% dis po.	chlorite, qtz and carb	Tr to 2% dis py, 4% dis po, 1-2% cp.	5280	53.95-54.20 Au assay 0.009 oz/ton (0.309 g/t) Ag assay 0.65 oz/ton (22.3 g/t)	0.25	325	21.1	5725	89	
	54.20 - 54.51 m. Dk grn alt'd volcanic. Chloritized and silicified. Hairline frcts, randomly orientated. Contains 2% dis py as frct fill and tr amounts of cp.	chlorite and qtz	2% dis py, tr cp.	5281	54.20-54.51 Au assay 0.027 oz/ton (0.926 g/t) Ag assay 0.34 oz/ton (11.7 g/t)	0.31	1225	11.2	3506	172	
	54.51 - 54.62 m. Dk gy alt'd volcanic. Slightly carb and silicified. Contains 1% dis py, 3-4% po and 3% cp.	carb and qtz	1% dis py, 3-4% dis po, 3% dis cp.	5282	54.51-54.62 Au assay 0.118 oz/ton (4.05 g/t) Ag assay 2.43 oz/ton (83.3 g/t)	0.11	4460	81.0	22136	410	895 Zn

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
35.66 - 65.36 (cont.)	54.62 - 54.67 m. Bx'd volcanic(?). Dk gy and white. Angular clasts of carb with the interstices filled with chlorite. Contains 3% dis py and 1% cp.	chlorite	3% dis py, 1% cp.	5283	54.62-54.67 Au assay 0.040 oz/ton (1.37 g/t) Ag assay 0.26 oz/ton (8.91 g/t)	0.05	1610	8.0	1944	185	
	54.67 - 55.08 m. Med grn alt'd volcanic. Intensely chloritized and silicified, with patches of carb (0.5-1 mm). Contains 2-5% finely dis and cubic py.	chlorite, qtz and carb	2-5% dis & cubic py.	5284	54.67-55.08	0.41	215	3.0	874	101	
	55.08 - 55.61 m. Alt'd volcanic. Med grn; intensely chloritized and silicified. Contains 2-3% finely dis py (some as frct fill) and a tr of po.	chlorite and qtz	2-3% dis py, tr po.	5285	55.08-55.61	0.53	83	2.9	878	93	
	55.61 - 56.26 m. Alt'd volcanic. Med grn; intensely chloritized and silicified. Tr to 2% dis py.	chlorite and qtz	Tr to 2% dis py.	5286	55.61-56.26	0.65	250	2.5	696	146	
	56.26 - 56.67 m. Alt'd volcanic. Med to lt grn. Locally, intensely chloritized and silicified along with patchy epidotization. Contains 3% dis py.	chlorite, qtz and epidote	3% py.	5287	56.26-56.67	0.41	91	0.9	538	63	
	56.67 - 57.44 m. Alt'd volcanic. Lt grn, intensely silicified, locally chloritized and with patchy epidotization. Tr amounts of dis py.	qtz, epidote and chlorite	Tr dis py.	5288	56.67-57.44	0.77	72	0.2	217	12	
	57.44 - 57.91 m. Alt'd volcanic. Lt grn; intensely silicified, epidotized and locally chloritized. Tr amounts of dis py.	qtz, epidote and chlorite	Tr dis py.	5289	57.44-57.91	0.47	14	0.1	61	5	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
35.66 - 65.36 (cont.)	57.91 - 58.58 m. Alt'd volcanic. Lt grn; intensely silicified and epidotized. Locally chloritized. Tr of dis py.	qtz, epidote and chlorite	Tr dis py.	5290	57.91-58.58	0.67	6	0.1	63	4	
	59.38 - 59.67 m. Lt to med grn, alt'd volcanic. Intensely silicified and epidotized. Tr to 2% finely dis py.	qtz and epidote	Tr to 2% dis py.	5291	59.38-59.67	0.29	74	0.1	24	9	
	61.58 - 61.87 m. Alt'd andesite. Patch chlorite and epidote alt'n with numerous blebs of qtz. Tr of finely dis py. Silicified.	epidote, chlorite and qtz	Tr dis py.	5292	61.58-61.87	0.29	1	0.1	59	7	
	62.47 - 62.80 m. Alt'd volcanic. Med to lt grn, intensely silicified and epidotized. Tr of finely dis py.			5293	62.47-62.80	0.33	1	0.1	19	11	
	63.05 - 65.36 m. Andesite.										
65.36 - 67.66	Sheared, fine-grained diorite @ 19° to CA. Contact @ 63° to CA. Locally, intensely epidotized, and mafics chloritized, with qtz-carb veins @ 10° and 37° to CA.										
	66.54 - 66.63 m. Alt'd diorite; lt grn and sheared(?). Qtz vein (12 mm) @ 35° to CA. Mafics have alt'd to chlorite. Tr of dis py.	chlorite	Shear @ 35° to CA. Tr py.	5294	66.54-66.63	0.09	1	0.1	6	3	
67.66 - 97.56	67.66 - 67.84 m. Med grn alt'd volcanic. Silicified and epidotized. Patchy chloritization. No visible mineralization.	qtz, epidote and chlorite		5295	67.66-67.84	0.18	132	0.1	3	5	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
67.66 - 97.56 (cont.)	67.84 - 68.62 m. Med grn alt'd volcanic. Intensely silicified and epidotized. Localized chlorite alt'n. Tr of finely dis py on frct surfaces.	epidote, qtz and chlorite	Tr dis py.	5296	67.84-68.62	0.78	5	0.1	3	12	
	69.85 - 70.27 m. Alt'd intrusive; lt grn with dk grn speckles (alt'd mafics?). Intensely silicified and epidotized. Tr of finely dis py.	qtz and epidote	Tr dis py.	5297	69.85-70.27	0.42	7	0.2	99	4	
	70.27 - 70.84 m. Lt grn alt'd intrusive(?). Intensely epidotized and locally intensely silicified. Qtz-carb veins @ 50°, 55° and 75° to CA ($\leq$1 mm). Tr of finely dis py.	epidote and qtz	Veins @ 50°, 55° & 75° to CA. Tr dis py.	5298	70.27-70.84	0.57	55	0.5	335	3	
	70.84 - 71.12 m. Lt grn alt'd volcanic(?). Intensely silicified and epidotized. Vein (approx. 3 mm) @ 65° to CA filled with blk-grn mineral. Tr to 1% dis py throughout and in vein.	qtz and epidote	Tr to 1% dis py, tr cp.	5299	70.84-71.12	0.28	32	0.8	616	10	
	71.12 - 71.55 m. Lt and dk grn alt'd volcanic(?). Intensely epidotized and silicified. Lightly carb. Tr to 2% finely dis py; associated with blk-grn patches.	epidote, qtz and carb	Tr to 2% dis py, tr to 1% cp.	5300	71.12-71.55	0.43	108	3.4	1588	11	
	71.55 - 71.65 m. Qtz vein. Massive milky white qtz vein @ 47° to CA (52 mm) in lt grn alt'd volcanic. Tr of finely dis cp. Volcanic is intensely epidotized and silicified. Large (2-20 mm) blebs of qtz. Tr of finely dis py in qtz.	epidote and qtz	Vein @ 47° to CA. Tr dis cp, tr dis py.	5301	71.55-71.81	0.26	52	0.7	369	3	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
67.66 - 97.56 (cont.)	71.81 - 71.92 m. Very fine-grained alt'd volcanic(?). Intensely silicified with patchy epidote alt'n. Greenish brn in color. Tr to 1% py and asp.	qtz and epidote	Tr to 1% dis py and asp.	5302	71.81-71.92	0.11	49	0.2	187	17	
	71.92 - 72.44 m. Lt grn-brn alt'd volcanic(?). Intensely silicified and epidotized. Contains 3-5% dis py in a zone @ 10° to CA.	qtz and epidote	Band @ 10° to CA. 3-5% dis py.	5303	71.92-72.44	0.52	235	1.0	486	56	
	72.44 - 72.57 m. Alt'd volcanic(?), pinkish brn in color. Original textures not visible. Tr to 3% dis py.	qtz	Tr to 3% dis py.	5304	72.44-72.57	0.13	35	0.1	77	12	
	72.57 - 72.92 m. Greenish-pink alt'd volcanic(?). Intensely epidotized and silicified with pink patches (garnet?). Contains 4% dis and massive py.	epidote and qtz	4% dis & massive py.	5305	72.57-72.92	0.35	240	1.2	607	34	
	72.92 - 73.09 m. Alt'd volcanic(?). Greenish-gy in color. Intensely epidotized and silicified. Contains 5% massive py.	epidote and qtz	5% massive py.	5306	72.92-73.09 Au assay 0.062 oz/ton (2.13 g/t)	0.17	1910	1.7	429	195	
	73.09 - 73.19 m. Lt to med grn alt'd volcanic(?). Epidotization and silicification gives rock a swirly appearance, with blebs of qtz. Tr of dis py.	epidote and qtz	Tr dis py.	5307	73.09-73.19 Au assay 0.027 oz/ton (0.926 g/t)	0.10	920	1.7	661	127	
	73.19 - 73.28 m. Med grn alt'd volcanic(?). Epidotized and silicified with a (10.5 cm) mass of qtz-carb. Contains 3-5% py on frct surfaces.	epidote and qtz	3-5% py.	5308	73.19-73.28	0.09	255	2.0	747	80	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
67.66 - 97.56 (cont.)	73.28 - 73.55 m. Gy-grn alt'd volcanic. Silicified with patchy epidote alt'n. Blebs of qtz-carb. Contains 3% dis py, generally on frct surfaces.	qtz and epidote	3% dis py.	5309	73.28-73.55 Au assay 0.017 oz/ton (0.583 g/t)	0.27	440	1.1	562	24	
	73.55 - 73.92 m. Lt grn alt'd volcanic(?). Intensely epidotized and silicified. Random frcts filled with carb. Contains 1% dis py.	epidote and qtz	1% dis py.	5310	73.55-73.92	0.37	62	0.9	502	14	
	73.92 - 74.10 m. Lt grn alt'd volcanic. Epidotized and silicified with wavy bands of gy white qtz. Tr of finely dis py within qtz.	epidote and qtz	Tr dis py.	5311	73.92-74.10	0.18	13	0.7	210	6	
	74.10 - 74.70 m. Lt grn alt'd volcanic(?). Intensely epidotized and silicified with numerous cross-cutting frcts filled with qtz-carb. Tr of finely dis and massive py on frct surfaces.	epidote and qtz	Tr dis py.	5312	74.10-74.70	0.60	4	0.4	6	2	
	74.70 - 75.21 m. Lt grn alt'd volcanic(?). Intensely epidotized and silicified. Qtz-carb veins (2 - 3 mm) @ 47° and 34° to CA. Tr of finely dis py.	qtz and epidote	Veins @ 47° & 34° to CA. Tr dis py.	5313	74.70-75.21	0.51	7	0.4	45	3	
	75.21 - 75.50 m. Lt grn alt'd volcanic(?). Intensely epidotized and silicified with frctd mass (5-7 cm) of qtz @ 31° to CA. Frcts filled with epidote. Tr of finely dis py and cp within qtz.	epidote and qtz	Vein(?) @ 31° to CA. Tr dis py & cp.	5314	75.21-75.50	0.29	5	0.1	23	6	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
67.66 - 97.56 (cont.)	75.78 - 76.11 m. Lt grn alt'd volcanic(?). Epidotized and silicified. Approx. 3% of rock is massive qtz with patches of epidote. Tr of finely dis py.	epidote and qtz	Tr dis py.	5315	75.78-76.11	0.33	17	0.4	91	3	
	76.60 - 77.14 m. Lt grn, alt'd volcanic. Epidotized and silicified with poorly defined lt and dk grn banding. Tr of finely dis py.	epidote and qtz	Tr dis py.	5316	76.60-77.14	0.54	31	0.4	83	8	
	78.03 - 78.82 m. Broken core.		Broken core.								
	78.73 - 78.91 m. Lt to med grn alt'd volcanic. Intensely epidotized and silicified with blebs of qtz-carb. Frcts @ 52° and 35° to CA. Hairline frcts are filled with carb. Tr of dis and massive (smeared?) py on frct surfaces.	epidote and qtz	Broken core. Tr dis & massive py.	5318	78.73-78.91	0.18	33	1.3	52	27	
	79.27 - 79.69 m. Gy-grn alt'd volcanic. Silicified; locally epidotized with gy areas not epidotized. Region of massive frctd qtz with epidote in frcts. Numerous hairline frts. No visible mineralization. Gy areas diopside(?).	epidote and qtz	Broken core.	5319	79.27-79.69	0.42	15	0.1	19	13	
	80.49 - 80.84 m. Lt grn and red alt'd volcanic(?). Intensely epidotized and silicified with numerous blebs of qtz-carb. Localized red areas may be garnet(?). Tr of dis py and cp on frct surfaces.	epidote, qtz and garnet(?)	Tr dis py & cp.	5320	80.49-80.84	0.35	125	0.5	188	10	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
67.66 - 97.56 (cont.)	80.84 - 81.21 m. Reddish-brn alt'd volcanic(?). Intensely silicified. Red is possible garnet. Numerous crosscutting hairline frcts. No visible mineralization.	qtz and garnet(?)		5321	80.84-81.21	0.37	1	0.2	18	6	
	81.21 - 81.70 m. Red to gy alt'd volcanic. Red is garnet(?) with localized gy areas of qtz(?). Contains 2-3% dis py and a tr to 1% dis po on frct surfaces.	garnet and qtz	2-3% dis py, tr to 1% dis po, tr cp.	5322	81.21-81.70	0.49	138	3	1115	40	
	81.70 - 82.06 m. Reddish-gy alt'd volcanic(?) (see 81.21-81.70 m) with patches of epidote alt'n (1-3 mm). Contains 2-5% finely dis py on frct surfaces.	garnet(?), qtz and epidote	Broken core. 2-5% dis py.	5323	81.70-82.06	0.36	9	0.6	174	3	
	82.06 - 82.49 m. Reddish-brn alt'd volcanic(?). Garnetiferous(?) with numerous crosscutting hairline frcts. Contains 2-3% finely dis py and locally up to 5% finely dis po.	garnet	2-3% dis py, 5% dis po, tr to 1% cp.	5324	82.06-82.49	0.43	90	11.0	4579	35	
	82.49 - 83.03 m. Reddish-brn alt'd volcanic. Silicified with garnet. Patchy epidote alt'n. Locally 3-5% dis py and 3% dis po.	qtz, garnet and epidote	3-5% dis py, 3% dis po, 1-2% cp.	5325	82.49-83.03 Au assay 0.006 oz/ton (0.206 g/t)	0.54	203	28.5	11909	56	
	83.40 - 83.76 m. Lt gy-grn alt'd volcanic(?). Alternating bands of epidote and gy intensely silicified rock. Tr to 3% dis py, dominantly on frct surfaces.	epidote and qtz	Tr to 3% dis py.	5326	83.40-83.76	0.36	41	0.4	110	7	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
67.66 - 97.56 (cont.)	83.76 - 84.01 m. Lt gy alt'd volcanic(?). Intensely silicified with localized epidote alt'n. Tr of finely dis py in hairline frcts.	qtz and epidote	Tr dis py.	5327	83.76-84.01	0.25	8	0.4	71	8	
	84.04 - 84.39 m. Gy-grn alt'd volcanic(?). Intensely epidotized and silicified. Numerous blebs of qtz. Contains 3% finely dis py throughout.	qtz and epidote	3% dis py.	5328	84.04-84.39	0.35	59	0.2	22	11	
	84.39 - 97.56 m. Sheared dk grn andesite @ 59° to CA.										
	87.47 - 87.66 m. Foliated andesite. Dk grn with randomly orientated carb stringers. Sheared @ 56° to CA. Chlorite alt'n of host. Contains 2-3% finely dis py orientated parallel to foliation.	chlorite	Foliation @ 56° to CA. 2-3% dis py.	5329	87.47-87.66	0.19	4	0.2	50	8	
	93.23 - 93.42 m. Dk to med grn alt'd andesite. Intensely silicified and epidotized with qtz veins (1-2 m) @ 35° and 47° to CA. Tr to 2% finely dis py on frct surfaces.	qtz and epidote	Veins @ 35° & 47° to CA. Tr to 2% dis py.	5330	93.23-93.42	0.19	1	0.1	4	7	
	93.42 - 93.93 m. Alt'd volcanic with 50% massive qtz. Intensely epidotized and silicified. Patches of epidote alt'n within qtz. Tr of finely dis py.	epidote and qtz	Tr dis py.	5331	93.42-93.93	0.51	1	0.3	8	3	
97.56	EOH										

MPH CONSULTING LIMITED
Project: Contact Au
Project No.: V248-3
Client: Parallax Development Corp.

Length (m): 94.49
Dip : -70°
Azimuth : 255°
Core Size : NQ
Casing : 3.05 m

Grid: McNeil Peninsula L7+55N, 0+25E
Collar elev.: 35 m
Remarks: Sample nos. 5395 to 5465

Drilled: June 21-22/88
Contractor : Burwash
Logged by : G. Yip
Date logged: July 15/88

Objective: See drill hole CA88-11 summary in text of report.

Hole No.: CA88-11
Hole Survey Type: None
Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 3.05	Casing										
3.05 - 4.76	Dk gy-grn alt'd andesite. Numerous stringers of qtz and iron-carb alt'd to epidote.	epidote and iron-carb									
4.76 - 7.57	Med to fine-grained gy-white diorite. Locally epidotized; qtz-carb vnlts.		Contact @ 74° to CA.								
7.57 - 10.71	Med to dk gy porphyritic andesite with subhedral feldspar phenocrysts up to 1.2 cm. Locally alt'd.		Contact @ 24° to CA.								
	7.81 - 8.11 m. Gy porphyritic andesite.	epidote and chlorite	Tr dis py.	5395	7.81-8.11	0.30	2	0.1	3	30	
	9.29 - 10.74 m. Gy-grn, fine-grained andesite with subhedral to euhedral feldspar phenocrysts (1-2 mm).										
	10.15 - 10.31 m. Dk gy, fine-grained andesite.	chlorite and epidote	Tr dis py.	5396	10.15-10.31	0.16	2	0.2	5	6	
10.71 - 12.61	Med to fine-grained diorite. Locally alt'd by epidote and iron-carb. Contains angular xenoliths of a dk gy fine-grained volcanic.		Contact @ 45° to Ca.								

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: July 15, 1988 Hole No.: CA88-11

