FOX GEOLOGICAL SERVICES INC

DIAMOND DRILLING, GEOLOGICAL AND SOIL GEOCHEMICAL REPORT

on the

TAM PROPERTY
TAM 1 TO 3, TAKEN 1 Mineral Claims
PROJECT

OMINECA MINING DIVISION
BRITISH COLUMBIA

NTS 93F/2,3
53° 01' North Latitude
125° 00' 30" West 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

December 20, 1996

TABLE OF CONTENTS

SUMMARY i
INTRODUCTION 1
LOCATION, ACCESS AND PHYSIOGRAPHY 1
CLAIM INFORMATION 1
PERMITS AND RECLAMATION 4
HISTORY 4
REGIONAL GEOLOGY 5
PROPERTY GEOLOGY 5
MINERALIZATION 7
1996 WORK PROGRAM 7
RESULTS 9
CONCLUSIONS and RECOMMENDATIONS 11
DISBURSEMENTS 12
BIBLIOGRAPHY 13
CERTIFICATES 14

List of Figures

Figure 1 - Property Location Map 2
Figure 2 - Claim Map 3
Figure 3 - Regional Geology 6
Figure 4 - Property Geology, Drill Plan ..... in pocket
Figure 5 - Ted Vein Detailed Geology ..... in pocket
Figure 6 - Soil Sample Location Map ..... in pocket
Figure 7 - Soil Geochemical Results- Au ..... in pocket
Figure 8 - Soil Geochemical Results- Ag ..... in pocket
Figure 9 - Rock Sample Geochemical Results ..... in pocket
Figure 10 -Drill Cross Sections ..... in pocket

Appendices

Appendix I - [illegible] Sample Descriptions 16
Appendix II - Geochemical Analyses and Analytical Procedures 17
Appendix III -Drill Logs 18

SUMMARY

The Tam gold prospect comprises the Tam 1 to 3 claims optioned from Cogema Resources Inc. and the Taken 1 claim staked by Phelps Dodge Corporation of Canada, Limited in January, 1994, all totalling some 34 claim units in central British Columbia. The prospect lies within the Nechako Arch, a basement high composed of Hazelton Group volcanics of Jurassic age and a suite of volcanic and intrusive rocks of Cretaceous and younger age. The property is underlain by west-dipping rhyolite and dacite units of the Naglico Formation, part of the Hazelton group. The property adjoins the Tommy gold prospect currently being explored by Teck Corporation who staked the area following a government release in January, 1994. Two northwest mineralized structures have been identified on the property, the Mint and Ted prospects, both on the Tam 3 claim.

The Ted and Mint veins, have been partially delineated by soil sampling, surface mapping and diamond drilling. The Mint vein was encountered in one drill hole and returned an estimated true width of 3.9 metres grading 1.4 grams gold/ tonne. It is truncated at a depth of 45 metres by a post mineral diorite sill. The Ted vein was drill tested by seven holes of which five encountered the Ted vein structure. Only results from hole 252-9 which returned an estimated true width of 6.5 metres grading 8.9 grams gold / tonne were of potentially economic tenor. The Ted vein is also truncated at depths of between 70 and 110 metres depth by a diorite sill.

Soil geochemical results for gold and silver outline several north trending linear anomalies that may indicate additional vein structures.

Further work is warranted to test for bedrock sources for the soil geochemical anomalies. The mint vein remains open to the north and south but is severely limited at depth due to the diorite sill. The Ted vein is open to the south but is truncated to the north by a post mineral fault and at depth by a post mineral sill. In addition gold grades appear to be restricted to isolated regions within the overall vein structure and the controls of and orientation of this concentration is not known.

Phelps Dodge Corporation of Canada, Limited #912 - 120 Adelaide Street West, Toronto, Ontario M5H 1T1
Telephone (416) 594-0351 Fax (416) 594-0355

INTRODUCTION

This report details an exploration program conducted on the Tam Property between May 24 and September 10, 1996. The property comprises the Tam 1 to 3 claims, optioned from Cogema Resources Inc. on January 31, 1995, and the adjoining Taken 1 claim, which was staked by Phelps Dodge Corporation of Canada, Limited in January 1994. Phelps Dodge Canada has a total interest in the latter and a 75% interest in the Tam claims. All claims, including the adjoining claims owned by Teck Corporation, were staked on the basis of a government release issued in January, 1994. Work done this year consisted of geological mapping, prospecting, rock and soil sampling on both the Tam and Taken claims and diamond drilling on the Tam 3 claim. Exploration focused on sampling two key mineralized zones, the Mint and Ted zones, where previous samples returned up to 5 gpt gold.

