GEOLOGICAL, GEOCHEMICAL and GEOPHYSICAL REPORT

on the

CUT 1 to 23 MINERAL CLAIMS
CUTOFF PROPERTY

Omineca Mining Division
British Columbia

NTS 93F10
53°40'N Latitude
124°52'W Longitude

by

P.E. Fox., Ph.D., P.Eng.

FOX GEOLOGICAL SERVICES INC.
#1409 - 409 Granville Street
Vancouver, BC V6C 1T8

Work paid for by
PHELPS DODGE CORPORATION OF CANADA, LIMITED

November 1, 19[illegible]

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SUMMARY

The Cutoff Property consists of 23 claims, located 70 kilometres southwest of Vanderhoof in central British Columbia. Access from Vanderhoof is via the Kenney Dam Forest Service and Nechako Reservoir Roads. A series of secondary roads provides good access to all portions of the property. Exploration by various workers, dating from 1984, has resulted in the discovery of the Trout, Stubb Bay and Quartz Lake prospects.

The claims are underlain by compositionally assorted volcanic flow, pyroclastic, volcaniclastic and minor sedimentary rocks belonging to the Hazelton, Kasalka, Ootsa Lake and Endako Groups. Small felsite stocks cut the volcanic units. The property lies on the Trout Lake Lineament, a major structure that trends northeasterly through the property and along which many of the mineralized occurences are located. Gold mineralization has been found in three areas of the Cutoff Property. The most significant occurrence is theTrout Prospect, which has returned up to 3.2 gpt gold over 22 metres in drill core and is surrounded by lower grade mineralization for over 100 metres. The Stubb area comprises a number of small mineralized occurrences, a few of which host subeconomic gold tenors in narrow structural zones. Float found in the Little Quartz Lake area has returned high tenors of gold (+1 opt) in altered, quartz stringered rhyolite. Prospecting to date has failed to find a local source area for this high grade material.

The 1996 work program, conducted between August 5 and September 6, focused on the Little Quartz Lake and Trout areas and entailed geological mapping, prospecting, geochemical and geophysical surveys. Elevated gold concentrations in rock float and soils surrounding Little Quartz Lake were followed-up by an Induced Polarization survey and extension of the soil grid to the northeast. Work on the Trout Prospect consisted of mapping, rock sampling and an Induced Polarization survey. Drill core from previous drill campaigns was relogged and all drill data was entered into a computer database (PC-Explor) to assist in interpretation. The Trout Deposit has been determined to be open along strike to the northwest where the host silica-adularia altered breccia is concealed by a thick mantle of till for several hundred metres. Rock samples collected during 1996 indicate that gold mineralization may continue for 300 metres in this direction.

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INTRODUCTION

This report details an exploration program conducted on the Cutoff property between August 5 and September 6, 1996. Work done was localized in the Little Quartz Lake and Trout areas and consisted of grid preparation, rock and soil sampling, geological mapping, Induced Polarization surveys, relogging and computer compilation of drill data. Results of this work are tabulated herein.

LOCATION, ACCESS AND PHYSIOGRAPHY

The Cutoff property is located approximately 70 kilometres southwest of Vanderhoof in central British Columbia. It is situated on the Nechako Plateau, part of the Interior Plateau of the Canadian Cordillera, between Knewstubb Lake and the Nechako River (Figure 1). The claims are centred at 53°40' north latitude and 124° 52' west longitude.

Access to the property is obtained by travelling southwest from Vanderhoof along the Kenney Dam Forest Service Road to the Nechako Reservoir Road, which trends easterly through the southern claims. A series of secondary roads provides access to the north and south portions of the property.

Topography is gentle, with isolated low-lying hills dissected by the northeasterly drainages of Cutoff and Swanson Creeks and numerous subsidiary creeks. Several small lakes are present and swampy ground is common. Elevations range from approximately 850 metres along the shoreline of Knewstubb Lake to a high of 1,070 metres on the north slope of Cutoff Butte.

CLAIM INFORMATION

The Cutoff property consists of twenty-three modified grid claims, totalling 383 units, recorded in the Omineca Mining Division and shown on NTS map sheet 93F/10 (Figure 2). All claims are in good standing and appear to have been staked in accordance with the mineral act. Claim details are set out below.

The Cut claims have been grouped into five claim groups: Cut 96-1, Cut 96-2, Cut 96-3, Cut 96-4 and Cut 96-5. Expiry dates tabulated below assume that current work is accepted for assessment purposes.

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CLAIM DATA			
Claim Name	**Tenure No.**	**Units**	**Expiry Date**
Cut 1	313251	20	Sept. 4, 1998
Cut 2	313252	20	Sept. 4, 1998
Cut 3	313253	15	Sept. 4, 1998
Cut 4	313828	20	Sept. 25, 1998
Cut 5	315029	16	Dec. 3 1998
Cut 6	314671	15	Nov. 13, 1998
Cut 7	314672	16	Nov. 13, 1998
Cut 8	314673	18	Nov. 14, 1998
Cut 9	314674	18	Nov. 7, 1998
Cut 10	314675	9	Nov. 6, 1998
Cut 11	314676	15	Nov. 6, 1998
Cut 12	314677	18	Nov. 7, 1998
Cut 13	314678	18	Nov. 14, 1998
Cut 14	314679	20	Nov. 8, 1998
Cut 15	314680	20	Nov. 8, 1998
Cut 16	314681	20	Nov. 8, 1998
Cut 17	314682	8	Nov. 7, 1998
Cut 18	314683	20	Nov. 5, 1998
Cut 19	314684	20	Nov. 5, 1998
Cut 20	314685	20	Nov. 8, 1998
Cut 21	319031	4	July 1, 1999
Cut 22	319032	18	July 1, 1999
Cut 23	338991	15	August 4, 1999

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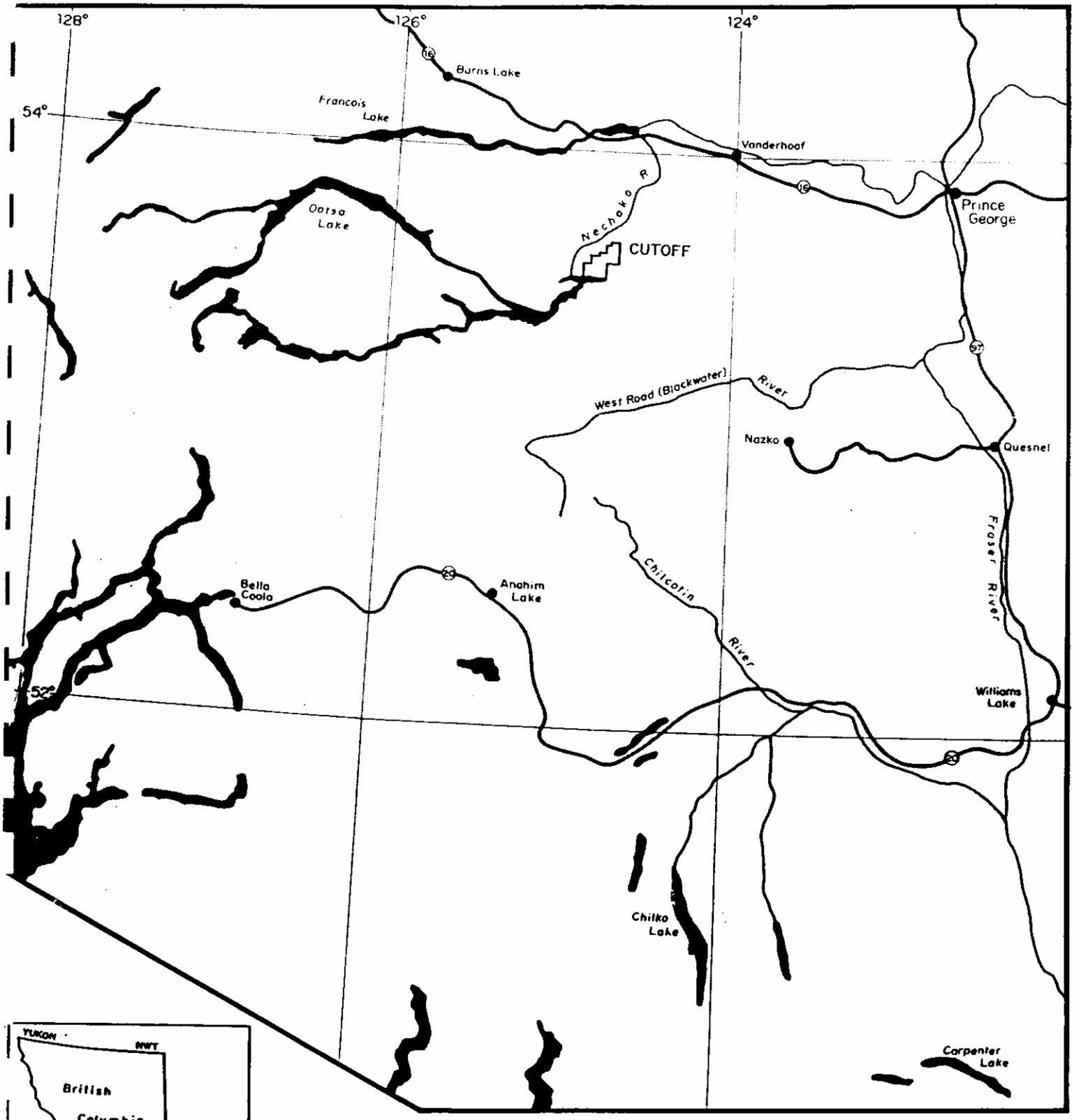
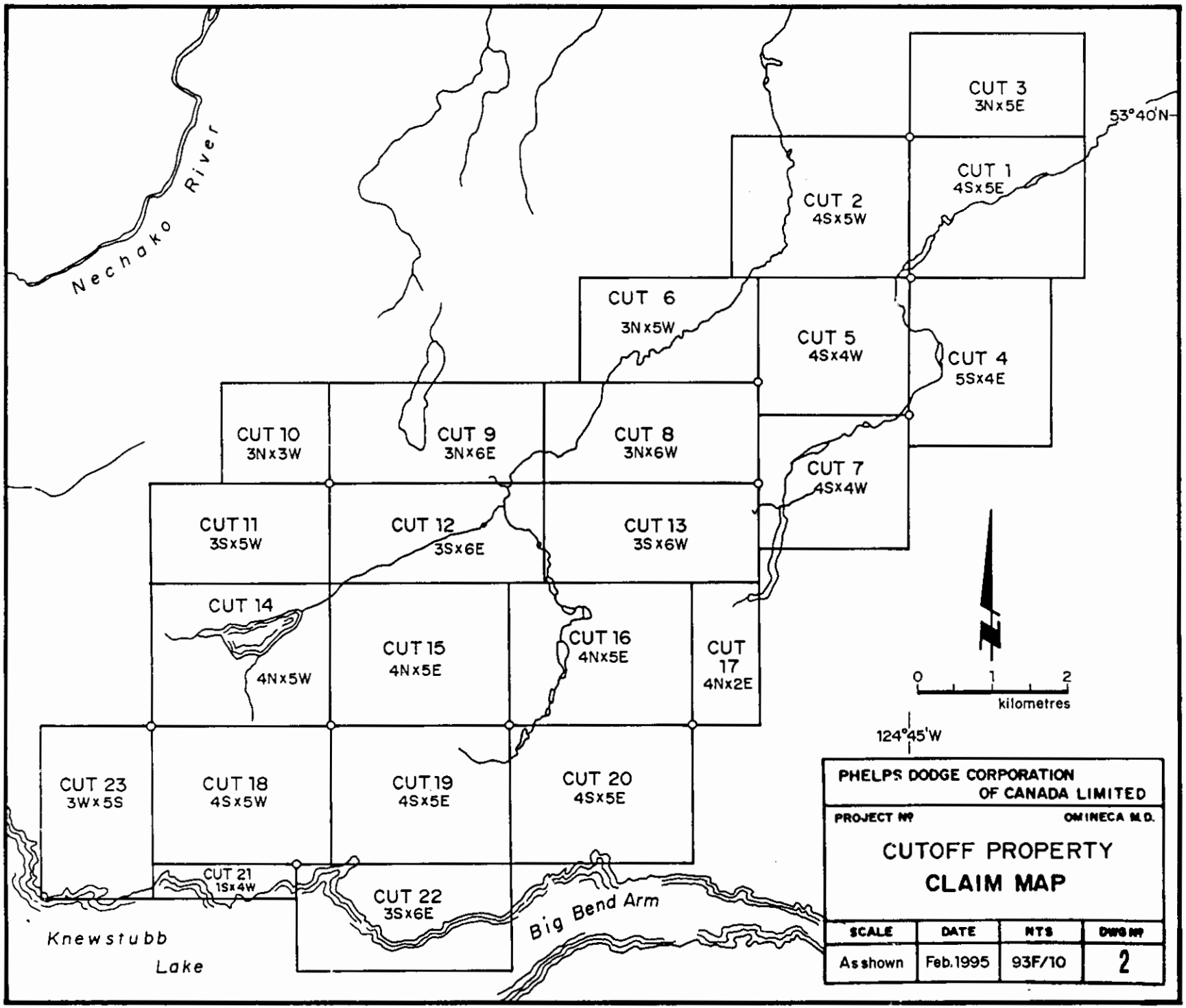


PHELPS DODGE CORP. OF CANADA LTD.			
PROJECT Nº 140		OMINECA M.D.	
CUTOFF			
LOCATION & ACCESS			
Fox Geological Consultants Ltd.			
SCALE	DATE	NTS	Dwg Nº
1:2,000,000	Jan. 1995	93F/10	1


CUT 3
3N x 5E
CUT 1
4S x 5E
CUT 2
4S x 5W
53°40'N
Nechako River
CUT 6
3N x 5W
CUT 5
4S x 4W
CUT 4
5S x 4E
CUT 10
3N x 3W
CUT 9
3N x 6E
CUT 8
3N x 6W
CUT 7
4S x 4W
CUT 11
3S x 5W
CUT 12
3S x 6E
CUT 13
3S x 6W
CUT 14
4N x 5W
CUT 15
4N x 5E
CUT 16
4N x 5E
CUT 17
4N x 2E
0 1 2
kilometres
124°45'W
CUT 23
3W x 5S
CUT 18
4S x 5W
CUT 19
4S x 5E
CUT 20
4S x 5E
CUT 21
1S x 4W
CUT 22
3S x 6E
Big Bend Arm
Knewstubb
Lake
PHELPS DODGE CORPORATION
OF CANADA LIMITED
PROJECT Nº
OMINECA M.D.
CUTOFF PROPERTY
CLAIM MAP
SCALE
DATE
NTS
DWG Nº
As shown
Feb. 1995
93F/10
2

HISTORY

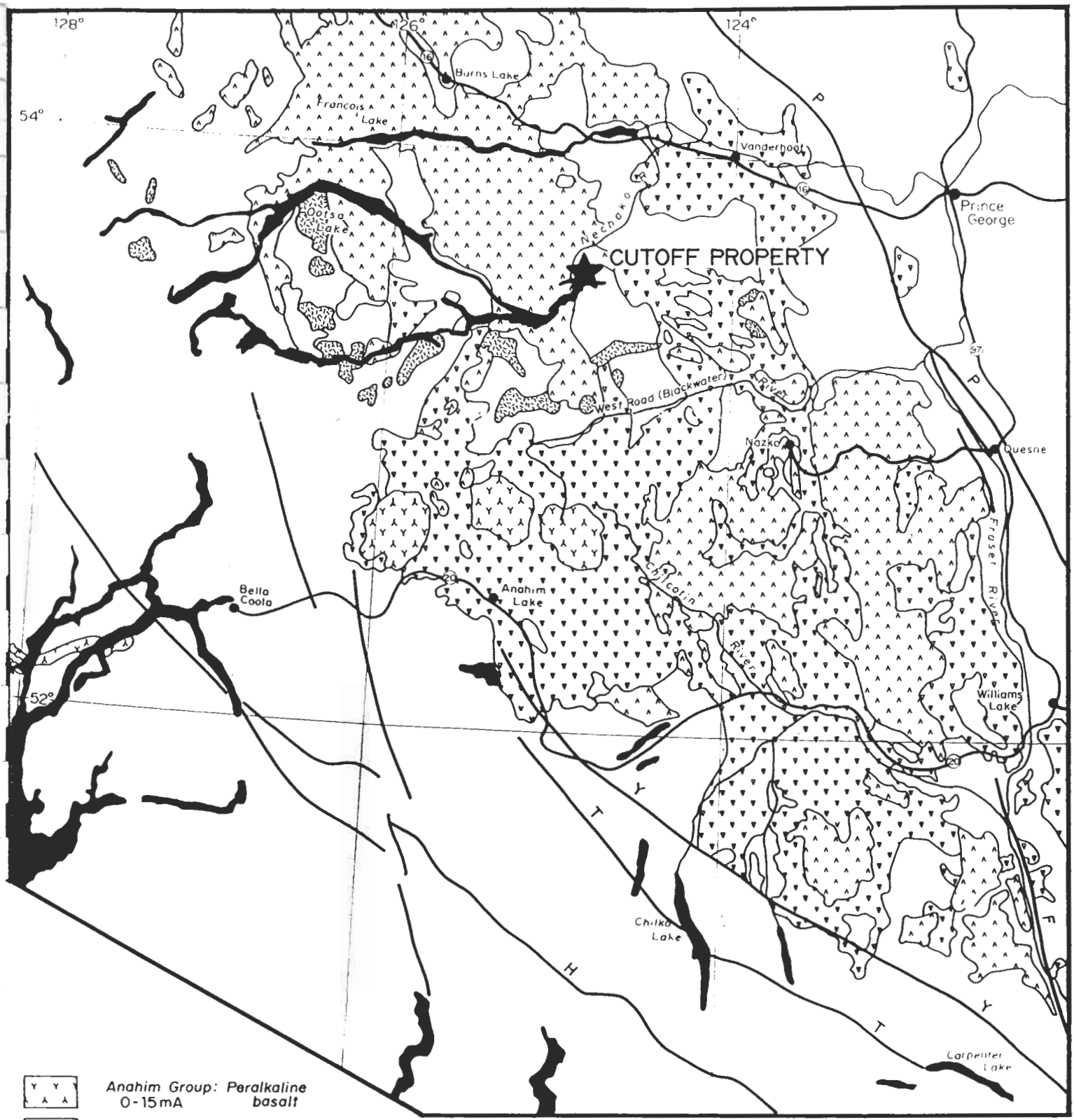
Mineralization in what is now known as the Trout Showing (Cut 1 claim) was first discovered during a regional reconnaissance program conducted by Kerr Addison Mines Ltd. in 1984. Work conducted during the 1980's by Kerr Addison and later by Welcome North Mines and Goldrite Mining Corp. included soil sampling, magnetometer and induced polarization surveys, trenching, 20 diamond drill holes and 13 reverse circulation holes, all on the Trout prospect. Drill intersections returned up to 3.8 gpt gold over 20 metres in hole RDH 87-3, however, subsequent attempts to extend the mineralized zone were a disappointment and the project was abandoned.

Cogema Resources staked the Cut claims in 1993 over the Trout prospect area and a sizeable block of unexplored ground along strike to the southwest. During 1993 and 1994, Cogema performed airborne and ground geophysical surveys, till sampling, geological mapping and prospecting. Their work resulted in the discovery of several new prospects. Extensive trenching and 9 diamond drill holes explored the Stubb area, 11 diamond drill holes were collared in the Trout Prospect.

Phelps Dodge Corporation of Canada, Limited performed geological mapping, prospecting, grid extension and soil sampling. Encouraging concentrations of gold were obtained from soils and rock float (up to 1.7 gpt) collected from the Little Quartz Lake area.

REGIONAL GEOLOGY

The Cutoff property is located in the Interior Plateau of British Columbia, within the Intermontane Belt, which consists of late Palaeozoic to late Tertiary sedimentary and volcanic rocks belonging to the Stikinia, Cache Creek and Quesnellia Terranes. The claims lie in the Nechako Arch, near the eastern edge of the Stikine Terrane which locally consists of three volcanic-stratigraphic groups ranging in age from upper Cretaceous to Miocene (Figure 3). The oldest of these, Eocene and possibly Oligocene Ootsa Lake Group rocks, consist of rhyolitic to dacitic tuff, flows and breccias with minor amounts of andesite, basalt, conglomerate and tuffaceous shale. Pliocene to Pleistocene Chilcotin group vesicular andesite and basalt flows, breccias and cinder cones conformably overlie the Ootsa Lake Group. An arcuate belt of Paleocene Nanika and Quanchus quartz monzonite and granite intrudes Ootsa Lake Group and older rocks. Pre-Tertiary rocks include lower Cretaceous Skeena Group, an assemblage of easterly derived back arc clastics, middle Jurassic Hazelton Group alkaline to calc-alkaline volcanics and volcaniclastics and granitic rocks of the Jurassic to Cretaceous Coast Plutonic Complex.



Anahim Group: Peralkaline basalt 0-15mA

Chilcotin Group: Backarc alkaline/tholeiite basalt 2-10mA

Nanika, Quanchus Intrusives: Quartz monzonite, granite 60mA

Ootsa Group: Calc-alkaline felsic volcanics 35-70mA

Pre-Tertiary rocks and Coast Intrusions

Fault — H - Harrison, T - Tchaikazan, Y - Yalakom, F - Fraser, P - Pinchi

Scale 1:2,000,000

0 50 100 km

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PROJECT Nº 205 OMINECA M.D.

CUTOFF PROPERTY
REGIONAL GEOLOGY

Fox Geological Services Inc.

SCALE	DATE	NTS	FIG Nº
1:2,000,000	Sept. 1995	93E/10	3

Chief structural elements of the Nechako Arch are northwest and easterly-trending faults that develop a number of faulted bedrock segments. Uplift of the Arch probably took place along these faults leaving thick volcanic complexes, the Cheslatta and Mount Dent Complexes respectively, to the north and south. Northwesterly faults, typical of the region, appear to have segmented the Nechako Arch into northwest-striking basin and range-type terranes.

PROPERTY GEOLOGY

The Cutoff property is underlain by volcanic, pyroclastic and sedimentary assemblages of upper Jurassic to Eocene in age, which generally trend northeasterly and dip gently west (Figure 4). The Trout Lake Lineament, a major northeast trending structure which bisects the claims, locally offsets lithologies. The area south of the Trout Lineament is dominated by Kasalka Group (uKv) rocks, which extend from the Trout Showing in the northeastern portion of the property, southwesterly to Stubb Bay. This sequence of rocks consists of lapilli tuff, andesite and flow breccia. Andesite, which dominates in the north, is light green to dark grey, moderately magnetic and locally vesicular with feldspar, hornblende and augite phenocrysts. Thick sequences of maroon to green, monolithic lapilli tuff are intercalated with the flows. Lapilli are angular to subrounded fragments of andesite porphyry, up to 5 centimetres in size. Kasalka rocks in the vicinity of Stubb Bay are largely sedimentary, consisting of poorly sorted pebble to cobble conglomerate, pebbly sandstone, sandstone and siltstone. Weak to moderate propylitic, clay or ankeritic alteration, and/or weak to strong silicification occur locally.

The eastern portion of the property is underlain by Hazelton Group rocks (uJv). This sequence consists of tuff, breccia, flows and intrusive units and interbedded sedimentary rocks. Maroon to mottled cream and green rhyolite and minor intercalated dacite predominate. Rhyolite contains feldspar and quartz phenocrysts and often displays flow banding. Thick sequences of lapilli tuff with lesser tuff and tuff breccia are intercalated with rhyolite flows. Angular blocks up to 2 metres in diameter were observed within some of the tuff breccia units. Black, silty argillite, greywacke, sandstone and minor conglomerate are interbedded within tuff horizons.

Ootsa Lake Group felsic volcanics and volcanic sediments (Eov) outcrop in the southwest, along the shore of the Nechako reservoir. Typical of these rocks are cream to yellow and maroon coloured, porphyritic rhyolite flows, flow breccia, ash and lapilli tuff, scoria and pumice. Rhyolitic flow rocks contain rounded quartz phenocrysts up to 3 millimetres in size and are locally flow banded. Distinctive grey to brown, vitreous rhyolite porphyry outcrops along a series of northeasterly elongate ridges located near Little Quartz Lake. Ootsa Lake rocks are locally vuggy, strongly clay altered and

silicified, and exhibit intense orange, red, and yellow stain, drusy quartz coatings on fracture/joint surfaces and zeolite-rich vesicles.

Endako Group basalt (EEb) with minor andesite, flow breccia and associated sedimentary rocks underlie the area northwest of the Trout Lake Lineament and, south of the fault, form a broad apron overlying Kasalka rocks in the central claim area. These rocks form prominent cliffs and mesas and comprise dark grey and black vesicular basalt flows commonly infilled with zeolite, siderite and chalcedony. Flows contain rounded olivine and feldspar phenocrysts set in a black, vitreous matrix. Columnar jointing is common throughout. Intercalated sedimentary rocks consist of white to beige fossiliferous siltstone, tuffaceous sandstone and conglomerate.

A series of grey to mottled pink, fine to medium grained feldspar porphyry sills, dykes and small plugs (Efel) lie along the Trout Lake lineament extending from Stubb Bay through to the Trout Showing.

MINERALIZATION

Mineralized showings on the Cutoff property occur along or near the Trout Lake Lineament, that extends northwesterly from Stubb Bay to the Trout Showing. The prospect areas which are currently of interest are the Trout, Little Quartz Lake and Stubb Bay showings (Figure 4).

The Trout prospect is located on the Cut 1 claim at the northeast end of the property. It lies in a porous, moderatly-dipping polymictic breccia/conglomerate unit of the Kasalka Group. Gold mineralization is associated with fine-grained silica forming veins, fracture coatings, breccia matrices and intergranular fillings. Past work indicates that the highest gold tenors, up to 19 gpt over 5 metres and 3.8 gpt over 20 metres, occur in a clast-supported conglomerate rich in banded quartz, adularia and chalcedony. Drilling on the Trout showing has established the presence of gold mineralization of good grade and width in the immediate vicinity of the discovery outcrop and of lower grade within an area measuring approximately 100 by 150 metres and to a depth of about 120 metres. To the southeast, the lower limit of the mineralization seems to be a fault, which separates the Kasalka group rocks from the Hazelton Group basement. The Trout prospect is open along strike to the northwest and to depth.

The Stubb Bay showings include a series of exposures on the west shore of Stubb Bay extending along a structurally controlled valley between Stubb Bay and Stubb Lake. The Stubb mineralization occurs in propylitized, strongly silicified and carbonatized, pyritic andesite porphyry and small bodies of granodiorite. Gold mineralization is

associated with quartz veins, stringers, stockworks and quartz breccia structures that dip 45° to 60° to the northwest.

The Quartz Lake area comprises Ootsa rocks exposed on low ridges between Stubb Bay and Fish Lake. Ootsa rocks here are predominantly rusty weathering, bleached and iron-stained rhyolite locally filled with drusy quartz veinlets and breccia. Rock samples, largely from locally-derived float, returned up to 1.6 gpt gold scattered over a distance of 2,000 metres along the trend of the Trout Lake Lineament.

1996 WORK PROGRAM

The 1995 field program, conducted between August 5 and September 6, focused on evaluating the Little Quartz Lake and Trout areas. A total of 47 mandays was expended by a six man crew camped at Nechako Lake. Work done included grid extension, soil sampling, geological mapping, rock sampling, and Induced Polarization surveys.

Geological mapping and prospecting were done in both the areas of interest. Property Geology (Figure 4) is compiled at a scale of 1:20,000 and detailed geology of the Trout Prospect (Figure 6), modified after T. Richards (Aug. 1993), is compiled at 1:100. A total of 61 rock samples was collected and sent to Acme Analytical Laboratories Ltd. for multi-element analysis. Rock sample locations are included in Figures 5 and 6.

Exploration to date on the Trout Prospect has included 31 diamond and 13 reverse circulation holes, drilled in four separate drill campaigns (1985, 1987, 1990 and 1995) and logged by four different companies. To augment the current understanding of the Trout mineralization, diamond drill core from this prospect was relogged. Lithologies were re-named to provide for consistency between drill programs and all structures were noted. Drill hole locations are shown in Figure 6 and core re-logs constitute Appendix IV. All Trout drill logs were entered into a geological database (PC-Explor).

The 1995 soil grid was extended to the northeast to include two new grid lines (11000N and 11400N)), with three hundred-metre spacing, between Stubb Lake and Fish Lake. A total of 590 metres of new grid was established, from which 112 soil samples were collected at 50 metre intervals. Samples were obtained from the "B" horizon, where possible, stored in paper sample bags, tagged with a unique number and submitted to Acme Analytical Laboratories Ltd. in Vancouver, B.C. for analyses. Each sample was screened and an 80 mesh fraction analyzed for 34 elements by ICP techniques and for gold by geochemical atomic absorption analysis. Field notes detail location,

topography, type and colour of material. Grid and sample locations are shown on Figure 7.

Peter E. Walcott & Associates were contracted to perform Induced Polarization surveys on two separate grids. Five lines of new grid (9400E, 9600E, 9800E, 9900E and 10000E) and a short baseline were established in the Trout area. In an attempt to gain additional information, line 9800E was surveyed twice, in opposing directions. The reverse line is labelled 9801E. Surveying in the Litte Quartz Lake area was done over segments of four established lines (9900N, 10200N, 10500N and 10800N) in the Stubb Grid. The total amount of Induced Polarization surveying done amounted to 10.2 line-kilometres. The IP grids are shown in Figure 5 and pseudosections are included as Figures 9a through 9j.

RESULTS

Little Quartz Lake

Soil sampling detected maximum concentrations of 51 ppb gold and 157 ppb silver, contained in a sample collected just south of Stubb Lake. One other sample, collected 1.9 kilometres to the northwest, returned elevated gold (21 ppb) and a nearby sample contained 62 ppb silver and 115 ppb mercury. All other samples contained background concentrations for all elements of interest. Soil geochemical ranges are tabulated below and results for gold and silver comprise Figure 8.

SOIL GEOCHEMICAL RANGES								
Au (ppb)	**Ag (ppb)**	**As (ppm)**	**Hg (ppb)**	**Sb (ppm)**	**Cu (ppm)**	**Pb (ppm)**	**Zn (ppm)**	**Mo (ppm)**
1-51	30-157	0.7-7.8	10-115	0.2-1	3.4-33.1	2.7-7.7	24-205	0.3-2.1

A total of 31 rock samples were collected from the Stubb Grid area. Of the 8 bedrock samples, all rocks with gold concentrations in excess of 20 ppb were collected from the Stubb North Showing. The best sample contained 3.36 gpt gold and 1.85 gpt silver. Samples collected from a boulder field located 1 kilometre northwest of the Stubb North returned <1 to 4700 ppb gold and 4089 ppb silver. Geological mapping and prospecting in the Little Quartz Lake-Stubb Bay area did not reveal any new areas of mineralization.

0 1000 metres

KENNEY DAM ROAD

FISH LAKE

L 108 N
L 105 N
L 102 N
L 99 N
L 96 N
L 93 N
L 90 N
L 87 N
L 84 N
L 81 N

3100
3000
2900
2800

925E
950E
975E
1000E
1025E
1050E
1075E
1100E

L 130 N
L 128 N
L 126 N
L 124 N
L 122 N

11+00N
10+00N
105N
100N

APEX BAY

STUBB BAY

CREEK FLOWING

SYMBOLS

1996 Gridline

1996 Soil sample site and number

1995 Grid

1994 Grid

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CUTOFF PROPERTY

SOIL SAMPLE LOCATIONS

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Scale	Date	NTS	Fig. No.
1:20,000	Oct. 1996	93F/10	7

0 1000
metres

FISH LAKE

KEMANO DAM ROAD

Au (ppb) Ag (ppb) Au (ppb) Ag (ppb)

L 108 N
L 105 N
L 102 N
L 99 N
L 95 N
L 93 N
L 90 N
L 87 N
L 84 N

3100
3000

92E
95E
105E
115N
120N
110N
105N
100N
L 130 N
L 128 N
L 126 N
L 124 N
L 122 N
B/L 030°

GRID EASTING

STUBB BAY

APEX BAY

LEGEND

Ag (ppb)
no sample
Au (ppb)

KNEWSTUBB LAKE
(NECHAKO RESERVOIR)

PHELPS DODGE CORP. OF CANADA LTD.

Project No. 248 — OMINECA M.D.

CUTOFF PROPERTY
SOIL SAMPLE RESULTS
GOLD & SILVER

Fox Geological Services Inc.

Scale	Date	NTS	Fig. No.
1:20,000	Oct. 1996	93F/10	8

Induced Polarization responses were very low. Chargeabilities show little variation, ranging only slightly above background at 2.5 to 3.0 mV/V. Minor variations appear to reflect lithological changes. Apparent resistivities are unusually low, generally less than 100 ohm-m.

Trout Prospect

Geological mapping and core re-logging provided a much better understanding of the lithological and structural controls to mineralization in the Trout Deposit. It is now believed that the silica-adularia altered breccia unit hosting the Trout Prospect trends to the northwest where it is open along strike, concealed by a thick mantle of till for several hundred metres. The unit is 700 metres wide in the southeast, widening to 2 kilometres or more in the northwest. Bedock samples collected along trend of the Discovery outcrop all contained anomalous concentrations of gold (122 to 15880 ppb) and silver (1134 to 66435 ppb) over a total distance of 3.6 kilometres. Two samples (61692, 61693) of silicified polylithic breccia with banded quartz coating fragments returned 9.9 and 15.9 gpt gold and a sample (61764) of quartz-calcite vein material from a lapilli tuff exposure subcropping 1 kilometre north of the discovery outcrop returned 14.4 gpt gold. Arsenic, which peaked at 156 ppm, appears to occur in higher concentrations in samples with low to moderate gold content. Samples containing greater than 1 gpt gold returned 53 ppm or lower arsenic. Antimony and mercury are present in background concentrations only.

Another area of interest is an outcrop of rhyodacite located 4 kilometres northeast of the Discovery outcrop, which is silicified and brecciated proximal to the Trout Lineament. The three rock samples (61698, 61772, 61773) collected from this outcrop returned 1.5, 0.8 and 1.1 gpt gold with up to 7.5 gpt silver.

Induced Polarization responses in the Trout area are low. A single region of anomalous chargeability was detected, on line 9800E. Other slight variations above background are weak and believed to be inconsequential. Apparent resistivities occasionally rise above 100 ohm-m, at shorter pole-dipole separations, indicating that resistive rocks overly more conductive lithologies.

CONCLUSIONS

The Trout prospect lies in a unique stratigraphic unit which appears to continue for at least 3.5 kilometres, largely covered by a mantle of till. Bedrock samples collected during 1996 indicate that gold mineralization may also continue for at least 3 kilometres to the northwest. Previous drilling has tested only a small portion of this area. Many of

the previous drill holes tested the mineralized area along strike or at an oblique angle, rather than down dip.

DISBURSEMENTS

Expenditures for the 1996 work program on the Cutoff property total $43,864.00 as tabulated below.

Labour		
C. Payne	21 days @ $295/day	6,195.00
B. Terry	15 days @ $225/day	3,375.00
J. Boutwell	5.5 days @ $225/day	1,237.00
L. Payne	9.5 days @ $225/day	2137.00
D. Gagnon	6.5 days @ $225/day	1462.00
A. Butler	1 day @ $225/day	225.00
Accommodation and Board	58.5 mandays @ $60/day	3,510.00
Geophysical Surveys (IP)	10.2 km @ $1055.85/km	10,770.00
Truck	47 days @ $50/day	2,350.00
ATV	37 days @ $25/day	925.00
Laboratory		
112 soil samples	@ $15.45/sample	1,730.00
61 rock samples	@ 19.55/sample	1,192.00
Copies, maps, publications		116.00
Drill log compilation		
C. Ditson	82 hours @ $40/hour	3,280.00
G. Kulla	9 hours @ $40/hour	360.00
Report		5,000.00
TOTAL		**$43,864.00**

Prepared by:

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November 1, 1996

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CERTIFICATE

I, Peter Edward Fox, certify to the following:

1. I am a consulting geologist residing at #902 - 2077 Nelson Street, Vancouver, B.C.

2. I am a Professional Engineer registered in the Association of Professional Engineers and Geoscientists of British Columbia.

3. My academic qualifications are:

   B.Sc. and M.Sc., Queens University, Kingston, Ontario
   Ph.D., Carleton University, Ottawa, Ontario

4. I have been engaged in geological work since graduation in 1966.

Peter E. Fox, Ph.D., P. Eng.
Vancouver, B.C.
November 1, 1996

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APPENDIX I

ANALYTICAL METHOD

Soil Samples

ICP A 15 gram sample is digested with 90 millilitres 3-1-2 HCL-HNo_3 at 95° C for one hour and is diluted to 100 millilitres with water. This each is partial for Mn, Fe, Sr, Ca, P, La, Cr, Mg, Ba, Ti, B, W and limited for Na, K. Ga and Al. The solution is analysed directly by ICP. Mo, Cu, Pb, Zn, Ag, As, Au, Cd, Sb, Bi, Tl, Hg, Se, Te and Ga are extracted with MIBK-Aliquat 336 and analysed by ICP. Elevated detection limits for samples contain Cu, Pb, Zn, As>1500 ppm, Fe>20%.

Au^+ Extracted by aqua-regia/MIBK extract with GF/AA finished.

Rock Samples

A 30 gram sample is treated as above.

APPENDIX II

FIELD NOTES AND GEOCHEMICAL ANALYSES

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CUTOFF PROPERTY

Project 248

FIELD NOTES and SELECTED GEOCHEMICAL RESULTS

SAMPLE	DATE	TYPE	MATERIAL	REMARKS	Grid North	Grid East	Au (ppb)	Ag (ppb)	As (ppm)	Sb (ppm)	Hg (ppb)
60469	08/26/96	GRAB	FLOAT	PYRITIC ANDESITE, QUARTZ STOCKWORK	11400	7525	84.0	3740	133.3	3.3	93
60470	08/26/96	GRAB	FLOAT	CHALCEDONY-HEMATITE	11340	7525	1.0	0	6.0	2.5	34
60471	08/26/96	GRAB	FLOAT	MULTI-COLOURED CHALCEDONY	11350	7470	0.0	0	3.6	0.0	31
60472	08/27/96	GRAB	FLOAT	QUARTZ RHYOLITE MIXED VOLC BRECCIA	11100	8210	0.0	0	14.2	3.2	1293
60473	08/27/96	GRAB	FLOAT	QUARTZ-CARBONATE PYROCLASTIC	11370	8250	0.0	344	67.5	13.3	1226
60474	08/27/96	GRAB	FLOAT	SILICEOUS BANDED VOLCANIC	11300	8225	0.0	130	10.3	1.2	15
60475	08/27/96	GRAB	FLOAT	QUARTZ RHYOLITE BRECCIA	11280	8210	31.0	260	6.6	0.0	47
60476	08/27/96	GRAB	FLOAT	SUGARY, VUGGY EPIDOTE-QUARTZ	11290	8210	54.0	352	12.4	1.6	70
60477	08/27/96	GRAB	FLOAT	RUSTY WEATHERED RHYOLITE BRECCIA	11300	8210	0.0	0	3.8	0.0	25
60478	08/27/96	GRAB	FLOAT	VOLCANIC STOCKWORK BRECCIA	11095	8220	256.0	630	479.6	12.0	79
60479	08/27/96	GRAB	FLOAT	MASSIVE BOULDER OF KASALKA BRECCIA	11130	8180	47.0	630	49.2	0.0	21
60480	08/27/96	GRAB	BEDROCK	SUBCROP: BRECCIATED RHYOLITE	11040	8000	19.0	40	42.1	7.3	4140
60481	08/27/96	GRAB	FLOAT	CARAMEL CHALCEDONY	11070	8200	81.0	136	5.3	0.0	67
60482	08/27/96	GRAB	FLOAT	QUARTZ STRINGERS IN TAN RHYOLITE	11000	8225	13.0	1982	81.5	3.9	112
60483	08/27/96	GRAB	FLOAT	SILICIFIED VOLCANIC	11000	8225	4.0	558	66.4	1.4	20
60484	08/27/96	GRAB	FLOAT	SULPHIDE-RICH RHYOLITE	10970	8200	4700.0	4089	53.4	2.2	55
60485	08/28/96	GRAB	BEDROCK	SUBCROP: SKARNY VOLCANIC	11550	9780	22.0	39	7.2	0.0	48
60486	08/28/96	GRAB	BEDROCK	SUBCROP: SKARNY ANDESITE	11410	9555	253.0	395	26.2	0.0	23
60487	08/28/96	GRAB	BEDROCK	SUBCROP: SILICEOUS-CALCAREOUS SKARN	11400	9575	45.0	381	34.6	0.0	13
60488	08/28/96	GRAB	BEDROCK	SUBCROP: QUARTZ-CARBONATE STOCKWORK	11375	9560	3360.0	1852	14.2	1.1	15
60489	08/28/96	GRAB	FLOAT	SILICEOUS, TUFFACEOUS VOLCANIC	11375	9540	489.0	835	31.9	0.0	14
60490	08/28/96	GRAB	BEDROCK	SUBCROP: CALCAREOUS VOLCANIC	11340	9540	20.0	93	10.8	0.0	63
60491	08/28/96	GRAB	BEDROCK	SUBCROP: ANDESITE PYROCLASTIC	11315	9540	8.0	345	30.4	0.0	71
60492	08/28/96	GRAB	FLOAT	QUARTZ-RHYOLITE BRECCIA	10500	7800	5.0	146	5.6	0.0	21
61684	08/28/96	GRAB	FLOAT	ANGULAR PIECES FROM UPROOTED TREE	11300	9325	3.0	0	4.6	0.0	19
61685	08/28/96	GRAB	BEDROCK	MATERIAL FROM FILLED-IN TRENCH	11340	9550	197.0	2216	73.6	0.0	27
61686	08/28/96	GRAB	FLOAT	FROM EAST END OF STUBB LAKE			7.0	587	16.0	0.0	12
61687	08/28/96	GRAB	FLOAT	MOTTLED GREY BANDED QUARTZ	11060	8000	6.0	49	28.1	0.0	24
61688	08/31/96	GRAB	BEDROCK	POLYMICTIC CONGLOMERATE/BRECCIA	10000	9860	348.0	1533	123.8	1.9	0
61689	08/31/96	GRAB	BEDROCK	POLYMICTIC CONGLOMERATE/BRECCIA	10008	9860	342.0	2492	83.0	2.1	39
61690	08/31/96	GRAB	BEDROCK	SILICA CEMENTED CONGLOMERATE/BRECCIA	10008	9860	280.0	2159	82.2	2.0	35
61691	09/01/96	GRAB	FLOAT	1.05KM WEST OF RT ANGLE CORNER ON RD	10517	9800	12.0	2233	12.0	0.0	28
61692	09/01/96	GRAB	BEDROCK	RUBBLE: TROUT ROAD @ OLD DRILL SITE?	9930	10300	14.0	1974	95.2	2.4	25
61693	09/01/96	GRAB	BEDROCK	RUBBLE: SILICIFIED POLYLITHIC BX	9775	10075	9900.0	32973	41.1	2.3	49
61694	09/01/96	GRAB	BEDROCK	RUBBLE: SUGARY, BANDED QTZ COATING	9770	10070	15880.0	64170	15.7	1.2	60
61695	09/01/96	GRAB	FLOAT	INTENSELY SILICIFIED POLYMICTIC BX	9835	10135	106.0	1984	57.2	1.8	11
61696	09/01/96	GRAB	BEDROCK	RUBBLE: POLYLITHIC BRECCIA	10155	9835	122.0	1766	75.0	2.1	20
61697	09/01/96	GRAB	BEDROCK	RUBBLE: 3M FROM DDH 90-2 AND 90-3	10180	9885	544.0	1134	34.4	1.3	12
61698	09/04/96	GRAB	BEDROCK	SILICIFIED, BRECCIATED RHYODACITE	10450	10000	1455.0	7017	8.7	0.0	25
61699	09/04/96	GRAB	BEDROCK	SUBCROP? GREY-BROWN ROCK			70.0	874	63.1	1.1	16
61757	08/28/96	GRAB	FLOAT	SILICIFIED ROCK, CHALCEDONY VEIN S	11250	9700	12.0	0	5.4	1.2	28
61758	08/28/96	GRAB	FLOAT	SUBCROP: SILICIFIED ARGILLIZED ROCK	11125	9400	11.0	442	10.0	1.1	29