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
12.61 - 17.30	Med gy, fine-grained andesite. Locally porphyritic with subhedral to euhedral feldspar phenocrysts (1-3 mm). Qtz-carb and epidote filled veins.		Contact @ 29° to CA.								
	13.28 - 13.41 m. Gy-grn alt'd volcanic(?).	chlorite and carb	Tr to 1% dis py.	5397	13.28-13.41	0.13	56	1.9	536	111	
	13.41 - 13.70 m. Gy-grn alt'd volcanic(?).	chlorite, qtz and carb	3% dis py, 1% cp.	5398	13.41-13.70	0.29	30	5.2	1277	720	443 Co
	13.70 - 13.97 m. Lt gy-grn alt'd volcanic(?).	chlorite	2-3% dis po, 2-3% dis py.	5399	13.70-13.97	0.27	41	2.1	422	77	
	13.97 - 14.12 m. Lt grn alt'd volcanic(?).	chlorite and qtz	Tr dis mt, 1-2% dis po.	5400	13.97-14.12	0.15	13	0.4	108	54	
	14.12 - 14.33 m. Lt gy-grn alt'd volcanic(?).	epidote, carb and qtz	Broken core. Tr py.	5401	14.12-14.33	0.21	13	0.1	21	19	
	14.33 - 14.53 m. Lt blue-grn alt'd volcanic(?) with red patches.	qtz	Broken core. 2% dis po, 1% dis py.	5402	14.33-14.53	0.20	2	0.7	253	33	
	14.53 - 14.77 m. Dk grn alt'd volcanic(?).	chlorite	1-2% dis po.	5403	14.53-14.77	0.24	15	2.8	790	49	
	14.77 - 15.07 m. Lt blue-grn alt'd volcanic(?).	chlorite and qtz	5% dis po, 3-5% dis mt, 3% dis py, 1% cp.	5404	14.77-15.07 Au assay 0.012 oz/ton (0.411 g/t)	0.30	420	10.1	2885	223	
	15.07 - 15.31 m. Lt gy-grn, alt'd volcanic(?). Intensely silicified.	qtz	3-4% dis py.	5405	15.07-15.31	0.24	71	0.2	62	29	
	15.49 - 16.32 m. Lt greenish-brn volcanic(?). Intensely silicified.	qtz	1-2% dis mt, 3-5% dis py.	5406	15.49-16.32 Au assay 0.011 oz/ton (0.377 g/t)	0.83	325	0.4	66	55	
	16.32 - 16.64 m. Lt gy-grn intensely alt'd volcanic(?). No original textures visible.	qtz	Broken core. Tr to 1% dis py.	5412	16.32-16.64	0.32	41	1.4	384	75	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
12.61 - 17.30 (cont.)	16.64 - 16.89 m. Lt gy alt'd volcanic(?). Intensely silicified.	qtz	1-2% dis py.	5407	16.64-16.89	0.25	32	0.2	26	8	
	16.89 - 17.30 m. Lt grn alt'd volcanic(?).	epidote and qtz	Tr dis py, tr cp.	5408	16.89-17.30	0.41	23	1.9	717	11	
17.30 - 51.83	Med to fine-grained, gy-grn diorite. Locally alt'd by iron-carb, chlorite and epidote.										
	20.64 - 20.72 m. Fine-grained diorite. No visible mineralization.	epidote, iron-carb and chlorite		5409	20.64-20.72	0.08	1	0.1	6	2	
	21.37 - 21.59 m. Bx composed of alt'd diorite and volcanics, with carb alt'n.	epidote and chlorite	Tr dis py.	5410	21.37-21.59	0.22	1	0.1	8	8	
	22.35 - 22.56 m. Fine-grained, dk gy alt'd diorite.	epidote, iron-carb and chlorite	Broken core. Tr dis py.	5411	22.35-22.56	0.21	1	0.2	63	3	
	28.81 - 28.94 m. Lt gy to dk grn alt'd diorite. No visible mineralization.	epidote, chlorite and iron-carb		5413	28.81-28.94	0.13	4	0.1	78	9	
	29.39 - 29.55 m. Lt to med grn alt'd diorite.	epidote and chlorite	Tr dis py.	5414	29.39-29.55	0.16	1	0.1	3	8	
	30.25 - 30.40 m. Lt to med grn intensely alt'd diorite.	epidote	Tr dis py.	5415	30.25-30.40	0.15	2	0.1	4	9	
	30.75 - 30.97 m. Lt grn intensely alt'd zone in diorite.	epidote and qtz	Alt'n zone @ 35° to CA. Tr dis py.	5416	30.75-30.97	0.22	1	0.1	5	10	
	35.80 - 36.12 m. Lt to med grn alt'd diorite(?) bx zone with carb in interstices.	epidote, qtz and chlorite	Zoning @ 29° to CA. Tr dis py.	5417	35.80-36.12	0.32	35	0.3	7	8	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
17.30 - 51.83 (cont.)	32.07 - 51.83 m. Diorite(?) becoming increasingly alt'd and metamorphosed(?). Lt gy-grn in color. Original textures vanishing. Flooding of silica(?).										
	39.50 - 39.62 m. Strongly alt'd lt grn diorite(?). No visible mineralization.	epidote, chlorite and qtz		5418	39.50-39.62	0.12	1	0.1	4	3	
	41.45 - 41.72 m. Lt grn, strongly alt'd, bx'd diorite.	epidote and qtz	Broken core. Tr to 1% dis py.	5419	41.45-41.72	0.27	3	0.1	4	6	
	41.72 - 42.21 m. Lt gy-grn strongly alt'd diorite; bx'd(?).	epidote and qtz	Broken core. Tr to 1% dis py.	5420	41.72-42.21	0.49	1	0.1	4	4	
	42.67 - 42.89 m. Lt grn, strongly alt'd diorite(?). No original textures visible.	epidote and qtz	1-2% dis py.	5421	42.67-42.89	0.22	8	0.1	4	16	
	43.08 - 43.62 m. Lt grn, intensely alt'd diorite(?). No original textures visible.	epidote and qtz	Broken core. Tr py.	5422	43.08-43.62	0.54	2	0.1	15	39	
	43.83 - 44.02 m. Med grn, intensely alt'd diorite.	epidote, qtz and chlorite	1-2% dis py.	5423	43.83-44.02	0.19	9	0.4	193	96	
	44.02 - 44.64 m. Med to lt grn intensely alt'd diorite(?).	epidote, qtz and chlorite.	1-2% dis py.	5424	44.02-44.64	0.62	4	0.6	212	65	
	44.64 - 45.01 m. Med to lt grn intensely alt'd diorite(?).	epidote, qtz and chlorite	Broken core. 1-2% dis py.	5425	44.64-45.01	0.37	1	0.1	20	12	
	45.01 - 45.50 m. Lt grn, intensely alt'd diorite(?). No original textures visible. Bx'd.	epidote, qtz and chlorite	Broken core. Tr dis py.	5426	45.01-45.50	0.49	1	0.2	3	3	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
17.30 - 51.83 (cont.)	45.50 -45.73 m. Med gy-grn intensely alt'd diorite(?).	epidote and qtz	Broken core. Tr dis py.	5427	45.50-45.73	0.23	2	0.1	1	3	
	47.73 - 47.80 m. Lt gy-grn intensely alt'd diorite. Bx'd. Diorite becoming less alt'd.	qtz and epidote	Tr dis py.	5428	47.73-47.80	0.07	1	0.1	4	3	
	47.96 - 48.05 m. Contains 1 cm wide qtz vein in fine-grained alt'd diorite.	epidote	Vein @ 55° to CA. Tr dis py.	5429	47.96-48.05	0.09	2	0.1	6	2	
	48.87 - 49.00 m. Lt grn strongly alt'd diorite(?). No original textures visible.	epidote, qtz and carb	Broken core. Tr cp, tr to 1% dis py.	5430	48.87-49.00	0.13	1	3.5	1485	10	
	51.51 - 51.58 m. Massive qtz mass in fine-grained alt'd diorite(?).	qtz and epidote	Tr dis py.	5431	51.51-51.58	0.07	1	0.1	3	9	
51.83 - 94.49	Dk gy to lt grn andesite. Locally intensely epidotized and silicified.										
	52.12 - 52.20 m. Gy-grn qtz vein in andesite.	epidote	Vein @ 76° to CA. Tr dis py.	5432	52.12-52.20	0.08	22	0.1	22	17	
	52.67 - 52.79 m. Dk grn andesite.	epidote	1-2% dis py.	5433	52.67-52.79	0.12	1	0.1	34	82	
	52.95 - 53.05 m. Lt grn-gy alt'd andesite.	epidote	2-3% dis py.	5434	52.95-53.05	0.10	2	0.1	35	19	
	53.21 - 53.35 m. Dk gy andesite.	epidote	2-3% dis py.	5435	53.21-53.35	0.14	1	0.1	44	33	
	53.40 - 53.76 m. Lt grn alt'd andesite.	chlorite, epidote and qtz	Tr to 1% dis py.	5436	53.40-53.76	0.36	1	0.1	92	13	
	55.20 - 55.47 m. Lt grn intensely alt'd diorite(?).	epidote and chlorite	Tr to 1% dis py.	5437	55.20-55.47	0.27	1	0.1	6	6	
	55.77 - 56.06 m. Lt grn intensely alt'd diorite(?). Diopside present.	epidote and carb	Tr dis py.	5438	55.77-56.06	0.29	26	0.2	50	34	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
51.83 - 94.49 (cont.)	56.06 - 56.16 m. Lt grn intensely alt'd volcanic(?). Diopside(?).	carb, epidote and qtz	Tr dis py.	5439	56.06-56.16	0.10	15	0.3	101	17	
	56.26 - 56.37 m. Lt grn intensely alt'd volcanic(?) with diopside.	epidote and carb	Tr dis py.	5440	56.26-56.37	0.11	17	0.3	91	18	
	56.37 - 56.50 m. Gy-grn alt'd volcanic(?). Tr of diopside.	epidote and carb	Tr dis py.	5441	56.37-56.50	0.13	8	0.1	31	15	
	56.50 - 56.59 m. Lt gy-grn intensely alt'd volcanic(?).	epidote, qtz and carb	Tr dis py.	5442	56.50-56.59	0.09	5	0.2	46	16	
	56.78 - 57.27 m. Med gy to lt grn alt'd volcanic(?).	epidote and carb	2-3% dis py, tr to 1% dis cp.	5443	56.78-57.27 Au assay 0.008 oz/ton (0.274 g/t)	0.49	360	15.1	3541	105	300 Zn
	57.27 - 57.46 m. Lt gy-grn alt'd volcanic(?) with diopside.	epidote and carb	Tr py, tr po.	5444	57.27-57.46	0.19	37	0.6	147	38	
	57.46 - 57.80 m. Lt gy-grn intensely alt'd volcanic(?) with diopside(?).	epidote and carb	1-2% dis py, tr dis po, tr dis cp.	5445	57.46-57.80	0.34	85	3.3	984	43	
	57.80 - 58.03 m. Lt grn, intensely alt'd volcanic. Garnet(?).	epidote and carb	Tr dis py.	5446	57.80-58.03	0.23	27	0.5	150	22	
	60.48 - 60.67 m. Lt greenish-red intensely alt'd volcanic(?). Garnet.	epidote	Tr dis py.	5447	60.48-60.67	0.19	8	0.7	180	8	
	60.67 - 61.01 m. Lt grn, intensely alt'd volcanic(?). Garnet.	epidote	Tr dis py.	5448	60.67-61.01	0.34	3	0.4	129	4	
	61.01 - 61.28 m. Lt grn-gy intensely alt'd volcanic(?).	epidote and carb	Tr dis py.	5449	61.01-61.28 Au assay 0.014 oz/ton (0.480 g/t)	0.27	640	0.4	128	18	
	61.28 - 61.49 m. Med gy-grn intensely alt'd volcanic(?) with orange patches. Garnet(?). Diopside.	epidote and carb	Tr dis py.	5450	61.28-61.49	0.21	8	0.3	123	7	

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: July 16, 1988 Hole No.: CA88-11

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
51.83 - 94.49 (cont.)	61.49 - 61.76 m. Med gy-grn intensely alt'd volcanic(?). Diopside.	epidote and carb	Tr dis py.	5451	61.49-61.76	0.27	17	0.6	235	11	
	61.76 - 61.92 m. Blue-gy intensely alt'd volcanic(?) with orange patch of garnet(?).	carb and qtz	1-2% dis py.	5452	61.76-61.92	0.16	4	0.4	199	11	
	61.92 - 62.08 m. Orange-grn intensely alt'd volcanic(?). Garnet.	qtz and carb		5453	61.92-62.08	0.15	1	0.5	187	6	
	62.08 - 62.36 m. Blue-gy intensely alt'd volcanic(?). Garnet(?).	epidote, qtz and carb	Tr dis py.	5454	62.08-62.36	0.28	10	0.6	223	6	
	62.36 - 62.71 m. Dk gy-grn intensely alt'd volcanic(?).	epidote	3% dis py.	5455	62.36-62.71 Au assay 0.009 oz/ton (0.309 g/t)	0.25	250	1.7	540	43	
	66.20 - 66.75 m. Med gy-grn andesite.	epidote and carb	Broken core. Tr cp, 2-3% dis py.	5456	66.20-66.75	0.55	12	5.3	2275	31	
	66.75 - 68.12 m. Med grn andesite.	epidote	Broken core. 1-2% cp, 2-5% dis py.	5457	66.75-67.12	0.37	147	29.3	12264	230	
	68.35 - 68.57 m. Dk gy, locally alt'd andesite. Bx'd.	epidote and carb	1-2% dis py.	5458	68.35-68.57	0.22	10	1.5	484	10	
	69.25 - 69.53 m. Dk gy-grn andesite with carb filled stringers.	chlorite	Tr dis py.	5459	69.25-69.53	0.28	3	0.1	39	2	
	71.66 - 71.94 m. Dk grn andesite with bands of qtz-carb.	chlorite and epidote	Banding @ 64° to CA. Tr dis py.	5460	71.66-71.94	0.28	1	0.1	8	6	
	75.11 - 75.36 m. Dk gy, foliated andesite with bands of qtz-carb.	epidote and chlorite	Foliation @ 43° to CA. Tr dis py.	5461	75.11-75.36	0.25	1	0.1	8	2	
	79.41 - 79.64 m. Dk gy-grn andeside. No visible mineralization.	chlorite and epidote		5462	79.41-79.64	0.23	14	0.1	2	14	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
51.83 - 94.49 (cont.)	82.83 - 82.92 m. Contains 1.9 cm wide qtz vein in dk grn andesite. No visible mineralization.	chlorite		5463	82.83-82.92	0.09	1	0.1	3	2	
	85.91 - 86.20 m. Dk to lt grn intensely alt'd andesite with qtz vein (6.5 cm).	chlorite and carb	Vein @ 45° to CA. Tr dis py.	5464	85.91-86.20	0.29	3	0.2	3	6	
	86.66 - 86.93 m. Med to dk grn alt'd andesite.	chlorite and epidote	Tr dis py.	5465	86.66-86.93	0.27	4	0.1	1	8	
	90.97 - 91.74 m. Dk grn and white foliated andesite.		Foliation @ 62° to CA.								
94.49	EOH										

MPH CONSULTING LIMITED
Project: Contact Au
Project No.: V248-3
Client: Parallax Development Corp.

Length (m): 93.57
Dip : -45°
Azimuth : 260°
Core Size : NQ
Casing : 1.52 m

Grid: McNeil Peninsula L8+55N, 0+65W
Collar elev.: 32 m
Remarks: Sample nos. 5527 to 5582

Drilled: June 22-23/88
Contractor : Burwash
Logged by : G. Yip
Date logged: July 16/88

Objective: See drill hole CA88-12 summary in text of report.

Hole No.: CA88-12
Hole Survey Type: None
Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 1.52	Casing										
1.52 - 19.12	Med to fine-grained, dk gy-grn diorite with localized qtz-carb stringers; occassional epidote in filling. Mafics have generally alt'd to chlorite.										
	6.21 - 6.85 m. Lt gy diorite. Locally bx'd with carb infilling. No visible mineralization.	carb, chlorite and epidote	Broken core.	5527	6.21-6.85	0.64	26	0.1	7	8	
	7.32 - 7.51 m. Lt grn alt'd diorite.	epidote and iron-carb	Tr to 2% dis py.	5528	7.32-7.51	0.19	1	0.1	4	14	
	8.52 - 8.91 m. Lt gy-grn intensely alt'd diorite(?).	epidote, carb and qtz	Tr dis py.	5529	8.52-8.91	0.39	10	0.1	14	5	
	16.38 - 16.53 m. Lt grn intensely alt'd diorite.	epidote and qtz	Tr dis py.	5530	16.38-16.53	0.15	1	0.3	143	7	
19.12 - 21.25	Fine-grained, med grn andesite; chloritized and carb. Locally intensely carb. Lineation @ 31° to CA. Mafics alt'd to chlorite. Localized epidote alt'n.										
	20.35 - 20.69 m. Dk gy alt'd volcanic(?).	chlorite and carb	Tr to 1% py.	5531	20.35-20.69	0.34	22	0.4	76	29	
	20.69 - 20.85 m. Med gy alt'd volcanic(?).	carb and epidote	Tr dis py.	5532	20.69-20.84	0.15	29	0.4	80	34	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
19.12 - 21.25 (cont.)	20.84 - 21.25 m. Med to lt gy intensely alt'd volcanic(?).	carb	Broken core. Tr dis py.	5533	20.84-21.25	0.41	14	0.1	1	16	
21.25 - 24.85	Dk grn, alt'd, med to fine-grained diorite. Locally chloritized and epidotized; original textures are lost.										
	21.25 - 21.51 m. Gy white alt'd diorite.	carb	Tr dis py.	5534	21.25-21.51 Au assay 0.028 oz/ton (0.960 g/t)	0.26	830	0.4	215	239	
	21.51 - 21.94 m. Lt gy, alt'd diorite and vuggy carb. Lots of iron oxide.	carb		5535	21.51-21.94 Au assay 0.024 oz/ton (0.823 g/t)	0.43	665	0.1	52	142	
	22.21 - 22.49 m. Med gy alt'd diorite.	epidote and qtz	Tr dis py.	5536	22.21-22.49	0.28	37	0.1	4	21	
	22.49 - 22.91 m. Med gy alt'd diorite. No visible mineralization.	epidote, carb, iron-carb and chlorite		5537	22.49-22.91	0.42	33	0.1	5	31	
	22.91 - 23.00 m. Med to lt gy alt'd diorite.	qtz and chlorite	1-2% dis py.	5538	22.91-23.37	0.46	101	0.3	38	75	
	24.12 - 24.42 m. Lt to med gy-grn alt'd diorite(?); foliated.	epidote, qtz, carb and chlorite	Foliation @ 42° to CA. Tr to 1% dis py.	5539	24.12-24.42	0.30	32	0.1	8	29	
	24.60 - 24.98 m. Dk grn alt'd diorite and volcanic with carb veins (14-18 mm).	chlorite and epidote	Broken core. 1-2% dis py.	5540	24.60-24.98	0.38	43	0.3	330	43	
24.85 - 26.56	Dk grn, fine-grained andesite cut by qtz-carb and epidote filled stringers. Chlorite alt'd and locally intensely epidote alt'd.										

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: July 17, 1988 Hole No.: CA88-12

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
26.56 - 28.15	Med to fine-grained, gy to grn diorite. Mafics alt'd to chlorite, localized epidote alt'n.										
	26.97 - 27.33 m. Med grn intensely alt'd diorite.	epidote, chlorite and carb	Broken core. Tr dis py.	5541	26.97-27.33	0.36	2	0.1	30	13	
28.15 - 29.35	Med grn, fine-grained andesite. Numerous stringers of epidote with patches of a brn material.										
29.35 - 87.49	Med to fine-grained, gy-grn alt'd diorite with vuggy carb stringers.										
	31.39 - 31.93 m. Lt grn-gy foliated diorite.	qtz	Broken core. Foliation @ 55° to CA. Tr dis py.	5542	31.39-31.93	0.54	16	0.1	20	27	
	31.93 - 32.48 m. Med gy, fine-grained diorite cut by vuggy carb stringers (2-3 mm).	chlorite and qtz	Broken core. Veins @ 27° to CA.	5543	31.93-32.48	0.55	29	0.1	68	26	
	34.58 - 34.75 m. Gy-grn, intensely alt'd fine-grained diorite(?).	qtz and epidote	Tr dis py.	5544	34.58-34.75	0.17	3	0.1	47	3	
	36.27 - 36.55 m. Gy-grn, intensely alt'd diorite(?).	qtz and epidote	Tr dis py.	5545	36.27-36.55	0.28	1	0.1	7	2	
	38.71 - 38.89 m. Fine-grained, lt gy-grn alt'd diorite.	qtz and chlorite	Tr to 1% dis py.	5546	38.71-38.89	0.18	2	0.1	131	5	
	41.37 - 41.51 m. Fine-grained, med gy diorite.	chlorite and epidote	Tr dis py.	5547	41.37-41.51	0.14	1	0.1	52	3	
	42.05 - 42.16 m. Fine-grained, lt grn-gy alt'd diorite	qtz and iron-carb	Broken core. Tr dis py.	5548	42.05-42.16	0.11	1	0.1	17	4	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
29.35 - 87.49 (cont.)	45.20 - 45.61 m. Fine-grained, lt grn, alt'd diorite. Locally, loss of original textures.	epidote and qtz	Tr dis py.	5549	45.20-45.61	0.41	2	0.1	19	5	
	46.13 - 46.22 m. Lt gy, fine-grained diorite and fault gouge. No orientation taken, broken core. No visible mineralization.	chlorite	Broken core.	5550	46.13-46.22	0.09	1	0.1	146	3	
	46.47 - 46.60 m. Blue-gy alt'd fine-grained diorite.	epidote and qtz	Tr dis py.	5551	46.47-46.60	0.13	1	0.1	13	4	
	53.21 m. Fault gouge(?) in diorite subparallel to CA.		Broken core.								
	53.81 - 53.95 m. Lt gy-grn intensely alt'd diorite.	qtz and epidote	Tr dis py.	5552	53.81-53.94	0.14	12	0.2	42	4	
	55.04 - 55.18 m. Lt gy-grn intensely alt'd diorite(?).	epidote, carb and qtz	Broken core. 1-2% dis py.	5553	55.04-55.18	0.14	4	0.1	19	3	
	56.38 - 56.61 m. Lt blue-gy alt'd diorite.	qtz and epidote	Tr dis py.	5554	56.38-56.61	0.23	1	0.1	5	3	
	57.25 - 57.26 m. Lt gy alt'd diorite.	qtz and epidote	Tr dis py.	5555	57.25-57.56	0.31	13	0.2	2	5	
	57.77 - 57.99 m. Gy-grn, fine-grained, alt'd diorite. No visible mineralization.	qtz and epidote		5556	57.77-57.99	0.22	7	0.2	5	8	
	58.07 - 58.34 m. Lt gy to off-white, very intensely alt'd diorite. Original textures not visible.	qtz and epidote	Tr py.	5557	58.07-58.34	0.27	2	0.1	3	4	
	58.52 - 58.66 m. Lt gy-grn alt'd diorite(?).	qtz, epidote and carb	Tr dis py.	5558	58.52-58.66	0.14	3	0.1	3	11	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
29.35 - 87.49 (cont.)	59.28 - 59.60 m. Lt gy to off-white, intensely alt'd diorite(?). Original textures lost.	qtz	Broken core. Tr dis py.	5559	59.28-59.60	0.32	1	0.1	3	5	
	59.60 - 60.09 m. Lt gy-grn, very intensely alt'd diorite(?). Original textures lost.	qtz and epidote	Tr dis py.	5560	59.60-60.09	0.49	1	0.1	3	2	
	60.09 - 60.62 m. Same as interval from 59.60 to 60.09 m.	qtz and epidote	Tr dis py.	5561	60.09-60.62	0.53	5	0.1	2	5	
	60.62 - 60.88 m. Same as interval from 59.60 to 60.09 m.	qtz and epidote	Tr dis py.	5562	60.62-60.88	0.26	2	0.1	3	2	
	64.50 - 64.76 m. Med gy alt'd diorite.	qtz and epidote	Tr dis py.	5563	64.50-64.76	0.26	1	0.1	3	2	
	67.16 - 67.32 m. Foliated, fine-grained, gy diorite. Contains a 9 mm qtz vein.	epidote and qtz	Vein @ 33° to CA. Foliation @ 51° to CA. Tr dis py.	5564	67.16-67.32	0.16	4	0.1	55	2	
	69.98 - 70.13 m. Gy-grn, intensely alt'd diorite(?). No original textures visible.	qtz	Tr dis py.	5565	69.89-70.13	0.24	2	0.2	49	10	
	70.53 - 70.93 m. Lt gy-grn intensely alt'd diorite(?).	qtz	Tr dis py. Foliation @ 43° to CA.	5566	70.53-70.93	0.40	2	0.1	5	13	
	70.93 - 71.23 m. Lt blue-gy intensely alt'd diorite(?). Original textures not visible. No visible mineralization.	qtz		5567	70.93-71.23	0.26	1	0.1	5	4	
	71.92 - 73.27 m. Lt blue-grn intensely alt'd diorite(?). Original textures not visible.	epidote and qtz	Alt'n @ 21° to CA. Tr dis py.	5568	71.92-73.27	0.35	1	0.1	8	4	
	76.74 - 76.90 m. Med gy, alt'd, fine-grained diorite.	epidote	3% dis py.	5569	76.74-76.90	0.16	55	0.8	388	37	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
29.35 - 87.49 (cont.)	83.17 - 83.67 m. Med gy, fine-grained, foliated diorite.	epidote	Foliation @ 35° to CA. Tr to 1% dis py.	5570	83.17-83.72	0.55	5	0.2	88	5	
	83.72 - 84.04 m. Dk gy, alt'd, fine-grained diorite.	qtz	Tr to 1% dis py.	5571	83.72-84.04	0.32	3	0.5	117	4	
	84.04 - 84.43 m. Same as interval from 83.72 to 84.04 m.	qtz and epidote	Tr dis po.	5572	84.04-84.43	0.39	5	0.3	107	12	
	84.43 - 84.55 m. Lt gy, fine-grained, locally alt'd diorite.	epidote and qtz	Tr dis po.	5573	84.43-84.55	0.12	8	0.5	294	12	
	84.55 - 84.77 m. Lt gy, alt'd, fine-grained diorite.	qtz, carb and epidote	Tr dis py.	5574	84.55-84.77	0.22	11	0.5	102	123	
	84.77 - 85.08 m. Same as interval from 84.55 to 84.77 m.	qtz and epidote	Tr dis py.	5575	84.77-85.08	0.31	8	0.3	91	74	
	85.08 - 85.41 m. Same as interval from 84.55 to 84.77 m.	qtz	Broken core. Tr to 1% py.	5576	85.08-85.41	0.33	12	0.9	203	70	
	85.41 - 85.98 m. Med to dk gy alt'd diorite.	qtz and epidote	Tr dis py.	5577	85.41-85.71	0.30	37	2.3	397	143	
	85.71 - 85.97 m. Same as interval from 85.41 to 85.98 m.	qtz	Tr dis py.	5578	85.71-85.97	0.26	3	0.3	65	7	
	85.97 - 86.08 m. Same as interval from 85.41 to 85.98 m.	qtz	Tr to 1% dis py.	5579	85.97-86.08	0.11	28	1.0	459	745	
	86.31 - 86.54 m. Dk gy, fine-grained alt'd diorite(?).	qtz and carb	1-2% dis py.	5580	86.31-86.54	0.23	26	1.2	563	114	
	87.25 - 87.35 m. Dk gy, fine-grained diorite and 2 mm qtz-carb vein. No visible mineralization.	epidote	Vein @ 3° to CA.	5581	87.25-87.35	0.10	10	0.2	116	50	

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: July 17, 1988 Hole No.: CA88-12

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
87.49 - 88.47	Dk gy, fine-grained feldspar porphyritic volanic. Phenocrysts, 1-3 mm, are subhedral.		Contact @ 56° to CA.								
88.47 - 93.57	Fine-grained, med gy foliated diorite cut by qtz-carb and epidote filled stringers.		Contact @ 76° to CA.								
	91.87 - 92.06 m. Fine-grained, gy diorite with a 6 mm qtz epidote vein.	epidote	Vein @ 20° to CA.	5582	91.87-92.06	0.19	1	0.1	44	3	
93.57	EOH										

MPH CONSULTING LIMITED
Project: Contact Au
Project No.: V248-3
Client: Parallax Development Corp.