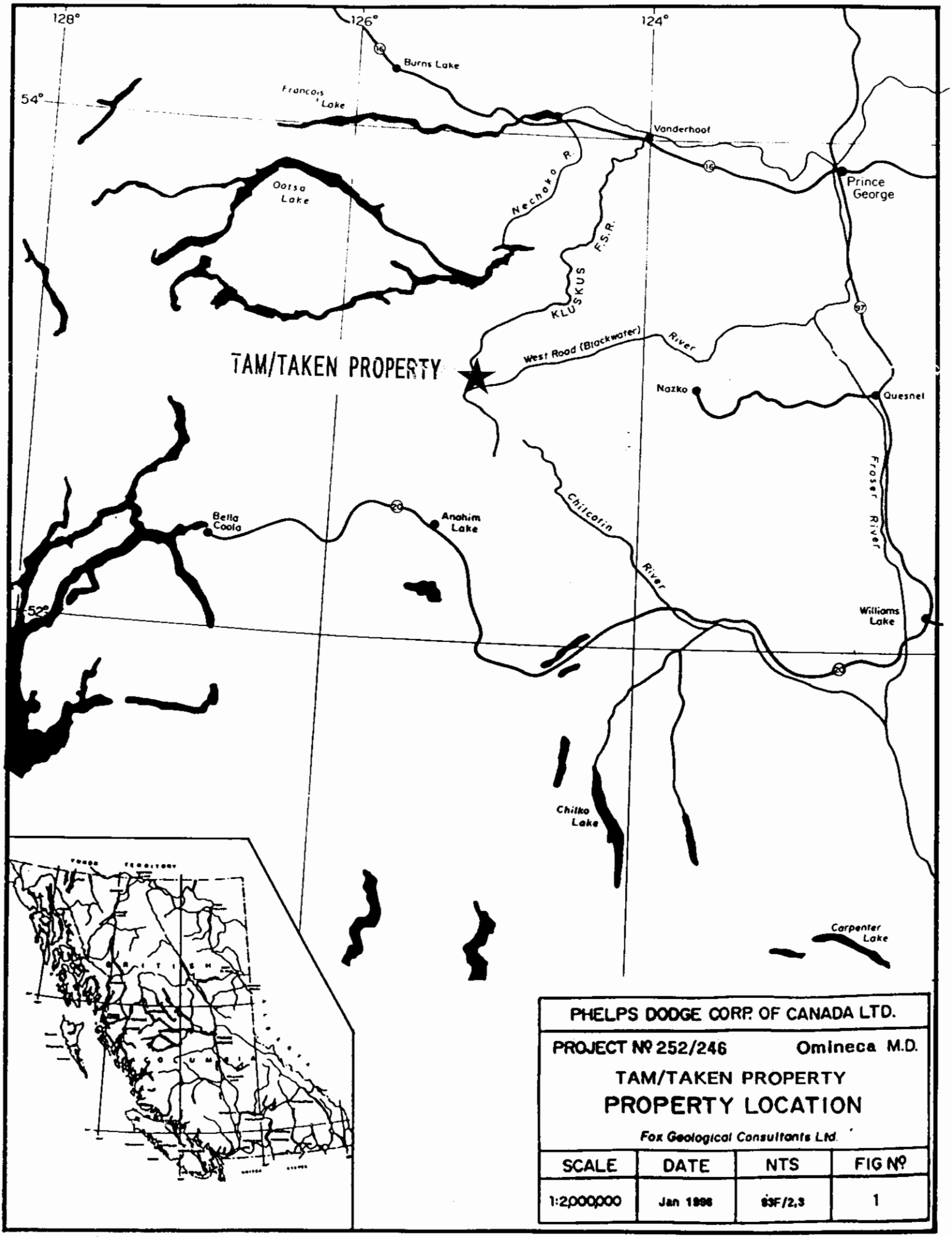
LOCATION, ACCESS and PHYSIOGRAPHY

The Tam Property is located 126 kilometres south-southwest of Vanderhoof, British Columbia in the Naglico Hills. The claims lie between Tommy Lakes and Tsacha Lake, three kilometres north of the West Road (Blackwater) River (Figure 1). Access from Vanderhoof is via the Kluskus-Ootsa Forest Service Road, southwest to Kilometre 161, then east along the 8200 Road for five kilometres through the Naglico Hills. A fire access road, which also services the Teck property, heads east and then south onto the property.

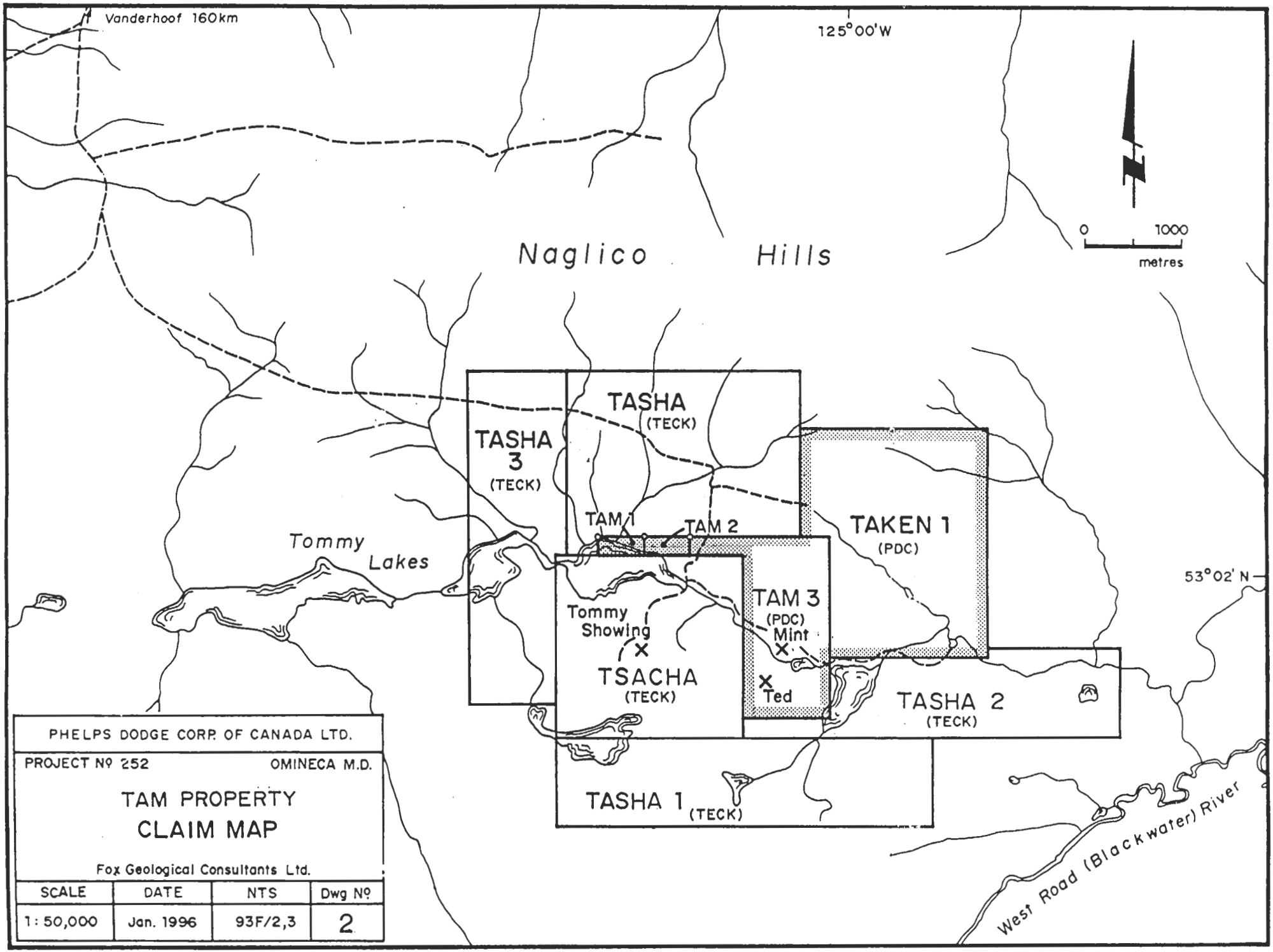
The property is situated on south-facing slopes of the Naglico Hills, which form gently rolling hills, with elevations ranging from approximately 1,250 metres on a knoll in the northern Tam 3 claim to a low of about 1,115 metres in a valley in the central part of the property. Forest cover consists primarily of open-spaced spruce and pine typical of the region. A large burn area comprising a thick tangle of deadfall and is centred on the Taken 1 and Tam 3 claim line.