61759	08/28/96	GRAB	FLOAT	RHYOLITE BRECCIA WITH VEINS	10300	7800	1.0	0	0.0	0.0	0
61760	09/01/96	GRAB	BEDROCK	RUBBLE: ANDESITE BRECCIA	10100	9770	185.0	2147	61.5	2.0	22
61761	09/01/96	GRAB	BEDROCK	PINK SILICIFIED BRECCIA	10253	9890	26.0	91	19.4	13.9	18
61762	09/01/96	GRAB	TALUS	SILICIFIED BRECCIA	10315	9900	205.0	676	34.6	0.0	2023
61764	09/02/96	GRAB	BEDROCK	SUB CROP-QUARTZ VEINS IN LAPILLI TUFF	10150	10040	14420.0	66435	21.7	1.3	34
61765	09/02/96	GRAB	BEDROCK	QUARTZ AFTER CALCITE VEINING	5946085	384690	464.0	11318	13.3	1.7	0
61766	09/02/96	GRAB	BEDROCK	PURPLE SILICIFIED ROCK, SULPHIDES	5945985	384686	341.0	1894	116.3	2.5	21
61767	09/02/96	GRAB	BEDROCK	CARBONACEOUS BRECCIA	5945978	384665	651.0	4591	22.2	0.0	24
61768	09/02/96	GRAB	BEDROCK	PURPLE TUFF WITH VEINING	5945978	384664	903.0	10496	53.5	1.7	42
61769	09/02/96	GRAB	FLOAT	VEINED SILICIFIED ROCK			738.0	5024	61.1	1.9	27
61770	09/02/96	GRAB	FLOAT	ABOUT 50M EAST OF DISCOVERY OUTCROP			246.0	3288	38.6	1.4	0
61771	09/02/96	GRAB	FLOAT	ABOUT 50M EAST OF DISCOVERY OUTCROP			581.0	8625	64.0	1.0	21
61772	09/04/96	GRAB	BEDROCK	QUARTZ VEINS IN PINK-BRN RHYODACITE?	10490	9970	837.0	2257	10.2	0.0	0
61773	09/04/96	GRAB	BEDROCK	QUARTZ VEINLETS IN RHYODACITE	10490	9967	1111.0	7451	53.2	1.3	25
61774	09/04/96	GRAB	BEDROCK	SUBCROP: SILICIFIED ROCK	10100	10050	41.0	1359	16.1	1.1	88
61775	09/04/96	GRAB	FLOAT	PINK SILICIFIED BRECCIA	10090	10080	232.0	2899	189.6	3.4	77
61776	09/04/96	GRAB	BEDROCK	SILICIFIED ARGILLIC ALTERED ROCK			9.0	113	9.3	0.0	0
61790	09/04/96	GRAB	BEDROCK	SILICIFIED BRECCIA, 1-2% PYRITE			633.0	2220	156.0	2.9	10
60343	08/27/96	SOIL	TILL	ROAD AT 82+25	11100	8250	2.0	0	2.2	0.0	49
60344	08/27/96	SOIL	TILL		11100	8300	1.0	0	1.0	0.0	39
60345	08/27/96	SOIL	TILL		11100	8350	0.0	32	2.7	0.0	49
60346	08/27/96	SOIL	TILL		11100	8400	0.0	0	2.6	0.0	57
60347	08/27/96	SOIL	TILL		11100	8450	0.0	42	1.7	0.0	37
60348	08/27/96	SOIL	TILL		11100	8500	0.0	0	1.8	0.0	35
60349	08/27/96	SOIL	TILL		11100	8550	0.0	0	2.8	0.0	15
60350	08/27/96	SOIL	TILL		11100	8600	2.0	0	2.3	0.0	23
60351	08/27/96	SOIL	TILL		11100	8650	0.0	0	1.8	0.0	14
60352	08/27/96	SOIL	TILL		11100	8700	1.0	31	1.5	0.0	15
60353	08/27/96	SOIL	TILL		11100	8750	1.0	0	2.3	0.0	0
60354	08/27/96	SOIL	TILL		11100	8800	0.0	46	3.6	0.0	73
60355	08/27/96	SOIL	TILL		11100	8850	1.0	0	1.9	0.0	22
60356	08/27/96	SOIL	TILL		11100	8900	2.0	0	4.3	0.0	17
60357	08/27/96	SOIL	TILL		11100	8950	3.0	45	2.6	0.0	23
60358	08/27/96	SOIL	TILL		11100	9000	2.0	0	3.6	0.0	18
60359	08/27/96	SOIL	TILL		11100	9050	1.0	0	2.3	0.0	32
60360	08/27/96	SOIL	TILL		11100	9100	1.0	0	4.8	0.0	34
60361	08/27/96	SOIL	TILL		11100	9150	5.0	0	1.8	0.0	14
60362	08/27/96	SOIL	TILL		11100	9200	0.0	0	2.0	0.0	18
60363	08/27/96	SOIL	TILL		11100	9250	0.0	0	2.1	0.0	29
60364	08/27/96	SOIL	TILL		11100	9300	0.0	0	2.9	0.0	26
60365	08/27/96	SOIL	TILL	OUTCROP	11100	9350	0.0	0	4.2	0.0	12
60366	08/27/96	SOIL	TILL	TOP OF RIDGE AT 93+75, OUTCROP	11100	9400	0.0	56	7.2	0.0	29
60367	08/27/96	SOIL	TILL		11100	9450	3.0	0	4.0	0.0	42
60368	08/27/96	SOIL	TILL		11100	9500	0.0	0	5.3	0.0	37
60369	08/27/96	SOIL	TILL		11100	9550	2.0	43	2.0	0.0	13
60370	08/27/96	SOIL	TILL		11100	9600	2.0	0	0.0	0.0	16
60371	08/27/96	SOIL	TILL	OLD ROAD AT 96+25	11100	9650	1.0	0	1.6	0.0	25
60372	08/27/96	SOIL	TILL	SWAMP, NO SAMPLE @ 9700 AND 9750	11100	9775	16.0	0	6.3	0.0	48
60373	08/27/96	SOIL	TILL		11100	9800	51.0	157	2.9	0.0	16

60374	08/27/96	SOIL	TILL		11100	9850	2.0	0	3.3	0.0	20
60375	08/27/96	SOIL	TILL	SWAMP, NO SAMPLE @ 9950 AND 10000	11100	9900	2.0	0	2.0	0.0	17
60376	08/27/96	SOIL	TILL	BASELINE	11400	10000	1.0	0	1.4	0.0	28
60377	08/27/96	SOIL	TILL	NO SAMPLE: 9900E (SWAMP) 9850 (LAKE)	11400	9950	0.0	0	1.9	0.0	23
60378	08/27/96	SOIL	TILL	LAKE TO 9675	11400	9650	0.0	0	1.9	0.0	0
60379	08/27/96	SOIL	TILL		11400	9600	0.0	0	3.0	0.0	15
60380	08/27/96	SOIL	TILL		11400	9550	1.0	0	1.0	0.0	29
60381	08/27/96	SOIL	TILL		11400	9500	6.0	0	4.8	0.0	13
60382	08/27/96	SOIL	TILL		11400	9450	1.0	0	1.8	0.0	24
60383	08/27/96	SOIL	TILL		11400	9400	0.0	0	3.3	0.0	22
60384	08/27/96	SOIL	TILL		11400	9350	2.0	0	6.6	0.0	36
60385	08/27/96	SOIL	TILL		11400	9300	1.0	0	3.3	0.0	36
60386	08/27/96	SOIL	TILL		11400	9250	1.0	0	1.7	0.0	15
60387	08/27/96	SOIL	TILL		11400	9200	0.0	0	2.8	0.0	14
60388	08/27/96	SOIL	TILL		11400	9150	0.0	0	2.7	0.0	27
60389	08/27/96	SOIL	TILL		11400	9100	0.0	0	7.6	0.0	22
60390	08/27/96	SOIL	TILL	ROAD AT 9040	11400	9050	4.0	0	7.1	0.0	12
60391	08/28/96	SOIL	TILL	ROAD AT 8225	11100	8200	1.0	42	3.5	0.0	44
60392	08/28/96	SOIL	TILL		11100	8150	1.0	0	1.5	0.0	37
60393	08/28/96	SOIL	TILL		11100	8100	1.0	0	2.3	0.0	49
60394	08/28/96	SOIL	TILL	CUT BLOCK	11100	8050	1.0	0	5.1	0.0	53
60395	08/28/96	SOIL	TILL		11100	8000	1.0	0	7.8	0.0	83
60396	08/28/96	SOIL	TILL		11100	7950	1.0	0	2.6	0.0	43
60398	08/28/96	SOIL	TILL	NO BUG SHEET 60397; NO SAMPLE 60398?	11100	7900	0.0	0	3.3	0.0	35
60399	08/28/96	SOIL	TILL		11100	7850	1.0	0	3.2	0.0	35
61800	08/28/96	SOIL	TILL	GULLEY AT 7825	11100	7800	0.0	0	4.8	0.0	33
61801	08/28/96	SOIL	TILL		11100	7750	1.0	0	1.8	0.0	21
61802	08/28/96	SOIL	TILL		11100	7700	1.0	0	1.9	0.0	30
61803	08/28/96	SOIL	TILL		11100	7650	3.0	0	2.5	0.0	22
61804	08/28/96	SOIL	TILL		11100	7600	4.0	0	1.8	0.0	23
61805	08/28/96	SOIL	TILL		11100	7550	1.0	0	2.0	0.0	29
61806	08/28/96	SOIL	TILL		11100	7500	1.0	0	1.9	0.0	21
61807	08/28/96	SOIL	TILL		11100	7450	1.0	0	1.8	0.0	18
61808	08/28/96	SOIL	TILL		11100	7400	1.0	0	2.3	0.0	23
61809	08/28/96	SOIL	TILL	END OF CUT BLOCK	11100	7350	4.0	0	3.1	0.0	27
61810	08/28/96	SOIL	TILL		11100	7300	1.0	0	2.6	0.0	27
61811	08/28/96	SOIL	TILL		11100	7250	0.0	0	1.3	0.0	24
61812	08/28/96	SOIL	TILL		11100	7200	0.0	0	1.7	0.0	25
61813	08/28/96	SOIL	TILL		11100	7150	1.0	0	3.0	0.0	27
61814	08/28/96	SOIL	TILL	GULLEY AT 7110	11100	7100	0.0	0	0.0	0.0	23
61815	08/28/96	SOIL	TILL		11100	7050	0.0	0	0.0	0.0	22
61816	08/28/96	SOIL	TILL		11100	7000	0.0	0	1.3	0.0	27
61817	08/28/96	SOIL	TILL	LAKE AT 7090	11400	7100	0.0	0	4.4	0.0	29
61818	08/28/96	SOIL	TILL		11400	7150	2.0	0	3.8	0.0	29
61819	08/28/96	SOIL	TILL		11400	7200	1.0	0	3.7	0.0	41
61820	08/28/96	SOIL	TILL	ROAD AT 7240	11400	7250	0.0	0	5.3	0.0	36
61821	08/28/96	SOIL	TILL		11400	7300	2.0	0	1.7	0.0	28
61822	08/28/96	SOIL	TILL	EDGE OF CUT BLOCK	11400	7350	0.0	0	1.7	0.0	38
61823	08/28/96	SOIL	TILL		11400	7400	1.0	0	1.4	0.0	22

61824	08/28/96	SOIL	TILL		11400	7450	0.0	0	1.3	0.0	22
61825	08/28/96	SOIL	TILL	ROAD	11400	7500	0.0	0	1.0	0.0	22
61826	08/28/96	SOIL	TILL		11400	7550	0.0	0	1.9	0.0	27
61827	08/28/96	SOIL	TILL		11400	7600	2.0	0	1.8	0.0	29
61828	08/28/96	SOIL	TILL		11400	7650	2.0	0	7.0	0.0	73
61829	08/28/96	SOIL	TILL	ROAD-CUT BLOCK AT 7725	11400	7700	0.0	0	1.5	0.0	29
61830	08/28/96	SOIL	TILL	CUT BLOCK	11400	7750	6.0	0	2.8	0.0	27
61831	08/28/96	SOIL	TILL		11400	7800	1.0	0	2.5	0.0	26
61832	08/28/96	SOIL	TILL		11400	7850	1.0	0	2.0	0.0	30
61833	08/28/96	SOIL	TILL		11400	7900	1.0	0	2.8	0.0	40
61834	08/28/96	SOIL	TILL	ROAD AT 7940	11400	7950	21.0	0	3.3	0.0	46
61835	08/28/96	SOIL	TILL		11400	8000	1.0	0	0.0	0.0	23
61836	08/28/96	SOIL	TILL	EDGE OF CUT BLOCK	11400	8050	1.0	0	4.2	0.0	39
61837	08/28/96	SOIL	TILL		11400	8100	1.0	0	2.6	0.0	40
61838	08/28/96	SOIL	TILL		11400	8150	1.0	0	2.5	0.0	32
61839	08/28/96	SOIL	TILL		11400	8200	0.0	62	5.9	0.0	115
61840	08/28/96	SOIL	TILL		11400	8250	1.0	0	1.0	0.0	28
61841	08/28/96	SOIL	TILL	SWAMP 8250 TO 8300	11400	8300	0.0	36	2.9	0.0	50
61842	08/28/96	SOIL	TILL	ROAD	11400	8350	58.0	37	2.8	0.0	39
61843	08/28/96	SOIL	TILL		11400	8400	3.0	0	7.3	0.0	93
61844	08/28/96	SOIL	TILL		11400	8450	1.0	0	1.9	0.0	26
61845	08/28/96	SOIL	TILL		11400	8500	0.0	0	1.5	0.0	26
61846	08/28/96	SOIL	TILL		11400	8550	6.0	0	1.2	0.0	25
61847	08/28/96	SOIL	TILL		11400	8600	3.0	0	1.3	0.0	21
61848	08/28/96	SOIL	TILL		11400	8650	3.0	0	2.8	0.0	34
61849	08/28/96	SOIL	TILL		11400	8700	2.0	0	6.2	0.0	24
61850	08/28/96	SOIL	TILL		11400	8750	0.0	0	4.5	0.0	26
61851	08/28/96	SOIL	TILL		11400	8800	0.0	0	1.5	0.0	17
61852	08/28/96	SOIL	TILL		11400	8850	1.0	0	3.0	0.0	27
61853	08/28/96	SOIL	TILL	ROAD AT 8925	11400	8900	1.0	0	2.2	0.0	37
61854	08/28/96	SOIL	TILL		11400	8950	1.0	0	2.1	0.0	38
61855	08/28/96	SOIL	TILL		11400	9000	3.0	0	5.7	1.0	32

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

GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE

Phelps Dodge Corp. PROJECT 248 File # 96-4325

1409 - 409 Granville St., Vancouver BC V6T 1T2 Submitted by: C. Payne

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U 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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
61698	2.2	16.2	10.5	48.0	7017	8	1	274	1.40	8.7	<5	<1	11	.07	.8	.1	8	.07	.052	32	15	.04	50	.02	<2	.36	.04	.12	5	<.2	25	.5	<.2	1.9	1455
61699	2.7	10.3	3.9	46.4	874	8	4	154	1.72	63.1	<5	3	6	.18	1.1	.1	18	.02	.009	12	23	.12	37	.04	2	.37	.01	.16	6	<.2	16	.3	<.2	2.3	70
61772	2.6	5.3	4.8	25.1	2257	9	1	124	.93	10.2	7	2	5	.02	.7	<.1	4	.05	.024	13	31	.02	29	.01	<2	.15	.03	.06	8	<.2	<10	<.3	<.2	1.1	837
61773	3.1	5.2	9.5	51.5	7451	7	1	200	1.62	53.2	<5	3	6	.03	1.3	.1	8	.05	.065	33	19	.05	41	.02	<2	.36	.05	.10	4	<.2	25	.8	<.2	2.0	1111
61774	7.4	39.8	1179.8	734.1	1359	6	1	272	1.05	16.1	<5	1	5	2.62	1.1	.2	3	.03	.021	6	21	.04	44	.01	<2	.22	.01	.14	2	<.2	88	.9	<.2	.9	41
61775	4.2	19.8	15.2	124.2	2899	7	6	381	1.87	189.6	<5	<1	4	1.22	3.4	.1	28	.07	.025	10	21	.15	33	.04	<2	.38	<.01	.12	5	.2	77	.7	<.2	3.3	232
RE 61775	3.8	19.3	13.6	119.0	2445	8	6	361	1.80	181.6	<5	1	4	1.10	2.8	.2	28	.06	.022	10	19	.15	32	.04	<2	.37	<.01	.11	4	.2	65	.8	<.2	2.8	225
61776	5.8	4.0	12.5	7.8	113	3	1	65	.88	9.3	<5	3	8	.03	.3	.1	4	.07	.016	9	8	.07	85	.03	2	.37	<.01	.22	2	<.2	<10	.3	<.2	1.5	9
61790	2.2	30.7	4.8	29.4	2220	9	8	420	3.12	156.0	<5	<1	7	.10	2.9	.2	69	.35	.211	8	18	.51	24	.14	2	.61	<.01	.09	5	<.2	10	.7	<.2	5.7	633

ICP - 30 GRAM SAMPLE IS DIGESTED WITH 180 ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 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 GA AND AL. SOLUTION ANALYSED DIRECTLY BY ICP. MO CU PB ZN AG AS AU CD SB BI TL HG SE TE AND GA ARE EXTRACTED WITH MIBK-ALIQUAT 336 AND ANALYSED BY ICP. ELEVATED DETECTION LIMITS FOR SAMPLES CONTAIN CU,PB,ZN,AS>1500 PPM,Fe>20%.
- SAMPLE TYPE: ROCK AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 10 1996 DATE REPORT MAILED: Sep 23/96 SIGNED BY. ..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

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

GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE

Phelps Dodge Corp. PROJECT 248 File # 96-4232 Page 1

1409 - 409 Granville St., Vancouver BC V6T 1T2

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U 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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
60469	70.8	14.9	27.0	35.7	3740	8	11	128	3.29	133.3	<5	<1	26	.25	3.3	.3	30	.12	.038	4	14	.48	107	<.01	<2	.88	.01	.14	4	<.2	93	1.1	.3	2.0	84
60470	3.6	11.8	1.8	152.5	<30	61	35	2326	9.57	6.0	<5	1	15	.21	2.5	.2	81	.04	.018	7	31	.05	83	.02	<2	.19	<.01	.02	7	<.2	34	<.3	.2	.7	1
60471	2.1	13.6	1.4	75.9	<30	39	20	1841	6.32	3.6	<5	1	42	.13	<.2	.2	50	.44	.017	4	28	.07	68	.01	<2	.17	<.01	.01	9	<.2	31	<.3	<.2	.8	<1
60472	1.9	3.4	4.2	127.3	<30	85	46	4205	13.13	14.2	<5	4	7	.33	3.2	.2	64	.15	.012	20	12	.25	68	.01	<2	.11	.03	.08	2	<.2	1293	<.3	<.2	<.5	<1
60473	.9	158.3	3.9	144.5	344	14	27	1330	7.08	67.5	<5	1	113	.74	13.3	<.1	71	10.61	.008	<1	7	2.75	58	<.01	<2	.19	<.01	.03	<2	<.2	1226	<.3	<.2	<.5	<1
60474	19.5	28.5	6.9	84.5	130	5	4	1706	1.24	10.3	<5	1	61	.44	1.2	.3	9	4.68	.022	2	18	.64	93	.10	12	.60	.01	.02	6	<.2	15	1.0	<.2	1.4	<1
60475	2.4	7.6	2.4	10.6	260	6	1	50	.41	6.6	<5	1	15	.05	.6	.1	3	.05	.004	10	23	.01	374	<.01	<2	.12	<.01	.09	5	<.2	47	<.3	<.2	.6	31
60476	3.6	6.5	2.5	3.7	352	8	1	51	.56	12.4	<5	1	38	.03	1.6	.1	4	.05	.009	3	26	.01	225	<.01	<2	.10	<.01	.04	6	<.2	70	.3	<.2	<.5	64
60477	1.9	3.9	4.3	12.6	<30	6	1	54	.50	3.8	<5	10	5	.02	.2	.1	4	.06	.006	34	15	.03	74	.01	<2	.19	.06	.18	3	<.2	25	<.3	<.2	.5	<1
60478	7.0	15.0	5.2	8.5	630	9	2	55	.98	479.6	<5	1	23	.03	12.0	.1	7	.06	.019	3	24	.07	230	<.01	<2	.31	<.01	.11	5	<.2	79	1.1	<.2	2.0	256
60479	4.6	11.4	1.9	25.7	630	11	2	140	.96	49.2	<5	1	7	.05	.8	.1	7	.02	.014	9	23	.01	42	<.01	<2	.13	<.01	.10	7	<.2	21	<.3	.3	.5	47
60480	18.2	5.0	8.4	38.9	40	8	2	55	.43	42.1	<5	2	7	.09	7.3	.1	3	.02	.004	18	19	<.01	29	<.01	<2	.29	<.01	.05	5	<.2	4140	<.3	<.2	1.5	19
60481	1.8	5.7	5.3	24.7	136	7	1	43	.43	5.3	<5	<1	3	.15	.6	.1	2	.01	.002	1	34	<.01	25	<.01	<2	.05	<.01	.02	7	<.2	67	<.3	<.2	<.5	81
60482	59.1	4.0	11.0	8.6	1982	6	<1	27	.55	81.5	<5	6	9	.06	3.9	.1	1	.01	.005	17	22	<.01	51	<.01	<2	.11	<.01	.18	5	<.2	112	<.3	1.1	<.5	13
60483	2.9	25.0	21.9	65.6	558	15	9	462	3.18	66.4	<5	1	158	.62	1.4	.4	8	9.27	.069	7	13	.03	39	.08	3	1.64	.38	.07	<2	<.2	20	.7	.3	3.7	4
60484	60.2	5.8	25.6	42.9	4089	6	2	47	2.12	53.4	<5	1	35	.17	2.2	.1	4	.58	.008	18	12	.01	64	.01	<2	.32	.03	.20	5	<.2	55	.3	<.2	.7	4700
60485	1.6	9.1	5.1	34.7	39	6	7	653	1.73	7.2	<5	1	99	.06	.7	.2	16	2.36	.023	10	9	.50	365	<.01	<2	.96	.01	.11	4	<.2	48	<.3	<.2	1.6	22
60486	6.1	4.7	4.0	36.8	395	6	8	703	2.36	26.2	<5	<1	34	.05	.3	.1	34	1.90	.046	5	14	.75	76	<.01	<2	1.13	<.01	.16	4	<.2	23	.6	<.2	4.0	253
60487	3.4	10.2	3.8	18.9	381	6	4	548	1.42	34.6	<5	<1	25	.07	.7	.1	16	3.85	.027	3	16	.35	53	<.01	<2	.64	<.01	.08	6	<.2	13	.3	<.2	1.8	45
60488	2.8	6.1	6.7	37.8	1852	5	4	293	3.19	14.2	<5	<1	13	.05	1.1	.1	62	.14	.046	1	15	.43	89	<.01	<2	1.24	<.01	.17	5	<.2	15	.3	<.2	2.7	3360
60489	6.8	8.9	3.7	28.0	835	6	7	291	1.99	31.9	<5	<1	21	.05	.6	.1	29	.26	.035	6	15	.66	207	.01	2	.96	<.01	.14	4	<.2	14	.5	<.2	3.7	489
RE 60489	7.0	9.5	3.8	29.1	929	6	7	304	2.07	31.7	<5	<1	22	.05	.5	.1	30	.27	.037	6	16	.69	202	<.01	<2	.98	<.01	.14	3	<.2	11	.6	<.2	3.8	573
60490	.9	22.1	5.9	61.8	93	5	15	907	4.03	10.8	<5	<1	71	.15	.7	.2	46	3.64	.058	2	6	.97	134	<.01	<2	2.92	.02	.11	<2	<.2	63	<.3	.2	5.0	20
60491	15.3	9.5	7.1	19.1	345	5	10	2125	2.26	30.4	<5	2	287	.21	.5	.1	15	16.03	.036	2	9	.40	137	<.01	<2	1.14	.01	.08	2	<.2	71	<.3	<.2	1.9	8
60492	2.0	5.6	1.5	16.4	146	5	1	82	.29	5.6	<5	<1	20	.06	.4	.1	4	.14	.007	10	16	.02	67	<.01	<2	.23	<.01	.12	5	<.2	21	<.3	<.2	.9	5
61684	2.1	2.2	4.0	56.9	<30	3	<1	493	.99	4.6	<5	12	4	.05	.3	.1	8	.07	.007	62	7	.02	30	.04	<2	.24	.05	.09	2	<.2	19	<.3	<.2	1.0	3
61685	41.5	14.7	5.1	33.4	2216	4	8	314	2.68	73.6	<5	1	21	.07	.4	.2	37	.26	.041	7	12	.90	178	<.01	<2	1.23	<.01	.14	2	<.2	27	.4	<.2	5.0	187
61686	1.3	82.1	20.7	37.2	587	3	2	100	1.92	16.0	<5	2	21	.06	<.2	.4	31	.30	.077	6	9	.53	44	.12	2	.71	.07	.09	5	<.2	12	.3	.3	5.8	7
61687	2.7	3.8	9.1	12.1	49	5	<1	145	.59	28.1	<5	10	3	.02	.5	.1	5	.02	.005	42	14	.02	37	.04	<2	.22	.06	.23	4	<.2	24	<.3	<.2	1.2	6
61688	1.1	17.5	5.5	17.2	1533	5	3	277	3.44	123.8	<5	3	41	.02	1.9	.1	64	.20	.090	15	12	.21	59	.03	<2	.78	.03	.21	2	<.2	<10	.3	<.2	3.6	348
61689	1.2	22.5	5.8	24.4	2492	6	4	244	3.33	83.0	<5	2	32	.06	2.1	.2	59	.11	.054	6	19	.23	63	.14	<2	.51	.03	.14	3	<.2	39	.5	<.2	2.9	342
61690	1.1	28.0	9.2	30.2	2159	8	6	365	2.95	82.2	<5	2	15	.16	2.0	.2	49	.15	.042	7	16	.28	42	.12	<2	.59	.03	.14	4	<.2	35	.4	<.2	2.3	280
61691	2.8	4.8	4.8	4.8	2233	6	<1	33	.42	12.0	<5	3	3	.02	.8	.2	1	.02	.002	8	24	.01	15	<.01	<2	.08	<.01	.08	5	<.2	28	<.3	1.4	<.5	12
STANDARD	26.3	127.0	109.7	276.1	1817	33	16	1034	4.28	76.1	22	18	56	2.26	8.4	21.5	78	.74	.105	18	54	1.19	266	.15	29	2.43	.06	.70	18	2.5	528	.5	2.2	6.6	448

Standard is STANDARD D2/HG-500/AU-R.

ICP - 30 GRAM SAMPLE IS DIGESTED WITH 180 ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 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 GA AND AL. SOLUTION ANALYSED DIRECTLY BY ICP. MO CU PB ZN AG AS AU CD SB BI TL HG SE TE AND GA ARE EXTRACTED WITH MIBK-ALIQUAT 336 AND ANALYSED BY ICP. ELEVATED DETECTION LIMITS FOR SAMPLES CONTAIN CU,PB,ZN,AS>1500 PPM,Fe>20%.

- SAMPLE TYPE: P1 TO P2 ROCK P3 TO P6 SOIL AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 5 1996 DATE REPORT MAILED: Sept 20/96 SIGNED BY ..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U 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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
61692	1.0	12.4	6.5	11.6	1974	3	1	143	2.64	95.2	<5	2	36	.03	2.4	.2	28	.06	.071	14	14	.19	44	.03	2	.40	.01	.19	2	<.2	25	<.3	<.2	3.9	14
61693	1.7	24.5	11.5	127.7	32973	8	8	612	2.97	41.1	<5	2	24	1.02	2.3	.2	63	.30	.075	13	19	.44	72	.11	2	.74	.03	.12	3	<.2	49	1.2	<.2	4.3	9900
61694	1.9	28.7	12.6	185.7	64170	7	10	816	1.21	15.7	<5	1	5	1.54	1.2	.2	23	.11	.028	4	15	.10	19	.04	2	.30	.01	.09	4	<.2	60	1.4	<.2	1.1	15880
61695	1.2	26.8	4.3	54.4	1984	16	14	799	3.69	57.2	<5	1	26	.19	1.8	.2	52	.33	.059	12	26	.50	83	.15	<2	.95	.04	.13	2	<.2	11	<.3	.2	3.3	106
61696	1.0	24.6	6.5	51.6	1766	10	8	577	3.27	75.0	<5	2	20	.32	2.1	.2	50	.37	.077	14	23	.40	58	.14	<2	.86	.03	.12	3	<.2	20	<.3	.2	2.7	122
61697	1.3	14.3	7.1	40.4	1134	5	4	488	2.37	34.4	<5	2	11	.11	1.3	.1	67	.34	.076	18	13	.36	41	.19	2	.65	.03	.11	4	<.2	12	<.3	<.2	4.1	544
61757	1.7	4.1	6.6	28.3	<30	7	1	108	.70	5.4	<5	4	8	.03	1.2	.1	5	.01	.009	21	15	.01	45	<.01	<2	.21	<.01	.17	4	<.2	28	<.3	<.2	.8	12
61758	2.6	6.1	6.6	27.9	442	10	3	217	1.36	10.0	<5	4	6	.04	1.1	.1	11	.01	.015	21	15	.01	65	<.01	<2	.21	<.01	.13	4	<.2	29	<.3	<.2	1.0	11
61759	.8	6.3	1.1	89.4	<30	6	20	2366	4.89	<.5	<5	4	43	.33	<.2	.1	54	.52	.106	21	6	.11	237	.04	<2	.55	.10	.11	<2	<.2	<10	<.3	.2	1.6	1
61760	1.0	48.0	3.2	120.9	2147	13	11	783	4.08	61.5	<5	1	23	.38	2.0	.2	114	.37	.108	9	30	.60	81	.19	<2	1.04	.05	.14	2	<.2	22	<.3	<.2	6.4	185
61761	1.1	2.7	25.7	46.5	91	3	1	443	1.86	19.4	<5	5	9	.07	13.9	.2	8	.07	.052	41	5	.05	71	.03	2	.44	.03	.20	6	<.2	18	<.3	.2	2.8	26
61762	1.9	3.5	10.7	52.2	676	4	<1	94	1.23	34.6	<5	4	16	.19	.5	.2	5	.06	.052	38	7	.01	59	.01	2	.26	.04	.21	3	<.2	2023	<.3	<.2	1.1	205
RE 61762	1.8	3.3	10.4	51.3	720	4	<1	94	1.22	31.3	<5	4	16	.17	.8	.2	5	.06	.050	39	7	.01	58	.01	2	.27	.04	.21	3	<.2	2048	<.3	<.2	1.4	177
61763	19.8	17.0	9.4	68.1	353	7	7	670	2.66	116.6	<5	2	17	.07	.9	1.3	11	.09	.022	4	8	.12	860	<.01	<2	.78	<.01	.18	4	.3	19	<.3	.4	1.9	7
61764	2.1	13.9	5.7	35.7	66435	7	7	320	2.78	21.7	<5	2	20	.07	1.3	.2	56	.20	.047	9	15	.24	211	.14	<2	.72	.05	.12	3	<.2	34	2.3	.2	2.4	14420
61765	1.0	12.5	9.4	11.7	11318	4	<1	94	3.23	13.3	<5	2	26	.07	1.7	.2	43	.03	.046	8	12	.09	75	.19	<2	.26	.02	.33	2	<.2	<10	.5	<.2	1.7	464
61766	1.5	25.2	4.0	41.5	1894	9	7	533	2.90	116.3	<5	1	9	.18	2.5	.2	66	.29	.101	8	21	.48	46	.14	<2	.67	.02	.12	5	<.2	21	<.3	<.2	4.4	341
61767	.8	5.4	1.3	7.6	4591	4	1	3109	.50	22.2	<5	<1	771	.07	.7	.2	4	28.16	.006	4	9	.07	11	.01	<2	.08	<.01	.03	<2	<.2	24	<.3	<.2	<.5	651
61768	1.3	13.1	3.4	31.9	10496	8	4	466	1.41	53.5	<5	1	149	.19	1.7	.2	23	3.15	.027	7	21	.22	14	.06	<2	.27	.01	.11	6	<.2	42	<.3	<.2	1.6	903
61769	1.9	13.0	1.9	13.6	5024	7	3	427	.78	61.1	<5	<1	98	.09	1.9	.2	10	2.85	.012	3	26	.09	10	.02	<2	.12	<.01	.06	6	<.2	27	.3	<.2	1.0	738
61770	2.3	8.5	1.4	12.2	3288	7	1	483	.58	38.6	<5	<1	105	.14	1.4	.1	13	3.77	.009	2	29	.06	14	.01	<2	.10	<.01	.06	9	<.2	<10	<.3	<.2	1.0	246
61771	10.1	8.5	1.3	8.4	8625	9	1	228	.62	64.0	<5	<1	19	.09	1.0	.1	27	.66	.004	1	31	.05	14	.01	<2	.08	<.01	.05	8	<.2	21	.6	<.2	.5	581
STANDARD	25.4	128.5	103.4	279.5	1987	34	17	1071	4.40	83.7	21	19	53	2.33	8.5	21.7	79	.76	.110	17	55	1.24	276	.15	27	2.51	.06	.71	18	2.5	519	.5	2.4	7.2	545

Standard is STANDARD D2/HG-500/AU-R. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE

Phelps Dodge Corp. PROJECT 248 File # 96-4232 Page 3

1409 - 409 Granville St., Vancouver BC V6T 1T2

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U 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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
60343	.9	7.9	5.8	46.9	<30	10	6	825	1.82	2.2	<5	<1	38	.06	.3	.1	35	.32	.051	16	16	.20	130	.06	<2	1.39	.01	.06	<2	<.2	49	<.3	<.2	4.2	2
60344	.4	5.2	5.9	25.3	<30	6	2	139	1.23	1.0	<5	2	25	.01	.3	<.1	29	.21	.024	12	12	.16	76	.10	<2	.80	.02	.04	<2	<.2	39	<.3	.2	2.8	1
60345	.7	7.5	5.5	38.8	32	11	5	463	1.76	2.7	<5	1	38	.06	.3	<.1	37	.32	.063	20	14	.19	113	.08	<2	1.26	.01	.06	<2	<.2	49	<.3	<.2	3.9	<1
60346	.7	8.0	5.7	45.0	<30	12	6	685	1.85	2.6	<5	1	38	.03	.2	<.1	37	.35	.052	15	18	.20	123	.07	<2	1.64	.02	.05	<2	<.2	57	<.3	<.2	5.0	<1
60347	1.1	7.1	7.3	33.8	42	9	4	159	1.74	1.7	<5	<1	33	.05	.2	.1	40	.30	.045	10	14	.19	87	.08	<2	1.07	.01	.06	<2	<.2	37	<.3	<.2	4.9	<1
60348	.6	8.3	5.2	51.8	<30	13	5	440	1.83	1.8	<5	1	36	.05	<.2	.1	38	.39	.037	14	19	.23	118	.08	<2	1.70	.02	.09	<2	<.2	35	<.3	<.2	5.6	<1
60349	.6	6.6	5.1	51.1	<30	12	5	448	2.18	2.8	<5	1	24	.08	<.2	<.1	48	.25	.115	9	19	.19	104	.10	<2	1.28	.01	.05	<2	<.2	15	<.3	<.2	4.3	<1
60350	.5	5.5	4.7	25.7	<30	7	3	123	1.57	2.3	<5	<1	32	.05	<.2	<.1	33	.33	.026	9	15	.17	73	.08	2	.97	.02	.05	<2	<.2	23	<.3	<.2	3.0	2
60351	.3	3.4	4.7	24.4	<30	6	2	114	1.18	1.8	<5	<1	23	.03	<.2	<.1	33	.27	.019	9	13	.17	53	.12	<2	.75	.02	.04	<2	<.2	14	<.3	<.2	2.4	<1
RE 60351	.3	3.4	4.8	24.6	<30	6	2	116	1.18	1.8	<5	1	24	.02	<.2	.1	32	.28	.021	8	13	.16	53	.13	2	.75	.02	.04	<2	<.2	16	<.3	<.2	2.5	<1
60352	.6	5.0	5.1	27.9	31	6	4	230	1.37	1.5	<5	<1	24	.05	.2	.1	33	.27	.023	8	12	.15	55	.10	<2	.86	.02	.05	<2	<.2	15	<.3	.2	3.6	1
60353	.6	5.2	5.4	30.4	<30	7	4	307	1.53	2.3	<5	<1	34	.07	.3	<.1	37	.44	.018	9	14	.20	65	.11	<2	.88	.02	.06	<2	<.2	<10	<.3	<.2	3.3	1
60354	.9	7.6	4.6	27.4	46	7	5	619	1.54	3.6	<5	1	34	.05	.4	<.1	37	.38	.025	9	13	.16	82	.08	<2	.89	.02	.04	<2	<.2	73	<.3	<.2	3.1	<1
60355	.6	4.3	4.7	25.4	<30	7	3	152	1.31	1.9	<5	1	22	.02	.2	<.1	33	.22	.025	7	11	.13	67	.10	<2	.82	.01	.03	<2	<.2	22	<.3	<.2	3.1	1
60356	.9	4.8	5.0	46.6	<30	10	5	489	2.03	4.3	<5	1	24	.05	<.2	<.1	46	.24	.128	8	16	.12	103	.09	<2	1.05	.01	.06	<2	<.2	17	<.3	<.2	3.9	2
60357	.5	5.4	4.7	33.9	45	8	4	263	1.59	2.6	<5	1	30	.06	.2	.1	39	.34	.021	9	15	.20	55	.11	<2	.91	.02	.07	<2	<.2	23	<.3	<.2	3.2	3
60358	.7	5.5	4.1	41.3	<30	9	5	346	1.92	3.6	<5	1	18	.05	.2	.1	45	.20	.054	8	15	.15	73	.09	<2	.88	.01	.05	<2	<.2	18	<.3	<.2	3.3	2
60359	.7	5.1	4.7	47.0	<30	9	5	244	1.89	2.3	<5	2	16	.09	<.2	<.1	41	.17	.152	8	14	.14	93	.09	<2	1.08	.01	.04	<2	<.2	32	<.3	<.2	3.8	1
60360	1.0	7.6	5.9	53.5	<30	16	8	167	2.60	4.8	<5	1	32	.10	<.2	.1	51	.28	.161	9	20	.22	146	.09	<2	2.10	.01	.06	<2	<.2	34	<.3	<.2	6.7	1
60361	.7	4.7	4.9	54.7	<30	10	5	300	1.74	1.8	<5	1	26	.06	<.2	<.1	41	.29	.102	8	16	.15	102	.09	<2	1.08	.01	.05	<2	<.2	14	<.3	<.2	4.0	5
60362	.8	5.8	4.9	30.1	<30	5	4	199	1.65	2.0	<5	<1	20	.05	<.2	.1	43	.20	.038	6	14	.12	83	.09	<2	.79	.01	.04	<2	<.2	18	<.3	<.2	4.0	<1
60363	1.1	6.9	4.2	25.2	<30	5	5	120	2.06	2.1	<5	<1	36	.07	<.2	<.1	53	.36	.018	5	14	.17	87	.05	<2	1.09	.01	.04	<2	<.2	29	<.3	<.2	4.2	<1
60364	.6	14.0	2.7	91.2	<30	6	14	410	4.79	2.9	<5	<1	20	.10	.2	.1	92	.34	.079	3	9	.69	174	.01	<2	3.11	.01	.05	<2	<.2	26	<.3	.2	8.6	<1
60365	.5	7.5	3.7	47.8	<30	8	5	189	2.30	4.2	<5	1	22	.05	.2	.1	58	.36	.039	6	16	.26	159	.09	<2	1.58	.01	.04	<2	<.2	12	<.3	.2	4.8	<1
60366	.7	33.1	4.8	205.1	56	9	15	2058	3.95	7.2	<5	<1	63	.94	.2	.1	68	1.25	.224	17	13	.64	1190	.01	<2	3.06	.01	.28	<2	<.2	29	<.3	<.2	7.3	<1
60367	.9	28.8	4.6	74.6	<30	12	14	1343	4.21	4.0	<5	<1	53	.10	<.2	.1	98	.79	.065	12	18	.62	466	.02	<2	2.82	.01	.15	<2	<.2	42	<.3	<.2	7.2	3
60368	1.1	10.3	4.5	112.3	<30	12	12	1433	3.24	5.3	<5	<1	63	.19	.2	.1	66	.53	.146	9	18	.44	330	.04	<2	2.32	.01	.23	<2	<.2	37	<.3	<.2	6.2	<1
60369	1.0	9.1	5.9	74.3	43	10	6	1436	2.04	2.0	<5	1	27	.11	<.2	.1	45	.25	.084	8	17	.13	156	.10	<2	1.20	.01	.06	<2	<.2	13	<.3	<.2	4.4	2
60370	.6	4.3	4.7	74.1	<30	9	6	539	1.81	.7	<5	1	20	.09	<.2	.1	44	.21	.100	7	16	.16	115	.09	<2	1.25	.01	.05	<2	<.2	16	<.3	<.2	4.7	2
60371	.7	4.7	4.2	56.2	<30	12	5	255	2.02	1.6	<5	1	16	.07	<.2	.1	50	.19	.060	8	21	.18	113	.11	<2	1.23	.01	.05	<2	<.2	25	<.3	<.2	4.5	1
60372	1.2	6.1	4.5	41.3	<30	8	5	338	2.52	6.3	<5	1	19	.06	<.2	<.1	60	.25	.077	5	18	.22	78	.07	<2	1.11	.01	.05	<2	<.2	48	<.3	<.2	4.6	16
60373	.9	5.0	4.8	48.3	157	7	6	323	2.23	2.9	<5	<1	14	.15	<.2	.1	56	.19	.061	5	19	.18	102	.07	<2	.97	.01	.05	<2	<.2	16	<.3	<.2	4.5	51
60374	.6	5.6	4.0	51.0	<30	11	6	276	2.44	3.3	<5	2	16	.07	<.2	.1	57	.21	.109	7	17	.18	83	.09	<2	1.16	.01	.06	<2	<.2	20	<.3	<.2	3.9	2
60375	.6	5.6	4.6	77.9	<30	10	6	522	2.43	2.0	<5	2	18	.10	<.2	.1	58	.26	.108	7	19	.22	126	.12	<2	1.25	.01	.05	<2	<.2	17	<.3	.2	4.1	2
STANDARD	26.0	117.4	103.0	283.0	1877	34	16	986	4.31	66.7	22	17	57	2.23	8.9	21.2	72	.74	.101	16	54	1.14	244	13	26	2.22	.05	.72	19	2.8	544	.6	2.3	6.8	47

Standard is STANDARD D2/HG-500/AU-S.

ICP - 15 GRAM SAMPLE IS DIGESTED WITH 90 ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 100 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 GA AND AL. SOLUTION ANALYSED DIRECTLY BY ICP. MO CU PB ZN AG AS AU CD SB BI TL HG SE TE AND GA ARE EXTRACTED WITH MIBK-ALIQUAT 336 AND ANALYSED BY ICP. ELEVATED DETECTION LIMITS FOR SAMPLES CONTAIN CU,PB,ZN,AS>1500 PPM,Fe>20%.