Length (m): 91.14
Dip : -70°
Azimuth : 260°
Core Size : NQ
Casing : 1.83 m

Grid: McNeil Peninsula L8+55N, 0+65W
Collar elev.: 32 m
Remarks: Sample nos. 5466 to 5526

Drilled: June 23-24/88
Contractor : Burwash
Logged by : G. Yip
Date logged: July 17/88

Objective: See drill hole CA88-13 summary in text of report.

Hole No.: CA88-13
Hole Survey Type: None
Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 1.83	Casing										
1.83 - 27.62	Dk gy to med grn, fine to med-grained, alt'd diorite. Locally very intensely alt'd (epidote and qtz); no original textures visible. Also cut by qtz-carb and epidote filled stringers.										
	9.63 - 9.78 m. Med grn, alt'd diorite with a 1 cm qtz vein.	chlorite, epidote and qtz	Vein @ 25° to CA. Tr dis py.	5466	9.63-9.78	0.15	54	0.1	8	3	
	11.96 - 12.14 m. Med grn, fine-grained diorite.	epidote and qtz	Tr to 2% dis py.	5467	11.96-12.14	0.18	6	0.1	25	3	
	12.93 - 13.09 m. Med grn, fine-grained, alt'd diorite.	epidote and chlorite	Tr dis py.	5468	12.93-13.09	0.16	3	0.1	3	4	
	16.46 - 16.56 m. Fine-grained diorite. Contains a 3.5 cm alt'd zone.	qtz and epidote	Alt'n @ 42° to CA. Tr dis py.	5469	16.46-16.56	0.10	1	0.1	15	4	
	21.68 - 21.79 m. Very intensely alt'd fine-grained, med grn diorite(?). No original textures visible.	epidote and qtz	Alt'n @ 42° to CA. Tr dis py.	5470	21.68-21.79	0.11	4	0.2	1	3	
	23.72 - 23.85 m. Gy-grn, intensely alt'd diorite(?). Bx'd.	epidote, carb and iron-carb	Tr dis py.	5471	23.72-23.85	0.13	49	0.2	4	58	
	26.56 - 26.70 m. Med gy, foliated diorite.	qtz	Foliation @ 70° to CA. 1% dis py.	5473	26.56-26.70	0.14	11	0.1	40	24	

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: July 17-18/88 Hole No.: CA88-13

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
27.62 - 28.11	Dk to med gy, fine-grained, alt'd volcanic(?). Intensely silicified with oxidation stains.										
	27.76 - 27.89 m. Med gy-grn, fine-grained volcanic.	qtz	Broken core. Tr to 1% dis py, tr cp.	5472	27.76-27.89 Au assay 0.009 oz/ton (0.309 g/t)	0.13	230	1.8	835	178	
28.11 - 78.01	Med to dk gy, fine-grained, alt'd, foliated diorite. Locally very intensely silicified; no original textures visible. Cut by stringers filled with qtz-carb and epidote.										
	29.90 - 30.03 m. Blue-grn intensely alt'd diorite(?). Original textures not visible.	qtz	3-5% dis py.	5474	29.90-30.03	0.13	86	0.2	7	56	
	30.03 - 30.25 m. Same as above.	qtz and epidote	1-2% dis py.	5475	30.03-30.25	0.22	2	0.1	3	3	
	30.25 - 30.40 m. Lt blue-grn intensely alt'd diorite(?).	qtz and chlorite	Tr to 2% dis py.	5476	30.25-30.40	0.15	102	0.1	5	2	
	32.19 - 32.65 m. Lt blue-gy intensely alt'd fine-grained diorite.	qtz	Broken core. Tr dis py.	5477	32.19-32.65	0.46	3	0.1	2	3	
	33.44 - 33.71 m. Med gy-grn, alt'd, fine-grained, foliated, diorite.	qtz and epidote	Foliation @ 71° to CA. Tr dis py.	5478	33.44-33.71	0.27	15	0.2	31	22	
	39.80 - 39.99 m. Med grn, intensely alt'd diorite(?). Original textures not visible.	qtz and epidote	Tr dis py.	5479	39.80-39.99	0.19	3	0.4	128	5	
	39.44 m. Fine-grained, blue-grn diorite is foliated and cut by numerous stringers of qtz, carb and epidote.		Foliation @ 60° to CA. Veins @ 60°, 82° & 51° to CA.								
	41.31 - 41.50 m. Med to lt grn, intensely alt'd diorite(?).	qtz and epidote	Alt'n @ 47° to CA. Tr dis py.	5480	41.31-41.50	0.19	3	0.1	19	10	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
28.11 - 78.01 (cont.)	45.44 - 45.88 m. Med grn intensely alt'd diorite(?).	qtz and epidote	Tr dis py.	5481	45.44-45.88	0.44	1	0.3	11	6	
	49.21 - 49.49 m. Med blue-grn intensely alt'd diorite.	qtz and epidote	Tr dis py, tr cp.	5482	49.21-49.49	0.28	5	0.6	325	4	
	50.22 - 50.35 m. Med blue-grn alt'd diorite.	qtz and epidote	Tr dis py.	5483	50.22-50.35	0.13	1	0.3	11	5	
	52.66 m. Foliated, blue-grn, fine-grained diorite.		Foliation @ 61° to CA.								
	55.86 - 56.09 m. Med gy, intensely alt'd diorite(?). No visible mineralization.	qtz and epidote	Alt'n @ 23° to CA.	5484	55.86-56.09	0.23	1	0.2	5	3	
	58.83 - 59.16 m. Off-white, very intensely alt'd diorite(?). No original textures visible.	qtz	Broken core. Tr dis py.	5485	58.83-59.16	0.33	3	0.1	1	5	
	59.70 - 59.91 m. Lt blue-grn, intensely alt'd diorite(?). No original textures visible. No visible mineralization.	qtz and carb		5486	59.70-59.91	0.21	1	0.1	3	4	
	63.42 - 63.72 m. Lt gy to off-white, very intensely alt'd diorite(?). Original textures lost.	qtz	Tr to 1% dis py.	5487	63.42-63.72	0.30	1	0.1	1	4	
	64.34 - 70.61 m. Bleached out diorite(?). Very intenesly alt'd, silicified. No original textures visible. Tr of finely dis py.										
	65.64 - 65.98 m. Same as interval 63.42 - 63.72 m.	qtz	Tr dis py.	5488	65.64-65.98	0.34	1	0.2	1	3	

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: July 18, 1988 Hole No.: CA88-13

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
28.11 - 78.01 (cont.)	66.23 - 66.76 m. Yellow to off-white, very intensely alt'd, fine-grained diorite(?). No original textures visible; massive.	qtz	Tr dis py.	5489	66.23-66.76	0.53	1	0.2	1	2	
	67.88 - 68.19 m. Lt gy to off-white. Same as above.	qtz	Broken core. Tr dis py.	5490	67.88-68.19	0.31	2	0.1	2	2	
	68.16 - 68.58 m. Off-white. Same as above.	qtz	Broken core. Tr dis py.	5491	68.19-68.58	0.39	1	0.1	1	2	
	69.19 - 69.49 m. Same as above.	qtz	2-3% dis py.	5492	69.16-69.49	0.33	1	0.1	1	2	
	69.49 - 69.69 m. Same as above.	qtz	Tr dis py.	5493	69.49-69.69	0.20	1	0.1	1	2	
	71.41 - 71.58 m. Lt blue-grn alt'd, fine-grained diorite(?).	qtz	Tr dis py.	5494	71.41-71.58	0.17	1	0.1	2	2	
	71.79 - 71.98 m. Lt gy-grn alt'd fine-grained diorite. No visible mineralization.	qtz and epidote		5495	71.79-71.98	0.19	2	0.1	2	4	
	73.36 - 73.49 m. Massive gy qtz vein (2.4 cm) in med gy, fine-grained diorite.	epidote	Vein @ 14° to CA. Tr py.	5496	73.36-73.49	0.13	2	0.2	48	3	
	77.50 - 77.78 m. Dk gy, fine-grained.	chlorite and epidote	Tr to 2% dis py.	5497	77.50-77.78	0.28	2	0.2	14	2	
78.01 - 78.96	Med grn, fine-grained feldspar porphyry dyke. Feldspar phenocrysts 1-2 mm are subhedral and altering to epidote.		Contact @ 88° to CA.								
	78.39 - 78.47 m. Gy-grn, fine-grained, alt'd dyke(?).	epidote	1-2% dis py.	5498	78.39-78.47	0.08	1	0.2	26	4	

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: July 18, 1988 Hole No.: CA88-13

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
78.96 - 91.14	Fine-grained, foliated, med gy, diorite, cut by stringers of qtz, carb and epidote.		Foliation @ 57° to CA.								
	79.04 - 79.26 m. Alt'd, fine-grained med gy diorite.	qtz and epidote	1-2% dis py.	5499	79.04-79.26	0.22	1	0.5	40	3	
	79.62 - 79.74 m. Alt'd fine-grained blue-gy diorite.	qtz and epidote	Tr to 1% dis py.	5500	79.62-79.74	0.12	2	0.3	98	6	
	80.06 - 80.47 m. Gy alt'd diorite.	epidote and qtz	3-5% dis py.	5501	80.06-80.47	0.39	1	0.3	74	7	
	80.47 - 80.68 m. Blue-gy alt'd diorite.	qtz and epidote	Tr dis py.	5502	80.47-80.68	0.21	4	0.5	22	15	
	80.68 - 80.91 m. Med gy, alt'd, fine-grained diorite.	qtz and epidote	Tr to 1% dis py.	5503	80.68-80.91	0.23	6	0.5	30	10	
	80.91 - 81.38 m. Same as above.	qtz and epidote	Tr dis py.	5504	80.91-81.38	0.47	46	0.2	58	3	
	81.38 - 81.64 m. Same as above.	qtz	Tr dis py.	5505	81.38-81.64	0.26	1	0.9	189	5	
	81.64 - 81.88 m. Same as above.	qtz and epidote	3-5% dis py, tr cp.	5506	81.64-81.88	0.24	5	0.8	229	2	
	81.88 - 82.28 m. Bx'd, blue-gy alt'd diorite(?). Original textures lost; carb infills the interstices.	qtz	Broken core. Tr dis py.	5507	81.88-82.28	0.40	1	0.2	18	2	
	82.85 - 83.33 m. Alt'd, gy, fine-grained diorite(?) with qtz-carb veins (8 and 38 mm).	qtz	Veins @ 30° & 36° to CA. Tr to 1% dis py.	5508	82.85-83.33	0.48	33	0.3	92	2	
	83.33 - 83.73 m. Alt'd med gy fine-grained diorite.	qtz	Tr dis py.	5509	83.33-83.73	0.40	1	0.2	22	4	
	83.73 - 84.04 m. Same as above.	qtz and carb	2-3% dis py.	5510	83.73-84.04	0.31	1	0.1	25	7	

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: July 18, 1988 Hole No.: CA88-13

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
78.96 - 91.14 (cont.)	84.04 - 84.43 m. Same as interval 83.33 - 83.73 m.	qtz	Broken core. Tr dis py.	5511	84.04-84.43	0.39	1	0.5	30	3	
	84.43 - 84.89 m. Same as above.	qtz	Foliation @ 53° to CA. Tr to 2% dis py.	5512	84.43-84.89	0.46	1	0.1	30	5	
	84.89 - 85.31 m. Same as above. No visible mineralization.	qtz and epidote	Foliation @ 55° to CA.	5513	84.89-85.31	0.42	1	0.3	16	10	
	85.31 - 85.44 m. Same as above.	qtz	1-2% dis py.	5514	85.31-85.44	0.13	24	0.4	23	11	
	85.44 - 86.08 m. Sheared and alt'd, gy, fine-grained diorite. Unconsolidated.	carb	Shearing sub-parallel to CA. Unconsolidated core. 3-5% dis py.	5515	85.44-86.08	0.64	108	0.8	11	61	
	86.08 - 86.33 m. Same as above.	qtz and carb	Unconsolidated core. Tr dis py.	5516	86.08-86.33	0.25	89	0.4	6	48	
	86.33 - 86.82 m. Same as above.	qtz and carb	Unconsolidated core. 2-3% dis py.	5517	86.33-86.82	0.49	21	0.2	14	27	
	86.82 - 87.48 m. Same as above.	qtz and carb	Unconsolidated core. 2-3% dis py.	5518	86.82-87.48	0.66	2	0.4	10	44	
	87.48 - 87.82 m. Same as above.	qtz and carb	Unconsolidated core. 2-3% dis py.	5519	87.48-87.82	0.34	11	0.5	6	55	
	87.82 - 88.03 m. Med gy fine-grained, alt'd diorite; carb bx.	qtz and carb	Tr to 1% dis py.	5520	87.82-88.03	0.21	15	0.4	3	28	
	88.03 - 88.39 m. Same as above.	qtz and carb	2-3% dis py.	5521	88.03-88.39	0.36	5	0.5	5	85	
	88.39 - 88.78 m. Same as above.	qtz and carb	Tr to 1% dis py.	5522	88.39-88.78	0.39	1	0.2	2	28	
	88.78 - 88.94 m. Med gy, fine-grained diorite and carb bx.	qtz and carb	Tr dis py.	5523	88.78-88.94	0.16	1	0.3	5	7	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
78.96 - 91.14 (cont.)	88.94 - 89.21 m. Med gy alt'd fine-grained diorite.	qtz, epidote and carb	Tr to 1% dis py.	5524	88.94-89.21	0.27	1	0.3	5	7	
	89.21 - 89.56 m. Med gy alt'd diorite.	qtz and epidote	Broken core. Tr dis py.	5525	89.21-89.56	0.35	1	0.1	12	3	
	89.56 - 89.74 m. Same as above.	qtz	Broken core. 2-3% dis py.	5526	89.56-89.74	0.18	3	0.4	36	2	
91.14	EOH										

MPH CONSULTING LIMITED
Project: Contact Au
Project No.: V248-3
Client: Parallax Development Corp.

Length (m): 133.2
Dip : -45°
Azimuth : 128°
Core Size : NQ
Casing : 4.88 m

Grid: Main Grid L4+40N, 1+80E
Collar elev.: 100 m
Remarks: Sample nos. 5827 to 5834

Drilled: June 25-29/88
Contractor : Burwash
Logged by : C. Naas
Date logged: July 16/88

Objective: See drill hole CA88-14 summary in text of report.

Hole No.: CA88-14
Hole Survey Type: None
Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 4.88	Casing										
4.88 - 33.29	Diorite is metamorphosed into migmatite with agmatitic texture. Diorite ranges from med to coarse-grained to very fine-grained. Locally, the fine-grained areas resemble volcanics on a macroscopic scale. Contacts between med and fine-grained areas are both sharp and gradational. Crystals within the diorite form a crude foliation of approx. 40° to 50° to CA. Small shears and faults are common.	qtz and epidote alt'n with veining is common throughout	Rock is very blocky throughout. Locally tr py is found.								
	25.33 - 25.48 m. Gy migmatitic diorite. Crystals range from 2 mm to <0.5 mm. Sample is 40% med-grained diorite and 60% fine-grained diorite. Vnlts of qtz and epidote are common.	epidote	Tr to 1% py.	5827	25.33-25.48	0.15	1	0.1	55	3	
33.29 - 36.74	Strongly alt'd pale grn diorite. Migmatitic diorite has been flooded with qtz and carb. Locally, textures are non-existant. Epidote, qtz and carb veining.	epidote, qtz and carb	Tr py.								
	33.29 - 33.58 m. Pale grn alt'd diorite.	epidote, qtz and carb	Tr py.	5828	33.29-33.58	0.29	1	0.1	27	4	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
33.29 - 36.74 (cont.)	34.03 - 34.53 m. Pale grn alt'd diorite.	epidote, qtz and carb	Tr py.	5829	34.03-34.53	0.50	1	0.1	10	4	
	35.66 - 35.90 m. Pale grn alt'd diorite.	qtz, epidote and carb	Tr py.	5830	35.66-35.90	0.24	1	0.4	155	6	
	36.16 - 36.74 m. Pal grn alt'd diorite.	qtz, epidote and carb	Tr py.	5831	36.16-36.74	0.38	1	0.1	3	2	
36.74 - 133.20	Diorite is metamorphosed into migmatite with agmatitic texture. Diorite ranges from med-grained to very fine-grained. Locally the fine-grained areas resemble volcanics on a mesoscopic scale. Contacts between med and fine-grained areas are both sharp and gradational. Crystals within diorite form a crude foliation approx. 40° to 50° to CA. Small shears and faults are common.	qtz and epidote alt'n with veining is common throughout									
	85.28 - 85.51 m. Pale grn alt'd diorite.	qtz and carb	Tr py.	5832	85.28-85.51	0.23	2	0.1	4	2	
	101.31 - 101.51 m. Gy migmatitic diorite. Amphibole vein, 1 cm, with qtz, containing py and po, at 40° to CA.		1% po, 1% py in blebs up to 3 mm.	5833	101.31-101.51	0.20	1	0.3	273	23	
	107.89 - 108.01 m. Grnish-white med-grained qtz-biotite dyke. Biotite is alt'd to chlorite. Dyke is at 70° to CA. Contains 2% euhedral tourmaline crystals up to 4 mm long. Py is found within tourmaline clusters. Not as alt'd as diorite.	chlorite	1% py, 2% tourmaline.	5834	107.89-108.01	0.12	1	0.1	74	25	

MPH CONSULTING LIMITED Project: Contact Au Logged by: C. Naas Date: July 16, 1988 Hole No.: CA88-14

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
36.74 - 133.20 (cont.)	109.21 - 112.88 m. Gy fine-grained andesitic ash tuff. Qtz and carb stringers are common throughout. Several 10-15 cm wide grnish-white qtz-biotite dykes cut tuff at 30° to 70° to CA.										
	117.50 - 120.70 m. Gy fine-grained andesite ash tuff. Qtz and carb stringers common.										
133.20	EOH										

MPH CONSULTING LIMITED
Project: Contact Au
Project No.: V248-3
Client: Parallax Development Corp.

Length (m): 99.67
Dip : -50°
Azimuth : 055°
Core Size : NQ
Casing : 12.19 m

Grid: Main Grid L3+90N, 1+45W
Collar elev.: 110 m
Remarks: Sample nos. 5843 to 5847

Drilled: June 29 - July 1
Contractor : Burwash
Logged by : G. Yip
Date logged: July 18/88

Objective: See drill hole CA88-15 summary in text of report.

Hole No.: CA88-15
Hole Survey Type: None
Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 12.19	Casing										
12.19 - 21.17	Med to lt gy and white, med and fine-grained migmatite. Localized epidote alt'n. Stringers of carb and qtz at random orientations and areas of intense silicification where original textures are not visible.										
21.17 - 23.47	Med gy, feldspar porphry. White anhedral feldspar phenocrysts (1-4 mm) in a fine-grained matrix. Locally, feldpsars have alt'd to epidote.										
23.47 - 32.56	Lt gy migmatite (see 12.19-21.17 m). Locally intensely silicified.										
32.56 - 56.71	Dk grn, fine-grained diorite cut by carb, qtz and epidote filled stringers. Locally very intensely alt'd with no original textures visible.		Contact @ 39° to CA.								
	34.06 - 34.20 m. Med grn intensely alt'd diorite. No original textures visible.	epidote	Alt'n @ 21° to CA. Tr dis py.	5843	34.06-34.20	0.16	1	0.5	107	5	
	56.32 - 56.71 m. Lt grn to off-white, intensely alt'd diorite(?). No original textures visible.	qtz	Tr dis py.	5844	56.32-56.71	0.39	2	0.1	2	2	

MPH CONSULTING LIMITED Project: Contact Au Logged by: G. Yip Date: July 18, 1988 Hole No.: CA88-15

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
56.71 - 99.67	Lt to med gy, med-grained migmatite. Locally intensely epidotized and silicified. No original textures visible. Cut by qtz ± carb ± epidote stringers.		Contact @ 67° to CA.								
	67.92 - 68.28 m. Lt gy, very intensely alt'd migmatite(?). No original structures visible.	qtz	Tr dis py.	5845	67.92-68.28	0.36	1	0.1	3	5	
	77.92 - 78.33 m. Med to dk gy, med to fine-grained migmatite. Patchy alt'n.	epidote	Tr to 1% dis py.	5846	77.92-78.33	0.41	3	0.2	146	5	
	95.36 - 95.96 m. Med gy, fine-grained alt'd migmatite.	qtz	Tr to 2% dis py.	5847	95.36-95.96	0.60	1	0.1	2	17	
99.67	EOH										

MPH CONSULTING LIMITED
Project: Contact Au
Project No.: V248-3
Client: Parallax Development Corp.