CLAIM INFORMATION

The Tam property consists of 2 two-post (Tam 1, Tam 2) and 2 four-post (Tam 3, Taken 1) mineral claims, totalling 34 units, recorded in the Omineca Mining Division and shown on NTS map sheets 093F/2W and 093F/3E, 52°031'N, 125°00'W (Figure 2). The original Tam claims staked in January, 1994 were abandoned and relocated by Cogema on September 21, 1994. The Taken 1 claim was staked on January 30, 1994 for Phelps Dodge Corporation of Canada Limited. The Tam 1 to 3 claims were optioned to Phelps Dodge by Cogema Resources, Inc. on January 31, 1995. Claim details are set out in Table 1 below. Assessment work filed on the Tam claims on September 17 th, 1996 extended the expiry dates until the year 2001; assessment work filed September 17 th, 1996 on the Taken 1 claim extended its expiry date to 2001.



PHELPS DODGE CORP. OF CANADA LTD.			
PROJECT Nº 252/246 Omineca M.D.			
TAM/TAKEN PROPERTY			
PROPERTY LOCATION			
Fox Geological Consultants Ltd.			
SCALE	DATE	NTS	FIG Nº
1:2,000,000	Jan 1996	93F/2,3	1



PHELPS DODGE CORP. OF CANADA LTD.

PROJECT Nº 252 OMINECA M.D.

TAM PROPERTY
CLAIM MAP

Fox Geological Consultants Ltd.

SCALE	DATE	NTS	Dwg Nº
1:50,000	Jan. 1996	93F/2,3	2

Table I
Property Status

Claim Name	Tenure No.	Expiry Date	Units
Tam 1	331404	September 21, 2001	1
Tam 2	331405	September 21, 2001	1
Tam 3	331406	September 21, 2001	12
Taken 1	323457	January 30, 2001	20

Taken 1 partially over stakes the Tam 3 claim and Tam 1, 2, and 3 overstake the Tsacha claim. The effective claim area is, thereby, reduced to approximately 26 units.

PERMITS AND RECLAMATION

All work conducted on the Tam/Taken Property during 1996 was performed under B.C. Ministry of Energy, Mines and Petroleum Resources Annual Work Approval Number PRG-1996-1101404-7525. Approximately 1.8 kilometres of drill access trail was constructed to provide access to the drill sites. The road was constructed with a Hyundai hoe under a licence to cut issued by the BC Ministry of Lands and Forests. Following the completion of the work program all merchantable timber was removed to mills in Vanderhoof, access bridges were removed and the area seeded and water barred. Minor clean-up slashing is required in the spring.

HISTORY

The Tam and Taken claims were staked in 1994 by Cogema Resources and Phelps Dodge Corporation, respectively, after a government release that reported the discovery of an epithermal quartz vein prospect, the "Tommy" prospect, near Tsacha Lake. The Tommy showing was staked by Teck Corporation as the Tsacha and Tasha claims (Figure 2). In 1994, both Cogema Resources and Phelps Dodge Canada conducted preliminary sampling and prospecting on the Taken and Tam claims. Two prospective zones were discovered on the Tam 3 by Cogema, known as the Mint Showing, which returned up to 5060 ppb gold in bedrock and the Ted Showing, from which samples returned up to 1490 ppb gold. Phelps Dodge Canada optioned the Tam1 to 3 claims from Cogema on January 31, 1995 and continued prospecting work that year. Work by Phelps dodge during 1996 continued the prospecting and soil sampling program begun in 1995 and included drill testing of the Mint and Ted veins by 9 diamond drill holes totalling 1263.1 metres.