- SAMPLE TYPE: P1 TO P2 ROCK P3 TO P6 SOIL AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 5 1996 DATE REPORT MAILED: Sept 20/96 SIGNED BY..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U 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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
60376	.5	8.4	2.9	67.3	<30	5	6	425	2.74	1.4	<5	2	19	.08	.9	<.1	70	.28	.067	7	15	.18	159	.07	<2	1.03	.01	.04	<2	.4	28	<.3	.2	4.0	1
60377	.7	7.5	4.1	47.8	<30	7	7	242	3.10	1.9	<5	<1	26	.11	.7	.1	75	.26	.052	8	17	.28	114	.08	<2	1.56	.01	.04	<2	<.2	23	<.3	<.2	4.7	<1
60378	.6	6.2	4.3	48.9	<30	9	6	359	2.66	1.9	<5	1	24	.06	<.2	<.1	67	.29	.064	7	21	.24	180	.13	<2	1.32	.01	.08	<2	<.2	<10	<.3	<.2	4.6	<1
60379	.6	10.4	3.7	42.2	<30	8	6	556	2.68	3.0	<5	2	24	.05	.3	.1	66	.34	.048	10	18	.26	145	.11	<2	1.19	.01	.06	<2	<.2	15	<.3	.2	3.9	<1
60380	.6	7.2	4.1	44.9	<30	7	5	423	2.47	1.0	<5	1	22	.12	<.2	.1	62	.28	.071	8	19	.23	125	.13	<2	1.07	.01	.08	<2	<.2	29	<.3	<.2	4.3	1
60381	.6	7.7	3.3	34.5	<30	7	5	331	2.58	4.8	<5	2	26	.07	<.2	.2	71	.37	.034	8	19	.25	74	.12	<2	1.17	.01	.05	<2	<.2	13	<.3	.2	3.5	6
60382	.7	5.7	4.6	92.4	<30	10	6	490	2.25	1.8	<5	1	26	.11	.2	<.1	53	.38	.088	7	17	.24	141	.11	<2	1.53	.01	.09	<2	<.2	24	<.3	<.2	5.0	1
60383	.7	7.1	3.4	74.7	<30	8	5	726	2.13	3.3	<5	1	26	.13	.2	<.1	51	.31	.077	7	14	.16	146	.08	<2	1.01	.01	.05	<2	<.2	22	<.3	<.2	3.5	<1
60384	1.4	6.4	5.2	45.3	<30	11	7	311	3.34	6.6	<5	1	28	.10	<.2	.1	88	.23	.061	7	26	.22	86	.11	<2	1.51	.01	.06	<2	<.2	36	<.3	<.2	6.0	2
60385	1.2	6.3	7.0	116.9	<30	10	9	2010	2.73	3.3	<5	<1	53	.19	<.2	.2	60	.51	.211	8	19	.23	254	.08	<2	1.78	.01	.08	<2	<.2	36	<.3	<.2	6.5	1
60386	.7	6.0	4.4	42.9	<30	6	7	708	2.42	1.7	<5	<1	23	.07	<.2	.1	61	.28	.091	6	14	.18	113	.09	<2	1.37	.01	.06	<2	<.2	15	<.3	<.2	4.8	1
60387	.5	6.6	4.2	49.4	<30	12	5	430	2.39	2.8	<5	1	26	.06	<.2	<.1	56	.26	.132	7	19	.18	117	.12	<2	1.27	.01	.05	<2	<.2	14	<.3	<.2	3.8	<1
RE 60387	.5	6.4	3.8	49.4	<30	11	5	428	2.39	3.1	<5	1	28	.06	<.2	<.1	57	.27	.129	7	19	.18	116	.12	<2	1.31	.01	.05	<2	<.2	16	<.3	<.2	4.1	<1
60388	.5	6.8	4.1	50.7	<30	10	6	843	2.45	2.7	<5	2	29	.15	<.2	.1	59	.36	.062	8	18	.17	203	.12	<2	1.32	.01	.05	<2	<.2	27	<.3	<.2	4.3	<1
60389	.8	8.6	3.7	43.4	<30	9	7	375	2.58	7.6	<5	3	31	.07	.6	<.1	57	.29	.120	10	17	.16	120	.09	<2	1.18	.02	.08	<2	<.2	22	<.3	<.2	3.5	<1
60390	.7	8.7	4.4	41.1	<30	12	6	348	2.55	7.1	<5	<1	35	.06	.5	.1	60	.42	.073	10	21	.22	94	.13	<2	1.28	.02	.07	<2	<.2	12	<.3	<.2	3.7	4
60391	1.1	12.2	5.0	60.4	42	16	8	888	2.65	3.5	<5	1	45	.04	.2	.1	44	.37	.085	16	19	.21	181	.04	<2	2.69	.01	.06	<2	<.2	44	<.3	<.2	6.7	1
60392	.5	7.4	5.0	43.6	<30	10	4	297	1.66	1.5	<5	1	37	.04	<.2	.1	31	.30	.041	14	15	.17	120	.06	<2	1.61	.01	.05	<2	<.2	37	<.3	<.2	4.4	1
60393	.8	10.5	5.6	71.8	<30	12	7	1046	2.10	2.3	<5	1	35	.05	<.2	.1	37	.28	.071	15	18	.20	169	.07	<2	2.10	.01	.06	<2	<.2	49	<.3	<.2	5.3	1
60394	.6	8.0	5.9	33.6	<30	9	6	361	2.14	5.1	<5	2	36	.05	<.2	.1	44	.32	.078	14	17	.21	101	.10	<2	1.51	.02	.07	<2	<.2	53	<.3	<.2	3.7	1
60395	.5	13.4	5.1	41.0	<30	12	6	301	2.93	7.8	<5	3	57	.03	.4	.1	55	.52	.092	19	22	.29	129	.10	<2	1.77	.03	.09	<2	<.2	83	<.3	<.2	4.3	1
60396	.8	12.0	5.7	64.1	<30	14	9	1453	2.09	2.6	<5	2	56	.08	.3	.1	45	.46	.061	24	18	.23	170	.08	<2	1.57	.02	.06	<2	<.2	43	<.3	<.2	4.2	1
60398	.6	7.4	4.8	51.9	<30	11	5	512	1.93	3.3	<5	2	25	.05	<.2	.1	43	.23	.065	10	16	.18	106	.10	<2	1.41	.01	.04	<2	<.2	35	<.3	<.2	3.8	<1
60399	.9	8.2	5.2	42.4	<30	9	6	460	1.69	3.2	<5	1	38	.06	<.2	.1	39	.37	.083	17	16	.17	109	.10	<2	1.19	.02	.04	<2	<.2	35	<.3	<.2	3.6	1
61800	.6	7.7	4.1	48.6	<30	13	6	309	2.55	4.8	<5	1	56	.06	<.2	.1	55	.40	.169	13	22	.17	133	.11	<2	1.60	.02	.07	<2	<.2	33	<.3	<.2	3.8	<1
61801	.5	6.8	4.7	55.2	<30	12	5	313	2.09	1.8	<5	1	31	.09	<.2	.1	46	.30	.057	14	20	.19	91	.12	<2	1.34	.02	.07	<2	<.2	21	<.3	<.2	4.0	1
61802	.4	5.6	4.2	31.3	<30	8	4	283	1.56	1.9	<5	2	35	.03	<.2	.1	37	.32	.045	13	16	.13	82	.11	<2	.96	.02	.06	<2	<.2	30	<.3	<.2	2.7	1
61803	.3	6.0	4.8	26.9	<30	7	2	148	1.38	2.5	<5	2	31	.02	.3	.1	30	.28	.034	13	14	.16	77	.10	<2	.88	.02	.06	<2	<.2	22	<.3	<.2	2.9	3
61804	.5	6.0	4.8	27.6	<30	6	2	141	1.12	1.8	<5	1	18	.02	<.2	.1	25	.18	.031	8	10	.11	58	.08	<2	.79	.01	.04	<2	<.2	23	<.3	<.2	3.1	4
61805	.5	5.7	4.7	35.0	<30	7	3	252	1.56	2.0	<5	2	25	.02	<.2	.1	35	.24	.036	11	12	.16	86	.10	<2	1.13	.02	.04	<2	<.2	29	<.3	<.2	3.0	1
61806	.5	5.8	5.3	36.4	<30	7	3	169	1.32	1.9	<5	2	27	.01	<.2	.1	30	.27	.046	12	14	.17	84	.10	<2	1.20	.02	.05	<2	<.2	21	<.3	<.2	3.4	1
61807	.4	5.2	4.9	40.0	<30	7	3	311	1.42	1.8	<5	2	25	.02	<.2	.1	33	.24	.034	11	12	.16	76	.11	<2	1.08	.02	.04	<2	<.2	18	<.3	<.2	2.9	1
61808	.7	6.2	4.8	42.4	<30	9	4	324	1.71	2.3	<5	2	27	.02	<.2	.1	38	.25	.032	11	15	.20	83	.11	<2	1.24	.02	.05	<2	<.2	23	<.3	<.2	3.5	1
61809	.8	7.8	5.8	39.9	<30	9	4	371	1.96	3.1	<5	2	40	.03	<.2	.1	41	.43	.095	18	16	.21	102	.09	<2	1.31	.02	.08	<2	<.2	27	<.3	<.2	3.4	4
STANDARD	25.9	124.9	107.3	269.6	1868	33	17	1119	4.50	78.5	21	18	61	2.21	8.8	20.3	76	.77	.110	16	54	1.16	265	.14	28	2.51	.05	.69	18	2.6	530	.5	2.3	6.8	56

Standard is STANDARD D2/HG-500/AU-S. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U 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	Tl ppm	Hg ppb	Se ppm	Ic ppm	Ga ppm	Au+ ppb
61810	.7	6.9	4.6	36.0	<30	8	3	182	1.71	2.6	<5	1	29	.03	.2	.1	45	.24	.053	13	17	.14	71	.09	<2	.79	.01	.04	<2	<.2	27	<.3	<.2	2.9	1
61811	.6	6.1	4.8	57.7	<30	11	5	372	1.92	1.3	<5	1	26	.09	<.2	.1	44	.21	.074	10	17	.16	97	.07	<2	1.24	.01	.06	<2	<.2	24	<.3	<.2	3.8	<1
61812	.6	5.9	4.7	42.2	<30	8	6	375	1.82	1.7	<5	2	26	.04	<.2	<.1	46	.22	.036	12	16	.18	81	.09	<2	1.00	.01	.04	<2	<.2	25	<.3	<.2	3.3	<1
61813	1.0	10.2	7.6	60.9	<30	13	9	908	2.43	3.0	<5	2	41	.07	<.2	.1	55	.35	.056	17	19	.29	121	.11	<2	1.45	.01	.08	<2	<.2	27	<.3	<.2	4.7	1
61814	.6	6.3	3.9	74.9	<30	9	5	444	1.99	.9	<5	2	33	.14	<.2	.1	46	.30	.101	12	20	.14	154	.09	<2	1.04	.01	.08	<2	<.2	23	<.3	<.2	3.6	<1
61815	1.4	6.2	5.2	87.3	<30	8	7	1208	2.22	.8	<5	2	62	.27	<.2	.2	49	.54	.161	10	21	.15	264	.09	<2	1.08	.01	.09	<2	<.2	22	<.3	<.2	4.1	<1
61816	1.2	9.9	6.0	66.6	<30	14	13	1820	3.00	1.3	<5	2	39	.21	<.2	.2	64	.33	.124	8	24	.28	216	.15	2	1.51	.02	.13	<2	<.2	27	<.3	<.2	5.1	<1
61817	1.0	11.7	5.4	73.9	<30	17	7	798	2.43	4.4	<5	2	54	.14	<.2	.1	53	.44	.097	18	25	.26	178	.10	<2	1.56	.02	.09	<2	<.2	29	<.3	<.2	4.6	<1
61818	.9	11.9	5.7	72.2	<30	18	7	519	2.36	3.8	<5	2	43	.12	<.2	.1	50	.35	.067	14	27	.29	138	.13	<2	1.49	.02	.07	<2	<.2	29	<.3	<.2	4.3	2
61819	1.5	12.1	5.4	116.3	<30	22	9	1558	2.50	3.7	<5	1	59	.17	<.2	.1	50	.51	.097	20	26	.28	223	.07	<2	1.81	.02	.12	<2	<.2	41	<.3	<.2	5.0	1
61820	.9	8.6	5.1	49.2	<30	14	6	403	2.11	5.3	<5	2	40	.07	<.2	.1	49	.39	.085	16	22	.26	103	.11	<2	1.09	.02	.07	<2	<.2	36	<.3	<.2	3.3	<1
61821	.5	6.5	6.0	44.0	<30	9	3	260	1.54	1.7	<5	1	31	.06	<.2	.1	40	.28	.034	12	16	.19	88	.13	<2	.92	.02	.05	<2	.2	28	<.3	<.2	2.9	2
61822	.6	7.4	6.8	48.0	<30	10	4	289	1.65	1.7	<5	2	31	.04	<.2	.1	42	.27	.041	12	20	.20	77	.14	<2	1.05	.02	.05	<2	<.2	38	<.3	<.2	3.5	<1
61823	.5	6.4	7.7	48.8	<30	11	3	194	1.65	1.4	<5	3	29	.04	<.2	.1	42	.25	.029	11	21	.20	85	.19	<2	.90	.02	.04	<2	<.2	22	<.3	<.2	3.4	1
61824	.5	5.6	4.8	29.5	<30	7	3	226	1.37	1.3	<5	2	27	.03	.2	.1	37	.25	.030	12	14	.17	71	.12	<2	.75	.02	.04	<2	<.2	22	<.3	<.2	2.7	<1
61825	.6	6.4	4.7	45.9	<30	9	4	388	1.63	1.0	<5	2	30	.03	.2	.1	40	.26	.041	14	17	.16	96	.10	<2	.97	.02	.04	<2	<.2	22	<.3	<.2	3.1	<1
RE 61825	.6	6.4	4.8	46.2	<30	9	4	386	1.61	1.0	<5	1	31	.04	<.2	.1	41	.27	.041	14	18	.16	95	.10	<2	1.00	.02	.04	<2	<.2	28	<.3	<.2	3.1	4
61826	.7	6.7	5.2	41.0	<30	9	4	203	1.72	1.9	<5	2	29	.03	.3	.1	45	.24	.046	14	16	.14	88	.11	<2	.87	.02	.04	<2	<.2	27	<.3	<.2	3.2	<1
61827	.5	5.4	6.0	34.4	<30	7	3	224	1.31	1.8	<5	2	29	.02	.2	.1	35	.25	.047	14	13	.17	86	.12	<2	.95	.02	.03	<2	.2	29	<.3	<.2	3.0	2
61828	2.0	14.7	7.3	76.0	<30	19	15	1470	3.17	7.0	<5	1	83	.06	<.2	.2	61	.62	.127	29	26	.29	257	.06	<2	3.34	.02	.10	<2	<.2	73	<.3	<.2	8.1	2
61829	.5	5.4	5.7	34.0	<30	7	3	158	1.34	1.5	<5	2	26	.03	<.2	.1	33	.23	.027	11	15	.20	78	.12	<2	1.11	.01	.03	<2	<.2	29	<.3	<.2	3.1	<1
61830	.5	6.1	4.9	34.9	<30	8	4	295	1.55	2.8	<5	1	27	.04	<.2	.1	38	.24	.042	11	16	.15	84	.10	<2	1.16	.01	.04	<2	<.2	27	<.3	<.2	3.6	6
61831	.4	5.2	5.1	24.3	<30	7	3	173	1.36	2.5	<5	2	26	.02	<.2	<.1	35	.23	.044	12	14	.14	71	.12	<2	.94	.02	.03	<2	<.2	26	<.3	<.2	2.8	1
61832	.6	6.2	5.5	38.0	<30	8	4	284	1.52	2.0	<5	2	29	.02	.2	.1	39	.26	.051	12	16	.17	94	.12	<2	1.21	.02	.04	<2	<.2	30	<.3	<.2	3.6	1
61833	.4	5.7	4.6	25.1	<30	7	3	227	1.56	2.8	<5	2	31	.02	<.2	.1	38	.29	.058	13	16	.17	99	.12	<2	1.13	.02	.04	<2	<.2	40	<.3	<.2	2.9	1
61834	.6	8.2	4.9	40.3	<30	11	5	290	2.13	3.3	<5	3	37	.03	.2	.1	52	.34	.063	15	23	.22	125	.13	<2	1.46	.02	.07	<2	<.2	46	<.3	<.2	3.8	21
61835	.6	4.7	5.1	53.5	<30	8	4	318	1.43	.8	<5	2	25	.03	<.2	<.1	38	.21	.030	10	16	.16	101	.11	<2	1.04	.02	.03	<2	<.2	23	<.3	<.2	3.2	1
61836	.4	7.6	6.1	31.2	<30	8	4	137	1.68	4.2	<5	3	32	.02	<.2	.1	42	.32	.064	15	17	.23	77	.12	<2	1.07	.02	.06	<2	<.2	39	<.3	<.2	3.3	1
61837	.9	9.5	5.2	46.2	<30	11	6	764	2.04	2.6	<5	2	37	.04	<.2	.1	48	.31	.053	16	18	.23	129	.09	<2	1.53	.02	.05	<2	<.2	40	<.3	.2	4.5	1
61838	.9	7.8	5.2	42.9	<30	10	6	618	1.92	2.5	<5	2	34	.03	.2	.1	46	.27	.047	17	18	.20	113	.10	<2	1.37	.02	.05	<2	<.2	32	<.3	<.2	4.1	1
61839	2.1	19.3	6.0	69.4	62	24	11	2840	3.24	5.9	<5	<1	85	.08	.5	.1	54	.72	.100	38	29	.39	269	.04	<2	3.20	.02	.12	<2	<.2	115	<.3	<.2	8.2	<1
61840	.6	5.7	5.2	40.1	<30	8	4	217	1.63	1.0	<5	2	31	.03	<.2	.1	41	.24	.041	11	17	.17	100	.10	<2	1.05	.02	.04	<2	<.2	28	<.3	<.2	3.5	1
61841	.9	8.3	6.0	65.8	36	12	8	460	2.41	2.9	<5	1	38	.08	.4	.1	53	.31	.103	15	20	.19	133	.10	<2	1.37	.01	.06	<2	<.2	50	<.3	<.2	5.0	<1
61842	.7	7.9	5.2	109.9	37	13	6	509	2.27	2.8	<5	2	35	.11	<.2	.1	46	.28	.169	12	20	.16	138	.09	<2	1.62	.01	.07	<2	<.2	39	<.3	<.2	5.2	58
STANDARD	26.0	124.7	104.5	269.9	1920	32	16	1037	4.29	71.4	24	18	60	2.33	8.2	20.1	75	.71	.107	17	54	1.20	258	.14	28	2.34	.05	.69	19	2.5	553	.4	2.1	6.9	48

Standard is STANDARD D2/HG-500/AU-S. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U 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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
61843	.5	10.3	3.7	31.7	<30	10	6	272	2.30	7.3	<5	3	40	.04	.3	.1	51	.34	.069	15	19	.20	104	.12	<2	1.06	.02	.07	<2	.3	93	<.3	<.2	3.2	3
61844	.3	6.5	4.0	32.9	<30	8	3	307	1.42	1.9	<5	1	30	.04	<.2	.1	31	.26	.025	10	13	.19	82	.11	<2	.99	.02	.05	<2	<.2	26	<.3	<.2	3.1	1
61845	.4	5.5	4.3	27.6	<30	8	4	286	1.37	1.5	<5	1	31	.03	<.2	.1	31	.24	.030	12	13	.17	83	.10	<2	1.05	.02	.04	<2	<.2	26	<.3	<.2	3.0	<1
61846	.5	4.6	5.0	22.1	<30	5	3	180	1.35	1.2	<5	2	27	.02	<.2	.1	35	.22	.022	10	12	.15	66	.12	<2	.85	.02	.04	<2	<.2	25	<.3	<.2	2.9	6
61847	.5	5.9	5.0	40.5	<30	8	4	229	1.51	1.3	<5	2	31	.03	.2	.1	37	.27	.028	11	15	.19	78	.12	<2	1.12	.02	.06	<2	<.2	21	<.3	<.2	3.6	3
61848	.8	5.9	4.3	43.9	<30	9	5	281	1.94	2.8	<5	2	31	.07	<.2	<.1	47	.28	.102	9	17	.14	97	.10	<2	1.10	.01	.08	<2	<.2	34	<.3	<.2	3.4	3
61849	.6	7.9	3.7	35.0	<30	11	5	184	2.16	6.2	<5	<1	28	.05	.2	.1	53	.26	.055	11	19	.19	102	.11	<2	1.18	.01	.08	<2	.2	24	<.3	<.2	3.6	2
61850	.7	6.6	4.7	49.8	<30	12	6	562	2.39	4.5	<5	1	37	.08	.2	.1	58	.36	.124	10	21	.21	115	.12	<2	1.50	.01	.15	<2	<.2	26	<.3	<.2	4.3	<1
RE 61850	.7	6.4	4.4	48.2	<30	12	6	546	2.30	4.3	<5	1	36	.07	.2	<.1	57	.36	.120	10	21	.20	112	.12	<2	1.45	.01	.15	<2	<.2	16	<.3	<.2	4.3	<1
61851	.4	5.7	4.4	29.3	<30	7	3	164	1.44	1.5	<5	1	25	.03	<.2	<.1	36	.23	.031	9	13	.14	76	.11	<2	1.00	.01	.05	<2	<.2	17	<.3	<.2	3.4	<1
61852	.5	7.7	4.8	34.5	<30	9	5	242	1.87	3.0	<5	1	32	.04	.2	.1	40	.30	.065	11	15	.18	83	.12	<2	1.27	.02	.06	<2	.2	27	<.3	<.2	4.0	1
61853	.5	7.4	3.9	33.7	<30	9	3	256	1.60	2.2	<5	1	33	.05	.3	<.1	34	.30	.037	12	13	.19	74	.09	<2	1.22	.02	.06	<2	<.2	37	<.3	<.2	3.9	11
61854	.8	6.1	5.1	67.9	<30	10	5	524	1.89	2.1	<5	1	36	.09	<.2	.1	41	.31	.096	8	16	.14	122	.10	<2	1.23	.01	.06	<2	<.2	38	<.3	<.2	4.5	1
61855	.5	7.6	3.4	36.5	<30	10	5	213	2.35	5.7	<5	2	30	.04	1.0	<.1	59	.27	.054	12	20	.19	79	.13	15	1.15	.02	.09	<2	<.2	32	<.3	<.2	3.0	3
STANDARD	24.7	126.9	111.5	270.1	1920	33	16	1040	4.38	70.7	19	18	61	2.37	8.4	20.6	76	.72	.107	17	58	1.20	265	.14	27	2.38	.05	.70	19	2.2	553	.6	2.0	7.0	50

Standard is STANDARD D2/HG-500/AU-S. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

APPENDIX III

LOGISTICAL REPORT ON INDUCED POLARIZATION SURVEY
by
Peter E. Walcott & Associates Limited
October 1996

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PETER E. WALCOTT
& ASSOCIATES LTD

Geophysical Services

A LOGISTICAL REPORT

ON

INDUCED POLARIZATION SURVEYING

CUTOFF and YELLOW MOOSE PROPERTIES

N.T.S. 93F/6,11

FOR

PHELPS DODGE CORPORATION OF CANADA, LIMITED

Toronto, Ontario

BY

PETER E. WALCOTT & ASSOCIATES LIMITED

Vancouver, British Columbia

OCTOBER 1996

PETER E. WALCOTT
& ASSOCIATES LTD

Geophysical Services

INTRODUCTION.

Between August 18th and September 6th, 1996 Peter E. Walcott & Associates Limited carried out induced polarization (I.P.)surveying in the Yellow Moose Lake area of British Columbia, for Phelps Dodge Corporation of Canada, Limited.

The surveying was conducted over 4 small grids on "hip chain and compass" lines established by Phelps Dodge personnel.

Measurements (first to sixth separation) of apparent chargeability (the I.P. response parameter) and resistivity were made using the pole-dipole with a 25 metre dipole on the two Arrow grids, and using a 50 metre dipole on the Trout and Quartz grids respectively.

The progress of the survey was severely hampered by sections of thick bush and windfall particularly on the Arrow grids where no attempts were made to facilitate ease of passage by the grid establishment crew.

The I.P. data are presented on individual pseudosections bound in this report.

PETER E. WALCOTT
& ASSOCIATES LTD

Geophysical Services

SURVEY SPECIFICATIONS.

The induced polarization (I.P.) survey was conducted using a pulse type system, the principal components of which are manufactured by Androtex Limited of Metropolitan Toronto, Ontario, and BRGM Instruments of Orleans, France.

The system consists basically of three units, a receiver (BRGM), a transmitter and a motor generator (Huntec). The transmitter, which provides a maximum of 7.5kw d.c. to the ground, obtains its power from a 7.5kw 400 c.p.s. three phase alternator driven by a gasoline engine. The cycling rate of the transmitter is 2 seconds "current-on" and 2 seconds "current-off" with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through the current electrodes C_1 and C_2, the primary voltages (V) appearing between any two potential electrodes, P_1 through P_7, during the "current-on" part of the cycle, and the apparent chargeability, (M_a) presented as a direct readout in millivolts per volt using a 100 millisecond delay and a 1000 millisecond sample window by the receiver, a digital receiver controlled by a micro-processor - the sample window is actually the total of ten individual windows of 100 millisecond widths.

The apparent resistivity (ρ_a) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values wich that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The survey was carried out using the "pole-dipole" method of surveying. In this method the current electrode, C_1, and the potential electrodes, P_1 through P_7, are moved in unison along the survey lines at a spacing of "a" (the dipole) apart, while the second current electrode, C_2, is kept constant at "infinity". The distance, "na" between C_1 and the nearest potential electrode generally controls the the depth to be explored by the particular separation, "n", traverse.

On this survey a 25 metre dipole was employed on the Arrow East and West grids and first to sixth separation readings were obtained on all the lines surveyed, while a 50 metre dipole was used on the Trout and Quartz grids.

The survey was originally started with a 2.5kw transmitter using the dipole-dipole technique but low input currents - circa one ampere - and high ground noise levels forced recourse to the pole-dipole method with its more favourable geometric factors.

In all some 8.6 kms of I.P. traversing were carried out on hte Arrow East grid, some 4.0 kms on the Arrow West, some 5.2 kms on the Trount, and some 5.0 on the Quartz, for a total of some 22.8 kms on the four grids.

PETER E. WALCOTT
& ASSOCIATES LTD

Geophysical Services

PERSONNEL EMPLOYED ON SURVEY.

Name	Occupation	Address	Dates
Peter E. Walcott	Geophysicist	Peter E. Walcott & Assoc. 605 Rutland Court, Coquitlam, B.C V3J 3T8	Oct. 9th - 10th 1996
A. Walcott	Geophysical Operator	"	Aug. 18th - Sept. 1st 1996 Oct. 1st - 4th, 96
G. MacMillan	"	"	Aug. 31st - Sept. 6th, 1996
D. Hewitt	"	"	Aug. 18th - Sept. 6th 1996
P. Sly	Geophysical Helper	"	Aug. 18th - Aug. 31st 1996
D. MacDougal	"	"	Aug. 18th - Sept. 6th, 1996
R. Nuisker	"	"	August 30th - Sept. 6th, 1996
T. Kocan	"	"	Aug. 21st - Aug. 31st, 1996
J. Daenens	"	"	Aug. 30th - Sept. 6th, 1996
J. Walcott	Typing	"	Oct. 10th, 1996

APPENDIX IV

DIAMOND DRILL RE-LOGS

Suite 1409-409 Granville Street, Vancouver, BC V6C 1T8
Telephone (604)669-2954 Fax (604) 681-3920

LITHOLOGIC KEY FOR DRILL RE-LOGS

			LEGEND
	SYMBOL	COLOUR	DESCRIPTION
	OB	11 (Light Cyan)	Overburden
			EOCENE
	Eb	0 (Black)	Grey to black amygdaloidal basalt with olivine phenocrysts
	Ebmbx	0 (Black)	Basalt Breccia
			UPPER CRETACEOUS
			Kasalka Group
	uKKmbx	4 (Red)	Monolithic Breccia: Common lithic fragments such as andesite, tuff or rhyodacite set in fine grained matrix.
	uKKpbx	4 (Red)	Polylithic Breccia:
	uKKdk	0 (Black)	Andesite Dyke
	Sand	6 (Brown)	Sand: unconsolidated
	uKKcgl	8 (Grey)	Monomictic conglomerate
	uKKpcgl	4 (Red)	Polymictic Conglomerate
	uKKrd	3 (Cyan)	Rhyodacite
	uKKl	6 (Brown)	Lahar: 10-15% lithic fragments set in maroon tuffaceous or mud rich matrix, matrix supported
	uKKt	10 (Light Green)	Tuff: undifferentiated
	uKKct,lt	10 (Light Green)	Mixed Crystal Lithic and lapilli Tuff
	uKKlt,ct	10 (Light Green)	Mixed lapilli and crystal lithic tuff
	uKKct	10 (Light Green)	Crystal Lithic Tuff
	uKKlt	10 (Light Green)	Lapilli Tuff
	uKKv	2 (Green)	Andesite, usually porphyritic
			MIDDLE JURASSIC
			Canyon creek group
	mJCmzdk	0 (Black)	Monzonite Dyke, usually coarse grained
	mJCpbx	0 (Black)	Polylithic breccia
	mJCmbx	0 (Black)	Monolithic breccia
	mJCct	0 (Black)	Crystal lithic Tuff
	mJClt	0 (Black)	Lapilli Tuff
	mJCv	0 (Black)	Andesite
	FZ	0 (Black)	Fault zone
	FZpy	14 (Yellow)	Fault Zone pyritic

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384612E; 5946020N	**Length(m):**	81.1	**Hole No.:**	TR 85-1 RE-LOG
Azimuth:	142°	**Core Size:**	NQ	**Page:**	1 of 1
Dip:	-45°	**Dip Tests:**	-45° @ 79.2m	**Property:**	Cutoff
Started:	June 5/85	**Elevation:**	847.5m	**Section:**	
Completed:	June 9/85	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results			
										Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	32.0	Casing: Coring started at 32.0m.	OB										
32.0	65.8	Polylithic Breccia: Subangular fragments set in maroon matrix with finer grained lithic fragments. The subangular fragments consist of feldspar porphyry and fine grained volcanic rock. Locally are angular fragments of white quartz. 59.6m: Weak to moderately strong banded quartz-adularia veining. Amount of quartz-adularia veining increases below 59.6m.	uKKpbx	46301	38.1	39.6	1.5			65	0.8		
				46302	39.6	42.7	3.0			30	0.3		
				46303	42.7	44.2	1.5			500	0.3		
				46304	44.2	45.7	1.5			115	0.4		
				46305	45.7	47.2	1.5			55	0.2		
				46306	47.2	48.8	1.5			30	0.3		
				46307	48.8	50.3	1.5			75	0.9		
				46308	50.3	51.8	1.5			105	0.8		
				46309	51.8	53.3	1.5			80	1.1		
				46310	53.3	54.9	1.5			60	1.3		
				46311	54.9	56.4	1.5			75	0.3		
				46312	56.4	57.9	1.5			75	0.8		
				46313	57.9	59.9	2.0			55	1.6		
65.8	68.3	Rhyoucacite: Fine grained rounded to subangular quartz phenocrysts set in a fine grained pink groundmass. Trace to less than 1% disseminated pyrite throughout groundmass. Rhyodacite is locally intensely fractured with the fractures infilled with chalcedony/quartz. The chalcedony/quartz veinlets are up to 3mm and form a weak to moderately strong stockwork. Trace disseminated fine grained pyrite in a stockwork.	uKKrd	46314	59.9	60.7	0.8			6700	190.0		
				46315	60.7	62.5	1.8			270	5.5		
				46316	62.5	64.0	1.5			140	2.3		
				46317	64.0	65.8	1.8			820	37.0		
				46318	65.8	67.1	1.2			340	2.8		
				46319	67.1	68.3	1.2			70	4.4		
68.3	81.1	Fault Gouge: Angular to rounded andesite, rhyodacite and quartz fragments set in a soft green clay rich matrix. 73.5-73.8m- Abundant quartz-calcite veins. 78.3-81.1m- Abundant brecciated quartz/chalcedony vein material.	FZ	46320	68.3	70.1	1.8			210	3.6		
				46321	70.1	72.2	2.1			70	2.5		
				46322	72.2	73.8	1.5			270	3.3		
				46323	73.8	75.3	1.5			70	3.0		
				46324	75.3	78.3	3.0			2600	26.0		
				46325	78.3	79.6	1.2			5820	49.5		
	81.1	End of Hole.		46326	79.6	81.1	1.5			3260	41.5		

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384462E; 5946265N	**Length(m):**	122.8	**Hole No.:**	TR 85-4 RE-LOG
Azimuth:	230°	**Core Size:**	NQ	**Page:**	1 of 1
Dip:	-45°	**Dip Tests:**		**Property:**	Cutoff
Started:	June 11/85	**Elevation:**	865.1m	**Section:**	
Completed:	June 13/85	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	B. Terry

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
																Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	3.1	Overburden	OB																
3.1	29.9	Monolithic Breccia: Subangular to subrounded fragments of maroon feldspar phyric andesite set in a fine grained siliceous green matrix. Matrix supported. Locally throughout interval are open voids partially infilled with quartz/chalcedony.	uKKmbx	46327	4.6	6.1	1.5									80	0.7		
				46328	6.1	7.6	1.5									100	1.0		
				46329	7.6	9.1	1.5									270	1.1		
				46330	9.1	10.7	1.5									125	1.4		
				46331	10.7	12.2	1.5									65	1.0		
				46332	12.2	13.7	1.5									75	1.1		
				46333	13.7	15.2	1.5									980	10.8		
				46334	15.2	16.8	1.5									55	1.2		
				46335	16.8	18.3	1.5									360	3.2		
				46336	18.3	19.8	1.5									110	0.8		
				46337	19.8	21.3	1.5									125	1.1		
				46338	21.3	22.9	1.5									130	1.3		
				46339	22.9	24.4	1.5									85	0.9		
				46340	24.4	25.9	1.5									45	1.0		
				46341	25.9	27.4	1.5									90	1.0		
				46342	27.4	29.0	1.5									130	0.9		
29.9	117.6	Andesite Flow Breccia: Green to maroon, medium grained fragments set in a fine grained groundmass. Fragment supported. Cloudy green plagioclase phenocrysts range in size from <1mm to 3mm. no preferred orientation to phenocrysts. Andesite is weakly propylitically altered with calcite veinlets throughout interval. Weak to moderately developed quartz/adularia veining near the top of the interval. Locally quartz veining is well developed within the andesite as at 30.5m and 32.0m	uKKv	46343	29.0	30.5	1.5									40	1.1		
				46344	30.5	32.0	1.5									70	0.8		
				46345	32.0	33.5	1.5									270	1.4		
				46346	33.5	35.1	1.5									15	0.6		
				46347	35.1	36.6	1.5									5	0.2		
				46348	36.6	38.1	1.5									25	0.2		
				46349	38.1	39.6	1.5									40	0.1		
				46350	39.6	41.1	1.5									5	0.1		
				46351	41.1	42.7	1.5									5	0.1		
117.6	122.8	Lapilli: Maroon, soft, tuffaceous matrix with subrounded andesite fragments. Matrix supported.	uKKl																
	122.8	End of Hole.																	

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384708E; 5946082N	Length(m):	29.6	Hole No.:	TR 85-5 RE-LOG
Azimuth:	150°	Core Size:	NQ	Page:	1 of 1
Dip:	-45°	Dip Tests:		Property:	Cutoff
Started:	June 13/85	Elevation:	848.0m	Section:	
Completed:	June 14/85	Date Logged:		Claim No:	
Purpose:				Logged By:	B. Terry

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results			
										Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	10.0	Overburden	OB										
10.0	29.6	Andesite Flow Breccia: Green and maroon andesite fragments set in a hematite stained fine grained matrix. Locally calcite veinlets throughout interval. Trace disseminated pyrite throughout matrix.	LKKv	46352	10.4	12.2	1.8			20	0.1		
				46353	12.2	13.7	1.5			15	0.1		
				46354	13.7	15.2	1.5			135	0.4		
				46355	15.2	16.8	1.6			295	0.4		
				46356	16.8	18.3	1.5			10	0.2		
				46357	18.3	19.8	1.5			5	0.1		
				46358	19.8	21.3	1.5			55	0.3		
				46359	21.3	22.8	1.5			100	0.3		
				46360	22.8	24.4	1.6			20	0.1		
				46361	24.4	26.0	1.6			35	0.6		
				46362	26.0	27.4	1.4			105	0.9		
	29.6	End of Hole.		46363	27.4	29.6	2.2			70	0.2		

DIAMOND DRILL RECORD

Location:	UTM COORD'S 364708E; 5946082N	**Length(m):**	160.6	**Hole No.:**	TR 85-6 RE-LOG
Azimuth:	150°	**Core Size:**	NQ	**Page:**	1 of 2
Dip:	-60°	**Dip Tests:**	-60° @ 76.2m, -60° @ 160.6m	**Property:**	Cutoff
Started:	June 14/85	**Elevation:**	848.0m	**Section:**	
Completed:	June 17/85	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	B. Terry

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
																Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	15.8	Overburden	OB																
15.8	35.2	Andesite Flow Breccia: Green and maroon subrounded to angular fragments set in a fine grained tuffaceous matrix. Moderate to strong propylitization throughout interval. Trace disseminated fine grained pyrite throughout matrix. 30.8m: strong quartz/calcite veining.	uKKv	46376	16.8	18.3	1.5									5	0.4		
				46377	18.3	19.8	1.5									5	0.3		
				46378	19.8	21.3	1.5									15	0.3		
				46379	21.3	22.9	1.5									55	0.3		
				46380	22.9	24.4	1.5									5	0.4		
				46381	24.4	25.9	1.5									5	0.4		
				46382	25.9	27.4	1.5									5	0.4		
				46383	27.4	29.0	1.5									10	0.4		
				46384	29.0	30.5	1.5									5	0.3		
				46385	30.5	32.0	1.5									65	0.4		
				46386	32.0	33.5	1.5									40	0.3		
				46387	33.5	35.2	1.7									5	0.1		
35.2	44.8	Fault Zone: Grey to dark grey fault gouge, pyritic.	FZpy	46388	35.2	36.6	1.4									5	0.1		
				46389	36.6	38.1	1.5									5	0.1		
				46390	38.1	39.8	1.5									5	0.1		
				46391	39.6	41.1	1.5									5	0.1		
				46392	41.1	42.7	1.5									5	0.1		
44.8	49.4	Crystal Lithic Tuff: 2mm-3mm plagioclase phenocrysts set in a mottled dark grey-green-maroon matrix. Throughout interval is quartz/calcite infilling fractures. Trace to <1% disseminated pyrite and trace magnetite throughout matrix.	mJCct	46393	42.7	44.8	2.1									5	0.1		
				46394	44.8	45.7	0.9									5	0.1		
				46395	45.7	47.2	1.5									5	0.1		
				46396	47.2	49.4	2.1									50	0.3		
49.4	145.1	Monolithic Breccia: Sheared and brecciated rhyodacite fragments set in a pinkish siliceous sericite rich matrix. Matrix is calcareous with trace disseminated pyrite. 68.6-114.3m: Intense brecciation and alteration of rhyodacite Breccia is composed of fine grained light grey siliceous fragments which have in turn been intensely silicified and sericite altered. Interval is intensely fractured with well developed quartz stockwork. Locally 1% to 2% disseminated fine grained pyrite throughout.	mJCmbx	46397	49.4	50.3	0.9									75	0.1		
				46398	50.3	51.8	1.5									25	0.1		
				46399	51.8	53.3	1.5									15	0.1		
				46400	53.3	54.9	1.5									5	0.1		
				46401	54.9	56.4	1.5									5	0.2		
				46402	56.4	57.9	1.5									5	0.2		
				46403	57.9	59.4	1.5									5	2.8		
				46404	59.4	61.0	1.5									10	1.2		
				46405	61.0	68.6	7.6									5	2.0		
				46406	68.6	70.1	1.5									5	1.2		
				46364	70.1	71.6	1.5									100	0.3		
				46365	71.6	73.2	1.5									100	0.7		
				46366	73.2	74.7	1.5									100	1.4		
				46367	74.7	76.2	1.5									100	1.4		
				46368	76.2	77.7	1.5									100	1.4		
				46369	77.7	79.2	1.5									100	0.3		
				46370	79.2	80.8	1.5									100	2.1		
				46371	80.8	82.3	1.5									100	0.3		
				46372	82.3	83.8	1.5									100	2.1		
				46373	83.8	85.3	1.5									100	0.3		
				46374	85.3	86.9	1.5									100	0.3		
				46408	86.9	88.4	1.5									70	0.5		
				46409	88.4	89.9	1.5									70	0.3		
				46410	89.9	91.4	1.5									70	1.3		
				46411	91.4	93.0	1.5									70	0.3		

DIAMOND DRILL RECORD

Hole No.: TR85-6 RE-LOG
Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
																Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
48.4	145.1 (Cont'd)			46412	93.0	94.5	1.5									70	0.3		
				46413	94.5	96.0	1.5									70	0.3		
				46414	96.0	102.1	6.1									70	0.3		
				46415	102.1	103.6	1.5									70	0.3		
				46416	103.6	105.2	1.5									70	0.5		
				46417	105.2	106.7	1.5									70	0.3		
				46418	106.7	108.2	1.5									70	0.3		
				46419	108.2	109.7	1.5									70	0.3		
				46420	109.7	111.3	1.5									70	0.3		
				46421	111.3	112.8	1.5									70	0.3		
				46422	112.8	114.3	1.5									70	1.3		
		114.3-115.8m: light pink, silicified, sericite altered fragments set in a dark grey calcareous matrix. 1%-2% disseminated fine grained pyrite throughout interval. Fragments are also calcareous.		46423	114.3	115.8	1.5									5	3.4		
				46424	115.8	117.3	1.5									5	0.6		
				46425	117.3	118.9	1.5									5	0.1		
		115.8-133.2m: light pink, angular to rounded rhyodacite fragments in a quartz-sericite matrix. Locally the fragments are fractured and healed with calcite and quartz. Weak to locally moderate propylitic alteration throughout this interval.		46426	118.9	120.4	1.5									5	0.1		
				46427	120.4	121.9	1.5									5	0.1		
				46428	121.9	123.4	1.5									5	0.1		
				46429	123.4	125.0	1.5									5	0.1		
				46430	125.0	126.5	1.5									5	0.1		
				46431	126.5	128.0	1.5									5	0.1		
				46432	128.0	129.5	1.5									5	0.1		
				46433	129.5	131.1	1.5									5	0.1		
				46434	131.1	133.2	2.1									5	0.1		
		133.2-145.1m: intensely silicified light grey to pink rhyodacite breccia. 1% disseminated pyrite on fracture surfaces.		46435	133.2	135.6	2.4									5	0.1		
				46436	138.7	141.7	3.0									5	0.1		
145.1	149.0	Andesite Dyke: Medium to dark grey fine grained porphyritic dyke. 2mm-3mm white to greenish white plagioclase phenocrysts throughout. Rock is weakly magnetic.	uKKdk	46437	145.1	149.0	4.0									5	0.1		
				46438	149.0	152.4	3.4									5	0.2		
149.0	154.5	Monolithic Breccia: Light grey to pink fragments set in darker grey fine grained matrix. Locally the rock is fractured with a well developed quartz stockwork. Trace to 1% disseminated pyrite on fracture surfaces.	mJCmbx	46439	154.5	154.8	0.3									5	0.2		
				46440	154.8	157.9	3.0									5	0.1		
				46441	157.9	159.4	1.5									5	1.0		
154.5	154.9	Andesite Dyke: Medium to dark grey fine grained porphyritic dyke. 2mm-3mm white to greenish white plagioclase phenocrysts throughout. Rock is weakly magnetic.	uKKdk																
154.9	157.9	Monolithic Breccia: Light grey to pink fragments set in darker grey fine grained matrix. Well developed quartz stockwork with trace to 1% disseminated pyrite on fracture surfaces.	mJCmbx																
157.9	159.4	Andesite Dyke: Fine grained, grey to dark grey porphyritic dyke.	uKKdk																
159.4	160.6	Monolithic Breccia: Light grey to pink fragments set in darker grey fine grained matrix. Well developed quartz stockwork with trace to 1% disseminated pyrite on fracture surfaces.	mJCmbx																
	160.6	End of Hole.																	

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384677E; 5946033N	Length(m):	148.4	Hole No.:	TR 85-7 RE-LOG
Azimuth:	150°	Core Size:	NQ	Page:	1 of 2
Dip:	-60°	Dip Tests:	-62° @ 147.8m	Property:	Cutoff
Started:	June 17/85	Elevation:	847.6	Section:	
Completed:	June 20/85	Date Logged:		Claim No:	
Purpose:				Logged By:	B. Terry

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	10.4	Overburden	OB										
10.4	19.4	Porphyritic Andesite: 2mm to 4mm white plagioclase phenocrysts set in a fine grained maroon matrix. Rock is locally fractured with fractures infilled with chalcedony/ quartz.	uKKv	46444	10.4	12.2	1.8			25	0.3		
				46445	12.2	13.7	1.5			15	0.1		
				46446	13.7	15.2	1.5			50	0.1		
		13.4-14.0m: 1cm wide chalcedony/quartz vein.		46447	15.2	16.8	1.5			10	0.1		
		16.8-19.8m: strong, coarse chalcedony/quartz stockwork.		46448	16.8	19.8	3.0			1300	5.4		
19.4	26.4	Fault Zone: Light grey sericite rich fault gouge with angular to rounded quartz fragments and <1% to 2% disseminated fine grained pyrite.	FZpy	46449	19.8	22.9	3.0			290	1.4		
				46450	22.9	26.4	3.5			40	1.2		
26.4	26.7	Crystal Lithic Tuff: Polylithic fragments set in a pink to grey fine grained matrix. Rock is fractured with fractures infilled with quartz and chalcedony.	uKKct	46451	26.4	26.7	0.3			25	0.7		
				46452	26.7	27.7	1.1			20	0.1		
		Fine grained disseminated pyrite throughout interval.		46453	27.7	32.0	4.3			245	1.9		
26.7	27.7	Fault Zone: Maroon coloured fine grained fault gouge.	FZ	46454	32.0	34.6	2.6			20	0.2		
27.7	31.0	Crystal Lithic Tuff: Maroon-grey highly fractured rock with well developed quartz-adularia veining throughout interval.	uKKct	46455	34.6	38.7	4.1			50	2.7		
				46456	38.7	39.9	1.2			5	0.1		
31.0	36.6	Fault Zone: Grey-green fault gouge with brecciated quartz vein material and 1%-2% disseminated pyrite.	FZpy	46457	39.9	41.8	1.8			5	0.1		
				46458	41.8	42.7	0.9			5	0.3		
36.6	38.7	Polymictic Breccia: Grey siliceous rock fragments with quartz and calcite fragments set in a dark grey intensely silicified groundmass. Trace disseminated fine grained pyrite throughout interval.	uKKpbx	46459	42.7	45.7	3.0			5	0.1		
				46460	45.7	48.8	3.0			5	0.1		
				46461	48.8	51.5	2.7			5	0.1		
		37.8m: Trace disseminated galena.		46462	51.5	53.8	2.3			5	0.1		
		38.1m: Trace disseminated galena.		46463	53.8	54.3	0.5			5	0.1		
38.7	42.6	Fault Zone:Light green-grey-maroon milled rock and clay rich fault gouge.	FZ	46464	54.3	57.9	3.7			5	0.1		
		39.9-41.6m: Light green angular rock fragments set in an intensely silicified and sericite rich matrix.		46465	57.9	60.2	2.3			5	0.1		
				46466	60.2	63.1	2.9			5	0.1		
		41.6-42.6m: Maroon-grey clay rich fault gouge.		46467	63.1	64.0	0.9			5	0.1		
42.6	51.5	Crystal Lithic Tuff: 2mm to 4mm feldspar phenocrysts set in a fine grained maroon matrix. Rock is weakly fractured with the fractures healed with calcite and minor quartz. Rock is weakly silicified. Trace disseminated fine grained pyrite.	mJCct	46468	64.0	66.1	2.1			5	0.1		
				46469	66.1	70.1	4.0			5	0.1		
				46470	70.1	74.7	4.6			5	0.1		
51.5	53.8	Fault Zone: Maroon fault gouge.	FZ	46471	74.7	76.7	2.0			5	0.1		
53.8	54.2	Porphyritic Andesite: 3mm-5mm feldspar phenocrysts set in a fine grained maroon matrix	mJCv	46472	76.7	78.9	2.3			5	0.1		
				46473	78.9	82.0	3.0			5	0.1		
54.2	57.9	Fault Zone: Maroon fault gouge.	FZ	46474	82.0	85.3	3.4			5	0.1		
57.9	63.1	Crystal Lithic Tuff: Medium to coarse grained feldspar phyric tuff. Matrix is fine grained showing graded bedding (finer grained towards top of hole)	mJCct	46475	85.3	88.4	3.0			5	0.1		
				46476	88.4	91.4	3.0			5	0.1		
		60.2-61.6m: Maroon mudstone.		46477	91.4	94.5	3.0			5	0.1		
		61.9-63.1m: Maroon mudstone.		46478	94.5	97.5	3.0			5	0.1		
63.1	64.3	Porphyritic Andesite: 3mm-5mm feldspar phenocrysts set in a fine grained maroon matrix	mJCv	46479	97.5	100.6	3.0			10	0.1		
				46480	100.6	103.6	3.0			20	0.1		
64.3	64.6	Andesite dyke: Fine grained amygdaloidal andesite with white calcite infilling	uKKdk	46481	103.6	106.7	3.0			5	0.1		
		Upper contact 40° to c/a		46482	106.7	109.7	3.0			5	0.1		
64.6	66.1	Porphyritic Andesite: 3mm-5mm feldspar phenocrysts set in a fine grained maroon matrix	mJCv	46483	109.7	112.2	2.4			5	0.1		
				46484	112.2	113.1	0.9			5	0.5		
66.1	67.7	Crystal Lithic Tuff: Maroon-orange fine grained with .1cm to 2cm angular fragments set in fine grained matrix. Rock is weakly silicified. Fractures are infilled with	mJCct	46485	113.1	115.8	2.7			5	0.1		
				46486	115.8	118.9	3.0			5	0.1		
67.7	68.9	Fault Zone: Maroon fault gouge.	FZ	46487	118.9	121.9	3.0			5	0.1		
68.9	70.1	Crystal Lithic Tuff: As above	mJCct	46488	121.9	125.0	3.0			5	0.1		
				46489	125.0	128.0	3.0			5	0.1		

DIAMOND DRILL RECORD

Hole No.: TR85-7
Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results			
										Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
70.1	74.7	Monolithic Breccia: Maroon to green angular tuffaceous fragments set in grey clay rich gouge.	mJCmbx	46490	128.0	131.1	3.0			5	0.1		
				46491	131.1	134.1	3.0			10	0.1		
74.7	76.6	Porphyritic Andesite: Light grey-green fine grained silicified rock with white to light green 2mm-3mm feldspar phenocrysts. Rock is fractured with reddish calcite and infilling the fractures.	mJCv	46492	134.1	137.2	3.0			5	0.1		
				46493	137.2	139.0	1.8			5	0.1		
				46494	139.0	142.0	3.0			5	0.1		
76.6	88.4	Crystal Lithic Tuff: White to light green feldspar phenocrysts set in fine grained mottled red-pink-green matrix. Interval is fractured with fractures infilled with white	mJCct	46495	142.0	143.3	1.2			5	0.1		
				46496	143.3	146.3	3.0			5	0.1		
88.4	112.2	Porphyritic Andesite: Light grey-green fine grained silicified rock with white to light green 2mm-3mm feldspar phenocrysts. Rock is fractured with reddish calcite and infilling the fractures.	mJCv	46497	146.3	148.4	2.1			5	0.1		
112.2	113.1	Andesite Dyke: Fine grained amygdaloidal andesite with white calcite infilling amygdules.	uKKdk										
113.1	138.9	Porphyritic Andesite: Medium grained with white to light green feldspar phenocrysts set in dark green matrix. Interval is intensely fractured with fractures infilled with quartz/ calcite. Interval is moderately argillically and propylitically altered.	mJCv										
138.9	142.0	Monzonite Dyke: Medium to coarse grained matrix with 4mm disseminated plagioclase phenocrysts throughout. <2% weakly chloritized hornblende phenocrysts. phenocrysts. Trace to <1% disseminated pyrite throughout interval.	mJCmzdk										
142.0	148.4	Monolithic Breccia: Angular to subrounded rhyodacite fragments set in a fine grained grey to green siliceous matrix. Rock is weakly to moderately argillically altered. 1% to 2% disseminated pyrite throughout interval.	mJCmbx										
	148.4	End of Hole.											