Length (m): 124.05
Dip : -50°
Azimuth : 100°
Core Size : NQ
Casing : 1.52 m

Grid: Main Grid L0+15S, 1+30W
Collar elev.: 225 m
Remarks: Sample nos. 5583 to 5697

Drilled: June 22-23/88
Contractor : Burwash
Logged by : C. Naas
Date logged: June 22/88

Objective: See drill hole CA88-16 summary in text of report.

Hole No.: CA88-16
Hole Survey Type: None
Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 1.52	Casing										
1.52 - 34.51	Volcaniclastic rocks. Rock varies from andesitic ash tuff up to several metres thick, to crystal and crystal lithic tuff up to 2 m thick. The ash tuff is more dominant. Contacts between crystal and crystal lithic units are gradational. Contacts between crystal, crystal lithic tuffs and the ash tuffs are both gradational and sharp. Sequences are both fining up and down. The crystal tuffs are composed of feldspar crystals ranging from <0.5-2 mm and comprise from 10-30% of the rock. All units are gy to grnish gy with local alt'n of epidote, qtz and carbonate. Epidote-qtz-carbonate stringers are common.										
	3.91 - 4.31 m. Andesite ash tuff with 10-20% qtz-carbonate-epidote stringers of up to 3 mm wide. Micro faults in various directions.	qtz, carb and epidote	1% py in stringers. Sample 5904 for whole rock.	5583	3.91-4.31	0.40	2	2.5	920	61	
	4.54 - 4.83 m. Contains a 4 cm wide qtz vein @ 50° to CA.		Tr py.	5584	4.54-4.83	0.29	1	0.2	42	5	
	5.18 - 5.38 m. Same as interval 3.91 - 4.31 m.			5585	5.18-5.38	0.20	1	0.8	245	21	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
1.52 - 34.51 (cont.)	5.63 - 5.87 m. Same as interval 3.91 - 4.31 m.			5586	5.63-5.87	0.24	1	1.2	431	28	
	6.46 - 7.34 m. Crystal lithic tuff with 10-20% qtz-carb-epidote stringers up to 4mm.		Sample 5905 for whole rock analysis.	5587	6.46-6.76	0.30	2	0.1	6	3	
				5588	6.76-7.01	0.25	2	0.1	21	3	
				5589	7.01-7.34	0.33	1	0.2	74	3	
	7.80 - 8.06 m. Same as interval 6.46 - 7.34 m.			5590	7.80-8.06	0.26	1	0.4	115	7	
	8.73 - 8.89 m. Andesite ash tuff. Slight foliation @ 50° to CA. Rare qtz-carb-epidote stringers.		1% py found within foliation fabric.		8.73-8.89	0.16	(not analyzed)				
	9.12 - 9.22 m. Contact between andesite ash tuff with crystal lithic tuff. Contact is sharp.	moderate alt'n of feldspars to epidote. Rare qtz-epidote stringers <0.5 mm wide			9.12-9.22	0.10	(not analyzed; collected for possible thin section and petrographic analysis)				
	9.42 - 9.55 m. Crystal lithic tuff.	moderate epidote			9.42-9.55	0.13	(not analyzed)				
	9.77 - 10.07 m. Andesite ash tuff. Moderate foliation of 40° to CA defined by qtz ± epidote blebs.	qtz and epidote	1% py associated with qtz.	5591	9.77-10.07	0.30	2	0.3	69	18	
	10.07 - 11.21 m. Andesite ash tuff, with few qtz-carb-epidote stringers up to 5 mm wide.	qtz, carb and epidote	1% py in stringers.	5592	10.07-10.36	0.43	1	0.1	28	15	
				5593	10.36-10.67	0.31	1	0.1	37	14	
				5594	10.67-10.89	0.22	1	0.4	125	13	
				5595	10.89-11.21	0.33	2	0.4	108	17	
	12.00 - 20.15 m. Fine-grained crystal tuff (<1 mm) to ash tuff. Slight foliation defined by feldspar crystals @ 40° to CA. Qtz-carb-epidote stringers range from <0.5-4 mm wide.	qtz, carb and epidote	1-3% py in stringers.	5596	12.00-12.45	0.45	1	0.2	35	14	
				5597	12.45-12.79	0.34	1	0.1	47	5	
				5598	12.79-13.07	0.28	1	0.4	91	14	
				5599	13.28-13.65	0.37	2	0.3	66	33	
				5600	13.65-13.96	0.31	1	0.4	98	41	
				5601	13.96-14.46	0.50	1	0.2	48	4	
				5602	14.46-15.00	0.34	1	0.1	26	5	
				5603	15.00-15.64	0.64	1	0.1	12	12	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
1.52 - 34.51 (cont.)				5604	16.22-16.55	0.33	1	0.2	34	8	
				5605	16.95-17.35	0.40	2	0.3	49	22	
				5606	17.54-18.29	0.65	2	0.1	16	10	
				5607	18.72-19.25	0.53	1	0.4	37	38	
				5608	19.25-19.52	0.27	1	0.3	18	7	
				5609	19.52-19.65	0.13	1	0.3	7	2	
				5610	19.81-20.15	0.34	1	7.0	18	91	
	20.15 - 21.40 m. Extremely siliceous and carbonatized, pale grn ash tuff(?).	qtz, carb and epidote	1% py.	5611	20.15-20.66	0.51	1	0.2	11	20	
				5612	20.66-20.86	0.20	1	0.1	21	7	
				5613	20.86-21.00	0.14	1	0.1	34	7	
				5614	21.00-21.40	0.40	1	0.1	12	7	
	21.40 - 21.86 m. Same as interval 12.00 - 20.15 m.			5615	21.40-21.68	0.28	2	0.1	7	2	
				5616	21.68-21.86	0.18	1	0.1	23	3	
	21.86 - 34.51 m. Crystal, crystal lithic and ash tuff which has been locally intensely sheared. *Feldspar crystals, in sheared areas, are elongated and define foliation of 40° to CA. Qtz-carb-epidote stringers are common.	moderate alt'n to epidote with qtz and carb	Tr to 2% py in stringers.	5617	21.86-22.32	0.46	2	0.7	112	53	
				5618	22.32-22.57	0.25	1	0.5	61	47	
				5619	22.57-22.88	0.31	1	0.2	51	19	
				5620	22.88-23.21	0.33	1	0.9	125	74	
				5621	23.21-23.47	0.26	2	0.6	90	62	
				5622	23.73-24.68	0.95	1	0.3	86	35	
	*original textured in sheared areas are nonexistent.			5623	25.08-25.36	0.28	3	0.2	55	24	
				5624	25.71-26.16	0.45	2	0.2	24	29	
				5625	27.61-27.94	0.33	1	0.3	92	6	
				5626	32.61-32.76	0.15	1	0.1	11	2	
				5627	33.73-34.09	0.36	1	0.5	186	59	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
34.51-83.21	Skarn. Rock is intensely alt'd with products of qtz, carb, epidote, chlorite and diopside. Original textures are non-existent. The skarn is mostly alt'd limestone and interbedded(?) limestone and volcanics(?). The top part of the skarn extends into the volcanic unit of crystal tuffs and at the bottom into the diorite. These extensions are not more than a couple of metres. The limestone is purplish-white, recrystallized with no visible fossils. Within this limestone unit are xenoliths of cherty(?) volcanics, not more than 20 cm in size. The limy volcanics are defined by the presence of diopside. The diopside occurs both as massive units of up to 2 m thick or as banded layers with chlorite, carb, qtz and epidote(?). These bands range in thickness from <1-4 cm. Sulphides appear to be primary, since they are consistently parallel to foliation in the banded areas. In the areas of massive diopside, asp is common, and sulphides tend to be occurring more as blebs of up to 1 cm wide. Sulphides do not occur in areas of massive limestone.										
	34.51 - 35.80 m. Strongly alt'd pale grn crystal tuff.	qtz, carb, epidote and diopside(?)	Tr to 1% py, tr po.	5628	34.51-34.95	0.44	1	0.1	2	223	
				5629	34.95-35.80	0.85	1	0.2	9	204	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
34.51 - 82.21 (cont.)	35.80 - 48.87 m. Purplish-white limestone with layers and/or xenoliths of pale grn to gy cherty volcanics(?) of <20 cm thick.	volcanics are alt'd to diopside with qtz-carb, chlorite and diopside	Tr to 1% py in diopside layers.	5630	35.80-36.52	0.72	1	1.1	77	97	
	36.70 - 36.97 m. Massive limestone with mnr diopside layers.	diopside and carb	Tr py.	5631	36.70-36.97	0.27	7	2.8	526	68	
	37.81 - 38.36 m. Same as interval 36.70 - 36.97 m.			5632	37.81-38.36	0.55	3	0.7	9	61	
	38.80 - 39.55 m. Massive diopside with mnr limestone.	diopside, carb, qtz and chlorite	Tr to 1% py.	5633	38.80-39.55	0.75	1	0.3	26	642	
	39.81 - 41.08 m. Same as interval 38.80 - 39.55 m.			5634	39.81-40.81	1.00	1	6.5	481	544	1467 Zn
				5635	40.81-41.08	0.27	1	2.6	138	556	522 Zn
	42.61 - 48.87 m. Same as interval 36.70 - 36.97 m.			5636	42.61-42.91	0.30	1	0.4	22	7	
				5637	42.91-44.40	0.49	2	0.3	13	5	
				5638	45.72-47.85	2.13	1	0.4	14	27	
				5639	48.02-48.87	0.85	1	1.7	134	132	
	48.87 - 54.00 m. Massive diopside with qtz and carb. Original textures are non-existent. Mnr amounts of purplish-white limestone and up to 10% garnet(?) in diopside areas.	diopside, qtz, carb and garnet(?)	Tr to 3% asp, tr to 1% po, py.	5640	48.87-49.49	0.62	1	0.9	69	64	
				5641	49.49-49.97	0.48	21	4.1	815	412	
				5642	49.97-50.27	0.30	623	3.4	12	13324	332 Co
				5643	50.27-50.48	0.21	1272	3.7	6	25638	415 Co
				5644	50.48-51.20	0.72	45	0.1	1	1366	
				5645	51.20-51.91	0.71	14	0.1	3	171	
				5646	51.91-54.00	0.09	8	0.2	1	536	
	54.00 - 76.31 m. Alt'd pale grn to gy, limy volcanics(?). Banded diopside, qtz, carb and epidote(?) occur for the most part with bands ranging from <1-4 cm. Bands are @ 45° to CA. Locally, massive diopside, qtz and carb occur. Micro faults in various directions are common.	diopside, qtz, carb and epidote	Mineralization is parallel to bands but also occurs as small blebs (<1 cm) and in diopside, qtz and carbonate stringers and frct fillings.								

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
34.51 - 83.21 (cont.)	54.00 - 56.85 m. Banded diopside, qtz and carb.		Tr py.	5647	54.00-55.34	0.34	5	0.3	19	199	
			"	5648	55.34-56.17	0.83	1	0.1	6	374	
			"	5649	56.17-56.85	0.68	3	0.1	1	363	
	56.85 - 59.11 m. Massive diopside, little or no banding.		Tr py.	5650	56.85-57.55	0.70	1	0.2	1	299	
			"	5651	57.55-57.93	0.38	2	0.1	10	267	
			"	5652	57.93-59.11	0.18	6	0.3	21	850	
	59.11 - 59.36 m. Banded diopside, qtz and carb.		Tr py.	5653	59.11-59.36	0.25	3	0.1	15	454	
	59.36 - 61.75 m. Massive diopside, little or no banding.		Tr py.	5654	59.36-60.22	0.86	1	0.1	13	55	
			"	5655	60.22-60.79	0.57	10	0.1	10	451	
			"	5656	60.79-61.75	0.96	1	0.1	20	137	
	61.75 - 65.02 m. Banded diopside, qtz and carb.		Tr py.	5657	61.75-62.95	1.20	2	0.7	161	509	
			"	5658	62.95-64.07	1.12	1	1.0	127	962	
			"	5659	64.07-65.02	0.95	2	1.3	255	122	
	65.02 - 66.48 m. Diopside, qtz and carb without texture.		Tr py.	5660	65.02-65.24	0.22	1	0.1	7	857	
			"	5661	65.24-65.70	0.46	1	0.2	6	101	
			"	5662	65.70-66.48	0.78	1	0.4	62	128	
	66.48 - 76.31 m. Banded diopside, qtz and carb.		Tr py.	5663	66.48-67.46	0.98	1	0.3	66	107	
			"	5664	67.46-68.24	0.78	1	0.5	56	45	
			"	5665	68.24-69.41	1.17	1	0.3	61	83	
			"	5666	69.41-70.62	1.21	2	1.4	359	61	
			2% py.	5667	70.62-71.62	1.00	1	0.6	74	60	
			2% py.	5668	71.62-72.91	1.29	1	0.4	62	12	
	72.91 - 73.70 m. Mottled texture.		5% py.	5669	72.91-73.70	0.79	1	1.0	316	209	
			2% py.	5670	73.70-74.52	0.82	1	0.5	78	9	
			Thin section.	5671	74.52-75.59	1.07	1	0.8	101	13	
			2% py.	5672	75.59-76.31	0.72	1	1.2	232	26	
	76.31 - 79.76 m. Massive qtz flooding. Original textures are non-existent. Garnet throughout. Locally, areas are diopside + qtz + carb banded. Irregular veining of purple qtz (amethyst[?]).	qtz, carb and diopside	Tr to 1% py.								

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
34.51 - 83.21 (cont.)	76.31 - 76.88 m. Extremely siliceous with 5% garnet.	qtz-garnet	Tr py.	5673	76.31-76.88	0.57	1	0.3	78	62	
	76.88 - 77.23 m. Extremely siliceous with 15% garnet.	qtz-garnet	Tr py.	5674	76.88-77.23	0.35	1	0.6	257	24	
	77.23 - 77.60 m. Same as interval 54.00 - 56.85 m, with irregular purple qtz veins up to 1 cm wide.	qtz-carb-diopside	2% py in qtz and frct.	5675	77.23-77.60	0.37	1	0.7	156	33	
	77.60 - 79.76 m. Extremely siliceous.	qtz-carb	1% py.	5676	77.60-78.28	0.68	4	0.6	132	83	
			1% py.	5677	78.28-79.76	1.48	1	0.1	45	10	645 Zn
	79.76 - 82.51 m. Alt'd pale grn to gy, limy volcanics(?). Banded diopside, carb and qtz layers @ 75° to CA. Bands range from <1-4 cm. Irregular purple qtz veins range from 1-2 cm. Rare banded purple qtz.	diopside, qtz, carb and epidote(?)	1-4% dis py, po, parallel to bands and as frct fillings and in blebs up to 2 cm wide.								
	79.76 - 80.16 m. Banded unit.		1% py.	5678	79.76-80.16	0.40	5	0.5	169	24	
	80.16 - 81.86 m. Contains a 1 cm wide frct in unit.		4% py, po in frct.	5679	80.16-81.86	1.70	54	0.4	103	286	
	81.86 - 81.73 m. Same as interval 79.76 - 80.16 m.		2% py dis & in frct.	5680	81.06-81.73	0.67	10	0.3	81	31	
	81.73 - 82.26 m. Same as interval 79.76 - 80.16 m.		1% py dis & in frct.	5681	81.73-82.26	0.53					
	82.26 - 82.51 m. Banded unit with 10% purple qtz.		2% dis py & in qtz.	5682	82.26-82.51	0.25	12	0.3	48	11	
	82.51 - 83.21 m. Extremely alt'd, grn, fine-grained diorite. Mottled texture with purple qtz, carb and epidote.	diopside, qtz, carb, chlorite and epidote	1% po, 2% py, dis and as frct filling.	5683	82.51-83.21	0.70	4	0.3	75	8	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
83.21-124.05	Med-grained, gry diorite. Diorite is locally migmatitic in texture. Microfaults in various directions are common. Qtz-epidote stringers up to 2 mm wide throughout. Intense qtz-epidote alt'n is rare.										
	83.21 - 84.76 m. Slightly mottled, textured fine- to med-grained diorite. Locally alt'd to epidote Mnr qtz-epidote stringers.	qtz, carb, chlorite and epidote	1% py, po dis.	5684	83.21-83.66	0.45	2	0.2	45	15	
				5685	83.66-84.00	0.34	28	0.2	83	76	
				5686	84.00-84.43	0.43	1	0.3	55	19	
				5687	84.43-84.76	0.33	13	0.6	123	79	
	86.41 - 86.87 m. Same as interval 83.21 - 84.76 m.			5688	86.41-86.87	0.46	22	0.4	60	257	
	88.68 - 88.86 m. Med-grained, gy diorite with areas of pale grn alt'n to epidote.	qtz, carb, chlorite and epidote	Tr py.	5689	88.68-88.86	0.18	3	0.2	14	30	
	89.02 - 89.24 m. Contains a 1 cm wide qtz vein @ 30° to CA.			5690	89.02-89.24	0.22	101	1.0	180	319	149 Co
	91.26 - 91.46 m. Contains a 1 cm wide qtz vein @ 40° to CA.			5691	91.26-91.46	0.20	18	0.3	76	9	
				5692	96.62-96.82	0.20	35	0.5	122	21	
				5693	102.08-102.20	0.12	2	0.4	108	31	
				5694	103.08-103.28	0.20	10	0.2	38	19	945 Zn
				5695	107.11-108.39	1.28	4	0.6	224	13	
				5696	109.85-110.13	0.28	5	0.1	44	27	
				5697	111.30-111.56	0.26	1	0.5	185	15	
124.05	EOH										

MPH CONSULTING LIMITED
Project: Contact Au
Project No.: V248-3
Client: Parallax Development Corp.

Length (m): 133.20
Dip : -70°
Azimuth : 100°
Core Size : NQ
Casing : 2.13 m

Grid: Main Grid L0+15S, 1+30W
Collar elev.: 225 m
Remarks: Sample nos. 5698 to 5765

Drilled: June 5-6/88
Contractor : Burwash
Logged by : C. Naas
Date logged: July 19/88

Objective: See drill hole CA88-17 summary in text of report.

Hole No.: CA88-17
Hole Survey Type: None
Depth Dip Azim

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 2.13	Casing										
2.13 - 26.50	Volcaniclastic rocks. Rock varies from andesitic ash tuff (to several metres in thickness) to crystal and crystal lithic tuff (up to 2 m thick). The ash tuff is predominant. Contacts between crystal and crystal lithic units are gradational. Contacts between crystal, crystal lithic and the ash tuffs are both gradational and sharp. Sequences are both fining up and down. The crystal tuffs are composed of feldspar crystals ranging from $\leq$2 mm and comprise from 10-30% of the rock. All units are gy to grnish gy with local alt'n to epidote, qtz and carb, where the rock becomes pale grn in colour. Epidote, qtz and carb stringers are common.										
	5.28 - 5.50 m. Grnish gy epidote alt'd crystal lithic tuff.		1 cm wide py vein @ 50° to CA.	5698	5.28-5.50	0.22	1	0.5	130	14	
	8.23 - 8.37 m. Contains a 9 cm wide qtz vein @ 55° to CA.		1% py.	5699	8.23-8.37	0.14	2	0.4	50	34	
	14.12 - 14.57 m. Ash tuff with qtz epidote stringers.		1% py in stringers.	5700	14.12-14.57	0.45	1	0.1	13	4	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
2.13 - 26.50 (cont.)	20.49 - 21.10 m. Ash tuff with qtz and qtz-epidote stringers @ 30° to CA.		1% py in qtz.	5701	20.49-21.10	0.61	1	0.1	40	31	
	26.00 - 26.50 m. Ash tuff with qtz and qtz-epidote stringers @ 30° to CA and qtz blebs up to 4 mm wide.		1% py in qtz.	5702	26.00-26.50	0.50	4	0.1	15	7	
26.50 - 81.97	Skarn. Rock is extrememly alt'd with alt'n products of qtz, carb, epidote (rare), chlorite and diopside. Original textures are non-existant. The skarn is mostly alt'd limestone and interbedded(?) limestone with volcanics(?). The top part of the skarn extends into the volcanic unit of crystal tuffs and at the bottom into diorite. These extensions are not more than a couple of metres. The limestone is purplish-white, recrystallized, with no visible fossils. Within the limestone unit are xenoliths of cherty(?) volcanics, not more than 20 cm in size. The limy volcanics are defined by the presence of diopside. The diopside occurs both as massive units of up to 2 m thick or as banded layers with chlorite, carb, qtz and epidote(?). These layers range in thickness from <1 to 4 cm. Sulphides appear to be primary since they are consistantly parallel to foliation in the banded areas. In areas of massive diopside, asp is common, and sulphides tend to occur as blebs of up to 1 cm wide. Sulphides do not occur in areas of massive limestone.	qtz, carb, diopside, chlorite and epidote(?)									

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
26.50 - 81.97 (cont.)	29.59 - 30.50 m. Strongly alt'd pale grn crystal tuff.	qtz, carb, chlorite and epidote	1% py.	5704	29.59-29.97	0.38	1	0.1	2	8	
				5705	29.97-30.50	0.53	7	0.1	34	534	
	30.50 - 43.09 m. Purplish-white limestone with layers and/or xenoliths of pale grn to gy cherty volcanics(?) of <20 cm thick.		Tr py.	5706	30.50-31.73	1.23	1	0.1	35	5	
			Tr to 1% py.	5707	31.73-32.58	0.85	1	0.1	24	9	
			Tr py.	5708	32.58-33.65	1.07	1	0.1	8	4	
			Tr py.	5709	33.65-34.35	0.70	2	0.1	7	5	
			Tr py.	5710	34.35-35.70	1.35	1	0.1	17	15	
			Tr py.	5711	39.28-40.42	1.14	1	0.1	13	7	
			Tr po, 1% py.	5712	40.42-41.13	0.71	1	0.3	69	15	1001 Zn
			Tr py.	5713	41.13-41.76	0.63	1	0.8	197	15	326 Zn
			Tr py.	5714	41.76-43.09	0.33	1	0.1	22	4	
	43.09 - 47.54 m. Massive diopside with qtz and carb. Original textures are non-existant. Mnr amounts of purplish-white limestone. Mnr bandings of diopside, carb, chlorite and qtz.	diopside, qtz and carb									
	43.09 - 44.72 m. Banded unit.			5715	43.09-44.12	1.03	2	0.1	16	164	
				5716	44.12-44.72	0.60	1	0.1	4	103	
	44.72 - 47.54 m. Massive diopside.	1% garnet(?)	1% py, po, asp.	5717	44.72-45.62	0.90	28	0.1	2	1400	
				5718	45.62-46.57	0.95	1	1.3	226	1000	313 Zn
				5719	46.57-47.54	0.97	1	0.1	5	66	
	47.54 - 53.31 m. Alt'd pale grn to gy, limy volcanics(?). Banded diopside, qtz, carb and epidote(?) occurs for the most part with bands ranging from ≤4 cm. Bands are @ 50-80° to CA. Locally, massive diopside, qtz and carb occurs.	diopside, qtz, carb, epidote and garnet	Mineralization is parallel to bands but also occurs as small blebs (<1 cm) and in diopside, qtz, carb stringers and in frcts.								