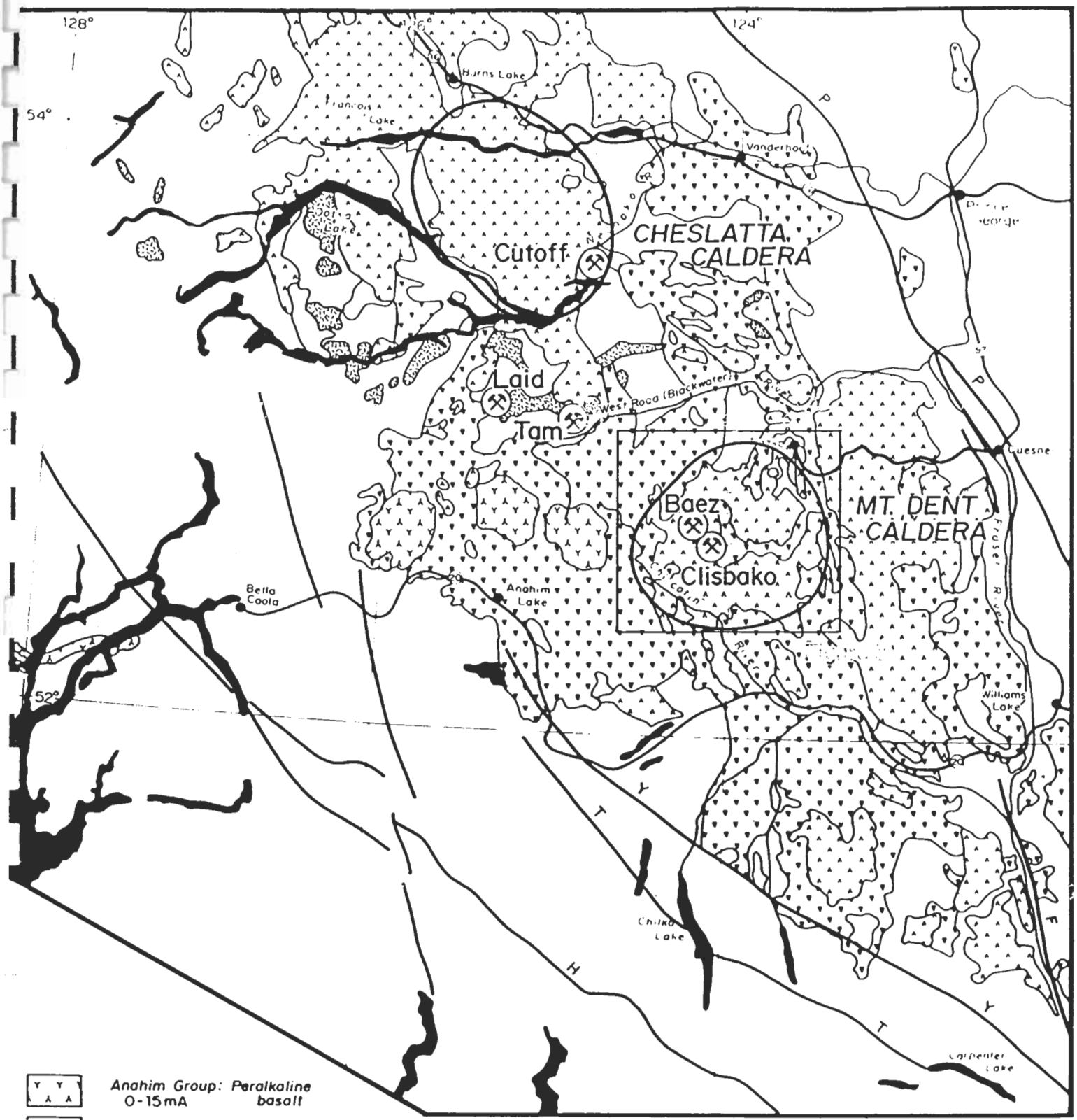
REGIONAL GEOLOGY

The Tam property is centrally located in the Intermontane Belt of the Interior Plateau of British Columbia. The Intermontane Belt consists of accretionary plates of the Stikinia, Cache Creek and Quesnellia Terranes. These are composed of late Palaeozoic to mid-Mesozoic marine volcanic and sedimentary rocks and mid-Mesozoic to late Tertiary marine and non-marine sedimentary and volcanic rocks. The claims lie in the Nechako Arch, which consists of several volcanic-stratigraphic groups ranging in age from Jurassic to Miocene. Pre-Tertiary rocks of the Nechako Arch include lower Cretaceous Skeena Group, an assemblage of easterly derived back clastics, and the middle Jurassic Hazelton Group composed of arc-type calcalkaline volcanics and volcaniclastics. Mapping of the nearby Fawnie Creek area by Diakow and Webster in 1993 indicates that rocks outcropping in the vicinity of the Tam property belong to the Naglico Formation of the Hazelton Group. The Naglico Formation here consists of rhyolite, andesite and basalt flows, tuff and lapilli tuff. These rocks are intruded by Cretaceous bodies of biotite diorite to monzodiorite. Regional geology is represented in Figure 3.

Tertiary and younger rocks comprise the Ootsa Lake Group, which comprise rhyolitic to dacitic tuff, flows and breccias, Miocene Chilcotin Group vesicular basalt flows and Late Miocene to Quaternary Anahim Group plume volcanics that form the Rainbow, Ilgachuz and Itcha shield volcanoes just to the south of the Tam prospect. An arcuate belt of Paleocene Nanika and Quanchus quartz monzonite and granite intrudes Ootsa Lake Group and older rocks of the Nechako Arch.

PROPERTY GEOLOGY

Volcanic rocks of the Naglico Formation underlie the Tam area and the adjoining Tommy prospect. These rocks outcrop sporadically in small exposures and rubble crop on small rocky knobs and ridge summits. The volcanic units form a west-dipping assemblage, from east to west, of basalt (Units Nb, Figure 4), andesite (Na), dacite (Nd), tuff (Nq) and rhyolite (Nr). The rhyolite welded tuff units underlie all of the Tam claims and west third of the Taken 1 and appear to be the main host for the mineralized zones discovered to date. All units are shades of grey, green and maroon weathering to grey-green and brown. Most of the rhyolite tuffs are massive, laminated and subvitreous with phenocrysts of potassium feldspar and quartz with local exotic clasts of darker volcanic rocks. Interbeds of tuff, lapillistone and breccia are common in the central part of the property. Grey weakly magnetic sills of diorite to monzonite composed of biotite phenocrysts set in a fine grained matrix lie on a ridge along the east boundary of the Tam 3 claim and on a low ridge at the southwest corner of the Tam 3 and the adjoining Tsacha 1 claim. This sill is also encountered at depth in drilling where it occurs as a flat to gently south dipping sill up to 85 metres in thickness and as narrow cross cutting dykes.