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384785E; 5946161N	**Length(m):**	110.3	**Hole No.:**	TR 85-8 RE-LOG
Azimuth:	135°	**Core Size:**	NQ	**Page:**	1 of 2
Dip:	-60°	**Dip Tests:**		**Property:**	Cutoff
Started:	June 20/85	**Elevation:**	848.9	**Section:**	
Completed:	June 22/85	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	B. Terry

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
																Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	15.2	Overburden	OB																
15.2	17.8	Andesite Flow Breccia: Fine grained maroon to dark green porphyritic volcanic. Rock is locally intensely fractured with calcite infilling fractures.	uKKv	46500	17.1	17.8	0.8									5	0.1		
				46501	17.8	20.4	2.6									5	0.1		
				46502	20.4	22.9	2.4									5	0.1		
17.8	22.9	Fault Zone: Light green sericite rich gouge.	FZ	46503	22.9	26.5	3.7									5	0.1		
				46504	26.5	29.6	3.0									5	0.1		
22.9	29.6	Andesite Flow Breccia: As above.	uKKv	46505	29.6	30.3	0.8									5	0.1		
				46506	30.3	32.6	2.3									5	0.1		
29.6	30.3	Fault Zone: Light green sericite rich gouge.	FZ	46507	32.6	34.7	2.1									5	0.1		
				46508	34.7	35.7	0.9									5	0.1		
30.3	34.7	Andesite Flow Breccia: As above.	uKKv	46509	35.7	36.6	0.9									5	0.1		
				46510	36.6	39.3	2.7									5	0.1		
34.7	36.6	Fault Zone: Light green sericite rich gouge.	FZ	46511	39.3	41.8	2.4									5	0.1		
				46512	41.8	43.6	1.8									5	0.1		
36.6	39.3	Andesite Flow Breccia: As above.	uKKv	46513	43.6	45.0	1.4									5	0.4		
				46514	45.0	46.3	1.4									5	0.7		
39.3	43.6	Fault Zone: Light green sericite rich gouge.	FZ	46515	46.3	47.5	1.2									5	1.3		
				46516	47.5	48.8	1.2									5	0.7		
43.6	106.4	Monolithic Breccia: Porphyritic andesite breccia. Fragments range from, 1cm to 4cm av. 1 are angular to rounded. Rock is locally intensely silicified. Matrix ranges from light to dark green and is chlorite rich. Pyrite content varies throughout interval with increase in content close to fractured zones.	mJCmbx	46517	48.8	50.6	1.8									5	0.1		
				46518	50.6	52.1	1.5									5	0.1		
				46519	52.1	53.9	1.8									5	0.1		
				46520	53.9	55.5	1.5									5	0.1		
				46521	55.5	56.7	1.2									5	0.1		
				46522	56.7	58.2	1.5									5	0.1		
				46523	58.2	59.4	1.2									5	0.5		
				46524	59.4	61.0	1.5									5	0.2		
				46525	61.0	62.5	1.5									5	0.1		
				46526	62.5	64.6	2.1									5	0.1		
				46527	64.6	65.2	0.6									5	0.3		
				46528	65.2	66.1	0.9									5	0.1		
				46529	66.1	67.1	0.9									5	0.1		
				46530	67.1	68.6	1.5									5	0.1		
				46531	68.6	70.1	1.5									5	0.8		
				46532	70.1	71.6	1.5									5	0.9		
				46533	71.6	73.2	1.5									5	0.4		
				46534	73.2	74.4	1.2									5	0.4		
				46535	74.4	75.9	1.5									5	0.3		
				46536	75.9	77.4	1.5									5	0.6		
				46537	77.4	78.9	1.5									5	0.3		
				46538	78.9	79.9	0.9									5	0.2		
				46539	79.9	81.4	1.5									5	0.7		
				46540	81.4	83.2	1.8									5	0.3		
				46541	83.2	85.3	2.1									115	0.6		
				46542	85.3	87.5	2.1									20	0.4		
				46543	87.5	89.0	1.5									10	0.3		
				46544	89.0	90.5	1.5									5	0.3		
				46545	90.5	93.0	2.4									10	1.3		

DIAMOND DRILL RECORD

Hole No.: TR85-8
Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results			
										Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
				46546	93.0	94.5	1.5			15	0.5		
				46547	94.5	95.4	0.9			20	0.7		
				46548	95.4	97.2	1.8			5	0.7		
				46549	97.2	98.5	1.2			5	0.1		
				46550	98.5	99.7	1.2			5	0.1		
				46551	99.7	100.6	0.9			5	0.1		
		104.2m: 4cm wide quartz vein; 45° to c/a.		46552	100.6	102.4	1.8			5	0.1		
		105.5m: 4cm wide quartz vein.		46553	102.4	104.2	1.8			50	0.1		
		105.5-106.4m: moderate to strong quartz stockwork, veinlets are up to .5cm wide.		46554	104.2	106.4	2.1			30	0.1		
106.4	110.3	Crystal Lithic Tuff: Medium grey-green, siliceous rock with feldspar phenocrysts set in a fine grained matrix. Rock is distinctly layered throughout interval.	mJCct	46555	106.4	107.9	1.5			5	0.1		
				46556	107.9	108.8	0.9			5	0.1		
				46557	108.8	110.3	1.5			5	0.1		
	110.3	End of Hole.											

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384651E; 5946468N	**Length(m):**	215.5	**Hole No.:**	TR 85-9 RE-LOG
Azimuth:	150°	**Core Size:**	NQ	**Page:**	1 of 2
Dip:	-60°	**Dip Tests:**	-65° @ 215.5m	**Property:**	Cutoff
Started:	June 22/85	**Elevation:**	896.4m	**Section:**	
Completed:	June 24/85	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	B. Terry

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results			
										Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	18.9	Overburden	OB										
18.9	21.6	Rhyodacite: Core is broken and weathered. Quartz veining is prevalent throughout interval. Rock is intensely argillically altered. Trace to 1% disseminated pyrite. Quartz veins are up to 2cm wide.	uKKrd	46558	20.1	21.6	1.5			85	1.5		
				46559	21.6	23.5	1.8			90	1.6		
				46560	23.5	26.5	3.0			120	1.5		
				46561	26.5	29.6	3.0			520	1.8		
21.6	26.5	Fault Zone: Maroon to pale green in colour, upper part may represent oxidized zone.	FZ	46562	29.6	32.6	3.0			5	0.4		
				46563	32.6	35.7	3.0			10	0.4		
26.5	52.4	Andesite Lapilli Tuff: Angular to subrounded <1cm to 2cm fragments set in a grey-green to maroon matrix. Locally rock is sheared.	uKKlt	46564	35.7	38.7	3.0			5	0.3		
				46565	38.7	41.8	3.0			5	0.2		
				46566	41.8	44.8	3.0			5	0.3		
52.4	54.0	Fault Zone: Soft grey argillically altered rock with fine grained disseminated pyrite throughout zone. 30° to c/a.	FZ	46567	44.8	47.5	2.7			80	0.5		
				46568	47.5	50.9	3.4			5	0.5		
				46569	50.9	52.4	1.5			5	0.4		
54.0	66.1	Monolithic Breccia: Angular fragments of hornblende porphyry andesite in a silicified fine grained matrix. Rock is moderately argillically altered.	uKKmbx	46570	52.4	53.9	1.5			5	0.4		
				46571	53.9	57.0	3.0			10	0.7		
				46572	57.0	58.5	1.5			5	0.6		
66.1	67.9	Hornblende Porphyry Andesite Dyke: Rounded and weakly chloritized hornblende phenocrysts set in an argillically altered matrix. 1% disseminated fine grained pyrite throughout.	uKKdk	46573	58.5	60.0	1.5			45	0.6		
				46574	60.0	63.1	3.0			5	0.6		
				46575	63.1	66.1	3.0			10	0.5		
67.9	148.4	Monolithic Breccia: Angular to subrounded andesite fragments set in a grey-green chlorite rich matrix. Locally the rock is argillically altered. Calcite veins and veinlets throughout the interval. Rock is variably broken throughout. 73.4-77.4m: zone of intense brecciation with pervasive argillic alteration. 79.8-81.7m: weakly silicified zone of intense brecciation. 86.8-88.4m: trace to <1% disseminated pyrite.	uKKmbx	46576	66.1	68.0	1.8			25	0.7		
				46577	68.0	70.7	2.7			10	0.8		
				46578	70.7	73.5	2.7			90	0.9		
				46579	73.5	77.4	4.0			20	0.9		
				46580	77.4	79.9	2.4			10	0.7		
				46581	79.9	81.7	1.8			5	0.7		
				46582	81.7	86.9	5.2			25	0.2		
				46583	86.9	88.4	1.5			5	0.5		
				46584	88.4	90.5	2.1			5	0.7		
				46585	90.5	94.2	3.7			5	1.0		
				46586	94.2	96.6	2.4			5	1.5		
				46587	96.6	99.7	3.0			5	0.7		
				46588	99.7	102.7	3.0			5	0.5		
				46589	102.7	105.8	3.0			5	0.4		
				46590	105.8	107.9	2.1			5	0.4		
				46591	107.9	111.9	4.0			5	0.5		
				46592	111.9	114.9	3.0			5	0.4		
				46593	114.9	118.0	3.0			5	0.4		
				46594	118.0	121.0	3.0			5	0.4		
				46595	121.0	124.1	3.0			5	0.3		
				46596	124.1	127.1	3.0			5	0.4		
				46597	127.1	130.1	3.0			10	0.5		
				46598	130.1	133.2	3.0			5	0.5		
				46599	133.2	136.2	3.0			5	0.4		
				46600	136.2	139.1	2.9			5	0.4		
				5501	139.1	142.3	3.2			25	0.5		
				5502	142.3	145.4	3.0			5	0.3		
				5503	145.4	148.4	3.0			5	0.2		

DIAMOND DRILL RECORD

Hole No.: TR85-9

Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
																Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
148.4	153.2	Andesite Flow breccia: Grey-green angular to subrounded fragments set in chlorite rich matrix. Fragment supported.	uKKv	5504	148.4	151.5	3.0									5	0.2		
				5505	151.5	153.2	1.7									5	0.2		
153.2	212.4	Crystal Lithic Tuff: White feldspar phenocrysts set in a fine grained maroon matrix. Calcite veinlets throughout interval and trace disseminated pyrite. Local weak argillic alteration throughout.	uKKct	5506	153.2	157.6	4.4									5	0.3		
				5507	157.6	160.6	3.0									5	0.2		
				5508	160.6	163.7	3.0									5	0.2		
				5509	163.7	167.3	3.7									5	0.3		
				5510	167.3	169.8	2.4									5	0.2		
				5511	169.8	172.8	3.0									5	0.3		
				5512	172.8	175.3	2.4									5	0.3		
				5513	175.3	178.9	3.7									5	0.4		
				5514	178.9	182.0	3.0									5	0.3		
				5515	182.0	184.1	2.1									5	0.3		
				5516	184.1	188.1	4.0									5	0.4		
				5517	188.1	191.4	3.4									5	0.3		
				5518	191.4	194.2	2.7									5	0.4		
				5519	194.2	197.2	3.0									5	0.3		
				5520	197.2	200.3	3.0									5	0.3		
				5521	200.3	203.3	3.0									5	0.3		
				5522	203.3	206.3	3.0									5	0.3		
				5523	206.3	209.4	3.0									5	0.3		
212.4	215.5	Monolithic Breccia: Angular to subrounded andesite fragments range in size from	uKKmbx	5524	209.4	212.4	3.0									5	0.4		
		interval.		5525	212.4	215.5	3.0									75	1.5		
	215.5	End of Hole.																	

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384697E; 5945912N	Length(m):	200.3	Hole No.:	TR 85-11 RE-LOG
Azimuth:	350°	Core Size:	NQ	Page:	1 of 2
Dip:	-55°	Dip Tests:	-58° @ 91.4m, -55° @ 200.3m	Property:	Cutoff
Started:	June 27/85	Elevation:	861.4m	Section:	
Completed:	June 28/85	Date Logged:		Claim No:	
Purpose:				Logged By:	B. Terry

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
																Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	36.6	Overburden	OB																
36.6	40.5	Polylithic Breccia: Subangular to subrounded quartz, calcite and andesite fragments set in a friable, porous maroon clay rich matrix. Matrix supported. Fragments up to 5cm in size. Lower contact 15° to c/a.	uKKpbx	5526	36.6	39.5	2.9									5	0.2		
				5527	39.5	40.5	1.1									130	0.6		
				5528	40.5	43.6	3.0												
				5529	43.6	46.6	3.0												
40.5	43.6	Rhyodacite: White feldspar phenocrysts up to 8mm set in a fine grained pink feldspathic matrix. Core is moderately fractured and weakly silicified.	uKKrd	5530	46.6	48.8	2.1												
				5531	48.8	49.5	0.8												
43.5	46.6	Fault Zone: Milled andesite fragments in a grey-green clay rich fault gouge material. Lower contact 15° to c/a.	FZ	5532	49.5	50.4	0.9												
				5533	50.4	52.1	1.7												
46.6	48.8	Crystal Lithic Tuff: 1mm to 2mm white to light pink feldspar phenocrysts set in a fine grained off white matrix. Rock is weakly fractured and sheared.	mJCct	5534	52.1	53.9	1.8												
				5535	53.9	57.0	3.0												
48.8	49.6	Andesite Dyke: Fine grained dark grey dyke with a fine but weak calcite stockworks Upper contact: 40° to c/a. Lower contact: 45° to c/a.	uKKdk	5536	57.0	60.0	3.0												
				5537	60.0	61.3	1.2												
				5538	61.3	63.1	1.8												
49.6	50.4	Crystal Lithic Tuff: As above.	mJCct	5539	63.1	66.1	3.0												
50.4	52.1	Andesite Dyke: Fine grained dark grey fractured and locally sheared.	uKKdk	5540	66.1	69.2	3.0												
52.1	61.3	Monzonite Dyke: Coarse white feldspar phenocrysts set in a pinkish white moderately argillically altered matrix. Possibly a dyke.	mJCmzdk	5541	69.2	72.2	3.0												
				5542	72.2	75.3	3.0												
61.3	104.5	Crystal Lithic Tuff: As above. 97.6-104.5m: Moderate chlorite alteration.	mJCct	5543	75.3	78.3	3.0												
				5544	78.3	81.4	3.0												
				5545	81.4	84.4	3.0												
				5546	84.4	87.5	3.0												
				5547	87.5	89.3	1.8												
				5548	89.3	92.4	3.0												
				5549	92.4	95.4	3.0												
				5550	95.4	97.8	2.4												
				5551	97.8	99.7	1.8												
				5552	99.7	102.7	3.0												
				5553	102.7	104.5	1.8												
104.5	200.3	Andesite Flow Breccia: Light grey-green angular to subrounded <1cm to 5cm fragments set in fine grained matrix. 1mm to 2mm feldspar phenocrysts and weakly chloritized hornblende laths set in dark green chlorite rich matrix in fragments. Brecciation ranges from in situ to subrounded in part milled fragments. Calcite veining is common throughout interval. Shearing throughout interval ranges from 15° to 40° to c/a. 124.1-125.0m: intense chloritization along shear plane.	uKKv	5554	104.5	107.3	2.7												
				5555	107.3	110.3	3.0												
				5556	110.3	113.4	3.0												
				5557	113.4	116.4	3.0												
				5558	116.4	118.0	1.5												
				5559	118.0	121.0	3.0												
				5560	121.0	124.1	3.0												
				5561	124.1	127.1	3.0												
				5562	127.1	130.1	3.0												
				5563	130.1	133.2	3.0												
				5564	133.2	136.2	3.0												
				5565	136.2	139.3	3.0												
				5566	139.3	142.3	3.0												
				5567	142.3	145.4	3.0												
				5568	145.4	148.4	3.0												
				5569	148.4	151.5	3.0												
				5570	151.5	154.5	3.0												
				5571	154.5	157.0	2.4												

DIAMOND DRILL RECORD

Hole No.: TR85-11
Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
104.5	200.3 (Cont'd)	158.5-163.7m: weak quartz/calcite veining throughout this interval with trace disseminated pyrite.		5572	157.0	158.5	1.5						
				5573	158.5	160.6	2.1						
				5574	160.6	163.7	3.0						
		163.7-189.9m: Strongly sheared porphyritic andesite flow breccia set in a maroon matrix. Well developed calcite stockworks throughout this interval.		5575	163.7	166.7	3.0						
				5576	166.7	169.8	3.0						
				5577	169.8	172.8	3.0						
				5578	172.8	175.9	3.0						
				5579	175.9	178.9	3.0						
				5580	178.9	182.0	3.0						
				5581	182.0	185.0	3.0						
				5582	185.0	188.1	3.0						
		189.9-200.3m: Light grey-green fine grained matrix with white to light green 1mm to 3mm feldspar phenocrysts. Minor weakly chloritized hornblende laths throughout.		5583	188.1	189.9	1.8						
				5584	189.9	191.4	1.5						
				5585	191.4	194.5	3.0						
		Interval is weakly fractured throughout.		5586	194.5	197.5	3.0						
	200.3	End of Hole.		5587	197.5	200.3	2.7						

PERCUSSION DRILL RECORD

Location:	UTM COORD'S 384685E; 5946004N	Length(m):	75.0	Hole No.:	TR 87-1 RE-LOG
Azimuth:	210°	Pipe Size:	3.5 inches	Page:	1 of 2
Dip:	-69°	Dip Tests:		Property:	Cutoff
Started:	July 17/87	Elevation:	848.5m	Section:	
Completed:	July 18/87	Date Logged:		Claim No:	
Purpose:				Logged By:	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration %Qtz	Alteration %Py	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	4.0	Overburden	OB											
4.0	16.0	Porphyritic Andesite: Maroon to dark green feldspar phyric andesite.	uKKv	1305	4.0	5.0	1.0		10	1-2	470			
				1306	5.0	6.0	1.0		10	1-2	290			
				1307	6.0	7.0	1.0		10	1-2	110			
				1308	7.0	8.0	1.0		10	1-2	170			
				1309	8.0	9.0	1.0		10	1-2	360			
				1310	9.0	10.0	1.0		10	1-2	145			
				1311	10.0	11.0	1.0		10	1-2	130			
				1312	11.0	12.0	1.0		10	1-2	75			
				1313	12.0	13.0	1.0		10	1-2	60			
				1314	13.0	14.0	1.0		10	1-2	115			
				1315	14.0	15.0	1.0		10	1-2	100			
				1316	15.0	16.0	1.0		10-15	1-2	85			
16.0	20.0	Fault Zone:	FZ	1317	16.0	17.0	1.0							
				1318	17.0	18.0	1.0							
				1319	18.0	19.0	1.0							
				1320	19.0	20.0	1.0		10-15	2-4	135			
20.0	44.0	Porphyritic Andesite: Dark green to maroon, siliceous feldspar phyric andesite.	uKKv	1321	20.0	21.0	1.0		10-15	2-4	250			
				1322	21.0	22.0	1.0		10-15	2-4	560			
				1323	22.0	23.0	1.0		10-15	2-4	275			
				1324	23.0	24.0	1.0		2-3	1-2	650			
				1325	24.0	25.0	1.0		3-5	1-2	190			
				1326	25.0	26.0	1.0		6-8	1-2	600			
		26.0-29.0m: 20% to 30% quartz and 3% to 5% disseminated pyrite.		1327	26.0	27.0	1.0		20-25	3-5	950			
				1328	27.0	28.0	1.0		20-25	3-5	4700			
				1329	28.0	29.0	1.0		25-30	3-5	4000			
				1330	29.0	30.0	1.0		15-20	3-5	1500			
				1331	30.0	31.0	1.0		15-20	3-5	630			
				1332	31.0	32.0	1.0		15-20	3-5	800			
				1333	32.0	33.0	1.0		10-15	1-2	470			
				1334	33.0	34.0	1.0		10-15	1-2	285			
				1335	34.0	35.0	1.0		15-20	1-2	600			
				1336	35.0	36.0	1.0		15-20	1-2	410			
				1337	36.0	37.0	1.0		15-20	1-2	235			
				1338	37.0	38.0	1.0		15-20	1-2	70			
				1339	38.0	39.0	1.0		15-20	1-2	130			
				1340	39.0	40.0	1.0		20-25	3-5	70			
				1341	40.0	41.0	1.0		15-20	2-4	40			
				1342	41.0	42.0	1.0		15-20	1-2	75			
				1343	42.0	43.0	1.0		10-15	1-2	30			
				1344	43.0	44.0	1.0		10-15	1-2	5			
44.0	45.0	Fault Zone:	FZ	1345	44.0	45.0	1.0		0-5		150			
45.0	75.0	Porphyritic Andesite: As above.	uKKv	1346	45.0	46.0	1.0		5-10		5			
				1347	46.0	47.0	1.0		5-10		5			
				1348	47.0	48.0	1.0		5-10		30			
		48.0-62.0m: 1% to 2% disseminated pyrite throughout this interval.		1349	48.0	49.0	1.0		5-10	1-2	10			
				1350	49.0	50.0	1.0		10-15	1-2	5			

PERCUSSION DRILL RECORD

Hole No.: TR87-1

Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
									%Qtz	%Py						Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
45.0	75.0 (Cont'd)	50.0-61.0m: gypsum and galena.		1351	50.0	51.0	1.0		5-10	1-2						50			
				1352	51.0	52.0	1.0		10-15	1-2						10			
				1353	52.0	53.0	1.0		5-10	1-2						5			
				1354	53.0	54.0	1.0		5-10							20			
				1355	54.0	55.0	1.0		5-10							40			
				1356	55.0	56.0	1.0		2-5							80			
				1357	56.0	57.0	1.0		2-5							20			
				1358	57.0	58.0	1.0		5-10	1-2						10			
				1359	58.0	59.0	1.0		2-5	1-2						50			
				1360	59.0	60.0	1.0		2-5							20			
				1361	60.0	61.0	1.0		5-10							50			
				1362	61.0	62.0	1.0		5-10							5			
		62.0-64.0m: 2% to 3% disseminated pyrite.		1363	62.0	63.0	1.0		10-15	2-3						5			
				1364	63.0	64.0	1.0		10-15	2-3						5			
				1365	64.0	65.0	1.0		5-10	1-2						70			
		65.0-75.0m: 1% to 2% disseminated pyrite throughout.		1366	65.0	66.0	1.0		5-10	1-2						5			
				1367	66.0	67.0	1.0		5-10	1-2						20			
				1368	67.0	68.0	1.0		5-10	1-2						10			
				1369	68.0	69.0	1.0		5-10	1-2						5			
				1370	69.0	70.0	1.0		5-10	1-2						5			
				1371	70.0	71.0	1.0		5-10	1-2						10			
				1372	71.0	72.0	1.0		10-15	1-2						40			
				1373	72.0	73.0	1.0		5-10	1-2						5			
				1374	73.0	74.0	1.0		5-10	1-2						5			
	75.0	End of Hole.		1375	74.0	75.0	1.0		5-10	1-2						5			

PERCUSSION DRILL RECORD

Location:	UTM COORD'S 384672E; 5945983N	Length(m):	84.0	Hole No.:	TR 87-2 RE-LOG
Azimuth:	210°	Pipe Size:	3.5 inches	Page:	1 of 2
Dip:	-68°	Dip Tests:		Property:	Cutoff
Started:	July 18/87	Elevation:	848.2m	Section:	
Completed:	July 19/87	Date Logged:		Claim No:	
Purpose:				Logged By:	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration %Qtz	Alteration %Py	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	2.0	Overburden	OB											
2.0	42.0	Monolithic Breccia: Maroon to light grey, siliceous feldspar phyric andesite.	uKKmbx	1376	2.0	3.0	1.0		15-20	1-2	10			
				1377	3.0	4.0	1.0		15-20	1-2	300			
				1378	4.0	5.0	1.0		15-20	1-2	690			
				1379	5.0	6.0	1.0		40	2-3	690			
		6.0-6.0m: 30% to 50% quartz and 2% to 3% disseminated pyrite.		1380	6.0	7.0	1.0		30	2-3	610			
				1381	7.0	8.0	1.0		40	2-3	130			
				1382	8.0	9.0	1.0		50	2-3	270			
		9.0-13.0m: 20% to 30% quartz and 1% to 2% disseminated pyrite.		1383	9.0	10.0	1.0		20-30	1-2	520			
				1384	10.0	11.0	1.0		25-30	1-2	1120			
				1385	11.0	12.0	1.0		20-30	1-2	1100			
				1386	12.0	13.0	1.0		20-30	1-2	1150			
				1387	13.0	14.0	1.0		10-15	1-2	1200			
		14.0-15.0m: 30% to 40% quartz and 2% to 3% disseminated pyrite.		1388	14.0	15.0	1.0		30-40	2-3	256			
				1389	15.0	16.0	1.0		20-30	1-2	500			
				1390	16.0	17.0	1.0		20-30	1-2	330			
				1391	17.0	18.0	1.0		15-20	1-2	1000			
				1392	18.0	19.0	1.0		15-20	1-2	800			
				1393	19.0	20.0	1.0		15-20	1-2	620			
		20.0-21.0m: 25% to 30% quartz and 2% to 3% disseminated pyrite.		1394	20.0	21.0	1.0		25-30	2-3	550			
				1395	21.0	22.0	1.0		25-30	2-3	380			
				1396	22.0	23.0	1.0		20-25	1-2	270			
				1397	23.0	24.0	1.0		20-25	1-2	400			
				1398	24.0	25.0	1.0		25-30	1-2	850			
				1399	25.0	26.0	1.0		15-20	1-2	820			
		26.0-30.0m: 25% to 30% quartz and 2% to 3% disseminated pyrite.		1400	26.0	27.0	1.0		25-30	2-3	650			
				1401	27.0	28.0	1.0		20-25	2-3	700			
				1402	28.0	29.0	1.0		25-30	2-3	1050			
				1403	29.0	30.0	1.0		25-30	2-3	800			
				1404	30.0	31.0	1.0		15-20	1-2	330			
		31.0-41.0m: 20% to 30% quartz and 2% to 3% disseminated pyrite.		1405	31.0	32.0	1.0		25-30	2-3	350			
				1406	32.0	33.0	1.0		30-35	2-3	425			
				1407	33.0	34.0	1.0		25-30	2-3	850			
				1408	34.0	35.0	1.0		20-25	2-3	560			
				1409	35.0	36.0	1.0		20-25	1-2	525			
				1410	36.0	37.0	1.0		25-30	1-2	570			
				1411	37.0	38.0	1.0		30-35	2-3	290			
				1412	38.0	39.0	1.0		30-35	2-3	1550			
				1413	39.0	40.0	1.0		20-25	1-2	630			
				1414	40.0	41.0	1.0		20-25	1-2	6800			
				1415	41.0	42.0	1.0		15-20	1-2	1000			
42.0	43.0	Fault Zone:	FZ	1416	42.0	43.0	1.0		20-25	1-2	575			
43.0	45.0	Andesite: Maroon fine grained andesite.	uKKv	1417	43.0	44.0	1.0		25-30	1-2	1200			
				1418	44.0	45.0	1.0		25-30	1-2	1800			
45.0	46.0	Fault Zone: 45.0m: 30% to 80% quartz and 2% to 3% disseminated pyrite.	FZ	1419	45.0	46.0	1.0		30-35	2-3	1050			
				1420	46.0	47.0	1.0		70-80	2-3	3200			
				1421	47.0	48.0	1.0		40-50	2-3	1100			

PERCUSSION DRILL RECORD

Hole No.: TR87-2 RE-LOG
Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration %Qtz	Alteration %Py	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
46.0	57.0	Andesite: Maroon fine grained andesite. 46.0 to 49.0m: 30% to 80% quartz and 2% to 3% disseminated pyrite. 51.0 to 52.0m: 60% to 70% quartz and 2% to 3% disseminated pyrite. 53.0 to 56.0m: 30% to 40% quartz and 1% to 3% disseminated pyrite.	uKKv	1422	48.0	49.0	1.0		60-70	2-3	1000			
				1423	49.0	50.0	1.0		20-25	1-2	96			
				1424	50.0	51.0	1.0		15-20	1-2	100			
				1425	51.0	52.0	1.0		60-70	2-3	15			
				1426	52.0	53.0	1.0		20-30	1-2	75			
				1427	53.0	54.0	1.0		30-40	2-3	25			
				1428	54.0	55.0	1.0		30-40	2-3	5			
				1429	55.0	56.0	1.0		25-30	1-2	110			
				1430	56.0	57.0	1.0		15-20	1-2	310			
57.0	58.0	Fault Zone:	FZ	1431	57.0	58.0	1.0		15-20	1-2	245			
58.0	84.0	Lapilli Tuff: Light grey fine to medium grained with angular polylithic fragments. 62.0 to 66.0m: 20% to 30% quartz and 1% to 2% disseminated pyrite.	uKKlt	1432	58.0	59.0	1.0		15-20	1-2	265			
				1433	59.0	60.0	1.0		10-15	1-2	85			
				1434	60.0	61.0	1.0		10-15	1-2	110			
				1435	61.0	62.0	1.0		10-15	1-2	195			
				1436	62.0	63.0	1.0		20-25	1-2	175			
				1437	63.0	64.0	1.0		25-30	1-2	25			
				1438	64.0	65.0	1.0		20-25	1-2	80			
				1439	65.0	66.0	1.0		20-25	1-2	275			
				1440	66.0	67.0	1.0		15-20	1-2	45			
				1441	67.0	68.0	1.0		15-20	1-2	190			
				1442	68.0	69.0	1.0		20-25	1-2	100			
				1443	69.0	70.0	1.0		15-20	1-2	309			
				1444	70.0	71.0	1.0		15-20	1-2	185			
				1445	71.0	72.0	1.0		15-20	1-2	220			
				1446	72.0	73.0	1.0		15-20	1-2	45			
				1447	73.0	74.0	1.0		5-10	1-2	990			
				1448	74.0	75.0	1.0		15-20	1-2	175			
				1449	75.0	76.0	1.0		10-15		300			
				1450	76.0	77.0	1.0		5-10		275			
				1451	77.0	78.0	1.0		5-10	1-2	80			
				1452	78.0	79.0	1.0		5-10	1-2	190			
				1453	79.0	80.0	1.0		5-10		250			
				1454	80.0	81.0	1.0		0-5		210			
				1455	81.0	82.0	1.0		0-5		400			
				1456	82.0	83.0	1.0		0-5		265			
	84.0	End of Hole.		1457	83.0	84.0	1.0		0-5		125			

PERCUSSION DRILL RECORD

Location:	UTM COORD'S 384663E; 5945967N	**Length(m):**	40.0	**Hole No.:**	TR 87-3 RE-LOG
Azimuth:	210°	**Pipe Size:**	3.5 inches	**Page:**	1 of 1
Dip:	-70°	**Dip Tests:**		**Property:**	Cutoff
Started:	July 19/87	**Elevation:**	848.0m	**Section:**	
Completed:	July 20/87	**Data Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration %Qtz	Alteration %Py	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	4.0	Overburden	OB											
4.0	19.0	Monolithic Breccia: Maroon to light grey, siliceous feldspar phyric andesite. 10% to 30% quartz throughout interval and 1% to 2% disseminated pyrite.	uKKmbx		4.0	5.0	1.0		20-25	1-2				
				1458	5.0	6.0	1.0		10-15	1-2	500			
				1459	6.0	7.0	1.0		20-25	1-2	670			
				1460	7.0	8.0	1.0		15-20	1-2	900			
				1461	8.0	9.0	1.0		15-20	1-2	1350			
				1462	9.0	10.0	1.0		20-25	1-2	1600			
				1463	10.0	11.0	1.0		15-20	1-2	10000			
				1464	11.0	12.0	1.0		15-20	1-2	7200			
				1465	12.0	13.0	1.0		15-20	1-2	2350			
				1466	13.0	14.0	1.0		15-20	1-2	1200			
				1467	14.0	15.0	1.0		30-35	2-3	1650			
				1468	15.0	16.0	1.0		15-20	1-2	800			
				1469	16.0	17.0	1.0		15-20	1-2	1400			
		17.0-19.0m: 10% to 25% quartz and 1% to 2% disseminated pyrite.		1470	17.0	18.0	1.0		10-15	1-2	1350			
				1471	18.0	19.0	1.0		20-25	1-2	2650			
19.0	20.0	Lapilli Tuff: green-grey lapilli tuff.	uKKlt	1472	19.0	20.0	1.0		20-25	1-2	1850			
20.0	23.0	Andesite Flow Breccia: Green to light grey siliceous andesite flow breccia.	uKKv	1473	20.0	21.0	1.0		20-25	1-2	8800			
				1474	21.0	22.0	1.0		30-35	1-2	2200			
				1475	22.0	23.0	1.0		25-30	1-2	2500			
23.0	25.0	Lapilli Tuff: maroon to green siliceous tuff. 15% to 20% quartz and 1% to 2% disseminated pyrite throughout interval.	uKKlt	1476	23.0	24.0	1.0		15-20	1-2	1400			
				1477	24.0	25.0	1.0		15-20	1-2	1050			
25.0	27.0	Fault Zone:	FZ	1478	25.0	26.0	1.0		15-20	1-2	1300			
				1479	26.0	27.0	1.0		5-10	Tr	1750			
27.0	31.0	Lapilli Tuff: As above.	uKKlt	1480	27.0	28.0	1.0		5-10		9000			
				1481	28.0	29.0	1.0		5-10		800			
				1482	29.0	30.0	1.0		5-10		650			
				1483	30.0	31.0	1.0		5-10		520			
31.0	33.0	Fault Zone: 32.0-33.0m: 15% to 20% quartz and 1% to 2% disseminated pyrite.	FZpy	1484	31.0	32.0	1.0		5-10		600			
				1485	32.0	33.0	1.0		15-20	1-2	280			
33.0	40.0	Lapilli Tuff: As above.	uKKlt	1486	33.0	34.0	1.0		10-15		710			
				1487	34.0	35.0	1.0		5-10		395			
				1488	35.0	36.0	1.0		10-15		750			
				1489	36.0	37.0	1.0		5-10		120			
				1490	37.0	38.0	1.0		5-10		1500			
				1491	38.0	39.0	1.0		5-10		290			
				1492	39.0	40.0	1.0		5-10		1700			
	40.0	End of Hole.												

1: weak; 3: moderate; 5:strong

PERCUSSION DRILL RECORD

Location:	UTM COORD'S 384664E; 5945971N	**Length(m):**	60.0	**Hole No.:**	TR 87-4 RE-LOG
Azimuth:	030°	**Pipe Size:**	3.5 inches	**Page:**	1 of 2
Dip:	-60°	**Dip Tests:**		**Property:**	Cutoff
Started:	July 20/87	**Elevation:**	848.0m	**Section:**	
Completed:	July 20/87	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration %Qtz	Alteration %Py	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	5.0	Overburden	OB											
5.0	31.0	Monolithic Breccia: Dark grey siliceous andesite breccia.	uKKmbx	1493	5.0	6.0	1.0		10-15	1-2	155			
				1494	6.0	7.0	1.0		15-20	1-2	2350			
				1495	7.0	8.0	1.0		25-30	1-2	1550			
				1496	8.0	9.0	1.0		20-25	1-2	580			
				1497	9.0	10.0	1.0							
		10.0-11.0m: 40% to 45% quartz and 2% to 3% disseminated pyrite.		1498	10.0	11.0	1.0		40-45	2-3	5300			
				1499	11.0	12.0	1.0		25-30	2-3	950			
				1500	12.0	13.0	1.0		25-30	1-2	510			
				1501	13.0	14.0	1.0		25-30	1-2	640			
		14.0-21.0m: 30% to 40% quartz and 2% to 3% disseminated pyrite.		1502	14.0	15.0	1.0		25-30	1-2	2900			
				1503	15.0	16.0	1.0		40-45	2-3	3000			
				1504	16.0	17.0	1.0		40-50	2-3	15000			
				1505	17.0	18.0	1.0		20-30	1-2	2000			
				1506	18.0	19.0	1.0		30-40	2-3	1550			
				1507	19.0	20.0	1.0		30-40	2-3	1250			
				1508	20.0	21.0	1.0		30-40	2-3	750			
				1509	21.0	22.0	1.0		25-30	2-3	1100			
				1510	22.0	23.0	1.0		30-35	2-3	570			
				1511	23.0	24.0	1.0		20-25	1-2	3000			
				1512	24.0	25.0	1.0		20-25	1-2	550			
				1513	25.0	26.0	1.0		25-30	1-2	420			
				1514	26.0	27.0	1.0		20-25	1-2	1160			
				1515	27.0	28.0	1.0		25-30	1-2	1150			
		28.0-29.0m: 25% to 30% quartz and 1% to 2% disseminated pyrite.		1516	28.0	29.0	1.0		25-30	1-2	1800			
				1517	29.0	30.0	1.0		20-25	1-2	395			
		30.0-31.0m: 25% to 30% quartz and 1% to 2% disseminated pyrite.		1518	30.0	31.0	1.0		25-30	1-2	410			
31.0	33.0	Porphyritic Andesite: Dark grey feldspar phyric andesite.	uKKv	1519	31.0	32.0	1.0		10-15	3-4	90			
				1520	32.0	33.0	1.0		10-15	3-4	85			
33.0	34.0	Fault Zone:	FZ	1521	33.0	34.0	1.0		5-10	3-4	160			
34.0	36.0	Porphyritic Andesite: As above.	uKKv	1522	34.0	35.0	1.0		5-10	3-4				
				1523	35.0	36.0	1.0		5-10	3-4	3300			
36.0	39.0	Monolithic Breccia: Maroon-grey andesite breccia.	uKKmbx	1524	36.0	37.0	1.0		15-20	2-3	350			
				1525	37.0	38.0	1.0		15-20	2-3	480			
				1526	38.0	39.0	1.0		15-20	2-3	95			
39.0	41.0	Porphyritic Andesite: Dark grey feldspar phyric andesite.	uKKv	1527	39.0	40.0	1.0		5-10	2-3	240			
				1528	40.0	41.0	1.0		15-20	2-3	225			
41.0	49.0	Monolithic Breccia: Maroon-grey andesite breccia.	uKKmbx	1529	41.0	42.0	1.0		10-15	1-2	400			
		43.0-44.0m: abundant quartz/chalcedony veins and stockwork.		1530	42.0	43.0	1.0		15-20	1-2	245			
				1531	43.0	44.0	1.0		20-25	2-3	175			
				1532	44.0	45.0	1.0		20-25	2-3	235			
				1533	45.0	46.0	1.0		10-15	1-2	160			
				1534	46.0	47.0	1.0		15-20	1-2	860			
		47.0-48.0m: 25% to 30% quartz and 3% to 4% disseminated pyrite		1535	47.0	48.0	1.0		25-30	3-4	700			
				1536	48.0	49.0	1.0		15-20	1-2	435			
49.0	50.0	Fault Zone:	FZ	1537	49.0	50.0	1.0		5-10	1-2	330			
50.0	51.0	Monolithic Breccia: Maroon-grey andesite breccia.	uKKmbx	1538	50.0	51.0	1.0		10-15	1-2	280			

PERCUSSION DRILL RECORD

Hole No.: TR87-4
Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
									%Qtz	%Py						Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
51.0	53.0	Fault Zone: Maroon clay rich fault gouge.	FZ	1539	51.0	52.0	1.0		0-5	1-2						370			
				1540	52.0	53.0	1.0		0-5	1-2									
53.0	60.0	Porphyritic Andesite: Dark grey feldspar phyric andesite.	uKKv	1541	53.0	54.0	1.0		0-5							1300			
				1542	54.0	55.0	1.0		0-5							1200			
				1543	55.0	56.0	1.0		5-10							1550			
				1544	56.0	57.0	1.0		5-10							1150			
				1545	57.0	58.0	1.0		5-10							365			
				1546	58.0	59.0	1.0		0-5							430			
	60.0	End of Hole.		1547	59.0	60.0	1.0		0-5							155			

PERCUSSION DRILL RECORD

Location:	UTM COORD'S 384690E; 5945989N	**Length(m):**	57.0	**Hole No.:**	TR 87-5 RE-LOG
Azimuth:	210°	**Pipe Size:**	3.5 inches	**Page:**	1 of 2
Dip:	-70°	**Dip Tests:**		**Property:**	Cutoff
Started:	July 20/87	**Elevation:**	850.5m	**Section:**	
Completed:	July 21/87	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration %Qtz	Alteration %Py	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	3.0	Overburden	OB											
3.0	25.0	Monolithic Breccia: Dark maroon siliceous andesite breccia.	uKKmbx	1548	3.0	4.0	1.0		10-15	2-3	210			
				1549	4.0	5.0	1.0		10-15	2-3	170			
				1550	5.0	6.0	1.0		5-10	1-2	180			
				1551	6.0	7.0	1.0		5-10	1-2	135			
				1552	7.0	8.0	1.0							
				1553	8.0	9.0	1.0		5-10	2-3	150			
				1554	9.0	10.0	1.0		5-10	2-3	80			
				1555	10.0	11.0	1.0		0-5	2-3	75			
				1556	11.0	12.0	1.0		0-5	2-3	15			
				1557	12.0	13.0	1.0		0-5	2-3	30			
				1558	13.0	14.0	1.0		0-5	2-3	95			
				1559	14.0	15.0	1.0		5-10	2-3	470			
				1560	15.0	16.0	1.0		5-10	2-3	1050			
				1561	16.0	17.0	1.0							
				1562	17.0	18.0	1.0		0-5	2-3	245			
				1563	18.0	19.0	1.0		0-5	2-3	500			
				1564	19.0	20.0	1.0		5-10	2-3	385			
				1565	20.0	21.0	1.0		5-10	2-3	220			
				1566	21.0	22.0	1.0		0-5	2-3	235			
				1567	22.0	23.0	1.0		0-5	2-3	420			
				1568	23.0	24.0	1.0		0-5	3-4	130			
				1569	24.0	25.0	1.0		5-10	2-3	110			
25.0	26.0	Fault Zone:	FZ	1570	25.0	26.0	1.0		0-5	2-3	375			
26.0	57.0	Lapilli Tuff: Dark grey to maroon lapilli tuff.	uKKlt	1571	26.0	27.0	1.0		0-5	1-2	85			
				1572	27.0	28.0	1.0		0-5	1-2	50			
				1573	28.0	29.0	1.0		0-5	1-2	115			
				1574	29.0	30.0	1.0		0-5	1-2	130			
				1575	30.0	31.0	1.0		0-5	1-2	180			
				1576	31.0	32.0	1.0		0-5	1-2	35			
				1577	32.0	33.0	1.0		0-5	1-2	80			
				1578	33.0	34.0	1.0		0-5	1-2	10			
				1579	34.0	35.0	1.0		0-5	1-2	35			
				1580	35.0	36.0	1.0		0-5	1-2	125			
				1581	36.0	37.0	1.0		0-5	1-2	30			
				1582	37.0	38.0	1.0		0-5	1-2	5			
				1583	38.0	39.0	1.0		0-5	1-2	25			
				1584	39.0	40.0	1.0		0-5	1-2	5			
				1585	40.0	41.0	1.0		0-5	1-2	5			
				1586	41.0	42.0	1.0		0-5	1-2	10			
				1587	42.0	43.0	1.0		0-5	1-2	5			
				1588	43.0	44.0	1.0		0-5	1-2	50			
				1589	44.0	45.0	1.0		0-5	1-2	25			
				1590	45.0	46.0	1.0		0-5	1-2	5			
				1591	46.0	47.0	1.0		0-5	1-2	5			
				1592	47.0	48.0	1.0		5-10	1-2	20			
				1593	48.0	49.0	1.0		5-10	1-2	15			

PERCUSSION DRILL RECORD

Hole No.: TR87-5
Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
									%Qtz	%Py						Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
				1594	49.0	50.0	1.0		0-5	1-2						5			
				1595	50.0	51.0	1.0		0-5	1-2						5			
				1596	51.0	52.0	1.0		0-5	2-3						30			
				1597	52.0	53.0	1.0		0-5	2-3						5			
				1598	53.0	54.0	1.0		5-10	2-3						10			
				1599	54.0	55.0	1.0		0-5	2-3						5			
				1600	55.0	56.0	1.0		0-5	1-2						10			
	57.0	End of Hole.		1601	56.0	57.0	1.0		0-5	1-2						5			

PERCUSSION DRILL RECORD

Location:	UTM COORD'S 384640E; 5945985N	**Length(m):**	54.0	**Hole No.:**	TR 87-6 RE-LOG
Azimuth:	210°	**Pipe Size:**	3.5 inches	**Page:**	1 of 2
Dip:	-70°	**Dip Tests:**		**Property:**	Cutoff
Started:	July 21/87	**Elevation:**	848.6m	**Section:**	
Completed:	July 23/87	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration %Qtz	Alteration %Py	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	2.0	Overburden	OB											
2.0	22.0	Crystal Lithic and Lapilli Tuff: Dark grey to maroon silicified tuff. 2% to 4% disseminated pyrite throughout interval.	uKKct,lt	1603	2.0	3.0	1.0		5-10	2-4	5			
				1604	3.0	4.0	1.0		5-10	2-4	10			
				1605	4.0	5.0	1.0		5-10	2-4	40			
				1606	5.0	6.0	1.0		5-10	2-4	90			
				1607	6.0	7.0	1.0		5-10	2-4	25			
				1608	7.0	8.0	1.0		0-5	2-4	60			
				1609	8.0	9.0	1.0		0-5	2-4	35			
				1610	9.0	10.0	1.0		0-5	2-4	10			
				1611	10.0	11.0	1.0		0-5	2-4	15			
				1612	11.0	12.0	1.0		0-5	2-4	65			
				1613	12.0	13.0	1.0		0-5	2-4	130			
				1614	13.0	14.0	1.0		0-5	2-4	35			
				1615	14.0	15.0	1.0		0-5	2-4	10			
				1616	15.0	16.0	1.0		0-5	2-4	130			
				1617	16.0	17.0	1.0		0-5	2-4	470			
				1618	17.0	18.0	1.0		0-5	2-4	185			
				1619	18.0	19.0	1.0		0-5	2-4	190			
				1620	19.0	20.0	1.0		0-5	2-4	100			
				1621	20.0	21.0	1.0		0-5	2-4	115			
				1622	21.0	22.0	1.0		5-10	2-4	1100			
22.0	23.0	Fault Zone: 20% to 25% quartz and 2% to 4% disseminated pyrite.	FZpy	1623	22.0	23.0	1.0		20-25	2-4	1050			
				1624	23.0	24.0	1.0		15-20	2-4	420			
23.0	52.0	Monolithic Breccia: Dark grey and maroon andesite, locally feldspar phyric. 24.0-31.0m: 20% to 30% quartz and 2% to 4% disseminated pyrite throughout this interval.	uKKmbx	1625	24.0	25.0	1.0		20-25	2-4	2250			
				1626	25.0	26.0	1.0		25-30	2-4	560			
				1627	26.0	27.0	1.0		25-30	2-4	4600			
				1628	27.0	28.0	1.0		20-25	2-4	1300			
				1629	28.0	29.0	1.0		20-25	2-4	470			
				1630	29.0	30.0	1.0		20-25	2-4	290			
				1631	30.0	31.0	1.0		20-25	2-4	325			
				1632	31.0	32.0	1.0		10-15	2-4	350			
				1633	32.0	33.0	1.0		10-15	2-4	295			
				1634	33.0	34.0	1.0		10-15	2-4	142			
				1635	34.0	35.0	1.0		10-15	2-4	285			
				1636	35.0	36.0	1.0		5-10	2-4	1080			
		36.0-45.0m: 30% to 80% quartz and 2% to 4% disseminated pyrite.		1637	36.0	37.0	1.0		40-50	2-4	3250			
				1638	37.0	38.0	1.0		60-80	2-4	3900			
				1639	38.0	39.0	1.0		60-80	2-4	2650			
				1640	39.0	40.0	1.0		40-50	2-4	1250			
				1641	40.0	41.0	1.0		35-40	2-4	620			
				1642	41.0	42.0	1.0		50-60	2-4	680			
				1643	42.0	43.0	1.0		30-35	2-4	560			
				1644	43.0	44.0	1.0		25-30	2-4	630			
				1645	44.0	45.0	1.0		34-40	2-4	490			
				1646	45.0	46.0	1.0		15-20	2-4	170			
				1647	46.0	47.0	1.0		5-10	2-4	175			
				1648	47.0	48.0	1.0		0-5	2-4	230			

PERCUSSION DRILL RECORD

Hole No.: TR87-6 RE-LOG
Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration %Qtz	Alteration %Py	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
23.0	52.0 (Cont'd)	49.0-52.0m: 30% to 60% quartz and 2% to 4% disseminated pyrite .		1649	48.0	49.0	1.0		0-5	2-4	520			
				1650	49.0	50.0	1.0		30-35	2-4	1450			
				1651	50.0	51.0	1.0		40-50	2-4	1700			
				1652	51.0	52.0	1.0		50-60	2-4	1600			
52.0	53.0	Fault Zone: 60% to 70% quartz and 2% to 4% disseminated pyrite.	FZpy	1653	52.0	53.0	1.0		60-70	2-4	2400			
				1654	53.0	54.0	1.0		60-80	2-4	2409			
53.0	54.0	Monolithic Breccia: As above. 60% to 80% quartz and 2% to 4% disseminated pyrite.	uKKmbx											
	54.0	End of Hole.												