MPH

MPH CONSULTING LIMITED Project: Contact Au Logged by: C. Naas Date: July 19, 1988 Hole No.: CA88-17

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
26.50 - 81.97 (cont.)	47.54 - 48.17 m. Mottled texture.		1% py, 1% po.	5720	47.54-48.17	0.63	1	0.1	5	25	
	48.17 - 49.42 m. Banded unit.	5% garnet in bands	1% py.	5721	48.17-49.42	1.25	1	0.1	12	92	
	49.42 - 50.55 m. Massive diopside.	qtz, diopside and carb	1% py.	5722	49.42-50.55	1.13	3	0.1	4	2802	
	50.55 - 51.63 m. Banded unit.			5723	50.55-51.63	1.08	1	0.1	9	630	
	51.63 - 52.25 m. Massive diopside.			5724	51.63-52.25	0.62	2	2.7	712	825	1321 Zn
	52.25 - 53.31 m. Banded unit.			5725	52.25-53.31	1.06	1	0.6	183	35	597 Zn
	53.31 - 55.67 m. Massive qtz and carb flooding. Original textures are non-existant. Contains 40% qtz and carb.	qtz, carb and diopside	2-3% py and po.	5726	53.31-54.15	0.84	1	1.8	398	86	363 Zn
			2-3% py and po.	5727	54.15-54.69	0.54	1	1.1	207	114	719 Zn
			2-3% py and po.	5728	54.69-55.67	0.98	2	0.9	195	111	341 Zn
	55.67 - 57.00 m. Gy to pale grn alt'd crystal lithic tuff. Locally strongly alt'd to massive diopside, qtz and carb. Strongly foliated @ 70° to CA.	qtz, carb, chlorite, diopside and epidote	1-3% py, po in foliation and in epidote/qtz/carb /diopside stringers.	5729	55.67-57.00	0.37	5	0.4	107	653	
	57.00 - 81.97 m. Alt'd pale grn to gy limy volcanics(?). Banded diopside, carb and qtz layers @ 50-70° to CA. Bands range from 1-2 cm. Rare banded purple qtz. Sulphides found within bands, in qtz/carb/diopside stringers and as blebs up to 1 cm wide. Rare frct filling.	diopside, qtz, carb and epidote(?)	Tr py.	5730	57.00-58.05	1.05	1	0.5	89	22	
			1% py, po.	5731	58.05-58.95	0.90	1	0.4	78	14	
			1-2% py, po.	5732	58.95-59.45	0.50	1	1.1	198	31	
			Tr py.	5733	59.45-60.22	0.77	3	0.9	228	429	
			1-2% py, po, tr asp.	5734	60.22-61.15	0.93	1	0.3	51	113	
			1-2% py, po.	5735	61.15-61.55	0.40	2	0.4	88	41	
			Tr py.	5736	61.55-62.63	1.08	1	0.1	46	59	
			1% py.	5737	62.63-63.47	0.84	14	0.1	11	1870	
	63.47 - 63.77 m. Massive diopside.		Tr py, 1% asp.	5738	63.47-63.77	0.30	45	0.1	3	4242	
			1-3% asp, 1% py, po.	5739	63.77-64.23	0.46	234	1.8	524	37424	266 Co
			1% py, po.	5740	64.23-65.23	1.00	8	0.2	63	2031	
			1% py, po.	5741	65.23-65.71	0.48	17	0.8	243	1190	
			Tr py.	5742	65.71-66.79	1.08	1	0.2	65	698	
			Tr to 1% py, po.	5743	66.79-67.81	1.02	1	0.1	11	135	
			Tr to 1% py, tr po.	5744	67.81-69.19	1.38	1	0.1	45	152	
			Tr py.	5745	69.19-70.19	1.00	1	0.4	111	77	
			1-2% py, po.	5746	70.19-71.23	1.04	5	0.5	147	299	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
26.50 - 81.97 (cont.)			1-3% py, tr po.	5747	71.23-72.23	1.00	1	0.3	177	114	
			1-2% py, tr po.	5748	72.23-73.38	1.15	1	0.4	100	35	
			1-2% py, tr po.	5749	73.38-74.18	0.80	1	0.3	80	12	
	74.18 - 75.29 m. Contains 5% purple qtz.		Tr to 1% py.	5750	74.18-75.29	1.11	1	0.1	46	25	
			1-3% py, tr po.	5751	75.29-76.37	1.08	1	0.1	85	25	
			2-3% py, tr po.	5752	76.37-76.95	0.58	3	0.6	174	49	
			1-2% py, tr po.	5753	76.95-77.68	0.73	1	0.1	38	14	
			2-3% py, tr po.	5754	77.68-78.40	0.72	1	0.5	112	19	
			2-3% py, tr po.	5755	78.40-79.00	0.60	1	0.3	100	38	
			2-3% py, tr po.	5756	79.00-79.78	0.78	1	0.2	146	14	
			2-3% py, tr po.	5757	79.78-80.45	0.67	2	0.2	11	6	
	80.45 - 80.88 m. Contains 1% purple qtz.		2-3% py, tr po.	5758	80.45-80.81	0.36	1	0.2	79	46	
			4-5% py, po.	5759	80.81-81.64	0.83	53	0.8	212	1778	546 Zn
			1-2% py, po.	5760	81.64-81.97	0.33	1	0.1	11	156	
81.97 - 133.20	**Medium-grained gy diorite. Diorite is locally migmatitic in texture. Microfaults in various directions throughout. Qtz-epidote stringers up to 2 mm wide are common. Intense qtz-epidote alt'n is rare.**										
	81.97 - 83.80 m. Extremely alt'd fine-grained, pale grn diorite. Original textures are non-existant. Mottled texture defined by purple qtz, carb, diopside and epidote. Qtz, epidote, diopside stringers are common.	diopside, qtz, carb, chlorite and epidote	Tr to 1% py.	5761	81.97-82.61	0.64	1	0.1	49	49	
				5762	82.61-83.80	1.19	1	0.2	60	31	
	85.42 - 85.72 m. Qtz-epidote alt'd pale grn diorite.	qtz, carb and epidote	Tr py.	5763	85.42-85.72	0.30	1	0.1	33	19	
	98.32 - 99.06 m. Same as interval 85.42 - 85.72 m.			5764	98.32-99.06	0.74	1	0.1	45	19	
	114.30 - 115.05 m. Same as interval 85.42 - 85.72 m.			5765	114.30-115.05	0.75	1	0.2	96	28	
133.20	EOH										

MPH CONSULTING LIMITED	Length (m): 114.91	Grid: Main Grid	Drilled: June 6-8/88	Objective: See drill	Hole No.: CA88-18
Project: Contact Au	Dip : -90°	L0+15S, 1+30W	Contractor : Burwash	hole CA88-18 summary	Hole Survey Type: None
Project No.: V248-3	Azimuth : 100°	Collar elev.: 225 m	Logged by : C. Naas	in text of report.	Depth Dip Azim
Client: Parallax Development Corp.	Core Size : NQ	Remarks: Sample nos.	Date logged: July 20/88		
	Casing : 1.52 m	5766 to 5826			

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
0 - 1.52	Casing										
1.52 - 27.25	Volcaniclastic rocks. Rock varies from andesitic ash tuff (to several metres thick) to crystal and crystal lithic tuff (up to 2 m thick). The ash tuff is predominant. Contacts between crystal and crystal lithic units are gradational. Contacts between crystal, crystal lithic tuffs and the ash tuffs are both gradational and sharp. Sequences are both fining up and down. The crystal tuffs are composed of feldspar crystals ranging from ≤2 mm and comprise from 10-30% of the rock. All units are gy to grnish gy with local alt'n of epidote, qtz and carb. Epidote-qtz-carb stringers are common.										
27.25 - 82.18	Skarn. Rock is intensely alt'd with alt'n products of qtz, carb, epidote (rare), chlorite and diopside. Original textures are non-existent. The skarn is mostly alt'd limestone and interbedded(?) limestone with volcanics(?). The top part of the skarn extends into the volcanic unit of crystal tuffs and at the bottom into the diorite.										

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
27.25 - 82.18 (cont.)	These extensions are not more than a couple of metres. The limestone is purplish-white, recrystallized with no visible fossils. Within this limestone unit are xenoliths of cherty(?) volcanics, not more than 20 cm in size. The limy volcanics are defined by the presence of diopside. The diopside occurs both as massive units up to 2 m thick or as banded layers with chlorite, carb, qtz and epidote(?). These bands range in thickness from <1 to 4 cm. Sulphides appear to be primary, since they are consistantly parallel to foliation in the banded areas. In the areas of massive diopside, asp is common, and sulphides tend to occur as blebs up to 1 cm wide. Sulphides do not occur in areas of massive limestone.										
	27.25 - 41.89 m. Massive diopside with qtz and carb. Original textures are non-existant. Massive limestone with cherty volcanic xenoliths.	diopside, qtz and carb									
	27.25 - 29.35 m. Massive pale grn diopside.		1% py, po, asp.	5766	27.25-27.90	0.65	4	0.1	3	105	
			1-2% py, 2-3% po.	5767	27.90-28.99	1.09	59	0.3	18	296	732 Zn
			1% py, po.	5768	28.99-29.35	0.36	22	0.1	2	445	
	29.35 - 32.88 m. Massive purplish-white limestone, locally with diopside and rare banded diopside, qtz and carb.			5769	29.35-29.67	0.32	4	0.1	7	18	
			1% py in diopside.	5770	29.67-30.22	0.55	20	1.2	5	226	
				5771	30.22-31.07	0.85	1	0.2	11	28	
			Tr py in banded unit.	5772	31.07-31.38	0.31	1	0.4	30	29	621 Zn
				5773	31.38-32.53	1.15	1	0.1	38	4	
			Tr to 1% in diopside.	5774	32.53-32.88	0.35	3	0.1	13	267	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
27.25 - 82.18 (cont.)	33.03 - 34.66 m. Massive diopside unit.		Tr py.	5775	33.03-33.49	0.46	2	1.2	237	252	314 Zn
			Tr py.	5776	33.49-34.66	0.17	2	3.1	654	96	
	34.66 - 41.82 m. Massive limestone.										
	41.89 - 57.00 m. Massive diopside with faint banded layers. Banding is very faint compared to other areas of banded units.		Tr py.	5778	41.89-42.79	0.90	14	0.2	76	2505	
			Tr to 1% py.	5779	42.79-43.81	1.02	1	0.9	62	558	
			1% py, po.	5780	43.81-44.59	0.78	1	2.2	251	658	1025 Zn
			Tr py.	5781	44.81-46.24	0.43	1	1.0	85	228	389 Zn
			Tr py.	5782	46.24-47.11	0.87	1	0.1	2	233	
			Tr py.	5783	47.11-48.09	0.98	4	0.1	23	694	
			Tr to 1% py.	5784	48.09-49.30	1.21	6	0.1	42	462	
			Tr py.	5785	49.30-50.24	0.94	1	0.1	10	70	
			Tr py.	5786	50.24-50.77	0.53	1	0.1	2	21	
			Tr to 1% py.	5787	50.77-51.95	1.18	8	0.2	17	625	
			1% py. 2-3% asp.	5788	51.95-52.47	0.52	99	1.5	131	15007	234 Co
			1% py, 1-2% asp.	5789	52.47-53.49	1.02	3	0.3	59	333	
	53.49 - 54.41 m. Mottled texture with diopside and graphite.		30% graphite.	5790	53.49-54.41	0.92	3	0.2	9	449	
			Tr to 1% py, tr to 1% asp.	5791	54.41-54.91	0.50	1	0.2	4	141	
			Tr to 1% py, asp.	5792	54.91-55.86	0.95	3	0.1	2	650	
			Tr to 1% py.	5793	56.20-57.00	0.80	15	0.4	57	75	
	57.00 - 65.38 m. Alt'd pale grn to gy limy volcanics(?). Banded diopside, carb and qtz layers @ 50-80° to CA. Bands range from <1-4 cm. Irregular purple qtz veins, as well as in bandings, ranging from 1-2 cm, are rare.			5794	57.00-58.02	1.02	3	0.2	46	223	
	58.02 - 58.35 m. Contains 3 cm wide qtz vein breccia @ 50° to CA.		4-5% py in qtz vn.	5795	58.02-58.35	0.33	3	0.1	10	20	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
27.25 - 82.18 (cont.)			1-2% py, tr asp.	5796	58.35-59.20	0.85	1	0.1	8	257	
			Tr to 1% py.	5797	59.20-59.87	0.67	1	0.1	20	107	
			Tr py.	5798	59.87-61.49	1.62	2	0.2	55	156	
			Tr to 1% py.	5799	61.49-62.73	1.24	1	0.9	239	431	
			Tr to 1% py.	5800	62.73-63.49	0.76	1	0.4	46	61	
			1% py, tr asp.	5801	63.49-64.21	0.72	1	1.3	397	38	
			1-2% py, po.	5802	64.21-64.72	0.51	1	0.3	65	218	
			1-2% py, po.	5803	64.72-65.38	0.66	10	0.7	226	928	
	65.38 - 74.49 m. Same as interval 41.89 - 57.00 m. Rocks are a little more bleached and brecciated.	increase in purple qtz and carb (up to 20%)	Tr py.	5804	65.38-66.62	1.24	1	0.2	8	663	
			Tr py.	5805	66.62-67.18	0.56	2	0.1	8	80	
			1% py.	5806	67.18-67.96	0.78	1	0.7	199	12	
			1-2% py, tr po.	5807	67.96-69.44	1.48	1	0.4	103	14	
			1% py, po.	5808	69.44-70.34	0.90	2	0.2	85	269	
			3 cm band of po @ 80° to CA.	5809	70.34-70.90	0.56	1	1.3	295	149	
			Tr py, po.	5810	70.90-71.75	0.85	1	0.1	19	223	
			5% po, 1% py.	5811	71.75-72.23	0.48	1	0.6	150	148	
			Tr to 1% py, po.	5812	72.23-72.91	0.68	1	0.7	172	13	
			Tr to 1% py, po.	5813	72.91-73.84	0.93	1	1.6	407	283	
			Tr to 1% py, po.	5814	73.84-74.49	0.65	8	7.4	2103	84	
	74.49 - 80.35 m. Same as interval 65.38 - 74.49 m, but greater amounts of carb (iron(?)). Minor amounts of garnet with bandings. Less purple qtz.	30-40% carb, 3% garnet	2 cm po vn @ 85° to CA.	5815	74.49-75.29	0.80	1	5.3	1347	37	
			5-8% po.	5816	75.29-76.03	0.74	1	3.0	660	12	
			2-3% po, py.	5817	76.03-76.83	0.80	1	1.8	457	29	
			3-4% py, po.	5818	76.83-77.42	0.59	3	0.3	101	19	
			4-5% py, po.	5819	77.42-78.20	0.78	1	0.5	104	18	
			4-5% py, po.	5820	78.20-78.78	0.58	1	0.4	107	31	
		10% garnet	4-5% py, po.	5821	78.78-79.62	0.84	4	0.2	57	84	
			4-5% py, po.	5822	79.62-80.35	0.73	1	0.1	44	16	
	80.35 - 82.18 m. Pale grn to gy banded unit similar to interval 57.00 - 65.38 m.		Tr to 1% py.	5823	80.35-80.96	0.61	2	0.1	22	17	
			Tr to 1% py.	5824	80.96-82.18	1.22	1	0.1	52	10	

From - To metres	Lithology	Alteration	Mineralization	Sample No.	Interval m	Length m	Au ppb	Ag ppm	Cu ppm	As ppm	Other ppm
82.18 - 114.99	Medium-grained gy diorite. Diorite is locally migmatitic in texture. Micro faults in various directions throughout. Qtz-epidote stringers up to 2 mm wide are common. Intense qtz-epidote alt'n is rare.										
	83.41 - 83.66 m. Qtz-epidote alt'd pale grn diorite.	qtz, carb and epidote		5825	83.41-83.66	0.25	4	0.4	139	153	
	103.77 - 103.94 m. Same as interval 83.41 - 83.66 m.			5826	103.77-103.94	0.17	12	0.1	7	18	
124.05	EOH										

Appendix VI

SUMMARY OF

PETROGRAPHY AND PETROGRAPHIC REPORTS

FROM THIN SECTIONS

SUMMARY OF PETROGRAPHY

CONTACT PROPERTY

Flores Island, B.C.
for

PARALLAX DEVELOPMENT CORPORATION

July 6, 1988
J.S. Getsinger, Ph.D.

SUMMARY OF PETROGRAPHY

CONTACT PROJECT
Flores Island, B.C.

Eleven rock samples from the Contact 1 claim on Flores Island were selected for petrographic analysis. Four are from grab samples on the Main Grid, whereas seven are from drill core. The drill core samples are representative of the rock types intersected by DDH's 88-1, 88-2, and 88-3. No significant geochemical results came from any sample in these 3 drillholes.

The samples were selected by V. Ryback-Hardy, P.Eng., in order to confirm field identification of rock types.

Most of the rock samples investigated in thin section represent some form of diorite. Many show alteration and contact effects. Many share a similar history of alteration.

Plagioclase is sericitized and saussuritized; mafic minerals are altered to chlorite and fine-grained iron-oxide(?) dust. Epidote alteration and quartz-epidote veins are common. Metamorphic or hydrothermal actinolitic hornblende is introduced along dark green veinlets in association with quartz and/or minor blue-green tourmaline.

Where diorite is in contact with epidote skarn or finer-grained metavolcanic rock, magnetite may be concentrated. Pyrite appears to be associated with silicification.

A brief summary of the highlights for each sample are given below, with more detailed descriptions for each in the following pages.

Sample V248-1400, collected on the Main Grid at 0+25S, 0+40W, is a silicified calc-silicate skarn with arsenopyrite (<1%). It is composed mainly of quartz, epidote, and diopside. The protolith could have been a calc-silicate rock, or it could be entirely the result of alteration. The high percentage of calcium suggests presence of some carbonate or calc-silicate rock nearby. The quartz appears to be from secondary silicification.

Sample V248-22743, from Main Grid, 5+00N, 2+05E, is a dioritic intrusive with a pod of magnetic hornfels consisting of actinolitic hornblende, biotite, plagioclase, epidote, and magnetite (10-15%). Contact-related magnetite-bearing rocks are not shown on the geological map in this location.

Sample V248-L7N, 1+75E is an altered diorite with a hornblende-tourmaline veinlet. The hornblende may be distinguished from the tourmaline by pleochroic formula and appearance. In tourmaline the blue-green direction is fast and parallel to the length as well as to the E-W polarizer, whereas in hornblende, the blue-green direction is slow and at an angle of about 14° to the length as well as to the N-S polarizer. Tourmaline is sparse, but clearly related to amphibole-bearing veins.

Sample V248-L4N, 1+50E is also from the Main Grid. It is a diorite in contact with epidote "skarn". At the contact, a 0.5 cm band of dark magnetic rock has formed, including 10% magnetite, and 20-30% sericite (replacing feldspar). Weak foliation is parallel to the contact.

Rock samples from drillholes DDH-88-1 to 3 show a certain amount of cataclastic deformation as evidenced by microfaults within plagioclase grains, kink-bands, disrupted twins, and the larger, rounded shape of plagioclase compared with other, recrystallized minerals. Alteration types are similar to the ones mentioned above, mainly a result of hydration (but otherwise isochemical), with some metasomatism of silica and/or boron.

Three samples were taken from DDH-88-1, at 29.5 m, 36.3 m, and 60.2 m. All are identified as "feldspar porphyry" in drill logs, but V248-1-29.5 and V248-1-60.2 are closer to a somewhat porphyritic-textured, coarse-grained diorite. However, sample V248-1-36.3 appeares to be a metamorphosed mafic volcanic or volcaniclastic rock with intrusive xenoliths, rather than an intrusive rock. Cataclastic deformation is recorded in the weak foliation and deformation textures in the feldspar.

The single sample from DDH-88-2, V248-2-39.0, is a deformed, altered quartz dioritic feldspar porphyry. It is generally coarse-grained, with 50% subhedral plagioclase. Alteration minerals included chlorite, epidote, and amphibole. Some tourmaline is present in amphibole veins. Calcite is associated with chlorite alteration. Hydrothermal alteration followed cataclasis.

Three samples were collected from DDH-88-3. Sample V248-3-28.0 is an altered, fine-grained biotite diorite, and sample V248-3-133.4 is also an altered diorite, but clearly shows incipient silicification. The most interesting sample is V248-3-57.0 P.T.S., a polished thin section with 10-15% pyrite and 2-3% arsenopyrite. The rock looks like a quartz vein until inspected more closely, where it can be seen that the dominant mineral is feldspar. The rock is composed primarily of plagioclase (40-50%), quartz (15-20%), muscovite (10-15%), and pyrite (10-15%), with lesser chlorite and arsenopyrite. The quartz appears to be secondary, at least in part. The rock resembles a pyritic quartz diorite or granodiorite, but is probably a hydrothermally altered and silicified diorite. Unfortunately, no significant geochemical values are associated with this very interesting pyritic silicified zone.

PETROGRAPHIC REPORT **by J.S. Getsinger, PhD** J.S. Getsinger

For Parallax Development Corporation **Date** 87-11

Project V248 - Contact Project **Collector** Ted Hayes(?)

Sample V248-1400 **Date Collected** 87-11

Location: Flores Island, Contact 1 claim, Main Grid, 0+25S, 0+40W.

Rock Type: Silicified calc-silicate skarn with arsenopyrite(?).