PHELPS DODGE CORP. OF CANADA LTD.

PROJECT Nº 205 OMINECA M.D.

REGIONAL GEOLOGY

Fox Geological Consultants Ltd.

SCALE	DATE	NTS	FIG Nº
1:2,000,000			3

MINERALIZATION

Previous work by Cogema and the 1995 work program have identified two main targets referred to as the Ted and Mint zones. All are poorly exposed northwesterly-striking composite veins and stockworks in rhyolite and dacite host rocks. The Mint and Ted are established targets exposed in outcrop and locally derived rubblecrop exposures.

Mint Prospect

The Mint prospect (Figure 4), consists of a series of north to northeasterly striking, steeply dipping banded quartz/carbonate veins and stockworks in reddish rhyolite tuff and boulders within till of massive vein material. Veins range up to 1 metre thick where encountered in a creek bed on the Tam 3 claim. Massive to banded, milky coloured quartz veins locally exhibit crude banding and layering, with sugary-textured, vuggy cores flanked by massive quartz, carbonate, chalcedony and light and dark grey layers and seams of fine grained sulphides. Angular fragments of rhyolite often occur in the veins. Sulphide mineralization consists of disseminated pyrite, galena and black sphalerite. Five rock samples collected by Cogema prospectors in 1994 contained between 240 and 5,320 ppb gold.

The Mint zone was tested by two drill holes, 252-1 and 252-2. Both holes encountered stockworks of quartz/carbonate veining within rhyolite tuff. Hole 252-2 encountered a core interval of 7.0 metres grading 1.4 grams gold per tonne.

Ted Prospect

The Ted showing (Figure 4,5), located 500 metres south of the Mint prospect, consists of massive quartz veins and quartz stockworks hosted in rhyolite tuff. The main vein is up to 6.5 metres thick, strikes northerly and has a steep dip varying from vertical to 80^0 westerly. Mineralization consists of very fine grained galena and pyrite, which form dark coloured bands and seams within veins not unlike those seen at the Mint prospect. In drill core the main vein locally divides into two separate veins with an intervening block of strongly developed stockwork. Additional sulphide minerals identified in core includes chalcopyrite, spalerite, bornite and possibly tetrahedrite.

1996 WORK PROGRAM

The 1996 field program, conducted between May 24 and September 10, 1996, focused on sampling and defining the Mint and Ted vein systems and soil sampling and prospecting of the surrounding claim area. A grid established in 1995 with an orientation of 060° was expanded to encompass the entire claim package. A total of 22.5 kilometres of grid line

were prepared with lines spaced 100 or 200 metres apart and stations established at 50 metre intervals along lines.

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. Sample depth varied depending on the depth of the B horizon but it was generally encountered at a depth of between 10 and 20 centimetres. 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. A total of 463 soil samples were collected. Soil geochemical results for gold are plotted in Figure 7 and for silver in Figure 8. Analytical data are set out in Appendix II

The property was prospected and geologically mapped at a scale of 1:5,000. Geology is compiled at a scale of 1:5,000 and is presented in Figures 4 and 5. In addition a detailed chip sampling program was completed on the Ted Vein showing. A total of 238 rock samples were collected during the course of mapping and prospecting. Rock sample locations are shown in Figures 5 and 9 and rock sample descriptions comprise Appendix 1. All samples were submitted to Acme Analytical Laboratories in Vancouver, B.C. for analysis. Rocks were crushed, split and pulverized to -100 mesh. All samples were analyzed for 34 elements by ICP techniques and for gold by geochemical AA methods. Analytical procedures are more fully outlined in Appendix II. Samples greater than 100 ppb gold are posted with their gold contents in Figure 9.

Diamond drilling of the Mint and Ted zones was performed by L.D.S. Diamond Drilling Inc. of Kamloops B.C. A total of 1263.1 metres of NQ drilling in 9 holes was completed with a skid mounted Longyear 38 diamond drill moved by a D6 bulldozer. Intervals with quartz carbonate stockworks and veins were split in half and sampled in 1 metre intervals. Assays were completed on the individual samples at Acme Analytical Labs Ltd., 852 East Hastings Street, Vancouver. Each sample was analysed for 34 gold was by graphite furnace fire assay with atomic absorption finish utilizing a 20 gram aliquot. All core is stored at the core storage facility located just south of drill site 252-2 on the Tam 3 claim. Drill hole locations are summarized below and are plotted on figure 4 and 5. Cross sections are presented on figure 10 and drill logs are presented in appendix III.

HOLE	NORTHING	EASTING	AZIMUTH	DIP	LENGTH(m)
252-1	5877145	364935	270	-45	139.3
252-2	5877145	364965	270	-55	44.8
252-3	5876689	364870	235	-45	169.8
252-4	5876689	364870	235	-60	99.7
252-5	5876689	364870	235	-80	224.7
252-6	5876635	364888	235	-45	145.4
252-7	5876635	364888	235	-60	108.8
252-8	5876587	364950	235	-45	169.8
252-9	5876635	364888	200	-45	160.2
Total					1263.1 m

RESULTS

Soil geochemical results for gold and silver are plotted on figures 7 and 9 respectively and soil sample numbers are plotted on figure 6. Plotted data includes that collected during the 1995 work program for completeness. 1995 sample and analytical procedures were identical to 1996 methods. Gold values range from 1 ppb to 252 ppb with the 9 ppb contour defining clear linear trends. Contours of gold values presented on figure 7 define several linear, northerly trending anomalies with dimensions up to 1000 metres. Both the Ted and Mint showings coincide with elevated gold in soil values. Several unexplained linear anomalies are present just east of the Ted and Mint prospects and further east on the Taken 1 claim. These areas of enhanced gold in soil are partly associated with float boulders of quartz/carbonate vein material and stockworks within rhyolite tuff. Silver geochemistry is plotted on figure 8 along with results from the 1995 program for completeness. Silver values range from 30 ppm to 16,637 ppm. The 250 ppm contour defines linear north trending anomaly patterns similar and in most part coincident with the gold anomaly pattern.