PERCUSSION DRILL RECORD

Location:	UTM COORD'S 384621E; 5945956N	**Length(m):**	48.0	**Hole No.:**	TR 37-7 RE-LOG
Azimuth:	000°	**Pipe Size:**	3.5 inches	**Page:**	1 of 1
Dip:	-58°	**Dip Tests:**		**Property:**	Cutoff
Started:	July 23/87	**Elevation:**	849.0m	**Section:**	
Completed:	July 24/87	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration %Qtz	Alteration %Py	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	5.0	Overburden	OB											
5.0	12.0	Fault Zone: Grey fault gouge, pyritic.	FZpy	1655	5.0	6.0	1.0				33			
				1656	6.0	7.0	1.0				26			
				1657	7.0	8.0	1.0				52			
				1658	8.0	9.0	1.0				31			
				1659	9.0	10.0	1.0				18			
				1660	10.0	11.0	1.0				34			
				1661	11.0	12.0	1.0				27			
12.0	17.0	Monolithic Breccia: Light grey weakly siliceous andesite breccia.	uKKmbx	1662	12.0	13.0	1.0		5-10	2-4	61			
				1663	13.0	14.0	1.0		5-10	2-4	164			
				1664	14.0	15.0	1.0		5-10	2-4	117			
				1665	15.0	16.0	1.0		5-10	2-4	720			
		16.0-17.0m: 10% to 15% quartz and 2% to 4% disseminated pyrite.		1666	16.0	17.0	1.0		10-15	2-4	1350			
17.0	19.0	Fault Zone: Grey fault gouge, pyritic.	FZpy	1667	17.0	18.0	1.0				740			
				1668	18.0	19.0	1.0				115			
19.0	21.0	Lapilli Tuff: Maroon lapilli tuff.	uKKlt	1669	19.0	20.0	1.0		0-5		17			
				1670	20.0	21.0	1.0		0-5		45			
21.0	31.0	Fault Zone: Grey to maroon fault gouge.	FZ	1671	21.0	22.0	1.0				72			
				1672	22.0	23.0	1.0				47			
				1673	23.0	24.0	1.0				46			
				1674	24.0	25.0	1.0		10-15	1-2	27			
				1675	25.0	26.0	1.0		0-5		170			
				1676	26.0	27.0	1.0				41			
				1677	27.0	28.0	1.0				48			
				1678	28.0	29.0	1.0				5			
				1679	29.0	30.0	1.0				27			
				1680	30.0	31.0	1.0				16			
31.0	37.0	Lapilli Tuff: As above.	uKKlt	1681	31.0	32.0	1.0		0-5		18			
				1682	32.0	33.0	1.0		0-5		24			
				1683	33.0	34.0	1.0		0-5		17			
				1684	34.0	35.0	1.0		0-5		6			
				1685	35.0	36.0	1.0		0-5		15			
				1686	36.0	37.0	1.0		0-5		9			
37.0	48.0	Monolithic Breccia: Light grey to grey siliceous andesite breccia.	uKKmbx	1687	37.0	38.0	1.0		5-10	2-3	112			
				1688	38.0	39.0	1.0		5-10	2-3	365			
				1689	39.0	40.0	1.0		0-5	3-4	320			
				1690	40.0	41.0	1.0		0-5	3-4	196			
		41.0-42.0m: 5% to 10% quartz and 6% to 8% disseminated pyrite.		1691	41.0	42.0	1.0		5-10	6-8	250			
				1692	42.0	43.0	1.0				410			
				1693	43.0	44.0	1.0							
				1694	44.0	45.0	1.0		15-20	4-5	137			
		45.0-48.0m: grey moderately siliceous andesite breccia.		1695	45.0	46.0	1.0		15-20	4-5	390			
				1696	46.0	47.0	1.0				345			
		47.0-48.0m: 25% to 30% quartz and 4% to 5% disseminated pyrite.		1697	47.0	48.0	1.0		25-30	4-5	1000			
	48.0	End of Hole.												

PERCUSSION DRILL RECORD

Location:	UTM COORD'S 384614E; 5946006N	**Length(m):**	67.0	**Hole No.:**	TR 87-8 RE-LOG
Azimuth:	180°	**Pipe Size:**	3.5 inches	**Page:**	1 of 2
Dip:	-60°	**Dip Tests:**		**Property:**	Cutoff
Started:	July 24/87	**Elevation:**	847.0m	**Section:**	
Completed:	July 26/87	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration %Qtz	Alteration %Py	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	14.0	Overburden	OB											
14.0	18.0	Lapilli Tuff and Crystal Lithic Tuff: Dark grey and maroon tuffaceous rocks.	uKKlt,ct	1698	14.0	15.0	1.0		0-5	2-4	10			
				1699	15.0	16.0	1.0		1-5	2-4	5			
				1700	16.0	17.0	1.0		0-5	2-4	2			
				1701	17.0	18.0	1.0		0-5	2-4	4			
18.0	35.0	Fault Zone: Grey to maroon fault gouge.	FZ	1702	18.0	19.0	1.0		0-5	2-4	5			
				1703	19.0	20.0	1.0		0-5	2-4	3			
				1704	20.0	21.0	1.0		0-5	2-4	4			
				1705	21.0	22.0	1.0		0-5	2-4	2			
				1706	22.0	23.0	1.0				3			
				1707	23.0	24.0	1.0		0-5	2-4	1			
				1708	24.0	25.0	1.0		0-5	2-4	4			
				1709	25.0	26.0	1.0				10			
				1710	26.0	27.0	1.0		0-5		4			
				1711	27.0	28.0	1.0		0-5		6			
				1712	28.0	29.0	1.0		0-5		5			
				1713	29.0	30.0	1.0				5			
					30.0	31.0	1.0							
					31.0	32.0	1.0							
					32.0	33.0	1.0							
				1714	33.0	34.0	1.0				5			
				1715	34.0	35.0	1.0				193			
35.0	46.0	Lapilli Tuff: Maroon soft lapilli tuff.	uKKlt	1716	35.0	36.0	1.0		5-10	2-4	96			
				1717	36.0	37.0	1.0		5-10	2-4	23			
				1718	37.0	38.0	1.0		5-10	2-4	5			
				1719	38.0	39.0	1.0		0-5	2-4	4			
				1720	39.0	40.0	1.0		0-5	2-4	3			
				1721	40.0	41.0	1.0		0-5	2-4	2			
				1722	41.0	42.0	1.0		0-5	2-4	2			
				1723	42.0	43.0	1.0		0-5	2-4	3			
				1724	43.0	44.0	1.0		0-5	2-4	3			
				1725	44.0	45.0	1.0		0-5	2-4	2			
				1726	45.0	46.0	1.0		0-5	2-4	98			
46.0	62.0	Monolithic Breccia: Grey siliceous andesite breccia. 46.0-50.0m: Transitional contact with tuffaceous rock above. 51.0-57.0m: 25% to 60% quartz and 4% to 10% disseminated pyrite.	uKKmbx	1727	46.0	47.0	1.0		5-10	2-4	145			
				1728	47.0	48.0	1.0		5-10	2-4	200			
				1729	48.0	49.0	1.0		5-10	2-4	280			
				1730	49.0	50.0	1.0		5-10	2-4	113			
				1731	50.0	51.0	1.0		5-10	2-4	490			
				1732	51.0	52.0	1.0		25-30	4-6	1350			
				1733	52.0	53.0	1.0		25-30	6-8	850			
				1734	53.0	54.0	1.0		50-60	8-10	350			
				1735	54.0	55.0	1.0		40-60	6-8	310			
				1736	55.0	56.0	1.0		40-60	4-8	325			
				1737	56.0	57.0	1.0		40-60	4-6	132			
				1738	57.0	58.0	1.0		20-25	2-4	78			
				1739	58.0	59.0	1.0		20-25	2-4	96			
				1740	59.0	60.0	1.0		10-15	4-6	385			

PERCUSSION DRILL RECORD

Hole No.: TR87-8 RE-LOG
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From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration %Qtz	Alteration %Py	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
				1741	60.0	61.0	1.0		S-10	2-4	157			
				1742	61.0	62.0	1.0		S-10	2-4	143			
62.0	67.0	Monolithic Breccia: Maroon to grey siliceous andesite breccia. 5% to 10% quartz and 2% to 4% disseminated pyrite throughout interval.	uKKmbx	1743	62.0	63.0	1.0		S-10	2-4	195			
				1744	63.0	64.0	1.0		S-10	2-4	300			
				1745	64.0	65.0	1.0		10-15	2-4	240			
				1746	65.0	66.0	1.0		0-5	2-4	300			
	67.0	End of Hole.		1747	66.0	67.0	1.0		10-15	2-4	95			

PERCUSSION DRILL RECORD

Location:	UTM COORD'S 384589E; 5945997N	**Length(m):**	35.0	**Hole No.:**	TR 87-9 RE-LOG
Azimuth:	180°	**Pipe Size:**	3.5 inches	**Page:**	1 of 1
Dip:	-60°	**Dip Tests:**		**Property:**	Cutoff
Started:	July 26/87	**Elevation:**	846.2m	**Section:**	
Completed:	July 31/87	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
									%Qtz	%Py						Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	24.0	Overburden	OB																
24.0	35.0	Polylithic Breccia: Grey maroon with tuff and andesite fragments set in grey gouge. Weak silicification to 31.0m.	uKKpbx	1748	24.0	25.0	1.0		0-5							5			
				1749	25.0	26.0	1.0									10			
				1750	26.0	27.0	1.0		0-5							5			
				1751	27.0	28.0	1.0		0-5							5			
				1752	28.0	29.0	1.0		0-5							10			
				1753	29.0	30.0	1.0		0-5							5			
				1754	30.0	31.0	1.0		0-5							5			
		31.0-34.0m: 10% to 20% quartz and 1% to 3% disseminated pyrite.		1755	31.0	32.0	1.0		10-15	1-2						80			
				1756	32.0	33.0	1.0		10-15	1-2						25			
				1757	33.0	34.0	1.0		15-20	2-3						120			
	35.0	End of Hole.		1758	34.0	35.0	1.0												

PERCUSSION DRILL RECORD

Location:	UTM COORD'S 384566E; 5946008N	**Length(m):**	75.0	**Hole No.:**	TR 87-10 RE-LOG
Azimuth:	180°	**Pipe Size:**	3.5 inches	**Page:**	1 of 2
Dip:	-57°	**Dip Tests:**		**Property:**	Cutoff
Started:	August 1/87	**Elevation:**	849.8m	**Section:**	
Completed:	August 2/87	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration %Qtz	Alteration %Py	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	23.0	Overburden	OB											
23.0	25.0	Lapilli and Crystal Lithic Tuff: Maroon and grey tuffaceous rocks.	uKKlt,ct	1758	23.0	24.0	1.0		0-5		15			
				1759	24.0	25.0	1.0		0-5		5			
25.0	52.0	Fault Zone: Maroon to grey fault gouge, pyritic.	FZpy	1760	25.0	26.0	1.0		0-5		5			
				1761	26.0	27.0	1.0		0-5		5			
				1762	27.0	28.0	1.0		0-5		10			
				1763	28.0	29.0	1.0		0-5		5			
				1764	29.0	30.0	1.0		0-5		5			
				1765	30.0	31.0	1.0		0-5		20			
				1766	31.0	32.0	1.0				40			
				1767	32.0	33.0	1.0				5			
				1768	33.0	34.0	1.0				5			
				1769	34.0	35.0	1.0				10			
				1770	35.0	36.0	1.0				10			
				1771	36.0	37.0	1.0				5			
				1772	37.0	38.0	1.0				20			
				1773	38.0	39.0	1.0				5			
				1774	39.0	40.0	1.0		0-5	2-4	5			
				1775	40.0	41.0	1.0		0-5	2-4	10			
				1776	41.0	42.0	1.0		0-5	1-2	5			
				1777	42.0	43.0	1.0		0-5	1-2	10			
				1778	43.0	44.0	1.0		0-5	1-2	5			
				1779	44.0	45.0	1.0			1-2	10			
				1780	45.0	46.0	1.0			1-2	5			
				1781	46.0	47.0	1.0		0-5	2-3	10			
				1782	47.0	48.0	1.0		0-5	2-3	15			
				1783	48.0	49.0	1.0		0-5	3-5	10			
				1784	49.0	50.0	1.0		0-5	3-5	20			
				1785	50.0	51.0	1.0		0-5	3-5	20			
				1786	51.0	52.0	1.0		0-5	3-5	5			
52.0	56.0	Lapilli Tuff: Maroon lapilli tuff. 54.0-56.0: 5% to 30% quartz and 3% to 5% disseminated pyrite.	uKKlt	1787	52.0	53.0	1.0		0-5	3-5	10			
				1788	53.0	54.0	1.0		0-5	3-5	10			
				1789	54.0	55.0	1.0		0-5	3-5	5			
				1790	55.0	56.0	1.0		25-30	3-5	50			
56.0	68.0	Lapilli and Crystal Lithic Tuff: Maroon and grey tuffaceous rocks. 64.0-68.0m: 10% to 15% quartz and 8% to 12% disseminated pyrite.	uKKlt,ct	1791	56.0	57.0	1.0		20-25	3-5	85			
				1792	57.0	58.0	1.0		15-20	3-5	75			
				1793	58.0	59.0	1.0		10-15	3-5	40			
				1794	59.0	60.0	1.0		10-15	3-5	115			
				1795	60.0	61.0	1.0		10-15	2-3	50			
				1796	61.0	62.0	1.0		10-15	2-3	35			
				1797	62.0	63.0	1.0		10-15	3-5	65			
				1798	63.0	64.0	1.0		10-15	3-5	40			
				1799	64.0	65.0	1.0		10-15	10-12	10			
				1800	65.0	66.0	1.0		10-15	8-10	15			
				1801	66.0	67.0	1.0		10-15	3-5	100			
68.0	72.0	Polylithic Breccia: maroon to grey lapilli and crystal lithic tuff fragments in a grey clay rich fault gouge.	uKKpbx	1802	67.0	68.0	1.0		10-15	8-10	15			
				1803	68.0	69.0	1.0		10-15	4-5	5			

PERCUSSION DRILL RECORD

Hole No.: TR87-10
Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
									%Qtz	%Py						Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
68.0	72.0			1804	69.0	70.0	1.0		10-15	4-5						15			
	rCont'd			1805	70.0	71.0	1.0		5-10	5-6						125			
		71.0-75.0m: 4% to 8% disseminated pyrite.		1806	71.0	72.0	1.0		0-5	6-8						160			
72.0	73.0	Fault Zone: Grey fault gouge, pyritic.	FZpy	1807	72.0	73.0	1.0		5-10	4-5						110			
73.0	75.0	Polylithic Breccia: as at 68.0 to 72.0m.	uKKpbx	1808	73.0	74.0	1.0		0-5	7-8						35			
	75.0	End of Hole.		1809	74.0	75.0	1.0		5-10	6-8						40			

PERCUSSION DRILL RECORD

Location:	UTM COORD'S 384657E; 5946009N	Length(m):	93.0	Hole No.:	TR 87-11 RE-LOG
Azimuth:	180°	Pipe Size:	3.5 inches	Page:	1 of 2
Dip:	-60°	Dip Tests:		Property:	Cutoff
Started:		Elevation:	847.5m	Section:	
Completed:		Date Logged:		Claim No:	
Purpose:				Logged By:	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration %Qtz	Alteration %Py	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	3.0	Overburden	OB											
3.0	10.0	Polylithic Breccia: Grey to maroon siliceous andesite and tuffaceous breccia. 3.0-5.0m: 5% to 15% quartz and 1% to 2% disseminated pyrite.	uKKpbx	1810	3.0	4.0	1.0		10-15	1-2	25			
				1811	4.0	5.0	1.0		5-10	1-2	30			
				1812	5.0	6.0	1.0		0-5	1-2	60			
				1813	6.0	7.0	1.0		0-5	2-3	5			
				1814	7.0	8.0	1.0		0-5	2-3	10			
				1815	8.0	9.0	1.0		0-5	2-3	180			
				1816	9.0	10.0	1.0		5-10	2-3	5			
10.0	16.0	Lapilli Tuff: maroon lapilli tuff.	uKKlt	1817	10.0	11.0	1.0		0-5	2-3	575			
				1818	11.0	12.0	1.0		0-5	2-3	510			
				1819	12.0	13.0	1.0		0-5	3-5	95			
				1820	13.0	14.0	1.0		0-5	3-5	40			
		14.0-16.0m: 5% to 10% quartz and 3% to 5% disseminated pyrite.		1821	14.0	15.0	1.0		5-10	3-5	110			
				1822	15.0	16.0	1.0		5-10	3-5	30			
16.0	26.0	Monolithic Breccia: Maroon silicified andesite breccia.	uKKmbx	1823	16.0	17.0	1.0		10-15	3-5	80			
				1824	17.0	18.0	1.0		10-15	2-3	95			
				1825	18.0	19.0	1.0		10-15	3-5	200			
		19.0-20.0m: 20% to 25% quartz and 3% to 5% disseminated pyrite.		1826	19.0	20.0	1.0		20-25	3-5	260			
				1827	20.0	21.0	1.0		15-20	3-5	140			
				1828	21.0	22.0	1.0		10-15	3-5	55			
				1829	22.0	23.0	1.0		15-20	3-5	330			
				1830	23.0	24.0	1.0		10-15	2-3	60			
				1831	24.0	25.0	1.0		10-15	3-5	15			
				1832	25.0	26.0	1.0		10-15	2-3	120			
26.0	43.0	Polylithic Breccia: Grey to dark grey and maroon andesite and tuff. Abundant quartz breccia throughout interval. 27.0-28.0m: 25% to 30% quartz and 2% to 3% disseminated pyrite.	uKKpbx	1833	26.0	27.0	1.0		15-20	2-3	500			
				1834	27.0	28.0	1.0		25-30	2-3	510			
				1835	28.0	29.0	1.0		15-20	2-3	135			
				1836	29.0	30.0	1.0		10-15	2-3	90			
				1837	30.0	31.0	1.0		15-20	2-3	185			
				1838	31.0	32.0	1.0		15-20	2-3	125			
		33.5m: Chalcedony/quartz .		1839	32.0	33.0	1.0		20-25	2-3	70			
		33.0-38.0m: 30% to 70% quartz and 3% to 4% disseminated pyrite.		1840	33.0	34.0	1.0		25-30	2-3	75			
				1841	34.0	35.0	1.0		40-50	3-4	250			
				1842	35.0	36.0	1.0		60-70	3-4	475			
				1843	36.0	37.0	1.0		40-50	3-4	325			
				1844	37.0	38.0	1.0		30-40	3-4	200			
				1845	38.0	39.0	1.0		25-30	2-3	620			
				1846	39.0	40.0	1.0		10-15	2-3	210			
				1847	40.0	41.0	1.0		10-15	2-3	75			
				1848	41.0	42.0	1.0		10-15	2-3	50			
				1849	42.0	43.0	1.0		10-15	2-3	15			
43.0	44.0	Fault Zone: Grey clay rich fault gouge, pyritic.	FZpy	1850	43.0	44.0	1.0		20-25	3-5	180			
44.0	65.0	Polylithic Breccia: As above.	ukkpbx	1851	44.0	45.0	1.0		20-25	6-8	110			
				1852	45.0	46.0	1.0		20-25	4-5	65			
		46.0-49.0m: 50% to 60% quartz and 4% to 5% disseminated pyrite .		1853	46.0	47.0	1.0		50-60	4-5	12000			
				1854	47.0	48.0	1.0		50-60	4-5	350			
				1855	48.0	49.0	1.0		40-50	4-5	115			

PERCUSSION DRILL RECORD

Hole No.: TR87-11 RE-LOG
Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration %Qtz	Alteration %Py	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
44.0	65.0 (Cont'd)			1856	49.0	50.0	1.0		35-40	10-12	195			
				1857	50.0	51.0	1.0		30-35	10-12	300			
		51.0-56.0m: 40% to 60% quartz and 4% to 5% disseminated pyrite.		1858	51.0	52.0	1.0		40-45	8-10	850			
				1859	52.0	53.0	1.0		50-60	6-8	165			
				1860	53.0	54.0	1.0		30-35	6-8	490			
				1861	54.0	55.0	1.0		25-30	8-10	350			
		56.0-58.0m: Grey siliceous quartz breccia with 15% to 20% quartz and 6% to 8% disseminated pyrite.		1862	55.0	56.0	1.0		15-20	6-8	1200			
				1863	56.0	57.0	1.0		25-30	4-5	55			
				1864	57.0	58.0	1.0		15-20	3-5	70			
				1865	58.0	59.0	1.0		20-25	3-5	135			
		59.0-60.0m: Chalcedony/quartz.		1866	59.0	60.0	1.0		25-30	5-6	35			
				1867	60.0	61.0	1.0		20-25	3-5	60			
				1868	61.0	62.0	1.0				135			
				1869	62.0	63.0	1.0		15-20	2-3	150			
				1870	63.0	64.0	1.0		15-20	2-3	150			
				1871	64.0	65.0	1.0		20-25	3-4	125			
65.0	66.0	Fault Zone: Grey clay rich fault gouge, pyritic.	FZpy	1872	65.0	66.0	1.0		25-30	5-6	25			
66.0	69.0	Polylithic Breccia: As above.		1873	66.0	67.0	1.0		20-25	5-6	20			
				1874	67.0	68.0	1.0		15-20	3-5	40			
				1875	68.0	69.0	1.0		5-10	2-3	50			
69.0	75.0	Andesite: Dark grey feldspar phyric andesite.	uKKv	1876	69.0	70.0	1.0		5-10	2-3	45			
				1877	70.0	71.0	1.0		0-5	1-2	15			
				1878	71.0	72.0	1.0		0-5	1-2	25			
				1879	72.0	73.0	1.0		0-5		70			
				1880	73.0	74.0	1.0		0-5		10			
				1881	74.0	75.0	1.0		0-5		20			
75.0	77.0	Lapilli Tuff: Maroon lapilli tuff.	uKKlt	1882	75.0	76.0	1.0		0-5		55			
				1883	76.0	77.0	1.0		0-5		10			
77.0	79.0	Crystal Lithic Tuff: Grey feldspar phyric tuff.	uKKct	1884	77.0	78.0	1.0		0-5		5			
				1885	78.0	79.0	1.0		0-5		10			
79.0	85.0	Andesite: Dark grey feldspar phyric andesite.	uKKv	1886	79.0	80.0	1.0		0-5		5			
				1887	80.0	81.0	1.0		0-5		15			
				1888	81.0	82.0	1.0		0-5		5			
				1889	82.0	83.0	1.0		0-5		20			
				1890	83.0	84.0	1.0		0-5		5			
				1891	84.0	85.0	1.0		0-5		15			
85.0	87.0	Crystal Lithic Tuff: Grey to light grey feldspar phyric tuff.	uKKct	1892	85.0	86.0	1.0		0-5		10			
				1893	86.0	87.0	1.0		0-5		10			
87.0	88.0	Lapilli Tuff: Maroon lapilli tuff.	uKKlt	1894	87.0	88.0	1.0		0-5		20			
88.0	93.0	Crystal Lithic Tuff: Grey to light grey feldspar phyric tuff.	uKKct	1895	88.0	89.0	1.0		0-5		5			
				1896	89.0	90.0	1.0		0-5		5			
				1897	90.0	91.0	1.0		0-5		15			
				1898	91.0	92.0	1.0		0-5		15			
	93.0	End of Hole.		1899	92.0	93.0	1.0		0-5		10			

PERCUSSION DRILL RECORD

Location:	UTM COORD'S 384486E; 5946133N	**Length(m):**	59.0	**Hole No.:**	TR 87-12 RE-LOG
Azimuth:	210°	**Pipe Size:**	3.5 inches	**Page:**	1 of 2
Dip:	-60°	**Dip Tests:**		**Property:**	Cutoff
Started:	August 3/87	**Elevation:**	851.0m	**Section:**	
Completed:	August 4/87	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration %Qtz	Alteration %Py	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	2.0	Overburden	OB											
2.0	6.0	Lapilli Tuff: Maroon lapilli tuff.	uKKlt	1900	2.0	3.0	1.0				25			
				1902	3.0	4.0	1.0				420			
				1903	4.0	5.0	1.0				90			
				1904	5.0	6.0	1.0				40			
6.0	12.0	Crystal Lithic Tuff: Light grey to grey feldspar phyric tuff. Minor quartz and disseminated pyrite throughout interval.	uKKct	1905	6.0	7.0	1.0		0-5	1-2	35			
				1906	7.0	8.0	1.0		0-5	2-3	40			
				1907	8.0	9.0	1.0		0-5	1-2	195			
				1908	9.0	10.0	1.0		0-5	1-2	50			
				1909	10.0	11.0	1.0		0-5	1-2	10			
				1910	11.0	12.0	1.0		0-5	2-3	40			
12.0	15.0	Monolithic Breccia: Dark grey andesite breccia. 13.0-14.0m: 25% to 30% quartz and 2% to 3% disseminated pyrite.	uKKmbx	1911	12.0	13.0	1.0		5-10	2-3	75			
				1912	13.0	14.0	1.0		25-30	2-3	290			
				1913	14.0	15.0	1.0		10-15	1-2	310			
15.0	16.0	Crystal Lithic Tuff: As above.	uKKct	1914	15.0	16.0	1.0		5-10	1-2	165			
16.0	21.0	Polylithic Breccia: Light grey to dark grey and minor maroon andesite and tuff.	uKKpbx	1915	16.0	17.0	1.0		0-5	1-2	160			
				1916	17.0	18.0	1.0		0-5	1-2	75			
				1917	18.0	19.0	1.0		5-10	1-2	80			
				1918	19.0	20.0	1.0		5-10	1-2	60			
				1919	20.0	21.0	1.0			1-2	25			
21.0	23.0	Crystal Lithic Tuff: Light grey to grey feldspar phyric tuff.	uKKct	1920	21.0	22.0	1.0		0-5	1-2	35			
				1921	22.0	23.0	1.0		15-20	1-2	20			
23.0	26.0	Polylithic Breccia: Light grey to dark grey and minor maroon andesite and tuff. 10% to 20% quartz and 1% to 2% disseminated pyrite throughout interval.	uKKpbx	1922	23.0	24.0	1.0		15-20	1-2	35			
				1923	24.0	25.0	1.0		10-15	1-2	60			
				1924	25.0	26.0	1.0		10-15	1-2	225			
26.0	27.0	Lapilli Tuff: maroon to light maroon lapilli tuff.	uKKlt	1925	26.0	27.0	1.0		5-10	1-2	145			
27.0	29.0	Fault Zone: Grey clay rich fault gouge.	FZ	1926	27.0	28.0	1.0		0-5		310			
				1927	28.0	29.0	1.0				530			
29.0	32.0	Polylithic Breccia: Grey to dark grey to maroon andesite and tuff breccia.	uKKpbx	1928	29.0	30.0	1.0		15-20	1-2	240			
				1929	30.0	31.0	1.0		10-15	1-2	660			
				1930	31.0	32.0	1.0		15-20	1-2	800			
32.0	33.0	Fault Zone: Grey fault gouge, pyritic.	FZpy	1931	32.0	33.0	1.0		10-15	1-2	165			
33.0	59.0	Polylithic Breccia: Grey to dark grey to maroon andesite and tuff breccia. 33.0-34.0m: Chalcedony/quartz.	uKKpbx	1932	33.0	34.0	1.0		50-60	1-2	270			
				1933	34.0	35.0	1.0		10-15	1-2	170			
				1934	35.0	36.0	1.0		30-35	1-2	630			
				1935	36.0	37.0	1.0		20-25	1-2	80			
				1936	37.0	38.0	1.0		20-25	1-2	450			
				1937	38.0	39.0	1.0		20-25	1-2	245			
		39.0-59.0m: 30% to 70% quartz and 2% to 4% disseminated pyrite.		1938	39.0	40.0	1.0		30-75	1-2	1050			
		39.0-59.0m: Locally amethyst noted throughout this interval.		1939	40.0	41.0	1.0		50-60	1-2	515			
				1940	41.0	42.0	1.0		60-70	1-2	570			
				1941	42.0	43.0	1.0		60-70	2-3	560			
				1942	43.0	44.0	1.0		70-80	2-3	970			
				1943	44.0	45.0	1.0		60-70	2-3	325			
				1944	45.0	46.0	1.0		60-70	2-3	510			
				1945	46.0	47.0	1.0		60-70	2-3	800			
				1946	47.0	48.0	1.0		50-60	2-3	620			

PERCUSSION DRILL RECORD

Hole No.: TR87-12 RE-LOG
Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
									%Qtz	%Py						Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
				1947	48.0	49.0	1.0		40-50	2-3						325			
				1948	49.0	50.0	1.0		50-60	2-3						315			
				1949	50.0	51.0	1.0		50-60	1-2						210			
				1950	51.0	52.0	1.0		50-60	2-3						390			
				1951	52.0	53.0	1.0		60-70	2-3						1050			
				1952	53.0	54.0	1.0		60-70	2-4						950			
				1953	54.0	55.0	1.0		60-70	3-4						585			
				1954	55.0	56.0	1.0		40-50	2-3						720			
				1955	56.0	57.0	1.0		50-60	2-3						1150			
				1956	57.0	58.0	1.0		60-70	2-3						1000			
	59.0	End of Hole.		1957	58.0	59.0	1.0		60-70	2-3						460			

PERCUSSION DRILL RECORD

Location:	UTM COORD'S 384638E; 5945931N	**Length(m):**	22.0	**Hole No.:**	TR 87-13 RE-LOG
Azimuth:	210°	**Pipe Size:**	3.5 inches	**Page:**	1 of 1
Dip:	-60°	**Dip Tests:**		**Property:**	toff
Started:	August 4/87	**Elevation:**	850.0m	**Section:**	
Completed:	August 5/87	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration %Qtz	Alteration %Py	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	3.0	Overburden	OB											
3.0	8.0	Fault Zone: Maroon fault gouge.	FZ	1958	3.0	4.0			0-5		5			
				1959	4.0	5.0					5			
				1960	5.0	6.0			0-5		5			
				1961	6.0	7.0					10			
				1962	7.0	8.0					15			
8.0	10.0	Crystal Lithic Tuff: Grey feldsper phyric tuff. 4% to 6% disseminated pyrite throughout interval.	uKKct	1963	8.0	9.0			0-5	4-5	20			
				1964	9.0	10.0			0-5	5-6	20			
10.0	22.0	Monolithic Breccia: Grey siliceous andesite. 10.0-15.0m: 5% to 10% quartz and 5% to 6% disseminated pyrite.	uKKmbx	1965	10.0	11.0			5-10	5-6	110			
				1966	11.0	12.0			5-10	5-6	35			
				1967	12.0	13.0			5-10	5-6	115			
				1968	13.0	14.0			5-10	5-6	115			
				1969	14.0	15.0			5-10	5-6	5			
		15.0-22.0m: Trace quartz and 4% to 5% disseminated pyrite.		1970	15.0	16.0			10-15	4-5	10			
				1971	16.0	17.0			5-10	4-5	135			
				1972	17.0	18.0			0-5	4-5	90			
				1973	18.0	19.0			5-10	4-5	110			
				1974	19.0	20.0								
				1975	20.0	21.0			5-10	4-5	55			
	22.0	End of Hole.		1976	21.0	22.0			5-10	4-5	160			

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384496E; 5946163N	**Length(m):**	124.1	**Hole No.:**	TR 90-1 RE-LOG
Azimuth:	209°	**Core Size:**	HQ	**Page:**	1 of 2
Dip:	-61°	**Dip Tests:**		**Property:**	Cutoff
Started:	July 9/90	**Elevation:**	854.0m	**Section:**	
Completed:	July 12/90	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	16.8	Casing: Coring started at 16.8m.	OB										
16.8	19.9	Monomictic Conglomerate: Round to subangular clasts set in fine grained maroon groundmass. Andesite clasts are matrix supported.	uKKmcgl	500001	24.0	25.0	1.0			40	0.3		
				500002	26.9	27.7	0.8			85	0.3		
				500003	30.4	31.5	1.2			125	0.8		
19.9	21.6	Fault Zone: Light blue-green with 2% disseminated pyrite throughout. Lower contact 30° to c/a.	FZpy	500004	31.5	32.6	1.2			50	0.4		
				500005	60.0	61.0	1.0			125	1.8		
				500006	61.0	62.0	1.0			155	0.8		
21.6	35.4	Andesite Flow Breccia: Dark green, coarse subangular fragments to 8cm.	uKKv	500007	62.0	63.3	1.3			135	1.1		
				500008	63.0	64.0	1.0			50	1.5		
35.4	39.8	Polylithic Breccia: Light maroon to light green angular to subrounded fragments set in a light grey argillic matrix. Clasts range in size from 0.5cm to 2cm.	uKKpbx	500009	64.0	65.0	1.0			35	1.0		
				500010	65.0	66.0	1.0			130	1.5		
				500011	66.0	67.0	1.0			95	1.2		
39.8	40.8	Fault Zone: Grey-green with trace to 1% disseminated pyrite throughout interval.	FZpy	500012	67.0	68.0	1.0			125	1.2		
				500013	68.0	69.0	1.0			40	1.4		
40.8	45.6	Andesite Flow Breccia: Grey-green angular to subrounded fragments to 6cm set in a dark green matrix.	uKKv	500014	69.0	70.0	1.0			55	2.0		
				500015	70.0	71.0	1.0			75	1.4		
				500016	71.0	72.0	1.0			35	0.9		
45.6	46.3	Fault Zone: Grey-green to maroon gouge with trace to 1% disseminated pyrite throughout.	FZpy	500017	72.0	73.0	1.0			55	1.1		
				500018	73.0	74.0	1.0			20	1.1		
				500019	74.0	75.0	1.0			30	1.1		
46.3	50.3	Rhyodacite: Buff to pink feldspar phyric rhyodacite. Argillically altered throughout interval.	uKKrd	500020	75.0	76.0	1.0			40	1.0		
				500021	76.0	77.0	1.0			30	1.1		
				500022	77.0	78.0	1.0			30	0.9		
50.3	51.2	Fault Zone: Lower contact 30° to c/a.	FZ	500023	78.0	79.0	1.0			35	1.1		
				500024	79.0	80.0	1.0			20	1.2		
51.2	87.5	Polylithic Breccia: Light green, buff to maroon angular to subangular fragments set in a maroon medium to fine grained matrix. Interval is argillically altered. Fragments range in size up to 8cm.	uKKpbx	500025	80.0	81.0	1.0			25	1.1		
				500026	81.0	82.0	1.0			15	0.7		
				500027	82.0	83.0	1.0			60	0.9		
				500028	83.0	84.0	1.0			10	0.6		
				500029	84.0	85.0	1.0			25	0.8		
				500030	85.0	86.0	1.0			110	1.6		
				500031	86.0	87.0	1.0			35	1.0		
				500032	87.0	88.0	1.0			55	1.3		
87.5	90.8	Fault Zone: Light green fault gouge. Upper contact 20° to c/a.	FZ	500033	88.0	89.0	1.0			100	1.9		
				500034	89.0	90.0	1.0			65	1.9		
90.8	99.9	Monolithic Breccia: Green, subangular to rounded andesite fragments set in a fine maroon matrix.	uKKmbx	500035	90.0	91.0	1.0			95	1.2		
				500036	91.0	92.0	1.0			65	0.5		
				500037	92.0	93.0	1.0			5	0.7		
				500038	93.0	94.0	1.0			5	0.5		
				500039	94.0	95.0	1.0			5	0.5		
				500040	95.0	96.0	1.0			5	0.9		
				500041	96.0	97.0	1.0			15	1.0		
				500042	97.0	98.0	1.0			5	0.4		
				500043	98.0	99.0	1.0			5	0.7		
99.9	102.6	Lahar: 10% rounded light green andesite clasts and minor intrusive clasts set in a fine grained maroon matrix. Matrix supported. Trace to 1% disseminated pyrite throughout interval.	uKKl	500044	99.0	100.0	1.0			15	0.8		
				500045	100.0	101.0	1.0			15	0.9		
				500046	101.0	102.0	1.0			10	0.9		

DIAMOND DRILL RECORD

Hole No.: TR90-1 RE-LOG
Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results			
										Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
102.5	111.5	Monolithic Breccia: Green to buff andesite fragments to 2cm set in a maroon fine grained matrix.	uKKmbx	500047	102.0	103.0	1.0			5	0.7		
				500048	103.0	104.0	1.0			25	1.2		
				500049	104.0	105.0	1.0			25	0.8		
				500050	105.0	106.0	1.0			15	0.7		
				500051	106.0	107.0	1.0			5	0.3		
				500052	107.0	108.0	1.0			5	0.3		
				500053	108.0	109.0	1.0			5	0.2		
				500054	109.0	110.0	1.0			5	0.2		
				500055	110.0	111.0	1.0			5	0.2		
111.5	114.2	Lapilli Tuff: Light grey green with feldspar/quartz phyric rich fragments in fine grained matrix. Rock is weakly to moderately sericite and chlorite altered.	uKKlt	500056	111.0	112.0	1.0			5	0.3		
				500057	112.0	113.0	1.0			5	0.5		
				500058	113.0	114.0	1.0			15	0.6		
114.5	118.5	Monolithic Breccia: As above.	uKKmbx	500059	114.0	115.0	1.0			5	0.7		
				500060	115.0	116.0	1.0			5	0.8		
				500061	116.0	117.0	1.0			5	0.6		
				500062	117.0	118.0	1.0			5	0.5		
118.5	124.1	Fault Zone: Maroon to light grey fault gouge. 119.8-124.1m: Light grey fault gouge with trace to 1% disseminated pyrite. 120.5-120.6m: 60% quartz veining.	FZpy	500063	118.0	119.0	1.0			30	1.0		
				500064	119.0	120.0	1.0			20	0.5		
				500065	120.0	121.0	1.0			10	0.3		
				500066	121.0	122.0	1.0			5	0.2		
				500067	122.0	123.0	1.0			5	0.2		
	124.1	End of Hole.		500068	123.0	124.1	1.1			5	0.2		

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384644E; 5946200N	Length(m):	222.9	Hole No.:	TR 90-2
Azimuth:	214°	Core Size:	HQ	Page:	1 of 1
Dip:	-47.5°	Dip Tests:	-46° @ 182.9m	Property:	Cutoff
Started:	July 1390	Elevation:	854.0m	Section:	
Completed:	July 16/90	Date Logged:		Claim No:	
Purpose:				Logged By:	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
																Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	4.9	Casing: Coring started at 4.9m.	OB																
4.9	28.5	Lapilli Tuff: Andesite fragments set in a fine grained maroon matrix. Matrix supported.	uKKlt	500069	154.0	155.0	1.1									5	0.5		
				500070	168.0	169.0	1.0									5	0.2		
				500071	169.0	170.0	1.0									5	0.3		
28.5	46.0	Lahar. 10% coarse rounded cobbles set in soft fine grained maroon matrix. Lahar is matrix supported.	Ukkl	500072	170.0	171.0	1.0									5	0.3		
				500073	171.0	172.0	1.0									5	0.3		
				500074	172.0	173.0	1.0									5	0.3		
46.0	101.5	Lapilli Tuff: As above	Ukklt	500075	173.0	174.0	1.0									5	0.3		
				500076	174.0	175.0	1.0									5	0.3		
101.5	105.0	Fault Zone: Blue-green fault gouge with calcite veining.	FZ	500077	175.0	176.0	1.0									5	0.2		
				500078	176.0	177.0	1.0									5	0.2		
105.0	136.6	Lapilli Tuff: As above	uKKlt	500079	177.0	178.0	1.0									5	0.2		
				500080	178.0	179.0	1.0									5	0.2		
136.6	147.7	Andesite: Light green feldspar phyric andesite 1mm to 3mm white argillically altered feldspar phenocrysts set in a chloritized matrix.	uKKv	500081	179.0	180.0	1.0									5	0.2		
				500082	180.0	181.0	1.0									5	0.5		
				500083	181.0	182.0	1.0									5	0.3		
147.7	158.8	Lapilli Tuff: Angular andesite fragments set in dark fine grained lithic matrix. Scattered calcite veins and veinlets throughout interval.	uKKlt	500084	182.0	183.0	1.0									10	0.5		
				500085	183.0	184.0	1.0									5	0.5		
				500086	184.0	185.0	1.0									5	0.7		
158.8	190.0	Polylithic Breccia: Angular fragments of hornblende phyric andesite and rhyodacite in light green fine grained matrix.	uKKpbx	500087	185.0	186.0	1.0									5	0.4		
				500088	186.0	187.0	1.0									5	0.6		
				500089	187.0	188.0	1.0									5	0.6		
				500090	188.0	189.0	1.0									5	0.6		
				500091	189.0	190.0	1.0									5	0.7		
190.0	194.8	Andesite Dyke: Dark grey, fine grained rock with calcite infilling weakly developed stockwork. Rock is crackle breccia.	uKKdk	500092	190.0	191.0	1.0									5	0.4		
				500093	191.0	192.0	1.0									5	1.0		
				500094	192.0	193.0	1.0									5	0.5		
				500095	193.0	194.0	1.0									5	1.0		
194.8	205.2	Lapilli Tuff: 1cm to 2cm angular fragments set in a fine grained matrix.	uKKlt	500096	194.0	195.0	1.0									5	0.6		
				500097	195.0	196.0	1.0									5	0.9		
				500098	196.0	197.0	1.0									5	0.8		
				500099	197.0	198.0	1.0									5	1.2		
				500100	198.0	199.0	1.0									5	2.0		
				500101	199.0	200.0	1.0									5	0.6		
				500102	200.0	201.0	1.0									5	0.8		
				500103	201.0	202.0	1.0									5	0.6		
				500104	202.0	203.0	1.0									5	0.7		
				500105	203.0	204.0	1.0									5	0.8		
205.2	220.3	Andesite Dyke: Dark grey fine grained dense rock with calcite stockwork throughout interval.	uKKdk	500106	204.0	205.2	1.2									10	0.6		
220.3	221.8	Fault Zone: Grey-green fault gouge with 3% disseminated pyrite throughout.	FZpy																
221.8	222.9	Andesite Dyke: Dark brown-grey, dense feldspar phyric rock. Well developed calcite stockwork.	uKKdk																
	222.9	End of Hole.																	