Hand Specimen: Rusty brown-weathering, whitish to pale green rock. Very fine-grained to aphanitic, even-textured rock is crosscut by irregular, discontinuous to lensoidal veinlets (typically ≤0.5 mm wide by ≤1 cm long) filled with greyish-white and green material (quartz + epidote(?)). Locally veinlets include silvery sulphides (pyrite ± arsenopyrite(?)) (≤0.5 mm), with cube-like shapes. Prismatic greenish crystals (epidote) project into veinlets and vugs; prisms are ≤0.5 mm long and very thin. No reaction to HCl. There are several episodes of fracturing and veining.

THIN SECTION (Polished No):

% (Approx.) MINERALS

40-50% Quartz - Fine to coarser-grained; groundmass and veinlets; surrounds clinopyroxene; is intergrown with epidote.

20-25% Epidote - Pale dirty yellowish pleochroic; med.-high releif; fine-grained massive aggregate in stringers and radiating subhedral prismatic in quartz veinlets.

30-40% Clinopyroxene (Diopside(?)) - Med. - high relief, colourless to dirty tan; biref. = 0.027; Z' to c = 45°; fine-grained aggregate of equant grains in granular quartz groundmass.

<1% Opaques - Angular to squarish grains, probably pyrite (± arsenopyrite(?)).

Rock Textures/Structures: Epidote veinlets crosscut clinopyroxene aggregate; quartz veinlets contain euhedral epidote, and crosscut clinopyroxene and epidote; in some places epidote appears to crosscut quartz.

Protolith: Calc-silicate rock(?)

Alteration/Mineralization: Silicification and epidote veining of calc-silicate rock; sulphide mineralization accompanied veining.

Conditions of Formation: Contact metamorphism of calc-silicate rock to form diopside, then silicification and epidote veining.

MPH

PETROGRAPHIC REPORT **by J.S. Getsinger, PhD** J.S. Getsinger

For Parallax Development Corporation **Date** 87-11

Project V248 - Contact Project **Collector** Ted Hayes(?)

Sample V248-22743 **Date Collected** 87-11

Location: Contact claims, Flores Island, B.C., Main Grid, 5+00N, 2+05E.

Rock Type: Contact between intrusive (diorite?) and magnetite skarn

Hand Specimen: Whitish and brown-rusty weathering, medium-grained intrusive rock has weak foliation defined by incipient compositional segregation. Grain size is about 1 mm. C.I. = 40 to 50, with dark green amphibole(?) + chlorite(?), and whitish feldspar. A rounded lens of finer-grained, darker rock (4 cm across) is intersected by the section. It is magnetic, indicating abundant magnetite. Some magnetite also occurs disseminated in the intrusive rock, along with disseminated pyrite (5-10%). No reaction to HCl.

THIN SECTION (Polished No):

% (Approx.) MINERALS

A) Intrusive

50%	Feldspar - Turbid, altered to sericite, saussurite. Albite twins indicate plagioclase.
5%	Quartz - Small, clear, anhedral, interstitial grains.
10%	Hornblende - Light bluish-green to pale yellow, mostly altered to chlorite. Best developed near the contact.
tr	Tourmaline - E = pale tan, O = bluish green; O > E.
20%	Chlorite - After hornblende and biotite(?). Light green to pale yellow; biref. is anomalous blue.
5%	Epidote (Pistacite) - Med. to high relief, biref.; yellowish; as individual grains, also radiating sprays.
5-10%	Opaques - Abundant blocky, disseminated grains, including magnetite.

B) Inclusion

10-15%	Plagioclase - Albite twinning; largely sericitized
15%	Biotite - Brown to colourless mica
25-30%	Hornblende/actinolite - Fine-grained, euhedral to subhedral evenly disseminated. Abundance of diamond-shaped cross sections and random orientation of biotite suggest section is cut perpendicular to a metamorphic lineation. Biref. = 0.020; Z' to c = 16°; X = pale yellow, Y = olive green, Z = bluish green; Z $\geq$ Y > X. Amphibole also occurs in veinlets.
5-10%	Epidote - In vein, comb structure.
20%	Sericite - Pseudomorphing altered feldspar, and enclosing finely disseminated opaques.
10-15%	Opaques - (1) Disseminated grains of magnetite; (2) Areas of very finely disseminated grains in sericitized feldspar grains.

Rock Textures/Structures:

A) Weak metamorphic foliation in a granular texture overall.

B) Texture is hornfelsic, with metamorphically recrystallized biotite, hornblende.

Protolith:

A) Diorite

B) Mafic volcanic(?)

Alteration/Mineralization: Alteration in both types is mainly due to hydration and low-grade metamorphism, that is, chlorite, sericite, etc. Timing of magnetite mineralization is unknown.

Conditions of Formation: Dioritic intrusive came in contact with finer-grained, mafic volcanic(?) and both were subsequently hydrothermally altered and somewhat metamorphosed. Biotite and magnetite may be contact (skarn) effects.

PETROGRAPHIC REPORT by J.S. Getsinger, PhD *J.S. Getsinger*

For Parallax Development Corporation **Date** 87-11

Project V248 - Contact Project **Collector** Victor Ryback-Hardy

Sample V248-L7N, 1+75E **Date Collected** 87-11

Location: Flores Island, Contact 1 claim, Grid location L7N, 1+75E

Rock Type: Altered diorite with hornblende-tourmaline veinlet

Hand Specimen: Dark green and white, medium to coarse-grained (1 to 3 mm) plutonic rock with colour index about 60. Dark green minerals are amphibole (hornblende) altered to chlorite and epidote. White mineral shows local cleavage, and is probably plagioclase. Pyrite ($\pm$ chalcopyrite?) occurs as disseminated blebs (<0.5 mm; $\leq$3%). Dark veinlet ($\leq$5 mm wide) across chip is composed of dark green to black, minute elongate grains, possibly amphibole. No reaction to HCl or magnet.

THIN SECTION (Polished No):

% (Approx.) MINERALS

20-30%	Plagioclase (Oligoclase) - Albite twinning; 50% saussuritized or sericitized; "dirty"-looking in plane light. In an a-normal section, X' to c = 9°.
25-30%	Amphibole (Hornblende) - Large grains, blocky, may be pseudomorphous after pyroxene. Biref. = 0.025; Z' to c = 14°; X = greenish yellow; Y = green to olive green; Z = bluish-green; Z $\geq$ Y > X; (-)2V = 80-85°; locally poorly developed amphibole cleavage. Locally strained, twisted, bent, pulled apart.
2- 4%	Opaques - Sparse, blocky to equant, skeletal; minor red hematite.
<5%	Quartz - Colourless, clear, interstitial
(?)	(?) - Greenish yellow, low biref.
5+%	Chlorite - Pale green with opaques $\pm$ leucoxene(?)
5%	Epidote - Occurs in veinlets and as replacement of amphibole
<1%	Tourmaline - In locally altered patches; with minor red hematite.
10-15%	Sericite - Very fine-grained, in altered feldspar
5%	Sphene ($\pm$ Leucoxene?) - Brownish, high relief grains, especially as inclusions in chlorite

Veinlet:

50-60%	Amphibole (Sodic(?) Hornblende) - Zoned from pale green to bluish green with darker rims. X = colourless to pale yellowish green; Y = green; Z = colourless to deep bluish green. Z > Y > X. Z' to c = 14°. Biref. = 0.030. Random, acicular needles.
1- 2%	Tourmaline - Sparse but coarse-grained radiating clusters intergrown with random blue-green amphibole. Pleochroic formula: O = dark teal blue, E = pale yellowish green to tan; O > E. Associated with minor hematite.
10-15%	Epidote - Elongate rectangular prisms; very pale yellow; biref. = 0.030.
<2%	Sphene - High relief, brownish grains
<<1%	Opaques - Very minor, small grains
10-15%	Plagioclase - Similar to quartz, twinned; saussuritized in part
5-10%	Quartz - Low biref., low relief, clear

Rock Textures/Structures: Granoblastic texture has been somewhat obscured by alteration of feldspar and amphibole; some amphibole shows local deformation features. Vein is recrystallized, with random-textured amphibole, tourmaline.

Protolith: Diorite

Alteration/Mineralization: Saussuritization/sericitization of plagioclase; recrystallization of amphibole (metamorphic?); tourmaline plus second-phase amphibole in veinlet.

Conditions of Formation: Intermediate intrusive has been metamorphosed to amphibolite facies(?) and hydrothermally altered, with influx of water, minor boron, and possibly extra sodium.

PETROGRAPHIC REPORT **by J.S. Getsinger, PhD** J.S. Getsinger

For Parallax Development Corporation **Date** 87-11

Project V248 - Contact Project **Collector** Victor Ryback-Hardy

Sample V248-L4N, 1+50E **Date Collected** 87-11

Location: Flores Island, Contact 1 claim.

Rock Type: Diorite in contact with epidote skarn

Hand Specimen: Whitish, light green, and brown-rusty weathering rock with fine to medium grain size. Cut surface shows somewhat foliated intrusive rock (dioritic) with alteration to epidote, in contact with a finer-grained, green rock which appears to be composed primarily of epidote. At the contact is a black band 0.5 cm thick which is magnetic, therefore containing magnetite. Disseminated metallic minerals (<2%) are probably dominantly pyrite. No reaction to HCl.

THIN SECTION (Polished No):

% (Approx.) MINERALS

Intrusive

<10%	Quartz - Clear; associated with plagioclase, but more near the contact; in elongated lenses parallel to foliation.
50%	Feldspar - Plagioclase; sericitized, saussuritized; Carlsbad twins, vague albite twins.
15-20%	Amphibole - Hornblende - mainly altered to epidote + chlorite.
5%	Epidote - Pistacite - Med. to high biref.; an alteration mineral.
tr	Sphene - Small, high relief grains.
10-15%	Chlorite - Light green; anomalous blue-brown biref.
<2%	Opaques - Mainly associated with chlorite, some disseminated grains.

Black band

10%	Opaques - Magnetite - disseminated
20-30%	Sericite - Replacing feldspar(?)
20%	Quartz - Anhedral, subangular grains
10%	Hornblende - Green grains, near intrusive contact
15-20%	Epidote - Pistacite - small, rounded, high relief grains
10%	Chlorite - Light green, extremely low biref.

Epidote skarn

40%	Epidote - Pistacite - Bright birefringence, yellow pleochroism. Patchy, skeletal, with altered plagioclase cores.
40-45%	Quartz - Interstitial to epidote; large grain size; irregular, anhedral.
<1%	Opaques - Sparsely disseminated, blocky grains with rusty haloes (pyrite(?))
10-15%	Plagioclase - Anhedral masses surrounded by epidote; turbid areas are sericitized, saussuritized feldspar
<5%	Sphene - As inclusions in epidote

Rock Textures/Structures: Weak foliation is parallel to contact in all parts. Epidote is secondary. Foliation may be related to intrusion; although it may be due to deformation, it is not a clear case.

Protolith: Diorite

Alteration/Mineralization: Feldspar is sericitized and saussuritized; mafic minerals are altered to chlorite; epidote alteration is extensive, and associated with quartz. Magnetite is clearly related to the intrusive contact.

Conditions of Formation: Diorite has been hydrothermally altered, with addition of quartz-epidote alteration.

PETROGRAPHIC REPORT **by J.S. Getsinger, PhD** J.S. Getsinger

For Parallax Development Corporation **Date** 88-06

Project V248 - Contact Project **Collector** Victor Ryback-Hardy

Sample V248-1-29.5 **Date Collected** 88-02

Location: Contact 1 claim, Flores Island, B.C. DDH-88-1, depth 29.5 m.

Rock Type: Deformed diorite

Hand Specimen: Foliated chloritic intrusive(?). Drillcore sample (BQ; <8 cm long). White and green, medium-grained, foliated rock may be diorite altered to chloritic assemblage. Feldspar (with cleavage) makes up about 50%. Other minerals are chlorite, epidote(?), and sericite(?). Non-magnetic. Pale green, crosscutting veinlets (<0.5 mm) may contain very fine-grained quartz and epidote. No reaction to HCl. Sparkly surfaces are probably mica or chlorite, not metallic minerals.

THIN SECTION (Polished No):

% (Approx.) MINERALS

50%	Feldspar - Plagioclase - Turbid, with vague albite twinning. In some grains the twins are bent, indicating deformation. Altered extensively to sericite and saussurite.
10-15%	Quartz - Anhedral, irregular boundaries
<2%	Prehnite - Med. biref., med. relief, colourless, parallel extinction, high (+)2V; occurs along veinlets, along with some vein feldspar.
15-20%	Chlorite - Pale green pleochroic; anomalous brown biref.
5%	Epidote - Very pale yellow pleochroism; colourful biref.; elongate infoliation; locally zoned.
2- 3%	Clinopyroxene(?) - Altered; elongate, med. - high relief mineral. Slow = brown, fast = tan; Z' to c = 43°, associated with chlorite. Med. biref.
5%	Opaques - Fine-grained opaques occur along foliation surfaces with chlorite; may include sphene or leucoxene

Rock Textures/Structures: Weak foliation, defined by chlorite and finer-grained quartz and feldspar surrounding larger, rounded feldspar grains. Bent twins as well as foliation imply cataclastic deformation.

Protolith: Diorite

Alteration/Mineralization: Alteration is basically hydration: plagioclase to sericite + saussurite; mafics to chlorite + epidote. Opaques appear to be products of hydration reactions.

Conditions of Formation: Dioritic intrusive has been sheared cataclastically with some recrystallization, and hydrothermal alteration.

PETROGRAPHIC REPORT **by J.S. Getsinger, PhD** J.S. Getsinger

For Parallax Development Corporation **Date** 88-06

Project V248 - Contact Project **Collector** V. Ryback-Hardy

Sample V248-1-36.3 **Date Collected** 88-02

Location: Contact 1 claim, Flores Island, B.C., DDH-88-1, depth 36.3 m.

Rock Type: Altered mafic metavolcanic or volcaniclastic(?) rock

Hand Specimen: Volcanic greenstone with epidote + chlorite veins, gypsum(?). Drill core sample (BQ; <10 cm long). Dark green, fine to medium-grained metavolcanic or volcaniclastic(?) rock. Evenly fine-grained andesitic to basaltic matrix surrounds xenoliths or clasts of medium-grained dioritic intrusive up to 2-3 cm across. Identifiable minerals are chlorite and epidote. Epidote is apparently related to veining. White veinlets (up to 1 to 2 mm) include quartz, but also a soft, tabular crystalline material which could be gypsum (no reaction to HCl). Other white vein mineral, as well as grey, altered plagioclase, does react in HCl, indicating presence of calcite alteration. Calcite-bearing veins crosscut epidote-bearing veins. Overall texture of rock is fine- grained granular rather than porphyritic.

THIN SECTION (Polished No):

% (Approx.) MINERALS

50%	Feldspar - Fine-grained, anhedral, altered to about 50% sericite. Angular to subangular grains.
tr(?)	Quartz - Does not occur in main mass of rock, unless as grains indistinguishable from feldspar.
15-20%	Actinolitic Hornblende - Occurs as small prisms throughout, and as larger, blocky grains, possibly pseudomorphous after pyroxene, with fine-grained exsolved opaques. Amphibole also occurs in a set of veins. Z = pale bluish-green, Y = light olive green, X = colourless to pale yellow; Z = Y > X. Z' to c = 16°. (-)2V > 80°.
15-20%	Chlorite - Anomalous brown to purple biref., light green to yellow pleochroism.
5-10%	Epidote - Pistacite - Mainly in veins, also as an alteration mineral. The epidote veins are made up of fine-grained epidote and epidote aggregate clasts.
<5%	Opaques - Fine-grained, disseminated; may include sphene and/or leucoxene in semi-opaque masses in chlorite.

Veins

Calcite - High biref. carbonate, reacts in HCl

Sulphate(?) Vein mineral - Prismatic (terminating face at 70° to prismatic faces), low biref. (<0.010), inclined extinction; negative relief; (-)2V about 45 to 70°; resembles gypsum except for negative optic sign.

Rock Textures/Structures: Evenly fine-grained granular, not porphyritic. No intrusive xenoliths are cut by the thin section. There are at least 3 stages of veining shown in thin section. Granular texture may be evidence of hornfelsing. It may also be derived from an originally clastic texture, as most grains are angular.

Protolith: Intermediate to mafic volcanic or volcaniclastic rock.

Alteration/Mineralization: Vein order: Epidote, amphibole, sulphate(?) $\pm$ calcite.

Conditions of Formation: Volcanic or volcaniclastic rock was either metamorphosed to greenschist facies or hydrothermally altered. Veins of dominantly (1) epidote, (2) amphibole, and (3) sulphate(?) $\pm$ calcite were emplaced during (1,2) and after (3) hydrothermal alteration (or metemorphism).

PETROGRAPHIC REPORT **by J.S. Getsinger, PhD** J.S. Getsinger

For Parallax Development Corporation **Date** 88-06

Project V248 - Contact Project **Collector** V. Ryback-Hardy

Sample V248-1-60.2 **Date Collected** 88-02

Location: Contact 1 claim, Flores Island, B.C., DDH-88-1, depth 60.2 m.

Rock Type: Altered quartz diorite

Hand Specimen: Diorite(?) with epidote veins. Drill core sample (BQ; <12 cm long). Medium-grained (1 mm) intrusive rock consists of mainly plagioclase (with cleavage), mafic minerals (now chlorite), and minor quartz. Quartz is associated with epidote alteraion. The section chip is crosscut by an epidote alteration band about 1 cm wide, with lesser quartz. Minor chloritic zones are developed along discontinuous trends, breaking up the even granular texture of the rock.

THIN SECTION (Polished No):

% (Approx.) MINERALS

40-45%	Plagioclase - Albite twinning, rare; grains are larger than quartz, much altered to sericite. Oligoclase(?).
10-15%	Quartz - Anhedral
15-20%	Chlorite - Light green pleochroic
10-15%	Amphibole - Actinolitic hornblende, zoned from lighter to darker green. Occurs in veins, mainly, and in small amounts within the rock.
5-10%	Epidote - Pistacite - yellow pleochroic, individual grains, also in veins.

Vein material

Quartz - Large grains, straight boundaries with triple junctions; quartz vein crosscuts epidote vein.
Epidote - Subhedral pistacite, comb texture in epidote vein.
Amphibole - Needle-like in quartz vein; coarser in small amphibole veins.

Rock Textures/Structures: Random texture, with alteration minerals as overgrowths; veins form crosscutting features.

Protolith: Quartz diorite

Alteration/Mineralization: Alteration assemblage of epidote, chlorite, and amphibole is consistent with greenschist facies metamorphism and/or hydrothermal alteration. Plagioclase is altered to sericite.

Conditions of Formation: Intermediate intrusive rock has been hydrothermally altered, and veined, with epidote veins followed by amphibole and quartz veins. Conditions are possibly greenschist facies metamorphic, but lack of deformation textures suggests dominantly alteration.

MPH

PETROGRAPHIC REPORT **by J.S. Getsinger, PhD** J.S. Getsinger

For Parallax Development Corporation **Date** 88-06

Project V248 - Contact Project **Collector** V. Ryback-Hardy

Sample V248-2-39.0 **Date Collected** 88-02

Location: Contact 1 claim, Flores Island, B.C., DDH-88-2, depth 39.0 m.

Rock Type: Deformed, altered quartz dioritic feldspar porphyry

Hand Specimen: Intrusive porphyry(?). Drill core sample (BQ; 10 to 12 cm long). Coarse-grained (2 to 4 mm), white and green intrusive rock has more of a porphyritic than granular texture. White, subrounded to rectangular subhedral plagioclase (up to 4 mm) makes up about 60%, with interstitial dark green chlorite (± possible amphibole). A dark green to black, chloritic(?) veinlet (<0.5 cm) crosscuts section chip; it hosts sulphide grains up to 2 mm long (pyrite). Other pyrite grains in the host rock are within 1 cm of the dark green vein. Non-magnetic. Vein contains tiny acicular crystals which may be amphibole (hornblende) in addition to chlorite. Tiny crosscutting veinlets and white areas associated with chloritic clots react in HCl, indicating calcite alteration. Feldspar is locally partly altered to epidote and/or calcite.

THIN SECTION (Polished No):

% (Approx.) MINERALS

50%	Plagioclase - Abundant albite twinning shows a variety of deformation textures, such as bent and fractured grains, kink-bands, twinned and untwinned patches in same grain, irregular crystal boundaries, etc. Altered somewhat, to sericite, saussurite. Feldspar grains were originally large and subhedral.
10%	Quartz - Larger grains have been partly recrystallized as smaller grains. Boundaries are irregular. Undulose extinction is common. Some quartz may be in veins; rest is interstitial to plagioclase.
5-10%	Amphibole - Actinolitic hornblende. Occurs mainly in dark green vein, dominantly amphibole, in random mat-like texture.
15-20%	Chlorite - Pale green pleochroic; anomalous purple biref. Irregular alteration of former mafic minerals, with exsolution of iron oxides (now opaque dust).
5-10%	Epidote - Weakly yellow pleochroic. Clinozoisite to pistacite.
<1%	Sphene - Associated with chlorite and opaques, as accessory mineral.
2- 4%	Carbonate - Associated with chlorite alteration, and in quartz veins.
<1%	Tourmaline - Associated with amphibole near edge of green vein; light greenish tan (E) to dark blue-green (O); O > E. Grains are large and skeletal, anhedral.
5%	Opaques - Fine-grained opaque dust, arranged around altered minerals, in curved or odd-shaped stringers, especially associated with chlorite (as altered mafics). Also occurs in sparse larger grains, possibly pyrite.

Rock Textures/Structures: Deformation textures in feldspar, unusual textures in chlorite indicate some cataclastic deformation rather than regional penetrative deformation. Large, subhedral feldspar indicates intrusive porphyritic texture.

Protolith: Quartz dioritic feldspar porphyry.

Alteration/Mineralization: Plagioclase is sericitized, saussuritized. Chlorite + iron oxides ± sphene ± calcite replace mafic minerals. Amphibole occurs in veins, along with tourmaline. Epidote is a common alteration mineral. Mineralization is limited to a few grains of pyrite.

Conditions of Formation: Intermediate intrusive porphyry has been broken up and sheared somewhat, followed by hydrothermal alteration involving influx of water, common alteration to chlorite, formation of tourmaline-bearing amphibole veins.