Rock geochemical data for gold and silver is presented on figure 9 and a detailed plot for the sampling on the Ted showing on figure 5. Sample descriptions are presented in appendix I and full analytical data in appendix II. Peak gold value in rock was 19,240 ppb from a float sample of sugary crystalline quartz material. In general the majority of

elevated gold in rock samples were collected from float boulders. Bedrock samples were collected mainly from massive quartz carbonate veins at the Ted and Mint showings and from stockworked rhyolites elsewhere.

Diamond drill testing of the Mint and Ted vein systems was completed in 9 drill holes totalling 1,263.1 metres. Drill logs are presented in appendix III and geological and analytical data are plotted on figures 10a to 10d. The Mint vein system was drill tested by two holes, 252-1 and 252-2. The original target was a poorly exposed vein in the bed of the main creek draining the Tommy Lakes. Drilling failed to encounter this vein but did intersect a long interval of barren quartz/carbonate stockworked rhyolite tuff. A second vein was encountered in drill hole 252-2 which correlates at surface with an outcrop of stockworked rhyolite tuff. A flat lying diorite sill was encountered at a vertical depth of 45 metres below surface and exhibits a minimum thickness at this locality of 50 metres. This sill correlates with a similar sill encountered at the Ted vein and on the adjoining Tommy Property. The Ted vein was drill tested by 7 holes but was penetrated by only 5 of the holes due to interference with a diorite sill. Vein intersections are plotted on cross sections and analytical data is tabulated below. The Ted Vein is a composite vein comprising one or two massive quartz carbonate veins with intervening well developed stockworks within rhyolite tuff. Textures within the veins include breccias, cockscomb and bladed textures and local fine chalcedony. Amethyst is common. Sulphide minerals vary from trace amounts to 3% and include pyrite, sphalerite, galena and rare chalcopyrite and bornite. A flat lying diorite sill 85 metres thick was encountered at between 70 and 110 metres depth and truncates the vein.

Tam Property Drill Results

Hole	From (m)	To (m)	Core Length (m)	True Width (m)	Au(g Au/T)	Ag (g Ag/T)
252-1	no significant results					
252-2	21.6	28.6	7.0	3.90	1.40	34.6
252-3	no significant results					
252-4	61.0	62.0	1.0	0.41	7.15	72.5
252-5	no significant results					
252-6	no significant results					
252-7	90.0	99.0	9.0	4.20	1.43	15.9
252-8	no significant results					
252-9	110.0	132.0	22.0	6.46	8.90	394.0

CONCLUSIONS and RECOMMENDATIONS

Two epithermal vein systems the Ted and Mint veins, have been partially delineated by soil sampling, surface mapping and diamond drilling. The Mint vein was encountered in one drill hole and returned an estimated true width of 3.9 metres grading 1.4 grams gold/ tonne. It is truncated at a depth of 45 metres by a post mineral diorite sill. The Ted vein was drill tested by seven holes of which five encountered the Ted vein structure. Only results from hole 252-9 which returned an estimated true width of 6.5 metres grading 8.9 grams gold / tonne were of potentially economic tenor. The Ted vein is also truncated at depths of between 70 and 110 metres depth by a diorite sill.

Soil geochemical results for gold and silver outline several north trending linear anomalies that may indicate additional vein structures.

Further work is warranted to test for bedrock sources for the soil geochemical anomalies. The mint vein remains open to the north and south but is severely limited at depth due to the diorite sill. The Ted vein is open to the south but is truncated to the north by a post mineral fault and at depth by a post mineral sill. In addition gold grades appear to be restricted to isolated regions within the overall vein structure and the controls of and orientation of this concentration is not known.

DISBURSEMENTS

Project expenditures for the 1996 work program are $192,900 and are tabulated below.

Project Disbursements- 1996 work program				
Salaries-May 24 to Sept 10,1996				
R. Cameron	geologist	35 days @ 325	$11,375	
C. Payne	geologist	20.5 days @ $295	$6,048	
B. Terry	geologist	13 days @ $295	$2,925	
A. Butler	sampler	37 days @ $225	$8,325	
D. Gagnon	sampler	27 days @ $225	$6,075	
L. Payne	cook	1 days @ $225	$225	
J. Boutwell	prospector	16.5 days @ $225	$3,712	
T. Archibald	prospector	4 days @ $225	$900	
C. Thorson	sampler	3 days @ $225	$675	
R Bailey	sampler	5 days @ $225	$1,125	
A. Nicholson	cook	10 days @ $225	$2,250	$43,635
Diamond Drilling		1263.1 m@ $76/m		$95,996
Accomodation and Board		172 mandays @ $60		$10,320
Analytical		238 rocks @ $27		$6,426
		227 core@ $18		$4,086
		463 soils @ $ 17		$7,871
Truck Rental		126 truck days @ $50		$6,300
Road construction				$16,730
ATV Rental				$1,540
Total				**$192,903**

Prepared by:

FOX GEOLOGICAL SERVICES INC.

Peter E. Fox, Ph.D., P.Eng.
December 20, 1996

BIBLIOGRAPHY

Diakow, L. J. and Webster, Ian C.L. (1993); "Geology of the Fawnie Creek Map Area"; in Geological Fieldwork 1993, Paper 1994-1, British Columbia Geological Survey Branch, 1993.

Diakow, L. J., Webster, I., Levson, V., Giles, T. "Bedrock and Surficial Geology of the Fawnie Creek Map Area"; Geological Survey Branch Open File 1994-2

Fox, P. E. (1995), "Geochemical Assessment Report on the Taken 1 Claim"; Assessment Report by Fox Geological Consultants Ltd. for Phelps Dodge Corporation of Canada, Limited, January 16, 1995.

Fox, P. E. (1995), "Geological Report on the Taken 1 Claim"; Assessment Report by Fox Geological Services, Inc., for Phelps Dodge Corporation of Canada, Limited, December 22, 1995.