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384647E; 5946202N	**Length(m):**	119.2	**Hole No.:**	TR 90-3 RE-LOG
Azimuth:	030°	**Core Size:**	HQ	**Page:**	1 of 1
Dip:	-47°	**Dip Tests:**		**Property:**	Cutoff
Started:	July 17/90	**Elevation:**	854.0m	**Section:**	
Completed:	July 19/90	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
																Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	7.9	Casing: Coring started at 7.9m.	OB																
7.9	11.8	Andesite Flow Breccia: Coarse angular andesite fragments set in a fine grained chlorite rich matrix.	uKKv																
11.8	12.1	Fault Zone: Grey-green fault gouge, 35° to c/a.	FZ																
12.1	26.6	Andesite: 35% light green to off white feldspar phenocrysts set in a dark green fine grained matrix. Locally flow breccia.	uKKv																
26.6	28.0	Andesite Dyke: Dark grey-brown dense rock with 2mm to 4mm feldspar phenocrysts. Upper contact 40° to c/a.	uKKdk																
28.0	28.8	Fault Zone: Blue-green fault gouge with <1% disseminated pyrite.	FZpy																
28.8	42.6	Andesite Flow Breccia: Green to maroon coarse fragments set in a moderately chlorite rich fine grained matrix.	uKKv																
42.6	44.4	Fault Zone: Dark green fault gouge with 2% disseminated pyrite.	FZpy																
44.4	45.3	Andesite Flow Breccia: As above.	uKKv																
45.3	52.1	Lahar: Matrix supported fragments set in mud rich matrix.	uKKl																
52.1	54.3	Andesite Flow Breccia: As above.	uKKv																
54.3	54.7	Fault Zone: Grey-green fault gouge with disseminated pyrite.	FZpy																
54.7	70.4	Andesite Flow Breccia: grey, angular coarse, feldspar phyric andesite fragments set in a fine grained	uKKv																
70.4	98.2	Lapilli Tuff: Green to maroon angular to subrounded fragments set in a fine grained maroon matrix. 74.8-76.6m: increasingly coarse dark grey fragments to 5cm set in fine grained maroon matrix. 78.0-83.8m: coarse lapilli tuff with disseminated pyrite 86.1-86.8m: fine grained tuff, bedding 60° to c/a.	uKKlt																
98.2	99.0	Polylithic Breccia: red-green to buff fragments in siliceous light green-grey matrix	uKKpbx																
99.0	108.9	Lapilli Tuff: As above	uKKlt																
108.9	109.9	Andesite Dyke: White feldspar phyric fine grained dyke.	uKKdk																
109.9	119.2	Monolithic Breccia: Grey angular to subrounded fragments of feldspar phyric andesite set in a fine grained maroon matrix.	uKKmbx																
	119.2	End of Hole.																	

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384573E; 5946100N	Length(m):	123.8	Hole No.:	TR 90-4 RE-LOG
Azimuth:	210°	Core Size:	HQ	Page:	1 of 2
Dip:	-62°	Dip Tests:		Property:	Cutoff
Started:	July 19/90	Elevation:	848.0m	Section:	
Completed:	July 22/90	Date Logged:		Claim No:	
Purpose:				Logged By:	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
																Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	12.2	Casing: Coring started at 12.2m.	OB																
				500107	32.0	33.0	1.0									20			
12.2	28.5	Andesite Flow Breccia: Green to maroon angular fragments set in a fine grained maroon matrix.	uKKv	500108	33.0	34.0	1.0									15			
				500109	34.0	35.0	1.0									10			
				500110	35.0	36.0	1.0									45			
28.5	42.0	Polylithic Breccia: Brown to maroon angular to subrounded fragments set green gouge rich matrix. Interval has been intensely silicified. 40.7-42.0m: Strong calcite/quartz veining, locally with cream coloured adularia.	uKKpbx	500111	36.0	37.0	1.0									15			
				500112	37.0	38.0	1.0									5			
				500113	38.0	39.0	1.0									5			
				500114	39.0	40.0	1.0									105			
42.0	42.8	Fault Zone:	FZ	500115	40.0	41.0	1.0									240			
				500116	41.0	42.0	1.0									160			
42.8	52.8	Lapilli Tuff: Maroon, grey to green fragments set in maroon fine grained matrix.	uKKlt	500117	42.0	43.0	1.0									180			
				500118	43.0	44.0	1.0									40			
52.8	61.3	Rhyodacite: White to light pink feldspar phenocrysts set in a pink fine grained matrix. Crackle brecciated. 52.8-53.8m: Flow banding.	uKKrd	500119	44.0	45.0	1.0									10			
				500120	45.0	46.0	1.0									15			
				500121	46.0	47.0	1.0									90			
				500122	47.0	48.0	1.0									25			
61.3	62.4	Fault Zone: Grey fault gouge with disseminated pyrite.	FZpy	500123	48.0	49.0	1.0									30			
				500124	49.0	50.0	1.0									10			
62.4	67.4	Andesite: Grey-green medium grained andesite.	uKKv	500125	50.0	51.0	1.0									20			
				500126	51.0	52.0	1.0									90			
67.4	69.8	Fault Zone: Grey-green fault gouge with disseminated pyrite.	FZpy	500127	52.0	52.8	0.8									200			
				500128	102.8	104.0	1.2									1390			
69.8	73.3	Andesite Flow Breccia: Patchy green to light green fragments set in a maroon matrix. 1% calcite veinlets throughout interval.	uKKv	500129	109.0	110.0	1.0									4600			
				500130	110.0	111.0	1.0									625			
				500131	111.0	112.0	1.0									150			
				500132	112.0	113.0	1.0									1080			
73.3	83.8	Rhyodacite: 10% weakly chlorite altered feldspar phenocrysts set in a pink to maroon matrix. Locally the rock is vuggy. Well developed crackle breccia throughout. 82.9-83.2m: Calcite/quartz veining at 30° to c/a. 83.2-83.8m: Rhyodacite lapilli tuff.	uKKrd	500133	113.0	114.0	1.0									255			
				500134	114.0	115.0	1.0									660			
				500135	115.0	116.0	1.0									665			
				500136	116.0	117.0	1.0									325			
				500137	117.0	118.0	1.0									875			
				500138	118.0	119.0	1.0									240			
83.8	89.5	Andesite: Pale green feldspar phyric andesite.	uKKv	500139	119.0	120.0	1.0									185			
				500140	120.0	121.0	1.0									115			
89.5	102.0	Rhyodacite: As above.	uKKrd	500141	121.0	122.0	1.0									540			
				500142	122.0	123.0	1.0									300			
102.0	107.0	Andesite: Green, fine grained feldspar phyric andesite.	uKKv	500143	123.0	123.8	0.8									135			
107.0	111.3	Rhyodacite: Pink feldspar phyric rhyodacite. 109.5m: 1cm wide quartz/calcite vein 30° to c/a. 110.3m: 5cm wide quartz/calcite vein 30° to c/a.	uKKrd																
111.3	113.1	Crystal Lithic Tuff: Mottled grey-green with 1mm-4mm feldspar phenocrysts set in tuffaceous matrix with fragments.	uKKct																

DIAMOND DRILL RECORD

Hole No.: TR90-4 RE-LOG
Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
																Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
113.1	123.8	Rhyodacite: Pink feldspar phyric rock. 115.5m: 4cm wide calcite vein with minor quartz . 118.0m: flow banding 40° to c/a. 119.1m: 5cm wide calcite vein. 121.9m: 2cm wide calcite vein. 122.4m: quartz/calcite vein 45° to c/a.	uKKrd																
	123.8	End of Hole.																	

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384716E; 5946350N	**Length(m):**	107.0	**Hole No.:**	TR 90-5 RE-LOG
Azimuth:	150°	**Core Size:**	HQ	**Page:**	1 of 1
Dip:	-45°	**Dip Tests:**		**Property:**	Cutoff
Started:	July 23/90	**Elevation:**	885.0m	**Section:**	
Completed:	July 25/90	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
																Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	16.3	Casing to 6.1m coring bedrock started at 16.3m.	OB																
16.3	46.6	Polylithic Breccia: Angular to subrounded andesite, tuff and rhyodacite fragments set in a clay rich maroon to cream to rust coloured matrix.	uKKpbx	500144	25.0	26.0	1.0									565	2.7		
				500145	28.0	29.0	1.0									305	0.9		
				500146	31.0	32.0	1.0									230	0.8		
				500147	34.0	35.0	1.0									475	2.4		
				500148	37.0	38.0	1.0									255	1.0		
46.6	49.9	Fault Zone: Grey to light grey fault gouge with andesite, rhyodacite and tuff fragments.	FZ	500149	40.0	41.0	1.0									170	0.8		
				500150	43.0	44.0	1.0									255	0.8		
49.9	107.0	Polylithic Breccia: As above.	uKKpbx	500151	50.0	51.0	1.0									275	1.2		
		49.9-59.7m: Dominantly rhyodacite breccia, intensely silicified.		500152	53.0	54.0	1.0									65	0.8		
		59.7-62.5m: Subrounded andesite-rhyodacite fragments set in soft muddy matrix.		500153	56.0	57.0	1.0									25	0.5		
		62.5-64.3m: Rock is vuggy with intense silicification.		500154	63.0	64.0	1.0									15	0.5		
				500155	66.0	67.0	1.0									115	0.6		
				500156	69.0	70.0	1.0									55	0.6		
				500157	72.0	73.0	1.0									10	0.8		
		75.6-94.6m: Pink to purple rhyodacite fragments set in a maroon carbonate rich matrix.		500158	76.0	77.0	1.0									15	0.3		
				500159	80.0	81.0	1.0									20	0.2		
				500160	81.0	82.0	1.0									5	0.2		
				500161	83.0	84.0	1.0									25	0.5		
				500162	85.0	86.0	1.0									20	0.5		
				500163	88.0	89.0	1.0									5	0.4		
				500164	91.0	92.0	1.0									35	0.2		
		94.6-107.0m: Andesite and rhyodacite fragments set in a soft muddy maroon matrix.		500165	93.3	94.3	1.0									5	0.3		
	107.0	End of Hole.																	

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384879E; 5946366N	**Length(m):**	97.8	**Hole No.:**	TR 90-6 RE-LOG
Azimuth:	119°	**Core Size:**	HQ	**Page:**	1 of 2
Dip:	-46°	**Dip Tests:**		**Property:**	Cutoff
Started:	July 25/90	**Elevation:**	870.3m	**Section:**	
Completed:	July 27/90	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results			
										Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	34.0	Casing to 13.1m coring bedrock started at 34.0m.	OB										
34.0	59.3	Monolithic Breccia: Rhyodacite breccia. Intense silicification with quartz/ chalcedony veins and veinlets; intense brecciation below 41.9m. Trace to 1% disseminated pyrite throughout interval.	uKKmbx	500166	34.0	35.0	1.0			25	0.8		
				500167	35.0	36.0	1.0			30	0.7		
				500168	36.0	37.0	1.0			25	0.6		
				500169	37.0	38.0	1.0			20	0.5		
				500170	38.0	39.0	1.0			15	0.4		
				500171	39.0	40.0	1.0			20	0.3		
				500172	40.0	41.0	1.0			110	0.5		
				500173	41.0	42.0	1.0			220	0.6		
				500174	42.0	43.0	1.0			90	0.8		
				500175	43.0	44.0	1.0			180	0.9		
				500176	44.0	45.0	1.0			395	1.3		
				500177	45.0	46.0	1.0			235	1.1		
				500178	46.0	47.0	1.0			180	0.9		
				500179	47.0	48.0	1.0			185	0.9		
				500180	48.0	49.0	1.0			75	0.6		
				500181	49.0	50.0	1.0			190	0.7		
				500182	50.0	51.0	1.0			165	0.9		
				500183	51.0	52.0	1.0			250	1.0		
				500184	52.0	53.0	1.0			170	0.9		
				500185	53.0	54.0	1.0			90	1.0		
				500186	54.0	55.0	1.0			140	1.0		
				500187	55.0	56.0	1.0			535	0.9		
				500188	56.0	57.0	1.0			110	2.7		
				500189	57.0	58.0	1.0			305	2.2		
				500190	58.0	59.0	1.0			65	0.5		
59.3	63.0	Polylithic Breccia: Angular to subangular andesite and rhyodacite fragments set in ar intensely silicified argillically altered fine grained matrix. Quartz/ chalcedony veining and veinlets throughout interval and as vug fillings.	uKKpbx	500191	59.0	60.0	1.0			150	1.7		
				500192	60.0	61.0	1.0			75	1.4		
				500193	61.0	62.0	1.0			1000	2.0		
				500194	62.0	63.0	1.0			570	3.5		
63.0	71.8	Monolithic Breccia: As above. 65.6-65.7m: Druzy quartz lined vugs. 70.4-70.5m: Massive grey quartz.	uKKmbx	500195	63.0	64.0	1.0			90	3.0		
				500196	64.0	65.0	1.0			85	3.4		
				500197	65.0	66.0	1.0			1040	4.7		
				500198	66.0	67.0	1.0			95	1.2		
				500199	67.0	68.0	1.0			65	1.3		
				500200	68.0	69.0	1.0			90	2.5		
				500201	69.0	70.0	1.0			145	4.4		
				500202	70.0	71.0	1.0			95	1.9		
71.8	72.5	Sand: Fine grained brown sand with quartz fragments; fluvial sand?; unconsolidated.	Sand	500203	71.0	72.0	1.0			85	1.4		
72.5	97.8	Andesite Flow Breccia: Grey green to maroon fragments set in fine grained maroon chlorite rich matrix. 72.6-84.4: Veinlets and fragments of white quartz after calcite.	uKKv	500204	72.0	73.0	1.0			180	2.3		
				500205	73.0	74.0	1.0			190	2.1		
				500206	74.0	75.0	1.0			210	2.1		
				500207	75.0	76.0	1.0			80	1.6		
				500208	76.0	77.0	1.0			80	1.8		
				500209	77.0	78.0	1.0			170	1.9		
				500210	78.0	79.0	1.0			270	1.6		

DIAMOND DRILL RECORD

Hole No.: TR90-6 RE-LOG
Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
																Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
				500211	79.0	80.0	1.0									70	1.7		
				500212	80.0	81.0	1.0									55	1.6		
				500213	81.0	82.0	1.0									20	1.0		
				500214	82.0	83.0	1.0									20	1.1		
	97.8	End of Hole.		500215	83.0	84.0	1.0									20	1.0		

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384877E; 5946368N	**Length(m):**	102.1	**Hole No.:**	TR 90-7 RE-LOG
Azimuth:	119°	**Core Size:**	HQ	**Page:**	1 of 1
Dip:	-69°	**Dip Tests:**		**Property:**	Cutoff
Started:	July 27/90	**Elevation:**	870.3m	**Section:**	
Completed:	July 29/90	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
																Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	21.3	Casing to 21.3m coring bedrock started at 21.3m.	OB																
21.3	36.0	Monolithic Breccia: Rounded to subrounded rhyodacite fragments set in a soft grey to pink fine grained matrix. Matrix is pyritic. Matrix supported. 30.5-33.1m: Matrix is intensely silicified and vuggy, bladed quartz after calcite.	uKKmbx	500216	27.0	28.1	1.1									40	0.6		
				500217	30.0	31.0	1.0									35	0.5		
				500218	31.0	32.0	1.0									35	0.2		
				500219	32.0	33.0	1.0									5	0.2		
				500220	33.0	34.0	1.0									5	0.2		
				500221	34.0	35.0	1.0									10	0.2		
				500222	35.0	36.0	1.0									30	0.2		
36.0	36.9	Fault Zone: Bleached, argillized fault zone with disseminated pyrite lower contact 45° to c/a.	FZpy	500223	36.0	37.0	1.0									55	0.2		
				500224	37.0	38.0	1.0									185	0.7		
				500225	38.0	39.0	1.0									105	0.2		
36.9	70.6	Monolithic Breccia: As above but is fragment supported.	uKKmbx	500226	39.0	40.0	1.0									70	0.5		
				500227	40.0	41.0	1.0									35	0.4		
				500228	41.0	42.0	1.0									70	0.6		
				500229	42.0	43.0	1.0									50	0.6		
				500230	43.0	44.0	1.0									135	0.4		
				500231	44.0	45.0	1.0									45	0.6		
				500232	45.0	46.0	1.0									20	0.5		
				500233	46.0	47.0	1.0									35	0.6		
				500234	47.0	48.0	1.0									40	0.4		
				500235	48.0	49.0	1.0									25	0.3		
				500236	49.0	50.0	1.0									25	0.3		
				500237	50.0	51.0	1.0									40	0.5		
				500238	51.0	52.0	1.0									55	0.3		
				500239	52.0	53.0	1.0									70	0.3		
				500240	53.0	54.0	1.0									50	0.4		
				500241	54.0	55.0	1.0									100	0.2		
				500242	55.0	56.0	1.0									30	0.2		
				500243	56.0	57.0	1.0									35	0.2		
				500244	57.0	58.0	1.0									105	0.2		
				500245	58.0	59.0	1.0									20	0.2		
				500246	59.0	60.0	1.0									40	0.2		
				500247	60.0	61.0	1.0									25	0.2		
				500248	61.0	62.0	1.0									45	0.2		
				500249	62.0	63.0	1.0									60	0.2		
				500250	63.0	64.0	1.0									30	0.2		
				500251	64.0	65.0	1.0									50	0.2		
				500252	65.0	66.0	1.0									95	0.5		
		66.8-66.9m: Banded chalcedony/quartz veining cut by younger grey quartz veinlets.		500253	66.0	67.0	1.0									650	5.9		
				500254	67.0	68.0	1.0									380	2.4		
				500255	68.0	69.0	1.0									65	1.6		
70.6	102.1	Lapilli Tuff: Soft green to maroon angular fragments set in a fine to medium grained light green matrix. 70.6-72.6m: Brecciated chalcedony/quartz. 90.8m: Slickensides 55° to c/a.	uKKlt	500256	69.0	70.0	1.0									220	2.0		
				500257	70.0	70.6	0.6									90	2.8		
				500258	70.6	72.0	1.4									605	2.3		
				500259	72.0	73.0	1.0									290	2.2		
	102.1	End of Hole.																	

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384804E; 5946351N	**Length(m):**	39.6	**Hole No.:**	TR 90-8 RE-LOG
Azimuth:	150°	**Core Size:**	HQ	**Page:**	1 of 1
Dip:	-70°	**Dip Tests:**		**Property:**	Cutoff
Started:	July 29/90	**Elevation:**	872.0m	**Section:**	
Completed:	July 31/90	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
																Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	21.6	Casing to 18.3m coring bedrock started at 21.6m.	OB																
21.6	39.6	Monolithic Breccia: Grey-green iron stained and brecciated andesite.	uKKmbx																
	39.6	End of Hole.																	

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384605E; 5946531N	**Length(m):**	113.1	**Hole No.:**	TR 90-9 RE-LOG
Azimuth:	160°	**Core Size:**	HQ	**Page:**	1 of 1
Dip:	-45°	**Dip Tests:**		**Property:**	Cutoff
Started:	July 31/90	**Elevation:**	903.0m	**Section:**	
Completed:	August 2/90	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
																Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	19.5	Casing to 15.2m coring bedrock started at 19.5m.	OB																
19.5	107.0	Lapilli Tuff: Grey-green to maroon fragments usually less than 1cm in size set in a argillized light grey fine grained matrix.	uKKlt																
107.0	107.6	Sand: Fine grained brown sand possibly fluvial in origin.	Sand																
107.6	113.1	Andesite Flow Breccia: Angular to subrounded grey to green andesite fragments set in a grained matrix. Clast supported breccia.	uKKv																
	113.1	End of Hole.																	

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384675E; 5945961N	**Length(m):**	85.6	**Hole No.:**	TR 94-1 RE-LOG
Azimuth:	330°	**Core Size:**	NQ	**Page:**	1 of 2
Dip:	-45°	**Dip Tests:**	-45° @ 85.6m	**Property:**	Cutoff
Started:	August 9/94	**Elevation:**	849.0m	**Section:**	
Completed:	August 10/94	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	4.0	Casing to 4.0m coring bedrock started at 4.0m.	OB										
4.0	7.1	Monolithic Breccia: Subangular fragments of pale maroon fine grained andesite. Groundmass consists of hematite stained fine grained tuffaceous material. Interval is strongly silicified.	uKKmbx	1118	4.0	5.7	1.7			180	1.6		
				1119	5.7	6.7	1			850	5.2		
				1120	6.7	7.9	1.2			630	2.7		
				1121	7.9	8.8	0.9			1480	7.3		
7.1	7.9	Fault Zone: Greenish-grey clay gouge, 45° to c/a.	FZ	1122	8.8	9.8	1			650	2.0		
				1123	9.8	11.0	1.2			720	4.1		
7.9	46.3	Polylithic Breccia: Fragments comprised of grey, green, maroon and off white andesite, tuffaceous rock and sandstone. Locally intense silicification and banded chalcedony/quartz/adularia veins and veinlets throughout interval, also calcite veinlets.	uKKpbx	1124	28.0	28.7	0.7			1530	6.6		
				1125	28.7	30.2	1.5			1150	11.8		
				1126	30.2	31.1	0.9			1740	35.9		
				1127	31.1	32.6	1.5			3180	38.2		
				1128	32.6	33.6	1			770	8.9		
46.3	58.8	Lapilli Tuff: Pale brown to pale pink fine grained rock which is locally feldspar phyric. Angular to subrounded green fragments set in groundmass. Fragments are weakly chlorite altered. Locally groundmass has glass shards in it.	uKKlt	1129	33.6	34.7	1.1			790	2.4		
				1130	34.7	35.7	1			320	1.4		
				1131	35.7	37.2	1.5			820	7.6		
				1132	37.2	40.2	3			280	0.8		
58.8	62.3	Fault Zone: Pale green-grey to maroon fault gouge.	FZ	1133	40.2	41.8	1.6			1780	7.1		
				1134	41.8	43.5	1.7			680	0.9		
62.3	67.0	Andesite: 1mm to 3mm feldspar phenocrysts set in a fine grained maroon matrix. Trace disseminated pyrite in groundmass.	uKKv	1135	43.3	44.8	1.5			140	0.7		
				1136	44.8	46.3	1.5			180	0.7		
				1137	46.3	47.9	1.6			140	2.2		
67.0	70.4	Crystal Lithic Tuff: Weak to moderate chlorite altered lithic clasts and plagioclase phenocrysts set in a fine grained pale green to grey-green groundmass. Pervasive weak to moderate propylitic alteration throughout interval.	uKKct	1138	47.9	49.4	1.5			360	5.0		
				1139	49.4	50.9	1.5			170	2.7		
				1140	50.9	52.4	1.5			300	2.0		
				1141	52.4	53.9	1.5			140	2.0		
70.4	71.4	Andesite: As above.	uKKv	1142	53.9	55.5	1.6			120	1.5		
				1143	55.5	57.0	1.5			160	1.5		
71.4	74.6	Crystal Lithic Tuff: As above. 3% disseminated fine grained pyrite throughout interval.	uKKct	1144	57.0	58.5	1.5			95	0.8		
				1145	58.5	60.0	1.5			72	1.3		
				1146	60.0	61.6	1.6			150	6.4		
74.6	77.2	Polylithic Breccia: Matrix supported breccia of angular to rounded clasts of andesite, tuff, sandstone and pebble sandstone. Locally clasts have been hematized.	uKKpbx	1147	61.6	63.1	1.5			57	1.1		
				1148	63.1	64.6	1.5			25	0.5		
				1149	64.6	66.1	1.5			47	0.9		
				1150	66.1	67.7	1.6			65	1.3		
77.2	77.6	Monzonite Dyke: Biotite/feldspar porphyritic monzonite.	uKKmzdk	1151	67.7	69.2	1.5			140	1.2		
				1152	69.2	70.7	1.5			59	1.3		
77.6	79.3	Lapilli Tuff: Medium to coarse grained fragments of ash, chloritized fine grained andesite and feldspar phyric andesite set in a pale grey-green fine grained groundmass. Locally intense silicification throughout interval. Abundant calcite veining below 78.5m. 78.9m: 2cm wide quartz/calcite vein at 35° to c/a.	uKKlt	1153	70.7	72.2	1.5			43	1.2		
				1154	72.2	73.8	1.6			760	2.1		
				1155	73.8	75.3	1.5			640	2.1		
				1156	75.3	76.8	1.5			2690	25.9		
				1157	76.8	78.0	1.2			63	0.6		
				1158	78.0	79.5	1.5			160	1.5		
				1159	79.5	81.1	1.6			82	1.2		
79.3	81.7	Andesite: White to pale green plagioclase phenocrysts set in a fine grained maroon matrix.	uKKv	1160	81.1	82.6	1.5			32	0.9		
				1161	82.6	84.1	1.5			110	1.5		
				1162	84.1	85.6	1.5			3160	15.1		

DIAMOND DRILL RECORD

Hole No.: TR94-1 RE-LOG
Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration							Analytical Results			
																Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
81.7	84.6	Lapilli Tuff: As above.	uKKlt																
84.6	85.6	Polylithic Breccia: Angular fragments of maroon porphyritic andesite, andesite and crystal lithic tuff set in a calcite rich groundmass. Fragments are calcite healed. 84.6m: Strong silicification and grey banded quartz/adularia vein. 85.2-85.5m: strong silicification with chalcedony/quartz and bladed calcite veining veining 20° to c/a.	uKKpbx																
	85.6	End of Hole.																	

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384666E; 5945973N	**Length(m):**	59.4	**Hole No.:**	TR 94-2 RE-LOG
Azimuth:	150°	**Core Size:**	NQ	**Page:**	1 of 1
Dip:	-45°	**Dip Tests:**	-42.5° @ 59.4m	**Property:**	Cutoff
Started:	August 10/94	**Elevation:**	848.0m	**Section:**	
Completed:	August 11/94	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	12.8	Casing to 12.8m coring bedrock started at 12.8m.	OB										
12.8	22.8	Monolithic Breccia: Andesite fragments composed of weakly altered plagioclase phenocrysts set in a fine grained maroon matrix. Throughout interval are well developed quartz/chalcedony veins and veinlets.	uKKmbx	1163	12.8	18.3	5.5			270	1.6		
				1164	18.3	19.8	1.5			130	0.5		
				1165	19.8	20.6	0.8			130	1.0		
				1166	20.6	21.3	0.7			300	1.1		
22.8	34.0	Polylithic Breccia: Brecciated and re-brecciated volcaniclastics, andesite and agglomerate.	uKKpbx	1167	21.3	23.5	2.2			110	0.8		
				1168	23.5	24.2	0.7			86	8.8		
				1169	24.2	25.0	0.8			76	1.0		
				1170	25.0	25.9	0.9			70	1.2		
				1171	25.9	27.4	1.5			57	0.5		
				1172	27.4	28.3	0.9			55	1.0		
				1173	28.3	33.8	5.5			30	0.5		
34.0	46.4	Fault Zone: Grey, green, maroon, beige and mauve clay gouge. Fault zone represents the contact between the Kasalka Group and Canyon Creek Group.	FZ	1174	33.8	35.4	1.6			31	0.5		
				1175	35.4	36.9	1.5			68	2.2		
				1176	36.9	37.8	0.9			2020	23.1		
				1177	37.8	39.6	1.8			77	0.3		
46.4	53.3	Crystal Lithic Tuff: Well sorted andesite fragments ranging from 1mm to 5mm in size in a fine grained pale maroon to pale green groundmass.	mJCct	1178	39.6	46.4	6.8			4	0.1		
				1179	46.4	53.3	6.9			6	0.1		
53.3	59.4	Andesite: 2mm to 3mm plagioclase phenocrysts set in a pale green matrix. Trace disseminated pyrite throughout interval. Interval contains abundant shearing throughout.	mJCv	1180	53.3	59.4	6.1			5	0.2		
	59.4	End of Hole.											

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384666E; 5945973N	**Length(m):**	59.4	**Hole No.:**	TR 94-2 RE-LOG
Azimuth:	150°	**Core Size:**	NQ	**Page:**	1 of 1
Dip:	-45°	**Dip Tests:**	-42.5° @ 59.4m	**Property:**	Cutoff
Started:	August 10/94	**Elevation:**	848.0m	**Section:**	
Completed:	August 11/94	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results			
										Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	12.8	Casing to 12.8m coring bedrock started at 12.8m.	OB										
12.8	22.8	Monolithic Breccia: Andesite fragments composed of weakly altered plagioclase phenocrysts set in a fine grained maroon matrix. Throughout interval are well developed quartz/chalcedony veins and veinlets.	uKKmbx	1163	12.8	18.3	5.5			270	1.6		
				1164	18.3	19.8	1.5			130	0.5		
				1165	19.8	20.6	0.8			130	1.0		
				1166	20.6	21.3	0.7			300	1.1		
22.8	34.0	Polylithic Breccia: Brecciated and re-brecciated volcaniclastics, andesite and agglomerate.	uKKpbx	1167	21.3	23.5	2.2			110	0.8		
				1168	23.5	24.2	0.7			86	8.8		
				1169	24.2	25.0	0.8			76	1.0		
				1170	25.0	25.9	0.9			70	1.2		
				1171	25.9	27.4	1.5			57	0.5		
				1172	27.4	28.3	0.9			55	1.0		
				1173	28.3	33.8	5.5			30	0.5		
34.0	46.4	Fault Zone: Grey, green, maroon, beige and mauve clay gouge. Fault zone represents the contact between the Kasalka Group and Canyon Creek Group.	FZ	1174	33.8	35.4	1.6			31	0.5		
				1175	35.4	36.9	1.5			68	2.2		
				1176	36.9	37.8	0.9			2020	23.1		
				1177	37.8	39.6	1.8			77	0.3		
46.4	53.3	Crystal Lithic Tuff: Well sorted andesite fragments ranging from 1mm to 5mm in size in a fine grained pale maroon to pale green groundmass.	mJCct	1178	39.6	46.4	6.8			4	0.1		
				1179	46.4	53.3	6.9			6	0.1		
53.3	59.4	Andesite: 2mm to 3mm plagioclase phenocrysts set in a pale green matrix. Trace disseminated pyrite throughout interval. Interval contains abundant shearing throughout.	mJCv	1180	53.3	59.4	6.1			5	0.2		
	59.4	End of Hole.											

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384639E; 5945945N	Length(m):	59.7	Hole No.:	TR 94-3 RE-LOG
Azimuth:	150°	Core Size:	NQ	Page:	1 of 1
Dip:	-45°	Dip Tests:	-45° @ 59.7m	Property:	Cutoff
Started:	August 12/94	Elevation:	850.0m	Section:	
Completed:	August 13/94	Date Logged:		Claim No:	
Purpose:				Logged By:	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	6.7	Casing to 6.7m coring bedrock started at 6.7m.	OB										
6.7	17.5	Monolithic Breccia: Andesite fragments with 2% to 3%, 1mm to 2mm plagioclase phenocrysts set in a fine grained maroon matrix. Some of the phenocrysts are rimmed with hematite. Groundmass consists clay rich maroon material, matrix supported.	uKKmbx	1181	6.7	7.9	1.2			71	0.2		
				1182	7.9	11.0	3.1			22	0.3		
				1183	11.0	12.8	1.8			11	0.2		
				1184	12.8	14.0	1.2			17	0.2		
				1185	14.0	15.5	1.5			25	0.5		
17.5	25.0	Fault Zone: Maroon to clay fault gouge. Trace disseminated pyrite.	FZpy	1186	15.5	17.4	1.9			21	0.1		
				1187	17.4	25.0	7.6			5	0.1		
25.0	32.2	Polymictic Conglomerate: Clasts range in size from 2mm to 20mm and vary in composition from andesite to pyroclastic material. Clasts are set in a fine grained maroon matrix. 1% to 2% disseminated fine grained pyrite throughout interval. Clasts are round to subround. Conglomerate is poorly sorted.	uKKpcgl	1188	25.0	31.1	6.1			5	0.2		
				1189	31.1	32.0	0.9			6	0.7		
				1190	32.0	34.1	2.1			39	0.9		
				1191	34.1	35.7	1.6			77	1.6		
				1192	35.7	36.8	1.1			92	1.5		
32.2	34.2	Lapilli Tuff: Pale brown to buff fine grained matrix with up to 10% to 15% tuffaceous, and feldspar phyric andesite clasts. Pervasive clay alteration throughout interval.	uKKlt	1193	36.8	38.4	1.6			230	1.7		
				1194	38.4	39.6	1.2			120	1.4		
				1195	39.6	40.2	0.6			210	3.6		
34.2	55.4	Polylithic Breccia: Pyroclastic, volcaniclastic and andesite fragments set in a clay altered calcite/quartz cemented groundmass. 36.6-55.4m: Strong, pervasive silicification throughout with local quartz/ chalcedony/adularia veining and void infillings. Calcite veining and stockworks is common. 1% 2% disseminated fine grained pyrite throughout both fragments and matrix. Locally strong fine to micro quartz/adularia stockworks. 46.2m: 7cm wide banded silica vein, brecciated and rehealed with white quartz. Locally throughout interval are 1 to 3m wide zones of "solution breccia" imparting a conglomerate look to rock. "Conglomerate" is vuggy with the vugs infilled with banded quartz/chalcedony/adularia as at 51.1-54.3m; 34.2-36.6m; 43.2-43.4m and 44.6-45.1m.	uKKpbx	1196	40.2	41.8	1.6			560	5.2		
				1197	41.8	43.0	1.2			410	4.4		
				1198	43.0	44.0	1.0			1630	8.6		
				1199	44.0	44.9	0.9			3970	82.2		
				1600	44.9	46.1	1.2			1650	32.8		
				1601	46.1	47.0	0.9			570	4.5		
				1602	47.0	48.1	1.1			98	1.1		
				1603	48.1	48.8	0.7			240	1.9		
				1604	48.8	50.0	1.2			130	1.6		
				1605	50.0	51.2	1.2			200	1.5		
				1606	51.2	51.8	0.6			750	3.8		
				1607	51.8	53.0	1.2			150	2.0		
55.4	55.8	Fault Zone: Intensely sheared, clay rich fault gouge, 40° to c/a.	FZ	1608	53.0	54.3	1.3			500	3.1		
55.8	57.0	Andesite: Coarse plagioclase phenocrysts set in a fine grained matrix.	mJCv	1609	54.3	55.2	0.9			580	17.6		
				1610	55.2	55.8	0.6			5240	13.3		
57.0	57.8	Crystal Lithic Tuff: Feldspar phenocrysts and minor lithic fragments set in a medium grained maroon groundmass.	mJCct	1611	55.8	56.7	0.9			15	0.2		
				1612	56.7	57.3	0.6			6	0.1		
				1613	57.3	58.7	1.4			7	0.1		
57.8	58.7	Andesite: As above but more chlorite alteration throughout.	mJCv	1614	58.7	59.7	1.0			7	0.1		
58.7	59.7	Crystal Lithic Tuff: As above.	mJCct										
	59.7	End of Hole.											

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384639E; 5945942N	Length(m):	150.0	Hole No.:	TR 94-4 RE-LOG
Azimuth:	230°	Core Size:	NQ	Page:	1 of 3
Dip:	-65°	Dip Tests:	-60° @ 68.6m, 104.2m and 148.4m	Property:	Cutoff
Started:	August 13/94	Elevation:	850.0m	Section:	
Completed:	August 15/94	Date Logged:		Claim No:	
Purpose:				Logged By:	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	12.2	Casing to 39.6m coring bedrock started at 12.2m.	OB										
12.2	32.9	Polylithic Breccia: Angular to rounded andesite and tuffaceous rocks in a fine grained matrix. Fragments vary from grey to grey to maroon. Trace to 4% disseminated pyrite throughout interval. Pyrite also rims fragments and locally replaces fragments. Locally moderate to strong silicification and quartz/chalcedony veining. Locally abundant calcite veinlets. Rock is commonly vuggy. Local sections of solution breccia imparting "conglomerate" look to rock.	uKKpbx	1615	12.2	13.4	1.2			2	3.4		
				1616	13.4	14.0	0.6			170	6.2		
				1617	14.0	14.9	0.9			550	1.8		
				1618	14.9	15.5	0.6			120	1.4		
				1619	15.5	16.5	1.0			68	0.6		
				1620	16.5	17.4	0.9			51	1.2		
				1621	17.4	18.3	0.9			47	0.5		
				1622	18.3	18.9	0.6			200	1.2		
				1623	18.9	20.2	1.3			490	2.1		
				1624	20.2	21.0	0.8			63	1.6		
				1625	21.0	22.3	1.3			180	1.7		
				1626	22.3	22.9	0.6			200	2.2		
				1627	22.9	23.8	0.9			140	1.1		
				1628	23.8	24.7	0.9			130	1.6		
				1629	24.7	26.2	1.5			380	3.3		
				1630	26.2	26.8	0.6			1040	3.5		
				1631	26.8	28.0	1.2			1760	6.4		
				1632	28.0	29.6	1.6			810	4.6		
				1633	29.6	31.1	1.5			2920	32.4		
32.9	35.6	Lapilli Tuff: 3mm to 1cm lithic fragments and minor feldspar phenocrysts set in a maroon fine grained matrix. Locally interval is brecciated which have been healed with white calcite and minor quartz.	uKKlt	1634	31.1	32.1	1.0			1900	23.3		
				1635	32.2	33.0	0.8			110	1.5		
				1636	33.0	34.1	1.2			31	0.9		
35.6	42.1	Fault Zone: Mostly ground up rock fragments and clay gouge.	FZ	1637	34.1	36.0	1.9			56	1.5		
				1638	36.0	36.9	0.9			45	1.3		
				1639	36.9	38.4	1.5			82	1.8		
				1640	39.6	40.5	0.9			200	1.4		
				1641	40.5	42.1	1.6			110	0.5		
42.1	46.9	Welded Crystal Lithic Tuff: Well developed orientated fabric to lithic fragments and preferred orientation to feldspar phenocrysts. Green to pale brown fine grained matrix. 1% to 2% disseminated fine grained pyrite throughout interval.	uKKct	1642	42.1	43.3	1.2			120	1.6		
				1643	43.3	44.5	1.2			120	2.1		
				1644	44.5	45.1	0.6			190	1.7		
46.9	49.6	Lapilli Tuff: Fragments are up to 4cm in size and are locally deformed. Matrix is pale brown and tuffaceous. Trace disseminated pyrite throughout interva..	uKKlt	1645	45.1	46.3	1.2			51	1.1		
				1646	46.3	47.9	1.6			22	0.8		
				1647	47.9	49.7	1.8			53	1.4		
49.6	59.6	Monolithic Breccia: Feldspar phyric and esite fragments set in a maroon fine grained matrix. Fragments range from 3mm to 2.5cm in size. Weak to locally intense calcification of matrix and fragments. Trace disseminated pyrite throughout interval.	uKKmbx	1648	46.7	50.9	4.3			190	4.2		
				1649	50.9	52.4	1.5			340	1.6		
				1650	52.4	53.3	0.9			330	1.6		
				1651	53.3	54.9	1.6			100	1.2		
				1652	54.9	55.5	0.6			120	2		
				1653	55.5	57.0	1.5			150	1.7		
				1654	57.0	58.5	1.5			470	11.1		
59.6	64.3	Polylithic Breccia: Subrounded to subangular fragments of lapilli tuff, andesite, crystal lithic tuff and minor but large fragments of monzonite set in a fine grained maroon matrix. Green pyritic and propylitized fragments may be locally derived from Canyon Creek Group. Quartz/chalcedony veins and stockwork throughout interval.	uKKpbx	1655	58.5	60.0	1.5			61	1.4		
				1656	60.0	60.7	0.7			510	3.3		
				1657	60.7	61.6	0.9			470	5.2		
				1658	61.6	62.8	1.2			3590	23.6		
				1659	62.8	64.0	1.2			310	3.3		

DIAMOND DRILL RECORD

Hole No.: TR94-4 RE-LOG
Page: 2 of 3

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
54.3	69.9	Crystal Lithic Tuff: Pyroclastic fragments set in a fine grained green groundmass. <1% disseminated pyrite throughout interval. Local silicification and fine veinlets and veins of grey quartz throughout interval.	uKKct	1660	64.0	64.6	0.6			1780	18.5		
				1661	64.6	65.8	1.2			1530	18.1		
				1662	65.8	66.7	0.9			290	2.1		
				1663	66.7	67.7	1.0			260	3.3		
				1664	67.7	69.2	1.5			280	3.2		
				1665	69.2	69.9	0.7			260	4.5		
69.9	87.4	Monolithic Breccia: Brecciated, pale green fine grained propylitized tuff. Interval contains abundant banded chalcedony/quartz/adularia veins and stockwork.	uKKmbx	1666	69.9	70.4	0.5			1970	50.9		
				1667	70.4	71.4	1.0			3920	160.7		
				1668	71.4	71.9	0.5			2390	94.2		
				1669	71.9	73.8	1.9			490	18.3		
				1670	73.8	75.2	1.4			230	1.3		
				1671	75.2	76.1	0.9			570	12.2		
				1672	76.1	77.3	1.2			210	3.2		
				1673	77.3	78.3	1.0			140	2.3		
				1674	78.3	79.7	1.4			190	2.0		
				1675	79.7	81.3	1.6			210	1.0		
				1676	81.3	82.3	1.0			170	0.8		
				1677	82.3	83.5	1.2			29	0.5		
				1678	83.5	85.0	1.5			190	0.6		
87.4	88.1	Tuff: Brown fine grained tuff. Rock is brecciated and intensely silicified; trace disseminated pyrite throughout.	uKKt	1679	85.0	86.6	1.6			130	0.5		
				1680	86.6	87.5	0.9			54	0.3		
88.1	95.7	Polymictic Conglomerate: Rounded pebble to cobble size clasts mixed with angular breccia fragments and brecciated chalcedony vein fragments. Maroon feldspar phyric andesite and tuffaceous clasts make up the conglomerate set in a pale to dark green, maroon to grey fine grained matrix. The conglomerate is brecciated and healed with calcite. Disseminated pyrite content varies throughout the interval and ranges from <1% to 2%. Throughout interval are chalcedony/quartz+/-adularia veins and veinlets and where the rock is vuggy or fractured voids are infilled with banded silica. Calcite veinlets and moderate to strong stockworks is also common throughout interval.	uKKpcgl	1681	87.5	88.1	0.6			530	24.5		
				1682	88.1	89.0	0.9			140	2.6		
				1683	89.0	89.9	0.9			180	0.4		
				1684	89.9	90.8	0.9			250	7.0		
				1685	90.8	91.7	0.9			1770	36.8		
				1686	91.7	92.8	1.1			130	1.7		
				1687	92.8	93.6	0.8			120	1.5		
				1688	93.6	95.1	1.5			52	2.2		
				1689	95.1	95.8	0.7			840	3.4		
95.7	105.2	Monolithic Breccia: Porphyritic andesite fragments set in a maroon fine grained matrix. Interval is moderately to strongly silicified, silica veining which is cut by microveinlets of calcite.	uKKmbx	1690	95.8	97.2	1.4			24	0.5		
				1691	97.2	98.8	1.6			17	0.4		
				1692	98.8	100.0	1.2			29	0.4		
				1693	100.0	101.2	1.2			42	0.6		
				1694	101.2	102.7	1.5			66	0.6		
				1695	102.7	104.2	1.5			80	1.0		
				1696	104.2	105.2	1.0			62	1.2		
105.2	118.6	Fault Zone: Sheared material and gouge texture is gritty with clay rich groundmass. 2% to 3% disseminated pyrite throughout and brecciated quartz chalcedony vein material. Locally the material is calcite healed. Shear fabric 30° to c/a.	FZpy	1697	105.2	107.3	2.1			79	1.1		
				1698	107.3	109.0	1.7			170	1.4		
				1699	109.0	110.3	1.3			1050	2.7		
				1700	110.3	110.7	0.4			910	2.2		
				1701	110.7	111.2	0.5			250	3.6		
				1702	111.2	111.9	0.7			1820	2.4		
				1703	111.9	113.4	1.5			210	1.7		
				1704	113.4	114.7	1.3			57	1.2		
				1705	114.9	116.4	1.5			35	1.8		
				1706	116.4	118.0	1.6			34	0.4		
118.6	140.8	Polylithic Breccia: Chaotic sequence of angular to subrounded fragments of fine grained tuff, lapilli tuff, pebble conglomerate, andesite flow breccia and agglomerate. Matrix consists of a fine grained red, maroon green, grey and locally white matrix. Trace to 2% disseminated pyrite throughout interval. Interval is variably silicified and moderate to strongly calcite veined.	uKKpbx	1707	118.0	119.5	1.5			230	0.4		
				1708	119.5	121.0	1.5			45	0.2		
				1709	121.0	122.5	1.5			380	0.8		
				1710	122.5	124.1	1.6			130	1.9		
				1711	124.1	125.3	1.2			33	1.4		
				1712	125.3	126.8	1.5			28	0.3		
				1713	126.8	128.3	1.5			16	0.4		

DIAMOND DRILL RECORD

Hole No.: TR94-4 RE-LOG

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From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results			
										Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
				1714	128.3	129.8	1.5	21		21	1.0		
				1715	129.8	131.7	1.9	16		16	0.6		
				1716	131.7	133.2	1.5	24		24	1.0		
				1717	133.2	134.7	1.5	23		23	1.4		
				1718	134.7	136.2	1.5	21		21	1.1		
				1719	136.2	137.8	1.6	7		7	0.3		
				1720	137.8	139.3	1.5	3		3	0.1		
				1721	139.3	140.8	1.5	4		4	0.1		
140.8	142.8	Fault Zone: Sheared maroon clay rich gouge. Shear fabric 25° to c/a.	FZ	1722	140.8	142.7	1.9	3		3	0.3		
142.8	150.0	Andesite: Crowded propylitic altered plagioclase phenocrysts set in a fine grained green to light green matrix. Weak calcite veining throughout interval.	mJCv	1723	142.7	150.0	7.3	2		2	0.1		
	150.0	End of Hole.											