PETROGRAPHIC REPORT by J.S. Getsinger, PhD *J.S. Getsinger*

For Parallax Development Corporation **Date** 88-06

Project V248 - Contact Project **Collector** V. Ryback-Hardy

Sample V248-3-28.0 **Date Collected** 88-02

Location: Contact 1 claim, Flores Island, B.C., DDH-88-3, depth 28.0 m.

Rock Type: Altered fine-grained diorite

Hand Specimen: Hornfels or volcanic(?). Drill core sample (BQ; <10 cm long). Medium-grained (0.5 to 1 mm) granular rock is mainly even-textured, with white veinlets (0.1 mm thick), and irregular chloritic fractures with pyrite grains <0.5 mm. Rock appears weakly foliated. Whitish minerals (30%) are rounded, and look bluish-grey on core surface, and show cleavage on cut surface (plagioclase). Texture is actually granular, although the felsic minerals (feldspar) are apparently coarser-grained than the mafic minerals (chlorite?). Discontinuous quartz-epidote stringers occur locally. Pyrite blebs are anhedral and irregularly disseminated (<3%). Could be interpreted as fine-grained diorite.

THIN SECTION (Polished No):

% (Approx.) MINERALS

45-50%	Plagioclase - Grains are subhedral to anhedral, clumped together. Albite twinning is discontinuous and patchy. Feldspar is cloudy with products of sericitization and saussuritization.
5%	Quartz - Uniaxial(+), mainly occurring in veinlets
5%	Amphibole - Blue-green actinolitic hornblende; as an alteration mineral
5-10%	Biotite - Green mica; med. to high biref.; mainly altered to chlorite
15-20%	Chlorite - Light green, low birefringent phyllosilicate
10%	Epidote - Pistacite - As grains among biotite and chlorite around feldspar
<1%	Sphene(?) - High relief, biref.
5%	Opaques - Pyrite (<0.5 mm); also opaque material associated with chlorite alteration
	Gypsum(?) - Vein mineral, low relief, biref.

Rock Textures/Structures: Interlocking granular texture. Irregular twinning in feldspar indicates some cataclastic deformation. Micaceous minerals are ragged.

Protolith: Biotite diorite

Alteration/Mineralization: Feldspar to sericite, saussurite; biotite to chlorite ± iron oxides; amphibole. Mineralization appears limited to minor development of pyrite.

Conditions of Formation: Intermediate rock has cooled more quickly than its coarser-grained equivalent. Hydrothermal alteration brings in amphibole, chlorite alteration, possibly pyrite.

PETROGRAPHIC REPORT **by J.S. Getsinger, PhD** J.S. Getsinger

For Parallax Development Corporation **Date** 88-06

Project V248 - Contact Project **Collector** V. Ryback-Hardy

Sample V248-3-57.0 PTS **Date Collected** 88-02

Location: Contact 1 claim, Flores Island, B.C., DDH-88-3, depth 57.0 m.

Rock Type: Pyritic meta-quartz diorite(?)

Hand Specimen: Pyrite in silicified rock. Drill core sample (BQ, cut in half lengthwise, <10 cm long). Coarse-grained (2-6 mm) grey quartz and feldspar (with cleavage) make up >80%. Disseminated pyrite (<<0.5 mm) (± sericite?) is sparkly (10%). Milky-whitish areas and veinlets may be altered feldspar or clay minerals. Local dark areas are not magnetic; may be altered mafic minerals. Texture looks somewhat cataclastic: large, rounded grey grains are surrounded by irregular fractures defining a weak foliation perpendicular to drill core. Whitish veinlets cut obliquely to drill core. No reaction to HCl.

THIN SECTION (Polished No):

% (Approx.) MINERALS

15-20%	Quartz - Colourless, clear, in smaller-grained aggregates around feldspar; could be secondary, in part.
40-50%	Feldspar - Plagioclase - Albite twinning; intracrystalline microfaults; turbid, large grains
10-15%	Muscovite - Associated with pyrite; colourless mica, med. to high biref., surrounds plagioclase.
<5%	Chlorite - Very pale green pleochroic
trace	Rutile - Semi-opaques, brown, high relief mineral
10-15%	Pyrite - Anhedral (≤1 mm), disseminated
2- 3%	Arsenopyrite(?) - Silvery-metallic, smaller than pyrite.
Vein	(?) - Colourless, low biref., mineral in radiating sheaf-shapes, possibly clay mineral(?).

Rock Textures/Structures: Textures include intrusive granular texture, alteration of feldspar, growth of muscovite. Foliation appears somewhat metamorphic, with incipient crystallization foliation defined by muscovite.

Protolith: Quartz diorite or granodiorite

Alteration/Mineralization: Alteration: Plagioclase is sericitized, but also muscovite is widespread, indicating loss of iron from biotite (to pyrite?) or originally more felsic composition. Pyrite mineralization is significant.

Conditions of Formation:

1) Diorite has been deformed, hydrothermally altered with introduction of potassium, sulphur, and silica OR
2) Granodiorite has been deformed, hydrothermally altered with introduction of pyrite and recrystallization of quartz and muscovite.

The first interpretation is preferred, that a dioritic rock has been silicified and mineralized with pyrite.

PETROGRAPHIC REPORT **by J.S. Getsinger, PhD** J.S. Getsinger

For Parallax Development Corporation **Date** 88-06

Project V248 - Contact Project **Collector** V. Ryback-Hardy

Sample V248-3-133.4 **Date Collected** 88-02

Location: Contact 1 claim, Flores Island, B.C., DDH-88-3, depth 133.4 m.

Rock Type: Altered diorite

Hand Specimen: Foliated intrusive. Drill core sample (BQ; 10 cm). Medium-grained (1 to 2 mm) white and green (diorite?) intrusive rock is weakly foliated subparallel to drill core axis. Foliation is defined by alignment of black micaceous mineral as well as incipient compositional segregation. Black veinlets (≤2 mm) may contain fine-grained hornblende. White veinlets (<1 mm) have soft, radiating, prismatic white mineral, like gypsum, or possibly a zeolite. Milky-white feldspar (plagioclase, with cleavage and striations) is subhedral, and locally altered to epidote or clay(?) minerals, as well as calcite (minor reaction to HCl). Interstitial clear material may be quartz (up to 10%). Mafic minerals (originally hornblende ± biotite) are altered to chlorite and some epidote. A few grains of pyrite were noted.

THIN SECTION (Polished No):

% (Approx.) MINERALS

40%	Plagioclase - Turbid, sericitized, saussuritized. Albite twinning is obscure. Large subhedral to anhedral, rectangular grains.
10%	Quartz - Occurs in polycrystalline, rounded aggregates within weakly foliated granular texture. Rounded apophyses of quartz appear to crosscut chloritic cleavage as if blebs of quartz were replacing the intrusive rock.
15%	Chlorite - Light green pleochroic; anomalous blue-purple biref.; trails of opaques along cleavage (iron oxide?).
10-15%	Hornblende - Blue-green to green, twinned, altered to chlorite and epidote
5-10%	Epidote - Subhedral, disseminated grains of pistacite are associated with other iron-bearing minerals (hornblende, chlorite).
<1%	Sphene ± leucoxene - Possibly present in high relief, turbid areas of feldspar, and in chlorite grains.
<5%	Opaques - Pyrite(?), anhedral grains

Rock Textures/Structures: Rounded blebs of secondary(?) quartz in a regular granular (intrusive) matrix of plagioclase and mafics.

Protolith: Diorite

Alteration/Mineralization: Sericitization, saussuritization of feldspar. Chlorite after mafics. Quartz is apparently secondary (silicification). Mineralization is limited to a small amount of pyrite.

Conditions of Formation: Intermediate to mafic intrusion has been hydrated and subsequently silicified by hydrothermal alteration.

MICROSCOPIC DESCRIPTIONS OF SAMPLES V2483-MT1 and V2483-PT1

For
MPH Consulting Limited
By
C. L. Soux, BSc.
(July, 1988)

MINERALOGRAPHIC REPORT

by C. L. Soux

For: MPH Consulting Limited
Project:
Sample: V2483-MT1

Location:
Collector: J. Getsinger
Date Analyzed: July 18'1988

MACROSCOPIC DESCRIPTION:

Hand specimen contains abundant chalcopyrite and other sulphide minerals.

MICROSCOPIC ANALYSIS IN POLISHED THIN SECTION

Abr.	Mineral	Chem. Formula	%
Cpy.	Chalcopyrite	Cu Fe S2	36
Py.	Pyrite	Fe S2	3
Sph.	Sphalerite	Zn S	1
Apy.	Arsenopyrite	Fe As S	<<1
Act.	Actinolite		25
Ep.	Epidote		35

TEXTURES AND DESCRIPTION:

-Chalcopyrite and other sulphides are interstitial between intergrown actinolite and epidote grains. Narrow fractures are filled with pyrite and chalcopyrite.
-Sphalerite does not contain inclusions and is replaced in part by chalcopyrite.
-Some of the pyrite is spheroidal and shows rhythmic banding, possibly a product of colloidal deposition.
-A few discrete grains of arsenopyrite were observed.
-Actinolite is fibrous and shows green pleochroism.
-Epidote and actinolite are intimately intergrown.

MINERALOGRAPHIC REPORT

by C. L. Soux

For: MPH Consulting Limited
Project: Contact
Sample: V2483-PT1

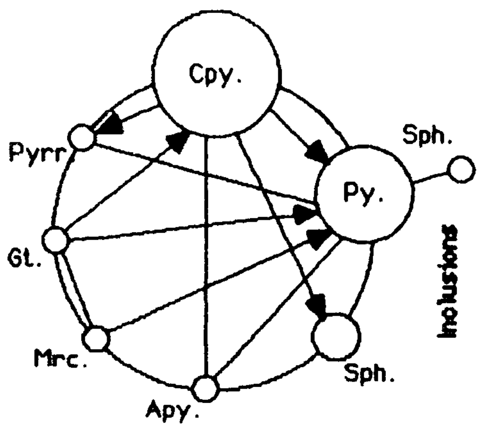
Location: Flores Is. B.C.
Collector: J. S. Getsinger
Date Analyzed: July 15'88

MACROSCOPIC DESCRIPTION:

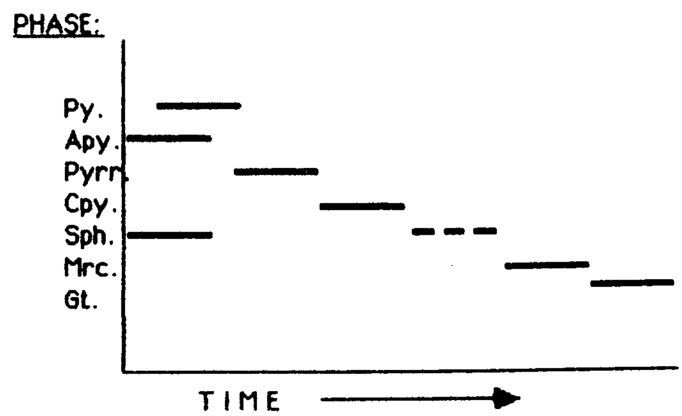
Sample of vein material containing abundant sulphides and quartz. In order to establish the average mineralogy, the sample was ground to <2mm. After homogenizing, a briquette of a representative subsample was prepared.

MICROSCOPIC ANALYSIS IN POLISHED SECTION

Abr.	Mineral	Chem. Formula	%	Description
Cpy.	Chalcopyrite	Cu Fe S2	55	Associated mainly with Py. and Sph.
Py.	Pyrite	Fe S2	30	Replaced by Gt. and Mrc.
Sph.	Sphalerite	Zn S	5	As inclusions in Py.; replaced by Cpy.
Apy.	Arsenopyrite	Fe As S	<1	Associated with Py. and Cpy.
Gt.	Goethite	H Fe O2	1	Alteration product of Py. and Cpy.
Mrc.	Marcasite	Fe S2	<1	Replaces Py.
Pyrr.	Pyrrhotite	Fe S	<1	Associated with Py. and Cpy.
Mol.	Molybdenite	Mo S2	<<1	Discrete particles.
Gg.	Gangue		8	Composed mainly of quartz.



Vandeveer Diagram



Tentative Paragenetic Sequence

TEXTURES AND DESCRIPTION:

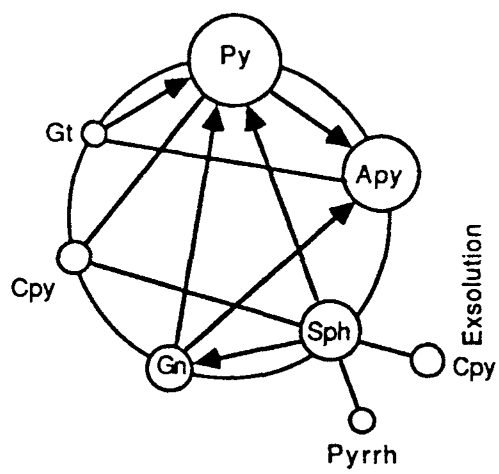
- Chalcopyrite is present associated mainly with pyrite and sphalerite. In most cases, chalcopyrite and sphalerite show mutual boundaries. Where chalcopyrite is seen replacing sphalerite, caries texture is observed.
- Sphalerite is devoid of inclusions and occurs as idiomorphic grains partly replaced by chalcopyrite. A few idiomorphic grains of sphalerite in pyrite were observed, indicating an earlier deposition of sphalerite.
- Narrow fissures in arsenopyrite and pyrrhotite are filled with chalcopyrite.
- Pyrite is replaced by marcasite and goethite-jarosite?
- Chalcopyrite shows alteration to jarosite?

EXPLANATION ON THE USE OF THE VANDEVEER DIAGRAM

A NEW DIAGRAMATIC SCHEME FOR PARAGENETIC RELATIONS OF THE ORE MINERALS

The ore minerals are arranged on the circumference of a circle and represented by smaller circles. Lines connect each pair of minerals which are observed to be in contact. An arrowhead points toward the mineral replaced where replacement textures are represented. The absence of arrows indicates simultaneous deposition. Minerals formed by exsolution are attached to the primary minerals by a line to the exsolution mineral point, which is outside the hypogene ore mineral circle. Supergene minerals are arrranged on an outer arc and connected by lines to the hypogene minerals which are replaced. The density of the connecting lines in the diagram indicates semiquantitatively the relative replaceability of the host minerals.

After Forbes Robertson and Paul L. Vandeveer
Department of Geology,
Montana School of Mines,
October 16, 1951.



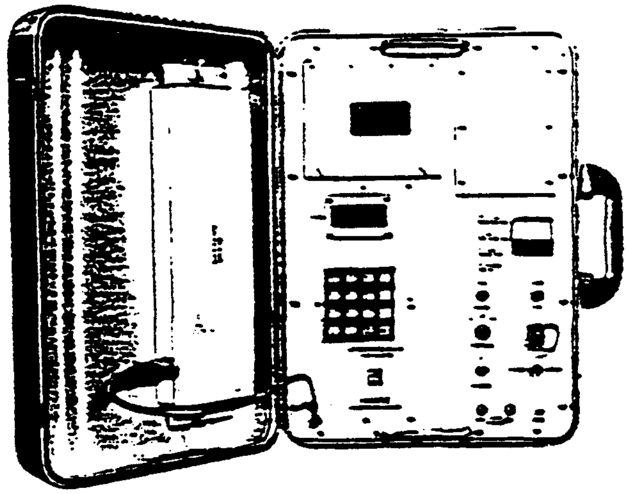
Example: (Above diagram)

Pyrite is replaced by sphalerite, galena and goethite. Arsenopyrite is replaced by galena and pyrite. Galena is replaced by sphalerite. Chalcopyrite is in contact with pyrite and sphalerite, but there is no evidence of replacement. Goethite and arsenopyrite are observed to be in contact. Sphalerite contains exsolution blebs of chalcopyrite and pyrrhotite.

Appendix VII

IP INSTRUMENTATION SPECIFICATIONS

M-4 Induced Polarization Receiver



DESCRIPTION

The Huntec M-4 is a microprocessor based receiver for time and frequency domain IP and complex resistivity measurement. It is

Easy to operate. One switch starts a measurement, of up to 29 quantities simultaneously. The optional Cassette DataLogger records them all in seconds. Calibration, gain setting and SP buckout are all automatic.

Reliable. Using advanced digital signal processing techniques, the M-4 delivers consistently accurate data even in noisy, highly conductive areas. For mechanical reliability it is packaged in a rugged aluminum case for backpack or hand carrying.

Versatile. The operator may adjust delay and integration times, operating frequency and other measurement parameters, to adapt to a wide range of survey conditions and requirements. An independent reference channel facilitates drillhole and underground work, and guarantees transmitter-receiver synchronization in high-noise conditions.

Highly accurate. With a frequency bandwidth of 100 Hz and noise-cancelling digital signal stacking, the M-4 delivers very precise results. The details are summarized in a table overleaf.

Sensitive. The same features that make the M-4 accurate allow detection of very weak signals. The Huntec receiver requires lower transmitter power than any other, for a given set of operating conditions. Automatic correction for drifts in self-potential and gain allow long stacking times for significant signal-to-noise improvements.

Intelligent. Under the control of a powerful 16-bit microprocessor, the M-4 calibrates and tests itself between measurements. Coded error messages, flashed onto the display, inform the operator of any malfunction.

The M-4 Receiver is complemented by Huntec's new M-4 transmitters, which offer precisely timed constant-current output and both time and frequency domain waveforms, compatible with the receiver's accuracy and multi-mode measurement capabilities. The RL-2 Reference Isolator connects any IP transmitter to the receiver's reference channel. The GeoDataBase field computer reads, stores and processes data from M-4 cassettes.

Contact Huntec for more information on the benefits offered by the M-4 product line.

FEATURES

- Time and Frequency domain IP and Complex Resistivity operation
- Simultaneous Time domain and Complex Resistivity measurement
- Automatic calibration
  - gain setting
  - SP cancellation
  - fault diagnosis
  - filter tuning
- Independent reference channel for drillhole and underground work
- 33 quantities, displayable on large 3½ digit low-temperature liquid-crystal readout
- Analogue meter for source resistance measurement
- 10^9 ohms differential input resistance
- 8 hours continuous operation with replaceable, rechargeable nickel-cadmium battery pack (2 supplied)
- Optional Cassette DataLogger fits inside case, has read-after-write error checking. Up to 350 stations per tape.
- Conveniently packaged for backpacking or hand carrying
- 100 Hz bandwidth, fine time-resolution
- Advanced digital signal stacking
- Delivers reliable, accurate data in noisy, highly conductive areas.

huntec
(70) LIMITED

25 Howden Road,
Scarborough,
Ontario, Canada
M1R 5A6
Phone: 751-8055
Telex 06-963640
Cable: Huntec,
Toronto

SPECIFICATIONS

Inputs

Signal Channel

Range: $5 \times 10^{-[illegible]}$ to 10 volts. Automatic ranging. Overload indication

Resistance: Greater than 10^9 ohms differential

Bandwidth: 100 Hz

SP Cancellation: −5 to +5 volts (automatic)

Protection: Low-leakage diode clamps, gas discharge surge arrestors, replaceable fuses.

Reference Channel

Level: 500 mV minimum, 10 volts peak maximum, overload indication

Resistance: 2×10^9 ohms differential

Controls and Functions

Operating Controls

Keypad: 16 keys, calculator format, function associated with each key.

Reference Registers: Keypad may be used to store up to ten 3½ digit numeric values with floating decimal point, to represent station number, line number, operator, time, date, weather, transmitter current, etc. for recording on cassette.

Programming Controls

Sub-panel: All programming controls are on a covered sub-panel, not accessible during normal operation.

Thumbwheel Switches: Select delay time t_D in milliseconds, chargeability window t_p in milliseconds; operating frequency; PFE frequency ratio.

Displayable Quantities

Time domain: Primary voltage; self-potential; chargeability (total or each of 10 windows of equal width); phases of odd harmonics 3 to 15; amplitudes of odd harmonics 1 to 15; cycle count; repeating display of polarization potential and total chargeability.

Freq.domain: Primary amplitude; Percent Frequency Effect; self-potential; cycle count.

Complex Resistivity: Phases of odd harmonics 3 to 15; amplitudes of odd harmonics 1 to 15; fundamental phase (with ref. input); cycle count.

Any mode: Battery voltage, Frequency error.

Outputs

Displays

Digital Display: 3½ digit, low-temperature liquid crystal display. Indicates measurement results and diagnostic error messages.

Analogue Meter: Ohms scale for source resistance; also gives qualitative indication of signal-to-noise ratio.

Cassette DataLogger (Optional)

Description: Accommodated within M-4 chassis. If not acquired with receiver, may be retrofitted by user at any time. Two recording modes:

Partial: All sub-panel settings, measurement results, and contents of reference registers are recorded (2 seconds recording time).

Full: As in partial mode, but also recorded is one cycle of averaged signal waveform (28 seconds recording time). If external reference is used, one cycle of reference waveform is also recorded (60 seconds recording time). Extra memory and software available to average and store the reference waveform for advanced offline resistivity computation.

Format: ANSI/ECMA/ISO standard for saturation recording; 80 bytes/record, all data recorded in ASCII code.

Verification: Read-after-write data verification (automatic)

Mechanical

M-4 Receiver with battery pack: 45 cm x 33 cm x 14 cm, 10.0 kg

M-4 Receiver with battery pack and Cassette DataLogger: Dimensions as above, 11.0 kg

Replaceable Battery pack: 33 cm x 11 cm x 4.5 cm, 3 kg

Environmental

Temperature: Operation: −20°C to +55°C
Storage: −40°C to +70°C

Humidity: Moisture-proof, operable in light drizzle.

Altitude: −1,525 m to +4,775 m

Shock, Vibration: Suitable for transport in bush vehicles.

OUTPUT ACCURACY AND SENSITIVITY

	milliradians	volts	volts	volts	seconds	%
	1 milliradian(1)	1% 40Hz 2% to 80Hz	±1%	±1%	0.1%(2)	0.1%(3) full scale
	0.01 milliradians	$10^{-[illegible]}$ volts	$10^{-[illegible]}$ volts	$10^{-[illegible]}$ volts	$10^{-[illegible]}$ seconds	0.001% full scale

1) Frequency domain mode: at harmonic frequencies up to 15 Hz, increases to not more than 5 milliradians at 80 Hz.
Time domain mode: at harmonic frequencies up to 7.5 Hz, increases to not more than 5 milliradians at 30 Hz.

2) of total OFF time

3) Full scale defined as 100% PFE.