Payne, C. W. (1995), "Geological and Soil Geochemical Report on the Tam Property"; Assessment Report by Fox Geological Services, Inc. for Phelps Dodge Corporation of Canada, Limited, December 20, 1995.

Schimann, K. (1995), Geological and Geochemical Survey, Tam Property (Nechako Project), 1994"; report by Cogema Resources Inc., January 1995.

CERTIFICATES:

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.
December 20, 1996

CERTIFICATE

I, Robert S. Cameron, of the City of Vancouver, B.C., do hereby certify that:

1. I graduated from Carleton University in 1981 with a Bachelor of Science Degree in Geology.

2. I have been practising my profession as a geologist since 1981.

3. I am a fellow of the Geological Association of Canada.

Robert S. Cameron, B.Sc.
Vancouver, B.C.
December 20, 1996

Phelps Dodge Corporation of Canada, Limited #912 - 120 Adelaide Street West, Toronto, Ontario M5H 1T1
Telephone (416) 594-0351 Fax (416) 594-0355

APPENDIX I

SAMPLE DESCRIPTIONS

Phelps Dodge Corporation of Canada, Limited #912 - 120 Adelaide Street West, Toronto, Ontario M5H 1T1
Telephone (416) 594-0351 Fax (416) 594-0355

SOIL SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	NORTH	EAST	TYPE	MATERIAL	COLOUR	REMARKS	Au ppb	Ag ppb
56653	9400	11900	SOIL	TILL	ORANGE		4	83
56652	9400	11950	SOIL	TILL	BROWN		4	37
56651	9400	12000	SOIL	TILL	BROWN		1	42
56650	9400	12050	SOIL	TILL	BROWN		6	58
56649	9400	12100	SOIL	TILL	BROWN	SAMPLED AT 121+15 DUE TO CREEK.	1	52
56648	9400	12150	SOIL	TILL	BROWN		3	76
56647	9400	12200	SOIL	TILL	BROWN		6	54
56646	9400	12250	SOIL	TILL	BROWN		1	33
56637	9600	11500	SOIL	TILL	ORANGE		2	42
56638	9600	11550	SOIL	TILL	BROWN		2	93
56639	9600	11600	SOIL	TILL	BROWN		6	34
56640	9600	11650	SOIL	TILL	BROWN		7	104
56641	9600	11700	SOIL	TILL	BROWN		7	30
56642	9600	11750	SOIL	TILL	ORANGE		1	78
56643	9600	11800	SOIL	TILL	BROWN		15	60
56644	9600	11850	SOIL	TILL	BROWN		1	30
56645	9600	11900	SOIL	TILL	BROWN		1	71
56636	9600	12000	SOIL	TILL	ORANGE	N/S AT 119+50 DUE TO LAKE.	7	102
56635	9600	12050	SOIL	TILL	BROWN		1	75
56634	9600	12100	SOIL	TILL	ORANGE		1	94
56633	9600	12150	SOIL	TILL	BROWN		1	40
56632	9600	12200	SOIL	TILL	BROWN		1	30
56631	9600	12250	SOIL	TILL	BROWN		1	30
56630	9600	12300	SOIL	TILL	BROWN		1	54
56629	9600	12350	SOIL	TILL	BROWN		7	69
56456	9800	11200	SOIL	TILL	BROWN		83	321
56457	9800	11250	SOIL	TILL	BROWN		6	234
56458	9800	11300	SOIL	TILL	BROWN		7	73
56459	9800	11350	SOIL	TILL	BROWN		2	63
56460	9800	11400	SOIL	TILL	BROWN		2	64
56461	9800	11450	SOIL	TILL	BROWN		1	73
56462	9800	11500	SOIL	TILL	BROWN	N/S AT 115+50.	1	122
56463	9800	11600	SOIL	TILL	GREY		16	181
56464	9800	11650	SOIL	TILL	BROWN		1	103
56465	9800	11700	SOIL	TILL	BROWN		3	43
56466	9800	11750	SOIL	TILL	BROWN		7	204
56467	9800	11800	SOIL	TILL	BROWN		3	33
56468	9800	11850	SOIL	TILL	BROWN	N/S AT 119+00;119+50;120+00 DUE TO SWAMP.	1	36
56469	9800	12050	SOIL	TILL	BROWN		1	49