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384618E; 5945903N	Length(m):	89.0	Hole No.:	TR 94-5 RE-LOG
Azimuth:	150°	Core Size:	NQ	Page:	1 of 1
Dip:	-65°	Dip Tests:	-61.5° @ 87.5m	Property:	Cutoff
Started:	August 15/94	Elevation:	849.5m	Section:	
Completed:	August 17/94	Date Logged:		Claim No:	
Purpose:				Logged By:	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	21.3	Casing to 21.3m coring bedrock started at 21.3m	OB										
21.3	65.0	Polylithic Breccia: Subrounded to angular fragments of lapilli tuff, andesite, crystal lithic tuff and minor but large fragments of monzonite set in a fine grained maroon matrix. Green pyritic and propylitized fragments may be locally derived from Canyon Creek Group. Calcite veinlets throughout interval. Locally are zones of maroon clay rich fault gouge ranging from 30° to 40° to c/a.	uKKpbx	1724	21.3	28.0	6.7			3	0.1		
				1725	28.0	34.1	6.1			4	0.2		
				1726	34.1	40.2	6.1			42	0.2		
				1727	40.2	46.3	6.1			3	0.1		
				1728	46.3	53.6	7.3			1	0.1		
				1729	53.6	58.5	4.9			1	0.1		
				1730	58.5	66.5	8.0			2	0.2		
65.0	67.4	Fault Zone: Pale green-white, green clay rich shears, 20° to c/a.	FZ	1731	66.5	67.4	0.9			23	0.2		
67.4	74.0	Andesite: 1mm to 8mm crowded plagioclase phenocrysts set in a fine grained maroon matrix. Rock has fresh appearance. Last metre of interval is brecciated and sheared.	mJCv	1732	67.4	73.6	6.2			3	0.3		
				1733	73.6	74.7	1.1			2	0.1		
				1734	74.7	79.9	5.2			3	0.2		
				1735	79.9	84.4	4.5			2	0.1		
74.0	84.0	Crystal Lithic Tuff: Fine to medium grained propylitized ash and crystals set in a fine grained green matrix. Interval is well sorted suggesting that it has been reworked. Trace disseminated pyrite throughout interval with minor calcite veinlets.	mJCct	1736	84.4	89.0	4.6			1	0.3		
84.0	86.3	Lapilli Tuff: Propylitic altered lapilli fragments to 40mm set in a fine grained green matrix. Trace disseminated pyrite throughout interval.	mJClt										
86.3	87.5	Andesite: Feldspar phyric fine grained andesite which is proylitized and argillically altered.	mJCv										
87.5	89.0	Crystal Lithic Tuff: As above. Trace disseminated pyrite throughout interval. Shearing ranges from 40° to 60° to c/a.	mJCct										
	89.0	End of Hole.											

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384654E; 5946009N	**Length(m):**	145.7	**Hole No.:**	TR 94-6 RE-LOG
Azimuth:	150°	**Core Size:**	NQ	**Page:**	1 of 2
Dip:	-65°	**Dip Tests:**	-61° @ 145.7m	**Property:**	Cutoff
Started:	August 17/94	**Elevation:**	852.0m	**Section:**	
Completed:	August 19/94	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results			
										Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	21.3	Casing to 21.3m coring bedrock started at 21.3m.	OB										
21.3	30.9	Monolithic Breccia: Angular to subangular feldspar phyric andesite fragments set in a maroon fine grained matrix. Trace disseminated pyrite throughout interval.	uKKmbx	1737	21.4	22.6	1.2			12	0.3		
				1738	22.6	24.1	1.5			100	0.2		
				1739	24.1	25.0	0.9			240	0.7		
				1740	25.0	26.5	1.5			64	0.7		
				1741	26.5	28.0	1.5			34	0.2		
				1742	28.0	29.6	1.6			41	0.1		
30.9	39.4	Fault Zone: Pale green to green to maroon clay rich gouge. Shear fabric is 40° to c/a.	FZ	1743	29.6	31.1	1.5			6	0.1		
				1744	31.1	32.6	1.5			7	0.1		
				1745	32.6	34.1	1.5			15	0.1		
				1746	34.1	35.7	1.6			6	0.1		
				1747	35.7	37.2	1.5			7	0.1		
				1748	37.2	38.7	1.5			37	0.4		
				1749	38.7	39.5	0.8			36	0.9		
39.4	110.7	Monolithic Breccia: As above. Throughout interval are irregular zones of moderate to strong silicification and calcite veins and veinlets. Locally are well developed quartz/calcite veins and veinlets. Calcite has healed fractures throughout interval. Trace disseminated pyrite throughout interval with local zones of up to 2%.	uKKmbx	1750	39.5	40.2	0.7			75	1.2		
				1751	40.2	41.8	1.6			110	0.7		
				1752	41.8	43.6	1.8			98	0.9		
				1753	43.6	45.1	1.5			48	0.4		
				1754	45.1	46.6	1.5			100	0.6		
				1755	46.6	48.2	1.6			380	0.7		
				1756	48.2	49.4	1.2			240	0.8		
				1757	49.4	51.0	1.6			130	0.7		
				1758	51.0	51.8	0.8			260	0.8		
				1759	51.8	53.3	1.5			140	0.7		
				1760	53.3	54.9	1.6			95	0.8		
				1761	54.9	56.4	1.5			220	1.4		
				1762	56.4	57.3	0.9			38	1.3		
				1763	57.3	58.8	1.5			57	5.7		
				1764	58.8	60.7	1.9			74	0.7		
				1765	60.7	62.2	1.5			11	0.5		
				1766	62.2	63.7	1.5			19	0.7		
				1767	63.7	64.6	0.9			33	0.8		
				1768	64.6	66.1	1.5			21	0.7		
				1769	66.1	68.0	1.9			51	0.9		
				1770	68.0	70.1	2.1			96	0.7		
				1771	70.1	71.9	1.8			62	0.8		
				1772	71.9	73.8	1.9			91	1.2		
				1773	73.8	75.0	1.2			21	1.2		
				1774	75.0	75.9	0.9			720	1.5		
				1775	75.9	76.8	0.9			25	0.8		
				1776	76.8	78.3	1.5			71	0.6		
				1777	78.3	79.9	1.6			39	0.5		
				1778	79.9	81.4	1.5			210	1.1		
				1779	81.4	82.9	1.5			210	0.8		
				1780	82.9	84.1	1.2			290	1.5		
				1781	84.1	85.0	0.9			40	1.1		

DIAMOND DRILL RECORD

Hole No.: TR94-6 RE-LOG
Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
				1782	85.0	86.0	1.0			43	1.6		
				1783	86.0	87.5	1.5			220	1.3		
				1784	87.5	89.0	1.5			91	2.3		
				1785	89.0	90.5	1.5			330	4.1		
				1786	90.5	92.0	1.5			88	0.7		
				1787	92.0	93.3	1.3			270	1.6		
				1788	93.3	94.8	1.5			170	2.6		
				1789	94.8	95.3	0.5			210	5.5		
				1790	95.3	97.8	2.5			250	1.5		
				1791	97.8	99.4	1.6			160	1.0		
				1792	99.4	101.2	1.8			270	2.7		
				1793	101.2	102.7	1.5			170	1.2		
				1794	102.7	104.2	1.5			31	0.8		
				1795	104.2	105.8	1.6			57	1.0		
				1796	105.8	107.3	1.5			52	1.4		
				1797	107.3	108.8	1.5			77	1.0		
				1798	108.8	110.3	1.5			19	0.6		
107	123.6	Crystal Lithic Tuff: 2mm to 4mm crystals and lithic ash fragments set in a pale to medium brown fine grained groundmass. Locally the interval is brecciated. Trace to <1% disseminated fine grained pyrite throughout.	uKKct	1799	110.3	111.9	1.6			22	0.4		
				1800	111.9	113.4	1.5			7	0.5		
				1801	113.4	114.9	1.5			34	1.4		
				1802	114.9	116.1	1.2			120	1.3		
				1803	116.1	117.3	1.2			200	1.2		
				1804	117.3	118.9	1.6			240	1.5		
				1805	118.9	120.4	1.5			750	2.6		
				1806	120.4	121.9	1.5			360	2.1		
				1807	121.9	123.1	1.2			140	1.3		
123.6	130.7	Polylithic Breccia: Highly brecciated lapilli tuff, fine grained tuff and feldspar phyric andesite fragments set in a calcite healed light green to green fine grained matrix. Locally throughout interval is weakly to moderately strong quartz/chalcedony veining and stockworks. Trace disseminated fine grained pyrite throughout interval. Moderate pervasive silicification throughout interval.	uKKpbx	1808	123.1	124.7	1.6			40	1.4		
				1809	124.7	126.3	1.6			100	0.6		
				1810	126.3	127.7	1.4			33	0.5		
				1811	127.7	128.7	1.0			59	1.0		
				1812	128.7	129.2	0.5			120	1.2		
				1813	129.2	130.8	1.6			360	1.7		
130.7	135.2	Lapilli Tuff: Angular to subrounded polylithic fragments set in a fine to locally coarse green tuffaceous matrix. Weak but pervasive silicification throughout interval and trace to 1% disseminated fine to medium grained pyrite. Local minor silica veining.	uKKlt	1814	130.8	132.3	1.5			180	2.3		
				1815	132.3	132.8	0.5			130	1.4		
				1816	132.8	133.2	0.4			56	0.7		
				1817	133.2	133.7	0.5			210	5.9		
				1818	133.7	134.2	0.5			130	1.0		
				1819	134.2	134.5	0.3			230	1.2		
				1820	134.5	134.9	0.4			9540	72.1		
				1821	134.9	135.4	0.5			450	3.6		
				1822	135.4	135.9	0.5			870	4.8		
135.2	145.7	Polylithic Breccia: As above. Intensely brecciated rock with local clay alteration and narrow zones of intense silicification and chlorite\quartz veining.	uKKpbx	1823	135.9	136.9	1.0			220	0.8		
				1824	136.9	137.8	0.9			540	4.0		
				1825	137.8	139.3	1.5			1420	6.7		
				1826	139.3	140.5	1.2			55	0.8		
				1827	140.5	142.0	1.5			48	0.8		
				1828	142.0	143.5	1.5			220	0.9		
				1829	143.5	144.3	0.8			61	2.5		
	145.7	End of Hole.		1830	144.3	145.7	1.4			96	1.3		

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384176E; 5946050N	**Length(m):**	134.7	**Hole No.:**	TR 94-7 RE-LOG
Azimuth:	330°	**Core Size:**	NQ	**Page:**	1 of 1
Dip:	-60°	**Dip Tests:**		**Property:**	Cutoff
Started:	August 29/94	**Elevation:**	860.0m	**Section:**	
Completed:	September 1/94	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results			
										Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	83.5	Casing to 83.5m coring bedrock started at 83.5m.	OB										
				1984	49.7	51.2	1.5			1	0.1		
83.5	129.6	Andesite and Andesite Flow Breccia: Intercalated flows and flow breccia. Andesite contains off white to pale green plagioclase phenocrysts set in a pale grey-green fine grained matrix. Interval is propylitic altered throughout. Trace to locally 1% disseminated pyrite throughout. At 102.8m flow banding 40°-50° to c/a. Minor white quartz veining throughout with weak to moderate calcite stockworks.	uKKv	1985	83.5	89.0	5.5			1	0.1		
				1986	89.0	95.1	6.1			1	0.1		
				1987	95.1	101.2	6.1			1	0.1		
				1988	101.2	107.3	6.1			1	0.1		
				1989	107.3	113.4	6.1			1	0.1		
				1990	113.4	119.5	6.1			1	0.1		
129.6	130.2	Lahar: 10% to 15% tuffaceous clasts/fragments set in a black very fine grained matrix. Matrix supported. Disseminated pyrite and pyrite aggregates up to 1%.	uKKl	1991	119.5	125.6	6.1			1	0.1		
				1992	125.6	131.7	6.1			1	0.1		
				1993	131.7	134.7	3.0			1	0.1		
130.2	131.7	Fault Zone: Grey to black clay gouge 40° to 60° to c/a.	FZ										
131.7	134.7	Andesite and Andesite Flow Breccia: As above. Poorly developed flow banding at 40° to c/a.	uKKv										
	134.7	End of Hole.											

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384669E; 5945939N	**Length(m):**	142.3	**Hole No.:**	TR 94-8 RE-LOG
Azimuth:	330°	**Core Size:**	NQ	**Page:**	1 of 2
Dip:	-60°	**Dip Tests:**		**Property:**	Cutoff
Started:	August 20/94	**Elevation:**	849.5m	**Section:**	
Completed:	August 22/94	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results			
										Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	15.3	Casing to 15.2m coring bedrock started at 15.3m.	OB										
15.3	22.9	Monolithic Breccia: Feldspar and hornblende phyric andesite. Interval is pervasively calcified. Trace disseminated pyrite throughout interval.	uKKmbx	1831	15.2	17.4	2.2			180	1.3		
				1832	17.4	18.9	1.5			420	2.1		
				1833	18.9	20.4	1.5			1070	2.6		
				1834	20.4	21.9	1.5			210	0.8		
				1835	21.9	22.9	1.0			98	0.7		
22.9	51.3	Polylithic Breccia: Angular to subrounded fragments of andesite, lapilli and crystal lithic tuff, sandstone and conglomerate. Matrix is milled rock and quartz/calcite. Locally throughout interval is banded silica veins and stockwork. Pyrite content varies from <1% to 3% throughout.	uKKpbx	1836	22.9	23.5	0.6			950	3.2		
				1837	23.5	24.9	1.4			45	0.2		
				1838	24.9	26.2	1.3			970	3.7		
				1839	26.2	28.0	1.8			1530	6.5		
				1840	28.0	29.6	1.6			670	3.0		
				1841	29.6	31.1	1.5			500	3.2		
				1842	31.1	32.6	1.5			2120	8.6		
				1843	32.6	33.3	0.7			5360	70.7		
				1844	33.3	34.1	0.8			2780	48.4		
				1845	34.1	35.7	1.6			1470	23.2		
				1846	35.7	37.2	1.5			980	10.8		
				1847	37.2	38.7	1.5			1090	5.5		
				1848	38.7	40.2	1.5			400	2.1		
				1849	40.2	41.8	1.6			1210	6.0		
				1850	41.8	43.3	1.5			510	2.3		
				1851	43.3	45.2	1.9			970	14.9		
				1852	45.2	46.4	1.2			110	2.3		
				1853	46.4	47.4	1.0			47	0.8		
				1854	47.4	48.8	1.4			77	2.2		
				1855	48.8	49.4	0.6			100	1.7		
				1856	49.4	50.9	1.5			94	1.3		
51.3	57.9	Welded Crystal Lithic Tuff: Epidote rich green crystal and lithic fragments set in a fine grained maroon matrix. Grey-green clay enveloping lithic fragments. Interval is locally silicified with brecciated quartz/chalcedony vein material. Trace to <1% disseminated pyrite throughout.	uKKct	1857	50.9	52.4	1.5			4280	30.5		
				1858	52.4	53.9	1.5			60	0.7		
				1859	53.9	55.5	1.6			590	3.8		
				1860	55.5	56.2	0.7			1310	4.1		
				1861	56.2	57.2	1.0			5260	30.2		
				1862	57.2	57.9	0.7			150	1.2		
57.9	93.3	Polylithic Breccia: Angular to subangular fragments of siltstone, sandstone, conglomerate and crystal lithic tuff set in a calcareous/silceous groundmass. Strong calcite and moderate silica veining throughout interval.	uKKpbx	1863	57.9	58.7	0.8			18500	144.2		
				1864	58.7	59.7	1.0			20600	135.1		
				1865	59.7	61.3	1.6			1060	6.8		
				1866	61.3	62.1	0.8			850	9.2		
				1867	62.1	62.5	0.4			570	5.4		
				1868	62.5	63.7	1.2			1590	11.8		
				1869	63.7	64.6	0.9			870	12.5		
				1870	64.6	66.8	2.2			1830	48.9		
				1871	66.8	67.7	0.9			360	6.1		
				1872	67.7	68.9	1.2			6730	221.1		
				1873	68.9	69.9	1.0			120	5.2		
				1874	69.9	70.4	0.5			1680	18.2		
				1875	70.4	71.6	1.2			2310	24.5		

DIAMOND DRILL RECORD

Hole No.: TR94-8 RE-LOG

Page: 2 of 2

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results			
										Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
				1876	71.6	73.5	1.9			600	18.4		
				1877	73.5	74.7	1.2			160	12.6		
				1878	74.7	76.2	1.5			270	10.6		
				1879	76.2	77.7	1.5			240	11.1		
				1880	77.7	78.9	1.2			280	10.4		
				1881	78.9	79.9	1.0			430	3.9		
				1882	79.9	81.4	1.5			480	4.8		
				1883	81.4	82.9	1.5			930	8.6		
				1884	82.9	84.1	1.2			130	9.0		
				1885	84.1	85.6	1.5			2930	20.2		
				1886	85.6	87.6	2.0			1120	8.2		
				1887	87.6	88.7	1.1			70	1.8		
				1888	88.7	90.2	1.5			30	1.6		
				1889	90.2	91.7	1.5			20	1.3		
				1890	91.7	93.3	1.6			32	1.3		
93.3	94.0	Fault Zone: Pale green to maroon clay gouge. Fault contact is at 20° to c/a.	FZ	1891	93.3	94.8	1.5			5	0.3		
94.0	142.3	Crystal Lithic Tuff: Fine grained crowded matrix of crystals with lithic ash fragments. 10cm to 30cm wide layers of fine grained ash beds. Weak to locally strong argillic alteration throughout interval. Locally strong silicification throughout.	mJCct	1892	94.8	96.3	1.5			2	0.1		
				1893	96.3	101.2	4.9			14	0.3		
				1894	101.2	105.8	4.6			5	0.1		
				1895	105.8	112.0	6.2			1	0.1		
				1896	112.0	116.4	4.4			2	0.2		
				1897	116.4	122.5	6.1			2	0.1		
				1898	122.5	130.1	7.6			2	0.1		
				1899	130.1	136.2	6.1			1	0.3		
	142.3	End of Hole.		1900	136.2	142.3	6.1			5	0.2		

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384640E; 5845943N	**Length(m):**	67.1	**Hole No.:**	TR 94-9 RE-LOG
Azimuth:	150°	**Core Size:**	NQ	**Page:**	1 of 1
Dip:	-65°	**Dip Tests:**		**Property:**	Cutoff
Started:	August 22/94	**Elevation:**	850.0m	**Section:**	
Completed:	August 23/94	**Date Logged:**		**Claim No:**	
Purpose:				**Logged By:**	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	7.0	Casing to 6.1m coring bedrock started at 7.0m.	OB										
7.0	14.2	Monolithic Breccia: Rounded to angular feldspar phyric fragments set in a pale grey-green clay rich matrix. <1% disseminated pyrite in both matrix and fragments.	uKKmbx	1901	7.0	9.1	2.1			22	0.4		
				1902	9.1	9.8	0.7			15	0.4		
				1903	9.8	11.3	1.5			18	0.3		
				1904	11.3	12.8	1.5			12	0.2		
				1905	12.8	14.3	1.5			40	0.4		
14.2	22.6	Fault Zone: Green to maroon to red clay rich fault gouge. Shearing at 30° to 40° to c/a.	FZ	1906	14.3	15.8	1.5			33	0.1		
				1907	15.8	17.2	1.4			6	0.1		
				1908	17.2	18.9	1.7			19	0.2		
				1909	18.9	20.4	1.5			2	0.1		
				1910	20.4	21.9	1.5			7	0.2		
22.6	29.3	Andesite: Feldspar phyric andesite. Groundmass varies from maroon to pale to dark green in colour. Chlorite rich bands contain up to 2% disseminated fine grained pyrite.	uKKv	1911	21.9	23.5	1.6			9	0.3		
				1912	23.5	24.7	1.2			4	0.4		
				1913	24.7	26.2	1.5			4	0.3		
				1914	26.2	27.7	1.5			9	0.5		
				1915	27.7	29.3	1.6			24	1.2		
				1916	29.3	30.8	1.5			12	0.3		
29.3	53.6	Polylithic Breccia: Angular to rounded fragments of variable lithologies set in a green aphanitic matrix. Breccia is matrix supported. Strong but intermittent propylitic alteration is overprinted by locally intense hematite alteration. Strong calcite overprint throughout interval. 41.6-53.6m: Moderate to intense silicification and quartz/chalcedony veining.	uKKpbx	1917	30.8	32.3	1.5			5	0.2		
				1918	32.3	33.8	1.5			20	0.8		
				1919	33.8	35.4	1.6			11	1.0		
				1920	35.4	36.9	1.5			18	1.1		
				1921	36.9	38.4	1.5			64	1.8		
				1922	38.4	39.9	1.5			42	1.5		
				1923	39.9	41.5	1.6			120	1.4		
				1924	41.5	42.7	1.2			220	1.9		
				1925	42.7	44.8	2.1			58	1.9		
				1926	44.8	46.3	1.5			170	2.3		
				1927	46.3	47.2	0.9			1520	10.3		
				1928	47.2	48.5	1.3			1670	12.2		
				1929	48.5	49.4	0.9			690	4.8		
				1930	49.4	50.6	1.2			320	3.0		
53.6	55.2	Fault Zone: Maroon clay rich gouge with milled feldspar phyric andesite fragments. Upper contact 60° to c/a.	FZ	1931	50.6	51.5	0.9			460	2.6		
				1932	51.5	52.6	1.1			420	3.9		
55.2	57.8	Andesite: Crowded feldspar and hornblende phyric andesite. Matrix is green to maroon in colour and is fine grained.	mJCv	1934	52.6	53.3	0.7			440	3.3		
				1935	53.3	53.8	0.5			410	3.0		
57.8	60.2	Crystal Lithic Tuff: Plagioclase crystals and small 1mm to 3mm lithic fragments set in a maroon calcareous matrix. Rock is locally sheared.	mJCct	1936	53.8	54.9	1.1			11	0.2		
				1937	54.9	55.5	0.6			4	0.1		
60.2	67.1	Andesite: Local weak feldspar phenocrysts set in a pale green aphanitic matrix. Trace to <1% disseminated pyrite throughout interval.	mJCv	1938	55.5	57.0	1.5			2	0.1		
				1939	57.0	62.0	5.0			1	0.1		
	67.1	End of hole.		1940	62.0	67.1	5.1			1	0.2		

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384507E; 5945970N	Length(m):	41.5	Hole No.:	TR 94-10 RE-LOG
Azimuth:	150°	Core Size:	NQ	Page:	1 of 1
Dip:	-60°	Dip Tests:		Property:	Cutoff
Started:	August 24/94	Elevation:	855.5m	Section:	
Completed:	August 26/94	Date Logged:		Claim No:	
Purpose:				Logged By:	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results			
										Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	18.3	Casing to 18.3m coring bedrock started at 18.3m	OB										
				1941	15.8	16.4	0.6			3	0.2		
18.3	23.2	Basalt: Dark green to black fine grained basalt with olivine and magnetite phenocrysts. Minor calcite veinlets throughout and trace irregular hematite alteration. Basalt is highly magnetic.	Eb	1942	18.8	23.2	4.4			1	0.3		
				1943	23.2	29.6	6.4			1	0.1		
				1944	29.6	38.1	8.5			1	0.1		
				1945	38.1	41.5	3.4			1	0.1		
23.2	41.5	Fault Zone: Massive green to maroon clay rich fault gouge. Shearing 20° to 40° to c/a. Possibly close to polylithic breccia/conglomerate horizon (several fragments of this material at bottom of hole).	FZ										
	41.5	End of Hole. Hole abandoned due to caving.											

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384483E; 5945962N	Length(m):	154.5	Hole No.:	TR 94-11 RE-LOG
Azimuth:	150°	Core Size:	NQ	Page:	1 of 1
Dip:	-60°	Dip Tests:		Property:	Cutoff
Started:	August 26/94	Elevation:	856.5m	Section:	
Completed:	August 28/94	Date Logged:		Claim No:	
Purpose:				Logged By:	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results			
										Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	18.3	Casing to 18.3m coring bedrock started at 18.3m.	OB										
18.3	45.5	Polylithic Breccia: Angular to rounded fragments are olivine basalt, feldspar phyric andesite, lapilli and crystal lithic tuffs set in a fine grained maroon mud to sand sized matrix. Interval is strongly hematite altered especially the matrix material. Breccia varies from matrix supported to clast supported. Shearing 50° to c/a.	uKKpbx	1946	18.3	25.0	6.7			2	0.2		
				1947	25.0	31.1	6.1			1	0.1		
				1948	31.1	40.5	9.4			1	0.2		
				1949	40.5	47.9	7.4			1	0.2		
45.5	51.3	Basalt: Black, fine grained amygdaloidal basalt, magnetic.	Eb	1950	47.9	53.9	6.0			1	0.3		
51.3	75.3	Monolithic Breccia: Fine grained, black amygdaloidal basalt with abundant calcite veinlets throughout interval.	Ebmbx	1951	53.9	60.0	6.1			1	0.2		
				1952	60.0	67.7	7.7			1	0.2		
				1953	67.7	75.3	7.6			1	0.1		
				1954	75.3	81.4	6.1			1	0.3		
				1955	81.4	87.5	6.1			4	0.1		
				1956	87.5	93.6	6.1			2	0.1		
				1957	93.6	98.1	4.5			1	0.1		
				1958	98.1	107.3	9.2			2	0.2		
				1959	107.3	113.4	6.1			1	0.1		
				1960	113.4	120.7	7.3			2	0.2		
75.3	153.3	Fault Zone: Maroon clay rich plastic gouge with hematized ground rock. Shearing 200 to 30° to c/a.	FZ	1961	120.7	127.1	6.4			7	0.1		
				1962	127.1	128.0	0.9			1	0.1		
				1963	128.0	134.7	6.7			4	0.1		
				1964	134.7	136.5	1.8			6	0.1		
153.3	154.5	Andesite: Minor feldspar phenocrysts set in a fine grained pale green matrix. Interval is pervasively propylitically altered with local chlorite veins throughout. 1% to 2% disseminated pyrite throughout interval.	mJCv	1965	136.5	142.3	5.8			2	0.1		
				1966	142.3	150.0	7.7			2	0.1		
				1967	150.0	153.2	3.2			1	0.1		
	154.5	End of Hole.		1968	153.2	154.5	1.3			1	0.1		

DIAMOND DRILL RECORD

Location:	UTM COORD'S 384396E; 5946024N	Length(m):	120.1	Hole No.:	TR 94-12 RE-LOG
Azimuth:	350°	Core Size:	NQ	Page:	1 of 1
Dip:	-60°	Dip Tests:		Property:	Cutoff
Started:	August 28/94	Elevation:	852.0m	Section:	
Completed:	August 30/94	Date Logged:		Claim No:	
Purpose:				Logged By:	C. Payne

From (m)	To (m)	Description	Rock	Sample No.	From (m)	To (m)	Length (m)	Comments	Alteration	Analytical Results Au(ppb)	Ag(ppm)	As(ppm)	Sb(ppm)
0.0	36.6	Casing to 36.6m coring bedrock started at 36.6m.	OB										
36.6	41.5	Fault Zone: maroon, red to pale green plastic clay rich fault gouge. Shearing 20° to c/a.	FZ	1969	36.6	43.3	6.7			1	0.1		
				1970	43.3	47.9	4.6			2	0.2		
				1971	47.9	52.4	4.5			3	0.2		
41.5	112.4	Andesite: Massive fine grained weakly porphyritic andesite. Locally weakly brecciated. Strong pervasive hematite alteration overprint.	uKKv	1972	52.4	58.5	6.1			1	0.2		
				1973	58.5	64.6	6.1			2	0.2		
				1974	64.6	70.7	6.1			2	0.2		
				1975	70.7	76.8	6.1			1	0.1		
				1976	76.8	82.9	6.1			1	0.1		
				1977	82.9	89.0	6.1			1	0.1		
				1978	89.0	94.8	5.8			1	0.1		
				1979	94.8	100.9	6.1			1	0.1		
				1980	100.9	106.8	5.9			1	0.1		
112.4	120.1	Fault Zone: Maroon to red clay rich fault gouge. Shearing is at 25° to c/a.	FZ	1981	106.8	111.9	5.1			1	0.1		
				1982	111.9	117.3	5.4			1	0.1		
	120.1	End of Hole.		1983	117.3	120.1	2.8			2	0.3		

LEGEND

EOCENE AND OLIGOCENE

Endako Group

- EEb — Basalt, dark grey to black, vesicular, locally feldspar or olivine phyric, columar jointing common
- EEt — Basalt, red,orange, grey, scoriaceous, locally vesicular chalcedony filled amygdules, bombs
- EEs — Siltstone, white, cream, light green, plant and shell fragments
- Ed — Diorite, dark grey, medium to coarse grained, hornblende, feldspar phenocrysts, magnetic
- Efel — Felsite, pink fine to medium grained feldspar phyric rhyodacite

Oatsa Lake Group

- EOv — Rhyolite flows, flow breccia, ash tuff, scoria, pumice locally quartz+/-feldspar phyric flows, sandstone, siltstone

upper CRETACEOUS

- uKm — Monzonite, pink to light green, medium grained, feldspar-hornblende phenocrysts throughout

Kasalka Group (Cutoff Volcanics)

- uKv — Andesite, mottled light green to maroon, locally flows are feldspar +/- hornblende phyric, locally magnetic, ash tuff, crystal tuff, lapilli tuff
- uKs — Conglomerate (pebble to cobble, matrix supported), sandstone pebble sandstone, locally with plant fragments

middle or upper JURASSIC

Hazelton Group (Canyon Creek Assemblage)

- uJv — Rhyolite, rhyo-dacite fine to medium grained, feldspar +/- quartz phyric, massive to brecciated, ash tuff flows, lapilli tuff, andesite

Geological contacts are in part based on previous work by Cogema, 1993.

SYMBOLS

- Geological contact
- Fault
- Outcrop
- Flow banding (inclined, vertical)
- Shearing (vertical)
- Float
- TR2 — Hand trench and number
- ● Diamond drill hole (Cogema 1994)

CLAIM BOUNDARY

TROUT LINEAMENT

TROUT ZONE

Silica flooded andesite breccia

Maroon vesicular basalt

White to blue silica flooded rhyolite

Feld porphyry breccia with qtz-chalcedony veins

Chlorite alt andesite trace diss py

TRAPPER LAKE

LITTLE QUARTZ LAKE AREA

Angular qtz phyric rhyolite float

Angular qtz phyric rhyolite float

Sheared clay alt rhyolite

Rhyolite breccia with silica and chalcedany infilling fractures

Abundant rhyolite float

Qtz + feld phyric rhyolite

Rhyolite breccia

Rhyolite float

Abundant rhyolite breccia infilled with qtz-chalcedony

qtz-chalcedony boulders

Sheared andesite with calcite filled fractures

STUBB BAY ZONE

Sil crystal ash tuff

Med grained feld porphyry

Argillically alt qtz phyric rhyolite

Sil flooded breccia

Sil flooded siltstone breccia 5% diss py

Silica flooded breccia trace diss py

Sheared sil flooded siltstone breccia, calcite-limonite cement

Angular ash tuff float

STUBB BAY

Abundant rhyolite float

Red scoria

Vesicular basalt

Clay alt siltstone

Clay alt lapilli tuff

Red scoria

Abundant qtz/chalcedony float

Silica float

Rhyolite breccia float

Mottled grey-tan silica flooded breccia

Blue-grey chalcedony float

Chlorite alt andesite weak silicification

Lapilli tuff

Feldspar phyric andesite breccia

Vuggy qtz-chalcedony breccia trace to 1% diss py

Fractured feldspar porphyry

Feldspar phyric andesite breccia calcite matrix

Ash tuff breccia matrix supported

Lapilli tuff breccia quartz veinlets

Moderate propyllitic alt. in ash tuff

Weak clay alt in ash tuff 5% diss py

Weak prop. alteration weakly magnetic

Silicified andesite Sheared

Shear zone with trace py weak silicification

APEX BAY

Lake, Creek

Main road, secondary road/trail

UTM coordinates

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,833

0 500 1000 1500 2000

SCALE IN METRES

To Accompany 1995 Project Report on the Cutoff Gold Prospect, March 1, 1996.

PHELPS DODGE CORP. OF CANADA LIMITED

PROJECT NO.: 248 (CUTOFF PROPERTY) OMINECA MINING DIVISION

PROPERTY GEOLOGY

SCALE	DATE	BY	NTS NO.	FIGURE
1:20000	Oct/96	CWP	93 F/10	4

FOX GEOLOGICAL SERVICES INC.

STUBB GRID ROCK SAMPLES

SAMPLE NUMBER	GOLD (ppb)	SILVER (ppb)
60469	84.0	3740
60470	1.0	0
60471	0.0	0
60472	0.0	0
60473	0.0	344
60474	0.0	130
60475	31.0	260
60476	64.0	352
60477	0.0	0
60478	256.0	630
60479	47.0	630
60480	19.0	40
60481	81.0	136
60482	13.0	1982
60483	4.0	558
60484	4700.0	4089
60485	22.0	39
60486	253.0	395
60487	45.0	381
60488	3360.0	1852
60489	489.0	835
60490	20.0	93
60491	8.0	345
60492	5.0	146
61684	3.0	0
61685	187.0	2216
61686	7.0	587
61687	6.0	49
61757	12.0	0
61758	11.0	442
61759	1.0	0

CLAIM BOUNDARY

TROUT GEOPHYSICAL GRID

TROUT PROSPECT
Detailed Geology, Figure 5

1996 SOIL GRID LINES

LITTLE QUARTZ LAKE GEOPHYSICAL GRID

1996 Rock samples:
- Float
- Bedrock

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,833

0 500 1000 1500 2000
SCALE IN METRES

Lake, Creek

Main road, secondary road/trail

UTM coordinates

PHELPS DODGE CORP. OF CANADA LIMITED

PROJECT NO.: 248 (CUTOFF PROPERTY) OMINECA MINING DIVISION

1996 GRID & ROCK SAMPLE LOCATIONS

SCALE	DATE	BY	NTS NO.	FIGURE
1:20000	Oct.1996	CWP	93 F/10	5

FOX GEOLOGICAL SERVICES INC.

0 100 metres

Polylithic andesite porphyry breccia to cobble and pebble conglomerate, quartz stringers and coatings on clasts.

Local weak bleaching and thin silica coatings on breccia fragments.

Local quartz stringers and coatings on clasts.

Local qtz-filled crackle breccia

Strong crackle breccia, banded vuggy chalcedonic quartz

Rhyolite and rhyolite breccia, flow banded fragments, local chlorite alteration and seams.

Silica coatings and veinlets

Chlorite veinlets

Vuggy banded quartz stringers and open space fillings.

x Silica x impregnations

Chlorite veinlets, minor pyrite

Banded chalcedonic quartz veins

Minor quartz veinlets

Silica flooded

Polylithic sandstone ± pebble, siltstone & mudstone, locally silica cemented; chalcedonic quartz veins.

1985 Core

1990 and 1994 Core

uKK,bx

uKK,Tr

uKK,v

mJCc

uKKll

61600 (280, 2159)
61688 (348, 1533)
61689 (342, 2492)
61691 (12, 2233)
61692 (14, 1974)
61693 (9900, 32973)
61694 (15880, 64170)
61695 (106, 1984)
61696 (122, 1766)
61697 (544, 1134)
61698 (1455, 7017)
61699 (70, 874)
61760 (185, 2147)
61762 (205, 676)
61763 (26, 91)
61764 (14420, 66435)
61765 (464, 11318)
61766 (341, 1894)
61767 (651, 4591)
61768 (903, 10496)
61769 (738, 5024)
61770 (246, 3288)
61771 (581, 8625)
61772 (837, 2257)
61773 (1111, 7451)
61774 (41, 1359)
61790 (633, 2220)

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

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- Diamond drill hole
- Reverse circulation drill hole
- Road and drill pad
- Rock sample, bedrock {Sample number / Au(ppb), Ag(ppb)}
- " subcrop
- " float
- Swampy ground
- Fault (circle indicates downthrow side)
- Geological boundary
- Quartz vein in outcrop

UPPER CRETACEOUS

KASALKA GROUP, CUTOFF VOLCANICS:

- uKK,Tr — Rhyodacite: pink to orange, fine grained, moderately to sparsely feldspar porphyritic, locally highly brecciated, local areas of intense fine grained silica-cemented breccia.
- uKK,bx — Pyroclastic and volcaniclastic rocks: red, purple to maroan, includes poorly sorted tuffs and pyroclastic breccia, matrix supported and clast supported conglomerate and well sorted andesitic sandstone.
- uKKll — Andesitic lapilli tuff: red, purple and maroon.
- uKKv — Andesite flows, flow breccia: red, purple and maroon, crowded to subcrowded feldspar +/- hornblende porphyry, commonly friable.

MIDDLE JURASSIC

HAZELTON GROUP, CANYON CREEK VOLCANICS:

- mJCc — Felsitic ash tuff, lapilli tuff, breccia: white, creamy to beige, fine grained, aphyric, includes minor feldspar and quartz phyric volcanics, locally flow-banded, and felsic-clast volcanic sandstone with widespread chlorite development

after T. Richards, 1993

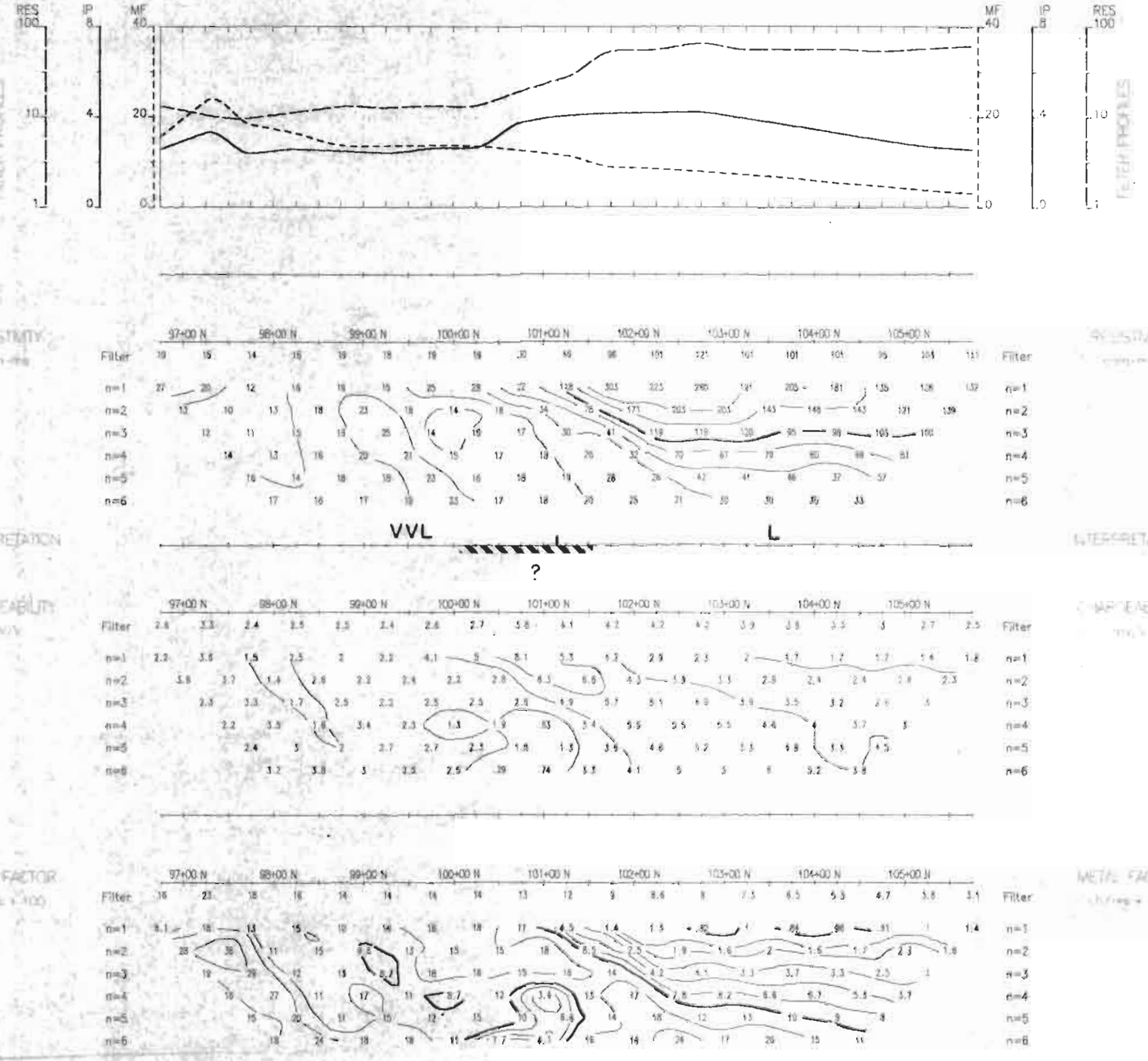
PHELPS DODGE CORP. OF CANADA LTD.

PROJECT Nº 248 OMINECA M.D.

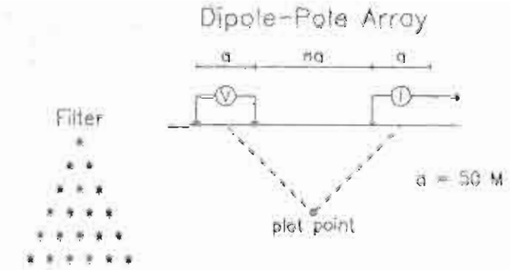
CUTOFF PROPERTY

TROUT PROSPECT GEOLOGY & ROCK SAMPLES

SCALE	DATE	FILE	NTS	DWG Nº
1:1000	Oct. 1996	248-GEO BY: dlp CID	93F/10	6



Line 9400 E



Instrument: Androtex 7.5 kw. Tx., BRGM IP6 Rx.
Frequency: 0.125 Hz.
Operators: D.H., A.W., G.M.

Logarithmic Contours: 1, 1.5, 2, 3, 5, 7.5, 10...

Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

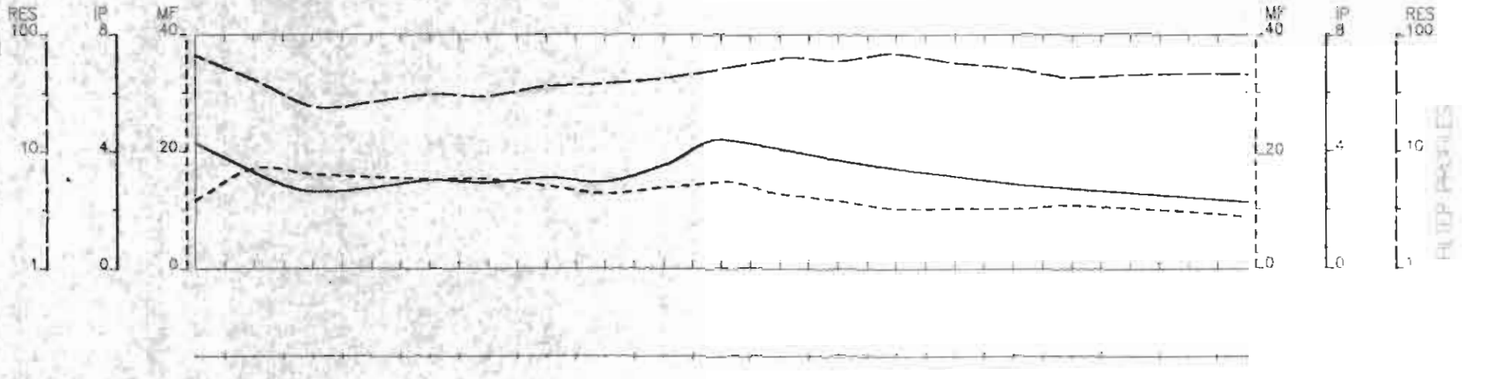
DWG. No. W-2100-D8-248 **Figure 9a**

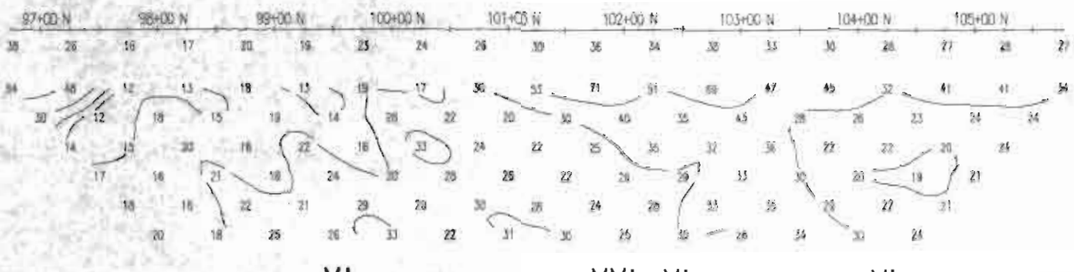
PHELPS DODGE CORP. OF CANADA

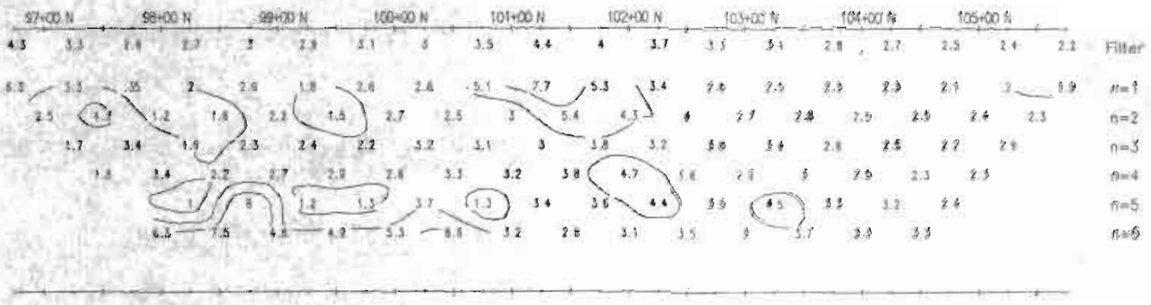
INDUCED POLARIZATION SURVEY
TROUT GRID, OMINECA MINING DIVISION
VANDERHOOF AREA, BRITISH COLUMBIA

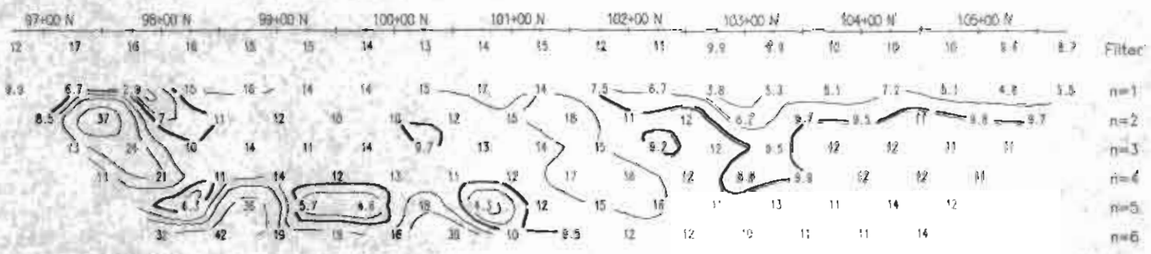
Date: AUG 1996
Interpretation:

PETER E. WALCOTT & ASSOC. LTD.