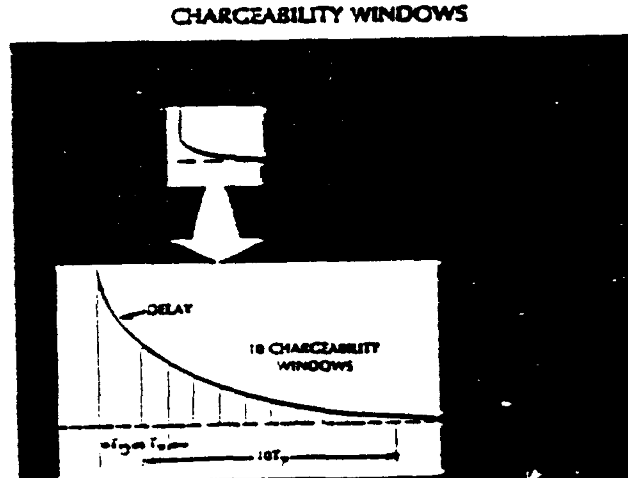
Cassette Data: recorded in ASCII, 9 digits with decimal point fixed for four decimal digits.

Display Data: 3½ digits, floating decimal point

Resolution of averaged waveform limited by A/D converter to one part or 4096 x (square root of cycle count).

Resolution of reference waveform (not averaged) limited by available memory to one part in 256. Additional memory and averaging software available as option.

CHARGEABILITY WINDOWS



NOTES ON IP/RESISTIVITY SURVEYS

General

Induced Polarization (IP)/resistivity surveys are commonly conducted in the time domain and frequency domain, and less frequently, as spectral or complex resistivity measurements. There are a variety of geometrical arrays that can be employed.

The present survey employed time-domain measurements using the dipole-dipole array. Measurements were made with the Huntec Mk IV receiver and 2.5 kw transmitter.

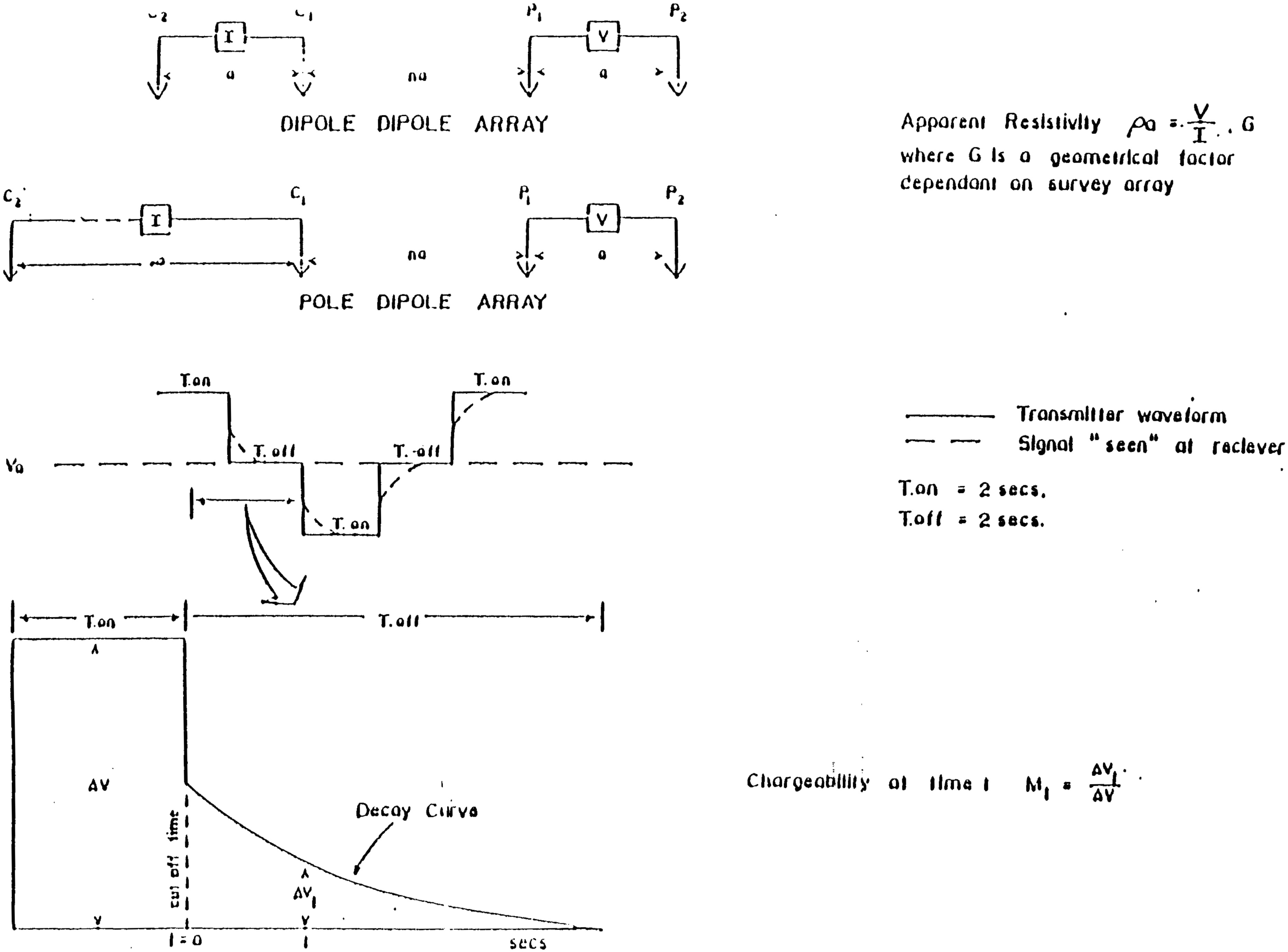
The following discussion sets out in some detail the principles and procedures of the IP method as related to the present survey.

Time Domain Method

As shown in Figure 1, in the time domain a modified, square-wave current consisting of "on/off/on/off" cycles of equal duration is transmitted into the ground through a pair of electrodes (current dipole). The primary (V_p) and secondary (V_s) voltages generated in the ground are measured at another pair of electrodes (potential dipole). The primary voltage, measured during the "on" current cycles, is a function of the electrical resistivity of the ground. The secondary voltage, measured during "off" current cycles, is the IP effect which reflects the amount of polarizable minerals, such as metallic sulphides, graphite, etc., in the ground.

The apparent resistivity of the ground is not directly measured, but is obtained by a mathematical formula utilizing the primary voltage value, the current output from the transmitter at the same instant and a geometrical constant dependent on the array type being used:

$$\rho_a = \frac{V_p}{I} \times aF$$



PRINCIPLE OF TIME DOMAIN I.P.

Figure 1

where: ρ_a = apparent resistivity in ohm-meters

V_p = primary voltage (volts)

I = transmitted current (amps)

a = electrode spacing in meters

F = geometrical factor depending on the electrode array used.

The Huntec Mk IV system measures the secondary voltage or IP effect at 10 time intervals of equal width. The width of the time window (Tp) and the length of the delay (Td) between the start of an "off" cycle and the beginning of the IP measurement are adjustable to suit the conditions of the survey. In the present survey, these were set at 100 msec and 100 msec, respectively, and the IP effect was recorded for each of five individual time windows (M_1, M_3, M_5, M_7 and M_9) and for the total decay voltage (M_T). The secondary voltage divided by the primary voltage yields the parameter chargeability in milliseconds.

The decay curve constructed from the ten chargeability observations is generally in the form of an exponential decay curve. It frequently can be split into two portions - an early fast decay portion and a later slow decay portion. The fast decay portion is generally due to inductive effects, while the later slow decay predominantly reflects true polarization effects. In theory chargeability is the value of the slow decay extrapolated backwards to the instant of transmitter shut-off.

Survey Arrays

A number of different arrays are available for carrying out IP measurements. The ones generally used in mineral exploration are the dipole-dipole, pole-dipole and the gradient array, shown graphically in Figure 2, and described further below.

(1) Dipole-Dipole Array

This array is one of the most commonly used arrays in IP and is the only one used with time-domain, frequency-domain and spectral surveys.

The system employs four moving electrodes with a layout as shown in Figure 2. The two current electrodes C_1 and C_2 and the two potential or measuring electrodes P_1 and P_2 have the same separation, called the 'a' spacing. The interval between the current and potential pair is generally some fixed multiple 'n' of this 'a' spacing. Measurements with the dipole-dipole array are plotted at the mid-point of the array.

As the 'n' value is increased, (i.e., as the current and potential dipoles are moved farther and farther apart), this has the effect of increasing the depth of exploration. While this is typically quoted as being one half of the total array length, actual depth of exploration is strongly dependent on the distribution of resistivity in the ground and is often much less than half the array length, particularly if conductive overburden is present.

Advantages

1. The system has low inductive coupling because the current wires and reading wires can be kept separated.

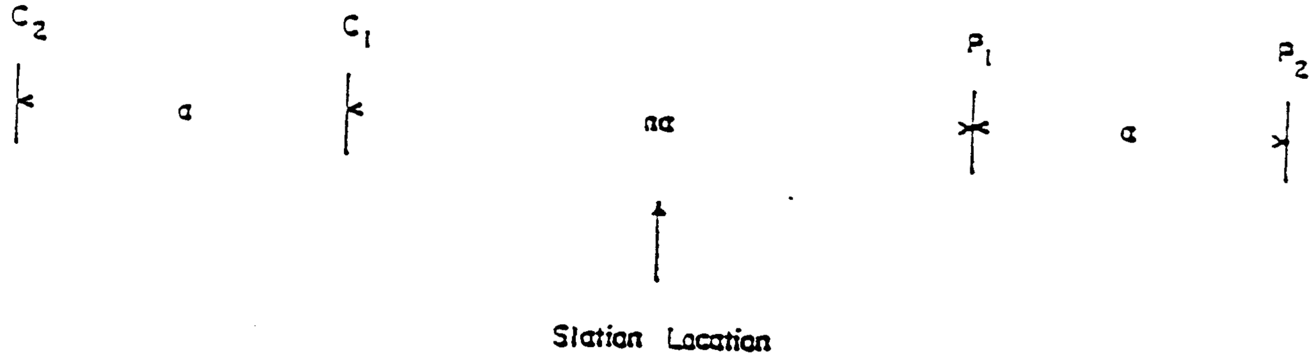
2. Anomalies are symmetrical.

3. Sensitivity and resolution are good where 'a' and 'n' are chosen appropriately relative to the target dimensions and depth.

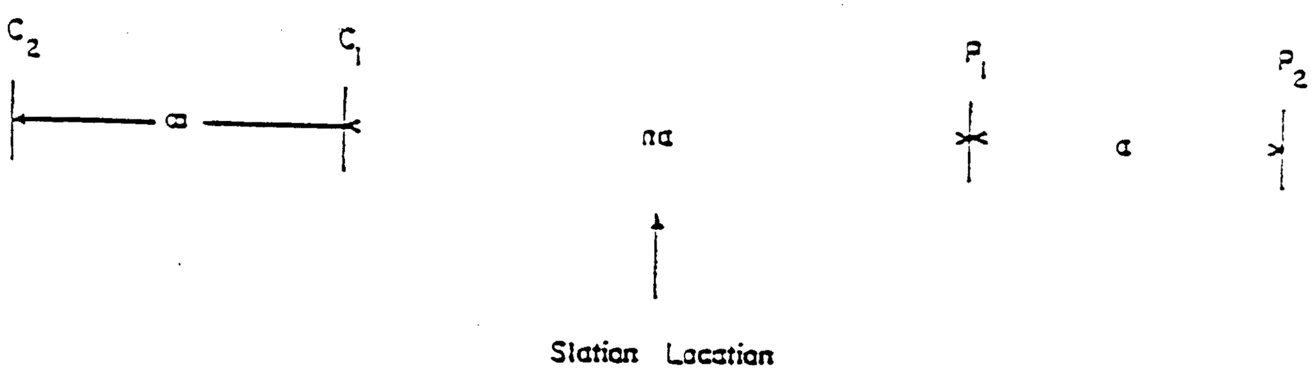
Disadvantages

1. Operations can be slow since all four electrodes are moved along the survey line.

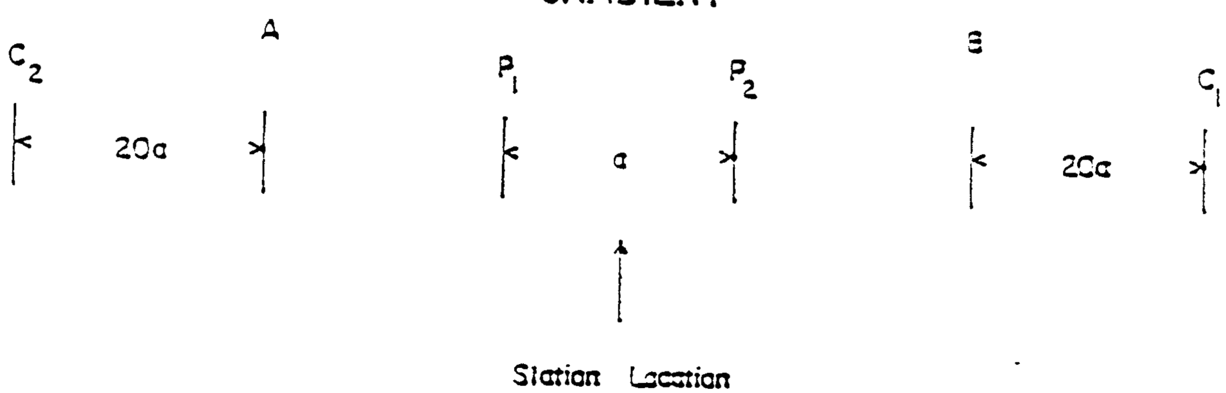
DIPOLE-DIPOLE



POLE-DIPOLE



GRADIENT



A,B = extent of survey

I.P ARRAYS
Figure 2

2. Electrical contact can be especially difficult in areas with highly resistive surficial materials, such as dry sand, permafrost or exposed bedrock.

3. Primary (V_p) and secondary (V_s) voltages are lower than with other arrays which can cause measurement difficulties and lack of penetration in areas of high surface conductivity.

(2) Pole-Dipole Array

The pole-dipole (or three electrode) array is frequently used, most often in the time-domain.

Electrodes C_1 and P_1-P_2 move along the survey line. While C_2, the remote current electrode, can be anywhere in the area provided it is at a large distance from the station being measured (In highly conductive ground the actual location of C_2 may be critical as current paths may be adversely distorted). The separation between C_1 and P_1P_2 can be increased, usually at integral intervals, to achieve varying depths of exploration. Readings are plotted in several conventions between the potential dipole and the active (moving) current electrode.

Advantages

1. Faster than the double-dipole array since only three electrodes are moved.

2. In areas of bad contact, i.e. dry, frozen or outcrop areas, it is easier to use than dipole-dipole since only one current electrode has to be moved.

3. Better depth of exploration than the double-dipole array.

4. Fairly sensitive and fairly good resolution.

Disadvantages

1. Yields asymmetrical anomalies with the anomaly peak seldom directly over the polarizable source. The anomaly shape is dependent on the direction of C_2.

2. More wire is needed because of the array length; this leads to logistical problems (moose, rabbits, etc.).

3. EM coupling is higher than with the dipole-dipole array.

Gradient Array

In the gradient array, normally only run in the time domain, two current electrodes are placed a large, fixed distance 'D' apart. The potential electrode pair are held at a constant separation 'a' and move along survey lines parallel to the line joining C_1 and C_2. The separation between P_1 and P_2 is not rigidly specified but should not be greater than D/10. Greater resolution is attained with a shorter 'a' spacing, but at the cost of lower primary and secondary voltages.

Generally, survey coverage is restricted to an area comprising the middle 1/3 of C_1C_2. The measurement is plotted at the midpoint of the potential dipole.

Advantages

1. Depth of exploration is good whilst retaining high resolution for small bodies; least susceptible to the masking effect of conductive overburden.

2. Production is fast since only two electrodes are moved; two or more receivers can be used simultaneously.

3. Less hazardous since current electrodes are not handled in moving stations.

4. Least affected by topographic variations.

5. Useful in areas of high resistivity or in frozen terrain, since fixed current electrodes can be located where electrical contact is good, or carefully built to achieve good contact.

6. Can indicate dip of simple targets.

Disadvantages

1. Not practical where long profiles are desired or where survey lines are a long way apart.

2. Low V_p and V_s make the method difficult to impossible in areas of high conductivity.

3. High inductive effect is created by large current dipole.

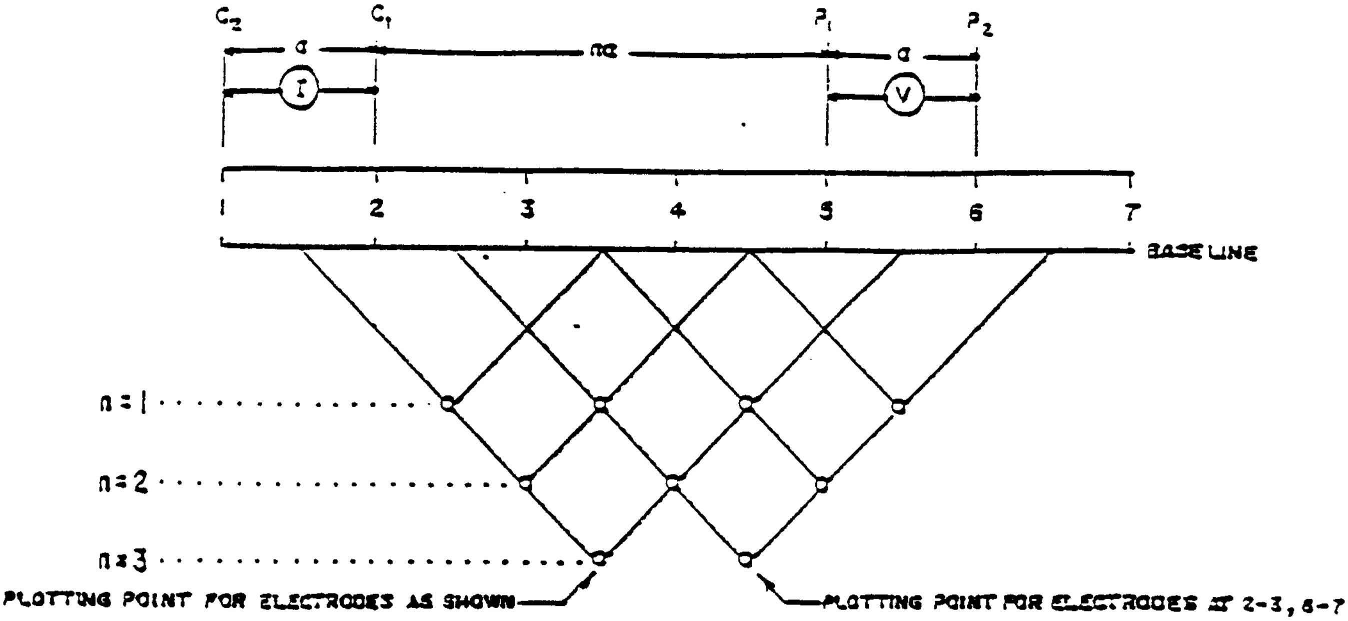
4. Narrow conductive bodies in conducting environment can sometimes produce false resistivity highs.

5. Not readily amenable to detailed interpretation as to depth of source.

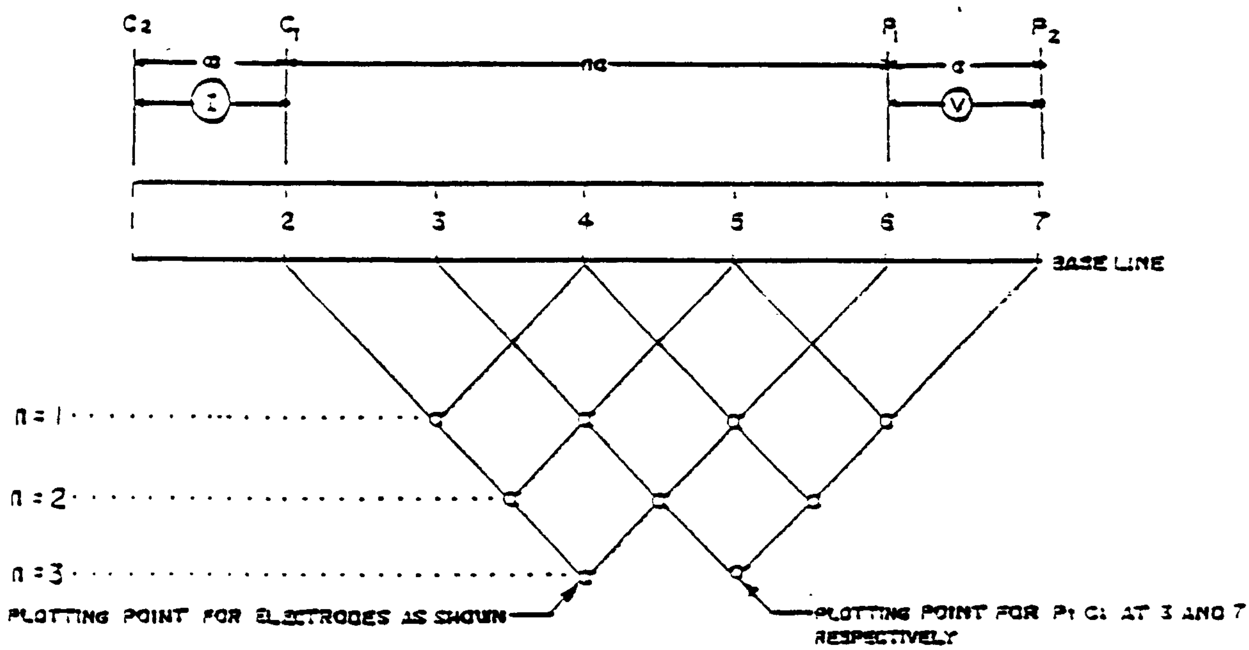
The relative performance of the different arrays in terms of various survey and target parameters is summarized in Table 1.

Presentation

Induced Polarization/resistivity data taken with a multi-spaced dipole-dipole array are generally plotted as pseudosections with each measurement plotted at the intersection of a 45° diagonal drawn from the center of the transmitting and receiving dipoles for each value of the separation, as seen in Figure 3. Plotting in this manner builds up a vertical section of data points. The term pseudo-



DIPOLE DIPOLE ARRAY



POLE DIPOLE ARRAY

Figure 3

PLOTTING POINTS FOR VARIOUS ARRAYS