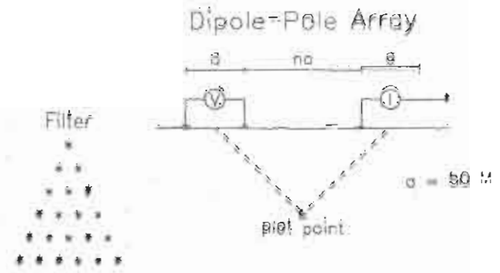






Line 9600 E

Dipole-Pole Array



Instrument: Androtex 7.5 kW. Tx., BRGM IP6 Rx.
Frequency: 0.125 Hz.
Operators: D.H., A.W., G.M.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10...

INTERPRETATION

Well delived, strong polarizer in polarization with or without marked resistive or inactivity

Fairly well defined moderate to strong in polarization

Fairly well defined weak increase in polarization

Possible feature

Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

DWG. No. W-2101-D8-248 **Figure 9b**

PHELPS DODGE CORP. OF CANADA

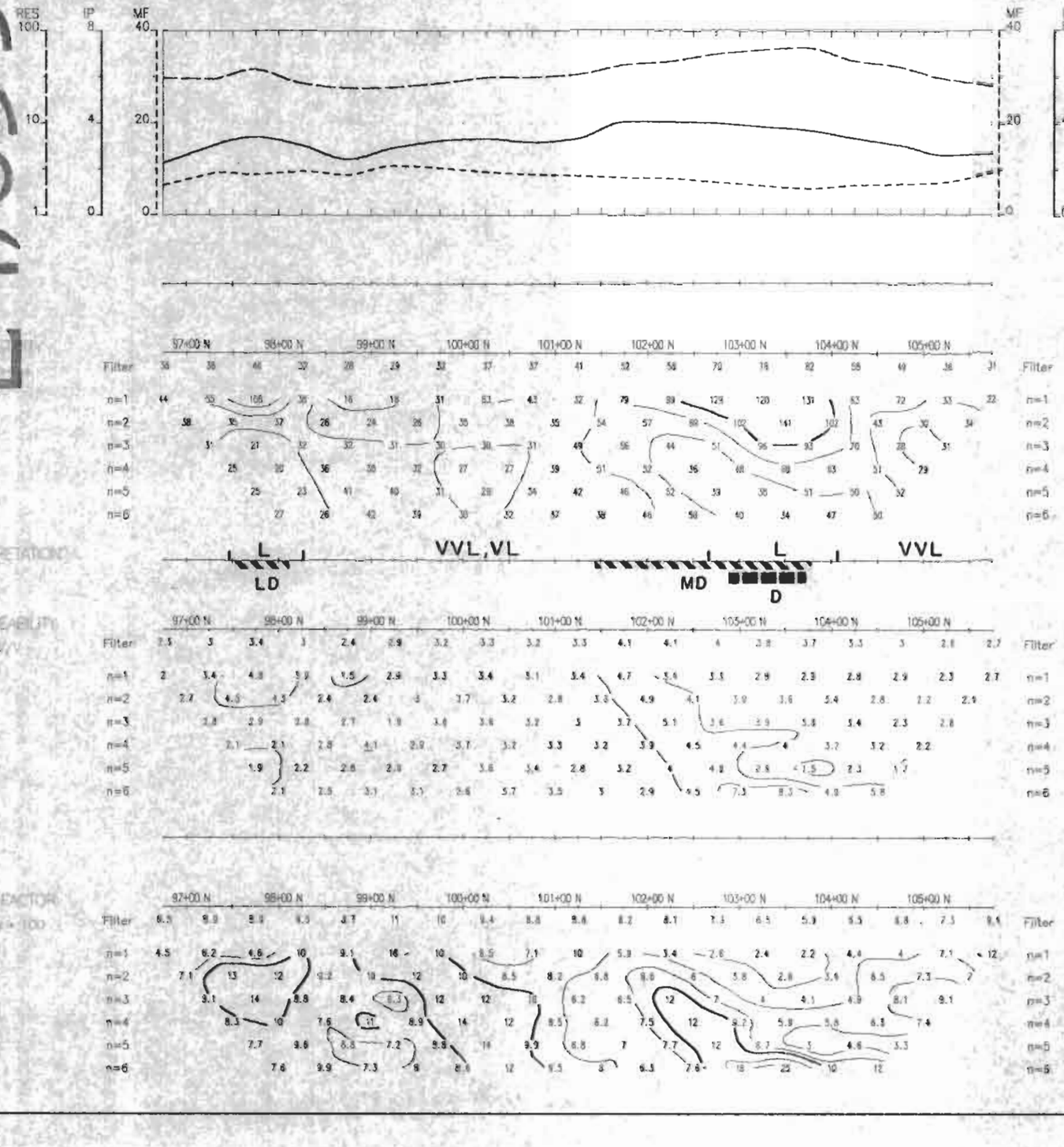
INDUCED POLARIZATION SURVEY
TROUT GRID, OMINECA MINING DIVISION
VANDERHOOF AREA, BRITISH COLUMBIA

Date: AUG 1996
Interpretation:

PETER E. WALCOTT & ASSOC. LTD.

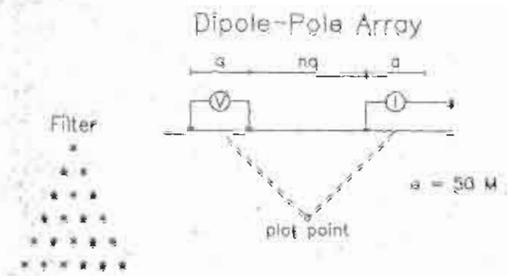
GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,833



Line 9800 E

Dipole-Pole Array



Instrument: Andratex 7.5 kw. Tx., BRGM IP8 Rx.
Frequency: 0.125 Hz.
Operators: D.H., A.W., G.M.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

Well joined, strong contrast + polarization with or without marked decrease in resistivity.

Curve was gained from minimum decrease in resistivity.

Curve was gained weak increase in polarization.

Possibly fracture.

Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

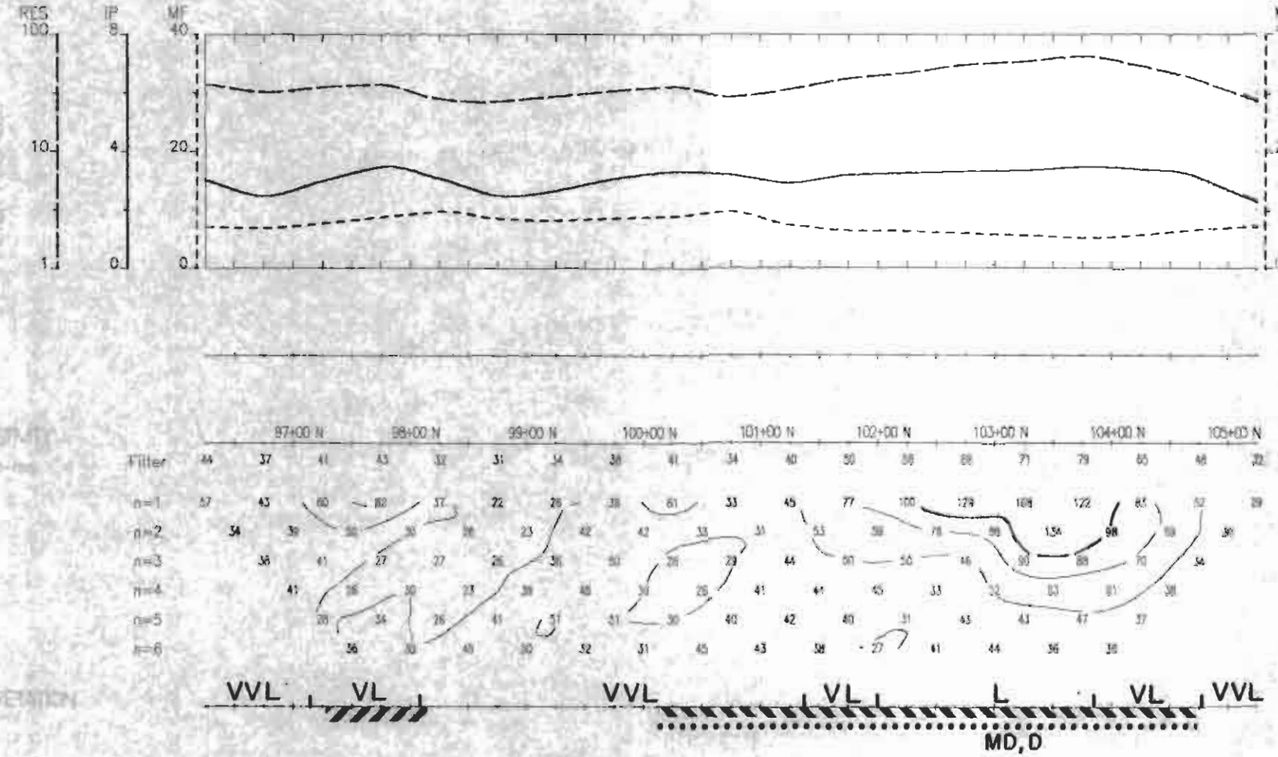
DWG. No. W-2102-D8-248 Figure 96

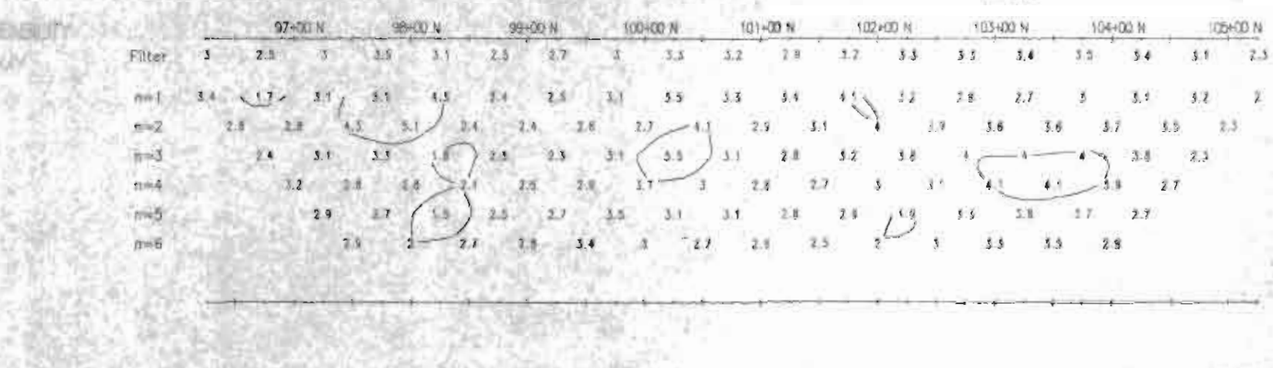
PHELPS DODGE CORP. OF CANADA

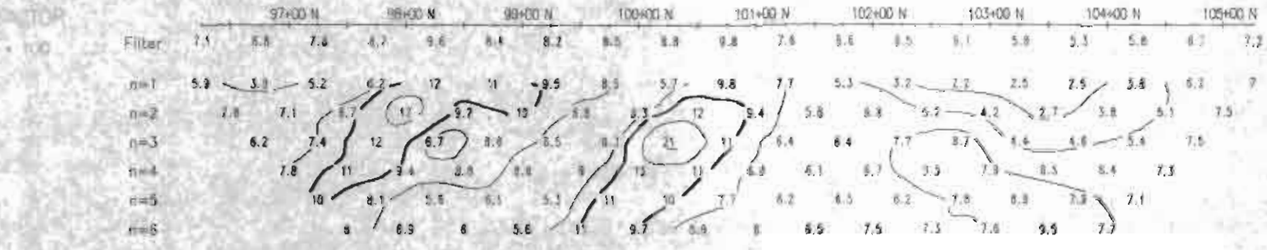
INDUCED POLARIZATION SURVEY
TROUT GRID, OMINECA MINING DIVISION
VANDERHOOF AREA, BRITISH COLUMBIA

Date: AUG 1996
Interpretation:

PETER E. WALCOTT & ASSOC. LTD.

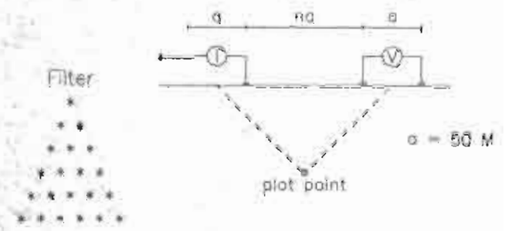






Line 9801 E

Pole-Dipole Array



Instrument: Androtex 7.5 kw. Tx., BRGM IP6 Rx.
Frequency: 0.125 Hz.
Operators: D.H., A.W., G.M.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, . .

Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

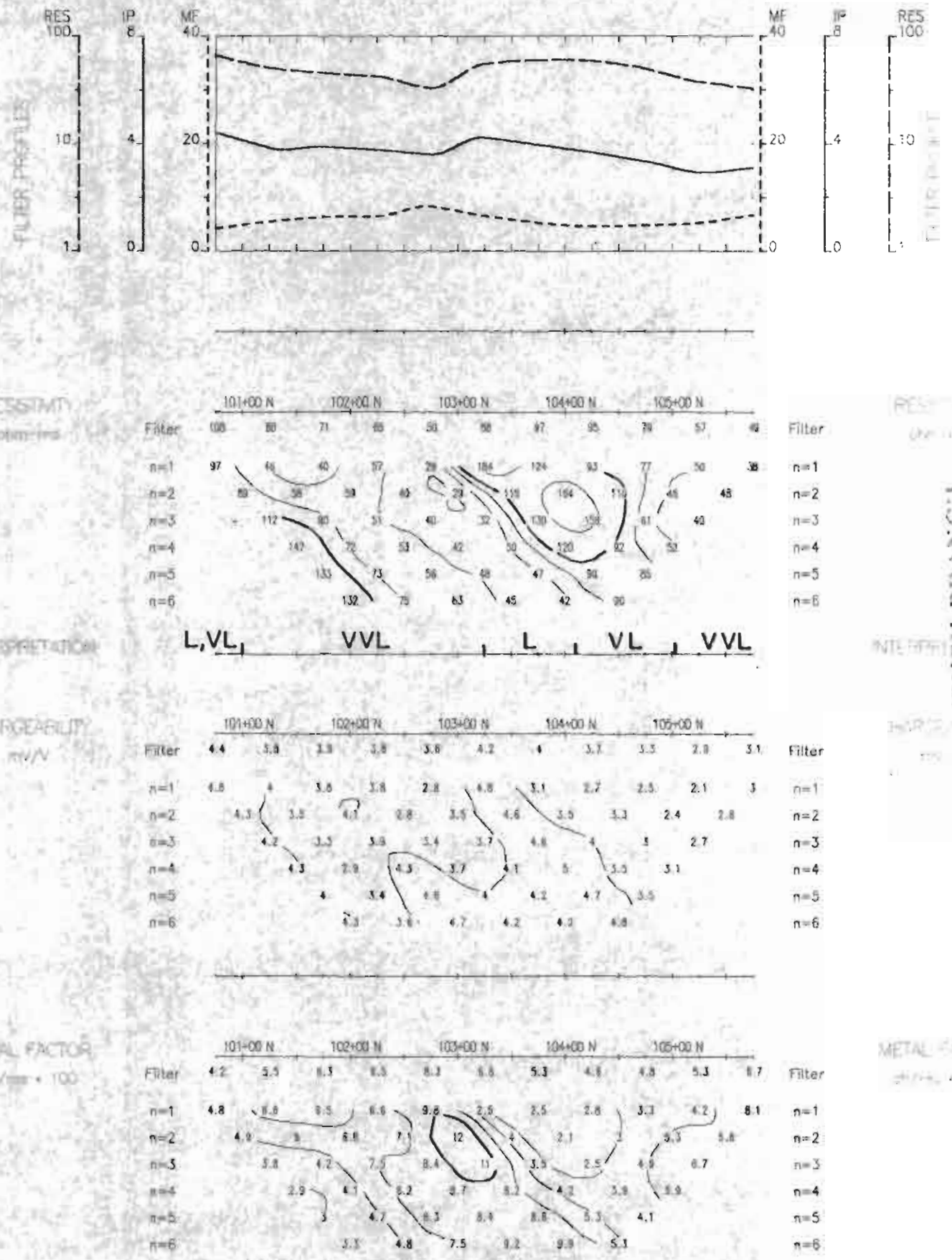
DWG. No. W-2103-D8-248 **Figure 9d**

PHELPS DODGE CORP. OF CANADA

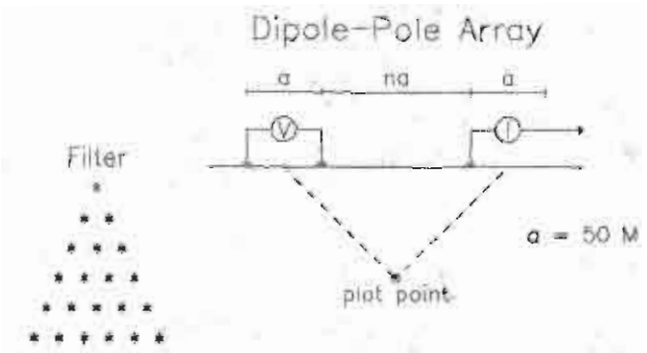
INDUCED POLARIZATION SURVEY
TROUT GRID, OMINECA MINING DIVISION
VANDERHOOF AREA, BRITISH COLUMBIA

Date: AUG 1996
Interpretation:

PETER E. WALCOTT & ASSOC. LTD.



Line 9900 E



Instrument: Androtex 7.5 kw. Tx., BRGM IP6 Rx.
Frequency: 0.125 Hz.
Operators: D.H., A.W., G.M.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10...

Scale 1:5000

0 50 100 150 200 250 300

(meters)

24,833

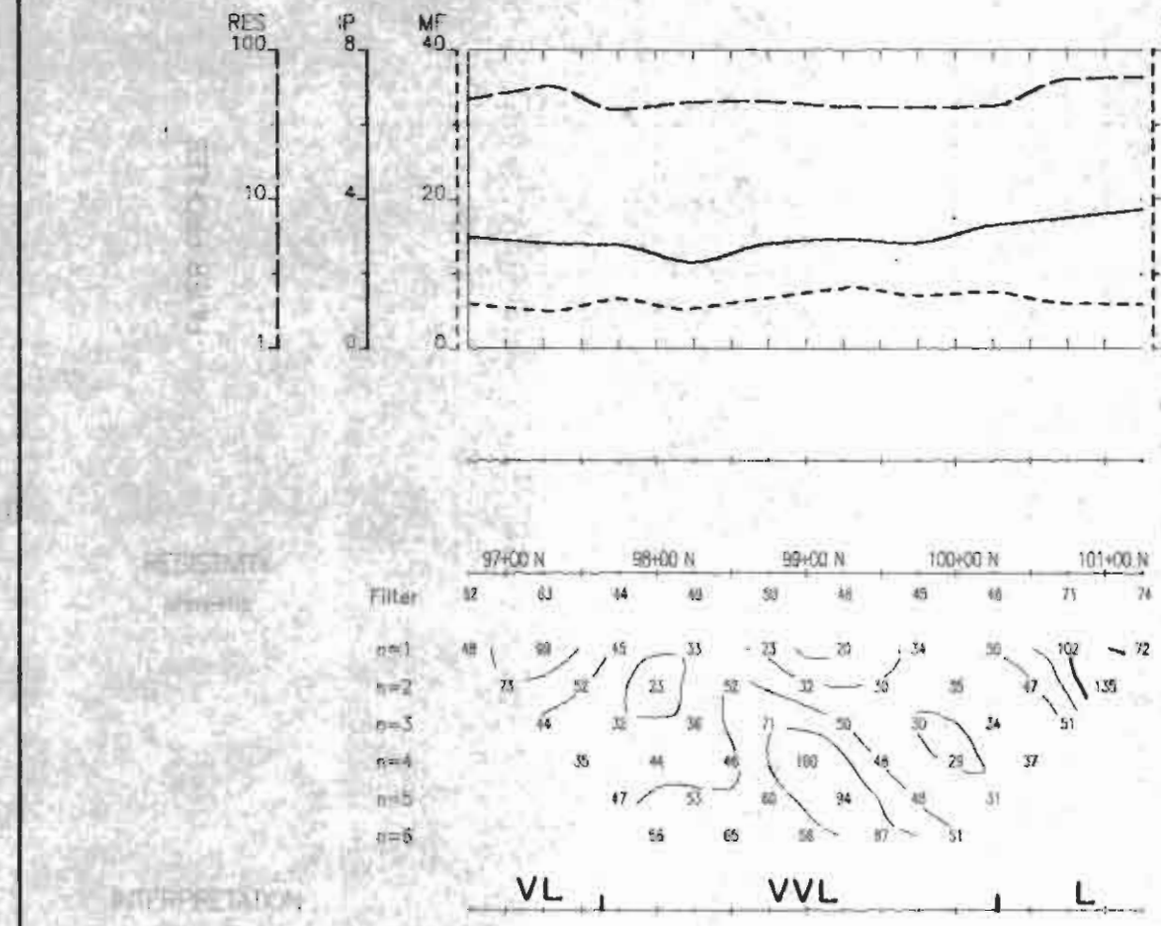
DWG. No. W-2104-D8-248 **Figure 9e**

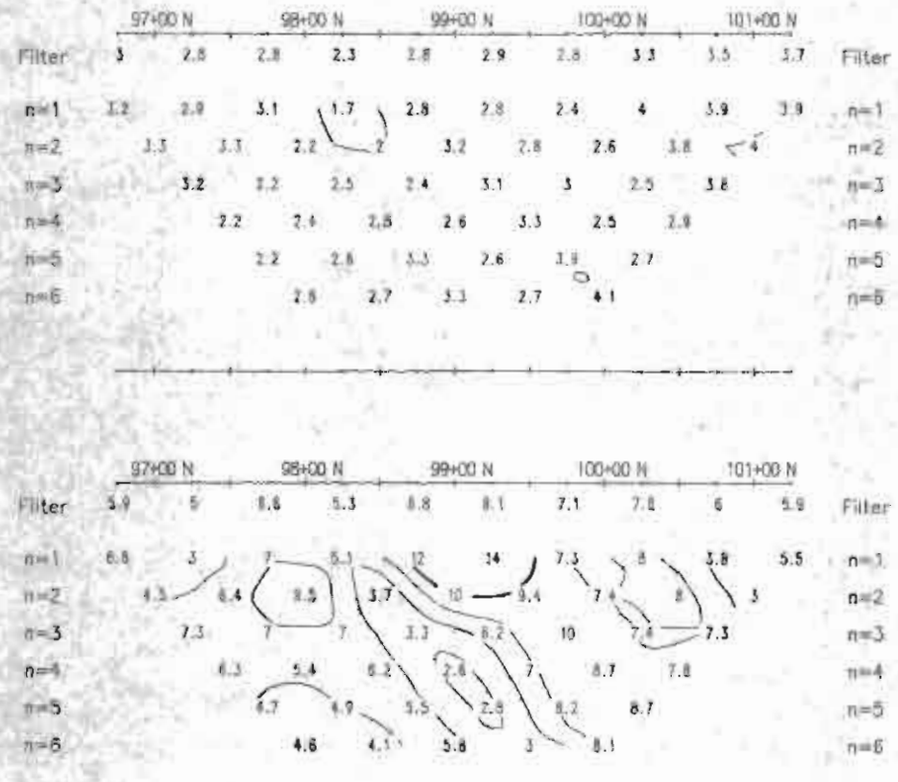
PHELPS DODGE CORP. OF CANADA

INDUCED POLARIZATION SURVEY
TROUT GRID, OMINECA MINING DIVISION
VANDERHOOF AREA, BRITISH COLUMBIA

Date: AUG 1996
Interpretation:

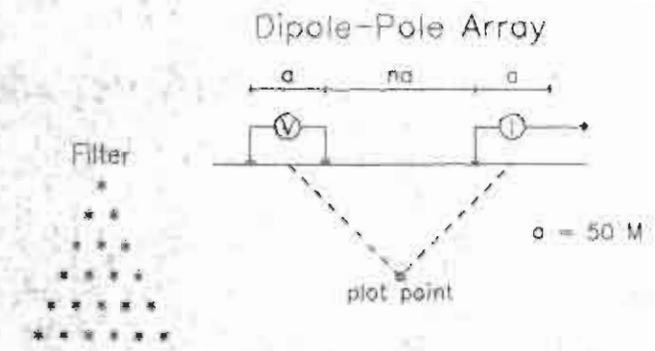
PETER E. WALCOTT & ASSOC. LTD.





GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

Line 10000 E



Instrument: Androtex 7.5 kw. Tx., BRGM IP6 Rx.
Frequency: 0.125 Hz.
Operators: D.H., A.W., C.M.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

24,833

Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

DWG. No. W-2105-D8-248 **Figure 9f**

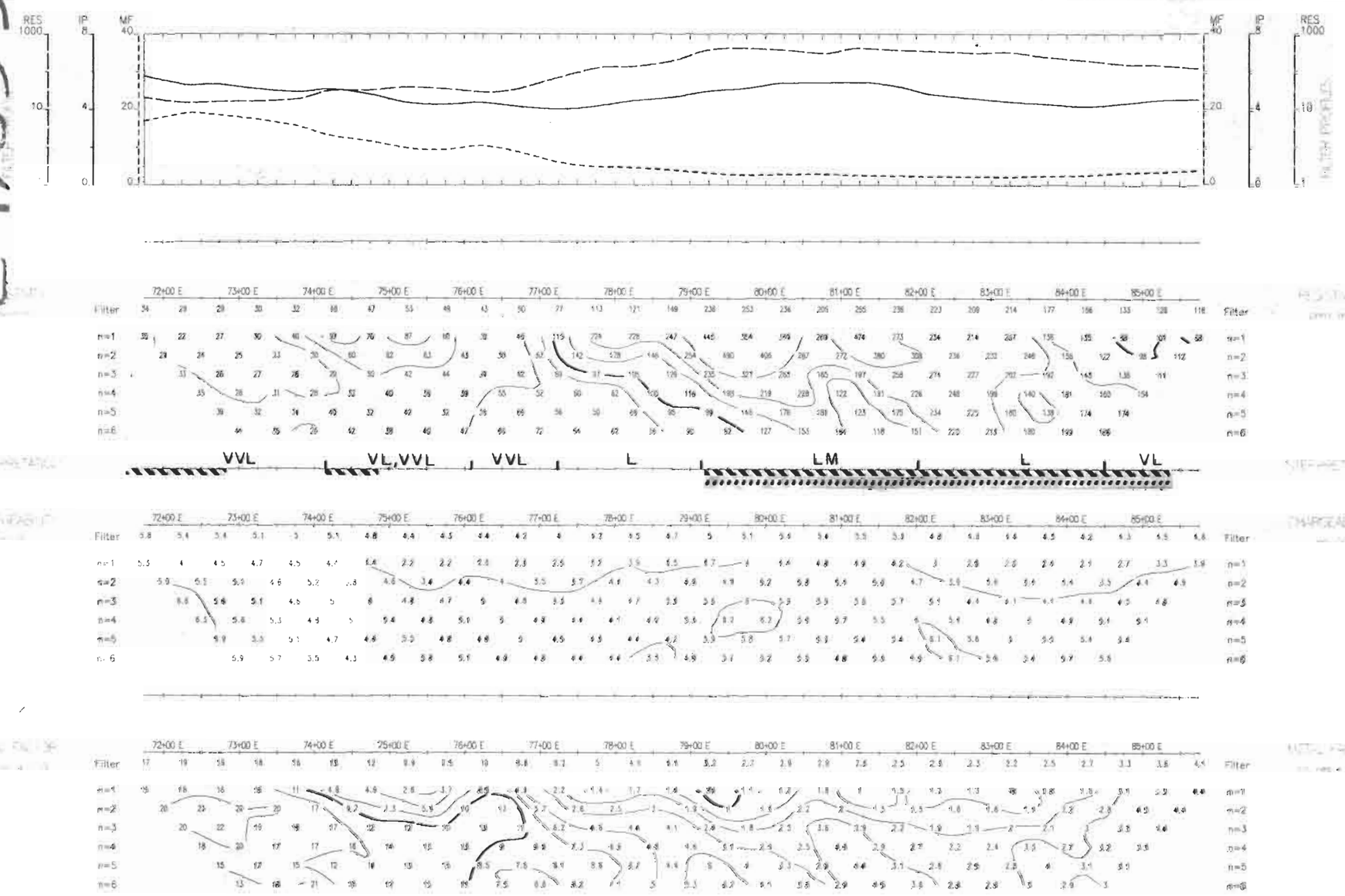
PHELPS DODGE CORP. OF CANADA

INDUCED POLARIZATION SURVEY
TROUT GRID, OMINECA MINING DIVISION
VANDERHOOF AREA, BRITISH COLUMBIA

Date: AUG 1996
Interpretation:

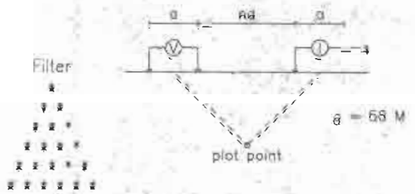
PETER E. WALCOTT & ASSOC. LTD.

24,833



Line 9900 N

Dipole-Pole Array



Instrument: Androtex 7.5 kw. Tx., BRGM IP6 Rx.
Frequency: 0.125 Hz.
Operators: D.H., A.W., G.M.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

Well defined, strong increase in polarization with or without marked decrease in resistivity.

Fairly well defined moderate increase in polarization.

Poorly defined weak increase in polarization.

Resistivity feature.

Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

DWG. No. W-2096-D8-248 Figure 9g

PHELPS DODGE CORP. OF CANADA

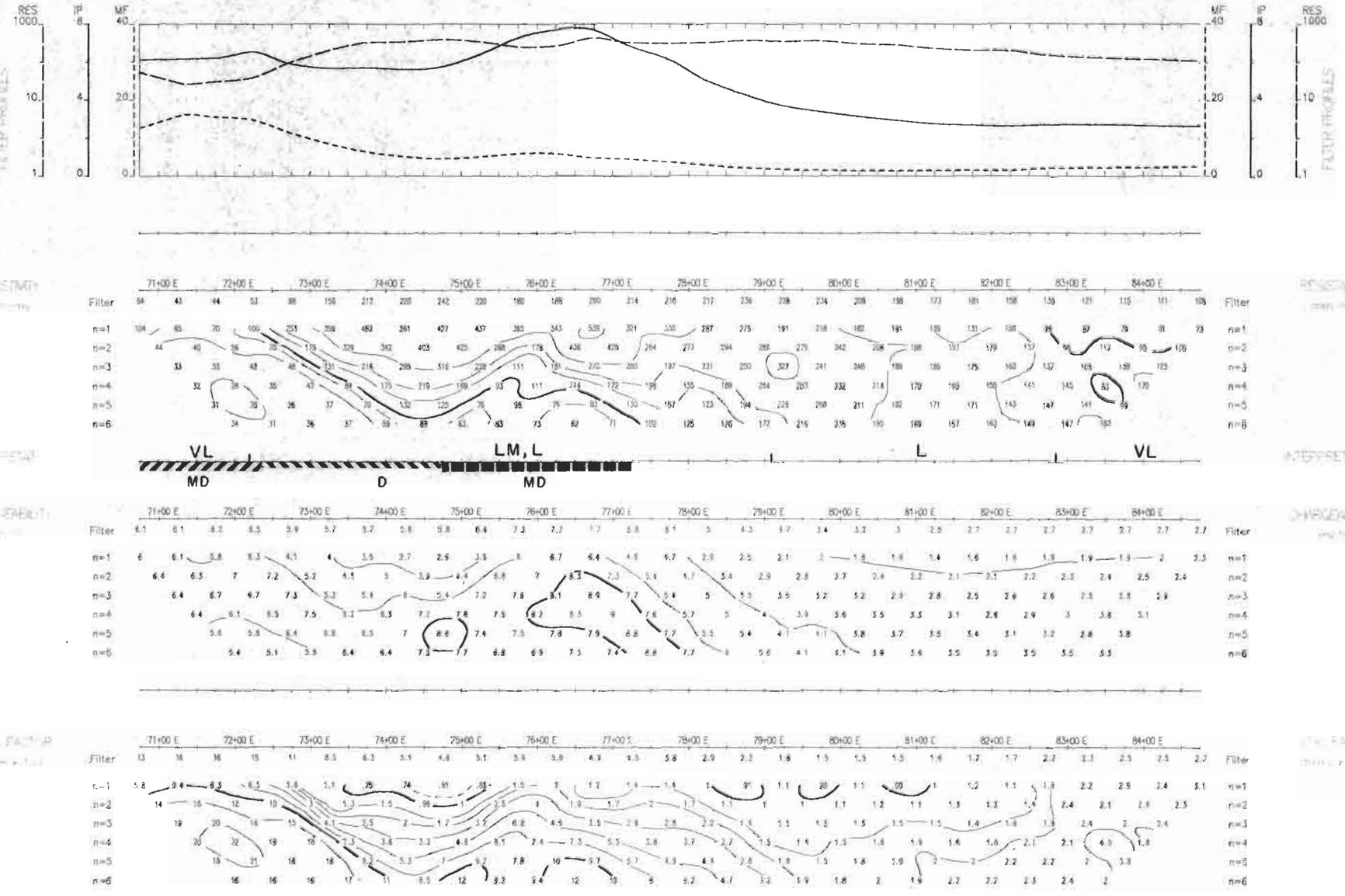
INDUCED POLARIZATION SURVEY
QUARTZ GRID, OMINECA MINING DIVISION
VANDERHOOF AREA, BRITISH COLUMBIA

Date: AUG 1996
Interpretation:

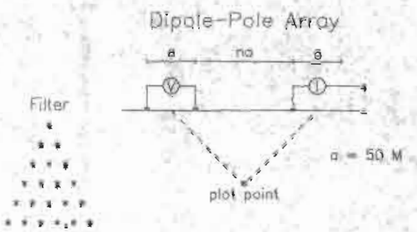
PETER E. WALCOTT & ASSOC. LTD.

ASSESSMENT REPORT

24,833



Line 10200 N



Instrument: Androtex 7.5 kw. Tx., BRGM IP6 Rx.
Frequency: 0.125 Hz.
Operators: D.H., A.W., G.M.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, ..

INTERPRETATION

Well defined, strong increase in polarization with or without marked decrease in resistivity.

Fairly well defined moderate increase in polarization.

Fairly well defined weak increase in polarization.

Resistivity feature.

Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

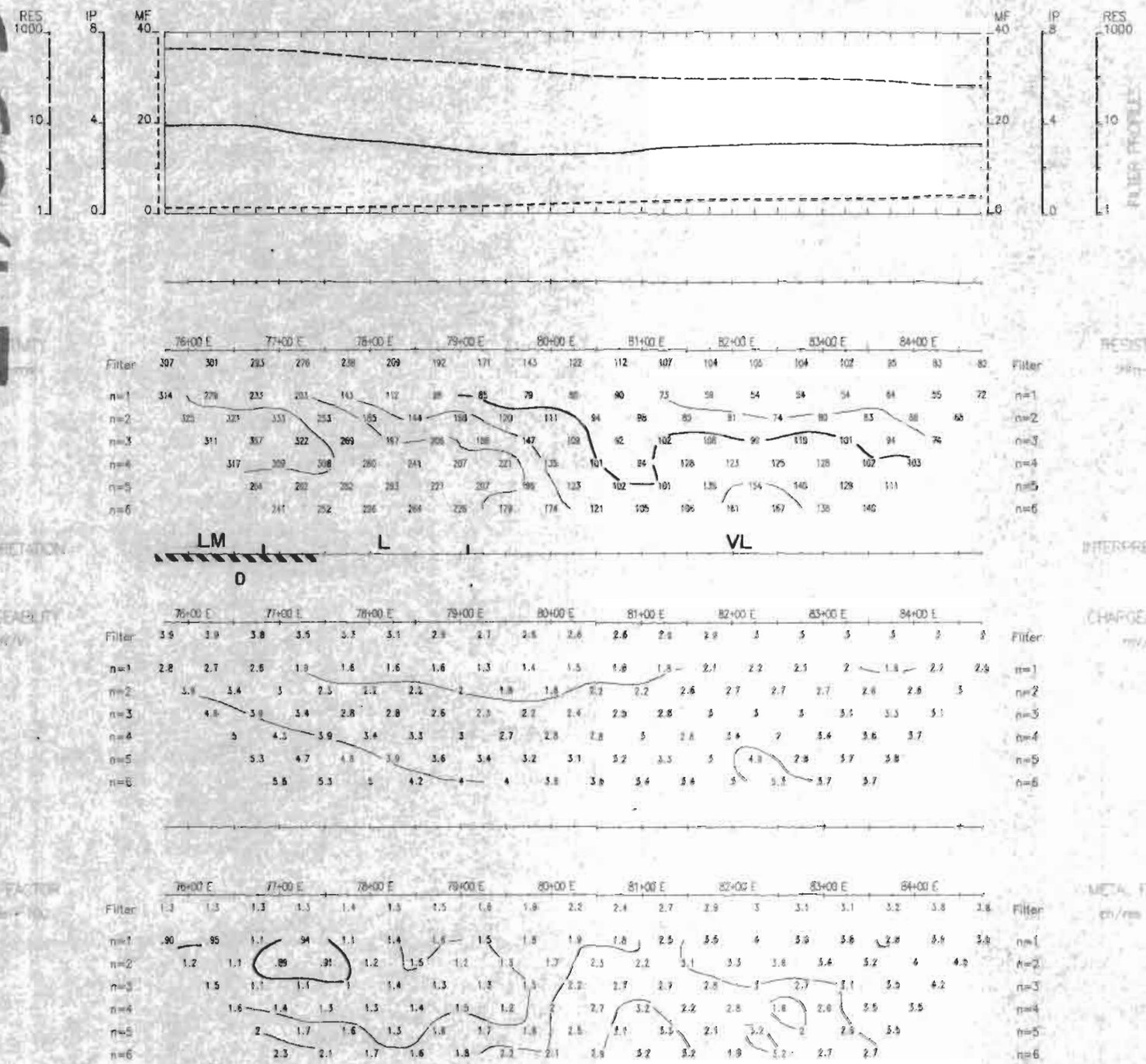
DWG. No. W-2097-D8-248 **Figure 9h**

PHELPS DODGE CORP. OF CANADA

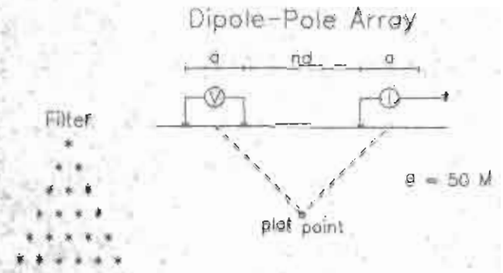
INDUCED POLARIZATION SURVEY
QUARTZ GRID, OMINECA MINING DIVISION
VANDERHOOF AREA, BRITISH COLUMBIA

Date: AUG 1996
Interpretation:

PETER E. WALCOTT & ASSOC. LTD.



Line 10500 N



Instrument: Androtex 7.5 kw. Tx., BRGM IP6 Rx.
Frequency: 0.125 Hz.
Operators: D.H., A.W., G.M.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

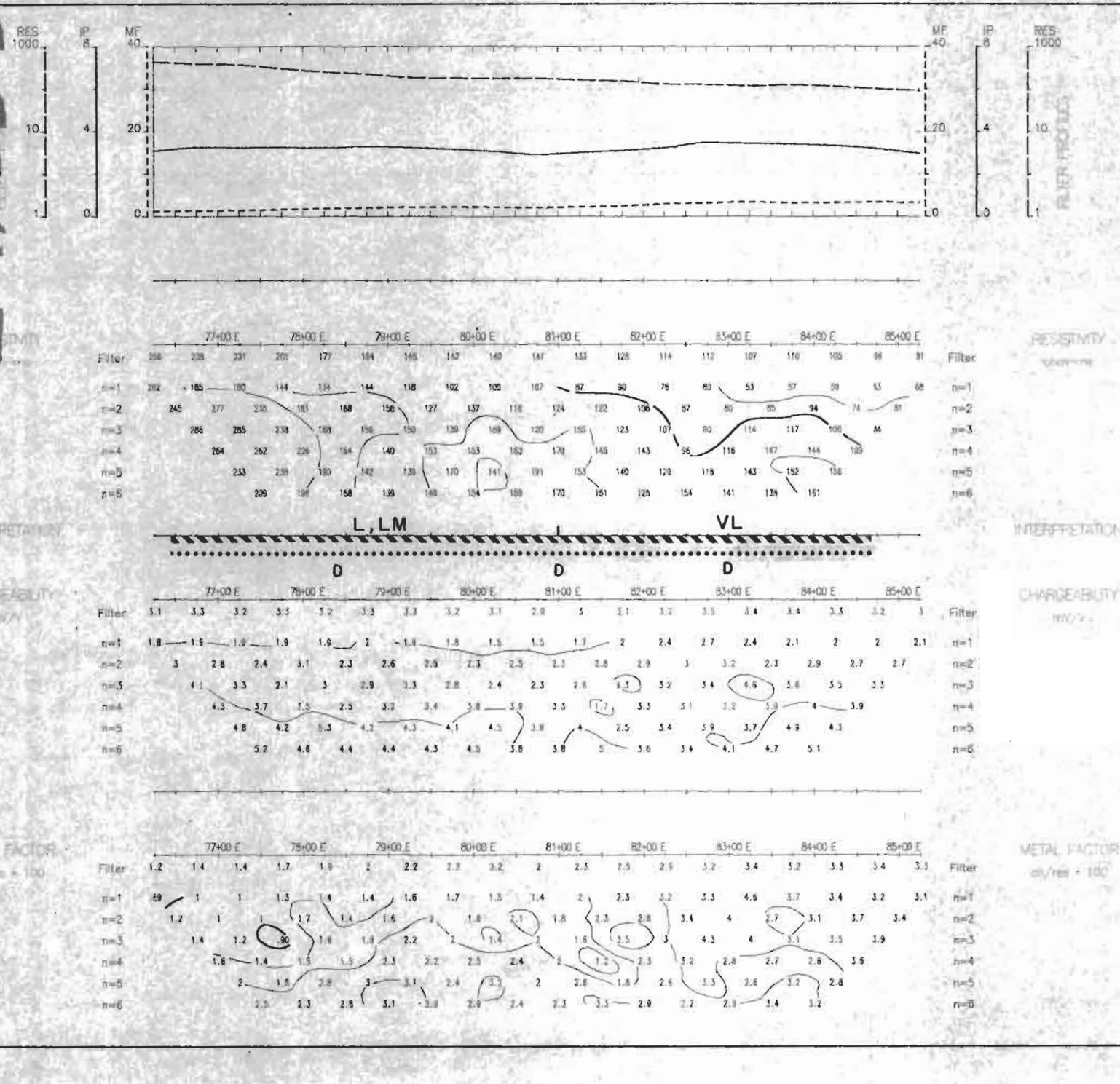
DWG. No. W-2098-D8-248 **Figure 9i**

PHELPS DODGE CORP. OF CANADA

INDUCED POLARIZATION SURVEY
QUARTZ GRID, OMINECA MINING DIVISION
VANDERHOOF AREA, BRITISH COLUMBIA

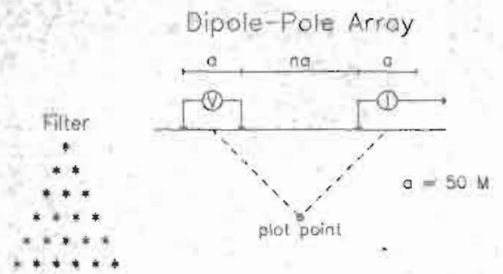
Date: AUG 1996
Interpretation:

PETER E. WALCOTT & ASSOC. LTD.



Line 10800 N

Dipole-Pole Array



Instrument: Androtex 7.5 kw. Tx., BRGM IP6 Rx.
Frequency: 0.125 Hz.
Operators: D.H., A.W., G.M.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, . .

Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

DWG. No. W-2099-D8-248 **Figure 9j**

PHELPS DODGE CORP. OF CANADA

INDUCED POLARIZATION SURVEY
QUARTZ GRID, OMINECA MINING DIVISION
VANDERHOOF AREA, BRITISH COLUMBIA

Date: AUG 1996
Interpretation:

PETER E. WALCOTT & ASSOC. LTD.