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
56816	.8	32.5	10.0	107.6	700	20	11	1375	4.59	7.4	11	1	73	.28	.6	<.1	77	.93	.057	23	17	.62	267	.23	2	2.90	.03	.15	2	<.2	203	.3	<.2	8.7	<1
56817	.8	11.2	9.5	82.9	179	11	5	447	2.91	1.6	<5	2	33	.16	.6	<.1	67	.45	.037	13	28	.28	122	.30	6	1.38	.02	.09	<2	<.2	24	<.3	.2	5.7	1
56818	.7	10.0	7.6	57.7	33	10	8	267	3.06	4.4	<5	3	22	.07	.6	.1	76	.30	.058	9	20	.25	82	.19	5	1.14	.01	.05	<2	<.2	32	<.3	<.2	4.2	1
56819	.7	11.0	10.8	73.8	45	11	6	361	2.90	2.1	6	2	26	.11	.4	<.1	74	.35	.033	12	27	.28	100	.31	5	1.11	.02	.06	<2	<.2	26	<.3	<.2	5.2	1
56820	.6	7.3	6.3	68.2	104	9	6	170	2.79	1.3	<5	<1	32	.12	.5	.1	58	.54	.084	6	22	.28	319	.16	2	1.44	.02	.06	<2	<.2	39	<.3	<.2	5.3	7
56821	.8	9.5	7.7	72.5	72	11	8	254	3.20	3.9	<5	1	23	.07	.3	<.1	75	.32	.098	8	18	.31	130	.18	<2	1.63	.01	.06	<2	<.2	47	<.3	<.2	5.4	1
56822	.8	15.5	9.3	83.6	252	12	9	585	3.81	3.9	10	3	46	.13	1.0	.1	69	.64	.032	13	24	.43	178	.24	11	2.12	.02	.10	2	.2	54	<.3	.4	7.6	<1
56823	.6	11.5	8.0	79.2	220	11	9	1021	3.53	2.0	18	4	43	.12	.2	<.1	65	.60	.032	14	25	.35	355	.22	13	2.08	.02	.07	<2	<.2	83	<.3	<.2	5.6	<1
RE 56826	.7	7.9	7.1	65.6	58	11	8	347	3.13	2.7	<5	1	25	.07	.3	<.1	75	.39	.070	10	27	.29	300	.19	<2	1.64	.02	.05	<2	<.2	31	<.3	<.2	5.1	<1
56824	.7	9.1	8.2	87.0	48	15	9	291	2.99	3.4	<5	1	25	.07	.4	.2	64	.31	.109	7	18	.28	158	.18	<2	2.00	.01	.06	2	<.2	29	<.3	<.2	6.1	1
56825	.7	11.8	8.6	80.3	59	12	10	361	2.92	2.6	<5	1	47	.12	.2	.1	58	.67	.072	14	23	.32	207	.18	2	1.93	.02	.05	<2	<.2	86	<.3	<.2	5.9	<1
56826	.8	8.8	7.6	64.6	69	11	9	347	3.10	3.1	<5	2	25	.08	.4	<.1	74	.39	.069	9	30	.29	296	.18	3	1.61	.02	.05	<2	<.2	57	<.3	<.2	5.5	2
56827	.5	6.8	7.0	52.5	53	7	6	345	2.21	1.8	<5	1	22	.09	.3	.1	50	.30	.024	8	12	.24	124	.19	<2	1.09	.02	.04	<2	<.2	47	<.3	<.2	3.3	<1
56828	.5	20.3	8.1	59.0	204	11	7	526	3.50	4.7	<5	<1	45	.11	.7	<.1	62	.60	.026	17	12	.39	440	.23	<2	2.50	.03	.08	2	<.2	49	.5	<.2	8.9	5
56829	.5	13.9	8.0	49.5	94	10	8	391	3.61	3.2	<5	<1	50	.09	.4	.1	57	.67	.019	13	26	.44	314	.25	<2	1.87	.03	.07	<2	<.2	128	.3	<.2	6.1	2
56830	.7	9.5	8.2	50.7	61	5	4	176	2.34	3.2	<5	1	22	.07	.5	.1	60	.29	.022	7	11	.15	188	.17	4	.95	.01	.04	<2	<.2	15	<.3	<.2	3.9	2
56831	.8	7.4	7.4	92.1	31	8	7	542	2.56	4.2	<5	2	14	.09	.4	<.1	59	.19	.087	6	17	.18	184	.17	4	1.27	.01	.05	<2	<.2	20	<.3	<.2	4.8	<1
56832	.6	6.7	7.0	99.3	30	9	6	259	2.83	3.3	<5	2	20	.09	.5	<.1	66	.23	.111	7	15	.18	153	.18	4	1.45	.01	.04	<2	<.2	38	<.3	<.2	5.5	31
56833	.4	6.5	6.8	72.0	<30	8	5	222	2.60	2.8	<5	<1	31	.06	.4	<.1	59	.31	.055	8	12	.21	146	.16	<2	1.29	.01	.05	<2	<.2	35	<.3	<.2	3.5	2
56834	1.1	5.1	7.3	93.3	36	9	8	579	3.07	1.8	<5	<1	18	.19	.2	.1	81	.23	.084	6	20	.16	86	.24	<2	1.10	.01	.04	<2	<.2	23	<.3	<.2	5.4	2
56835	1.0	6.4	6.1	88.0	68	11	7	402	3.03	3.6	<5	2	25	.15	.2	.1	77	.29	.135	6	20	.20	81	.23	3	1.26	.01	.05	<2	<.2	33	<.3	<.2	6.4	4
56836	1.0	7.5	7.4	109.9	71	10	8	1074	2.85	2.1	<5	1	25	.15	.4	.1	64	.27	.212	7	21	.14	174	.19	<2	1.39	.01	.05	<2	<.2	15	<.3	<.2	5.4	<1
56837	.6	6.5	5.9	92.7	42	11	6	330	2.47	2.4	<5	1	24	.13	<.2	<.1	58	.27	.106	6	14	.19	71	.19	<2	1.27	.01	.05	<2	<.2	30	<.3	<.2	4.2	1
56838	.8	7.5	5.4	70.1	92	11	6	280	2.62	3.9	<5	<1	17	.11	.2	<.1	66	.23	.102	6	21	.21	68	.19	<2	1.34	.01	.05	<2	<.2	25	<.3	<.2	4.4	<1
56839	.8	7.9	7.4	77.6	60	12	7	331	2.82	3.5	<5	2	26	.13	.2	<.1	70	.35	.090	7	20	.25	93	.22	3	1.37	.01	.10	<2	<.2	12	<.3	<.2	5.7	2
56840	.7	9.4	10.0	86.4	318	10	7	261	2.84	4.5	<5	1	25	.15	.3	.1	68	.36	.056	10	17	.26	134	.19	3	1.55	.02	.06	<2	<.2	44	<.3	<.2	4.9	3
56841	.5	8.2	8.5	71.2	47	8	5	261	2.23	1.7	<5	<1	26	.10	<.2	.1	52	.36	.045	11	18	.27	94	.21	<2	1.19	.02	.05	<2	<.2	31	<.3	<.2	4.2	1
56842	.7	9.7	6.4	84.8	<30	13	8	281	3.02	2.8	<5	1	24	.12	.2	<.1	70	.30	.120	8	18	.29	188	.22	2	1.80	.02	.07	<2	<.2	28	<.3	<.2	5.5	1
56843	.8	8.5	11.0	123.5	<30	13	8	480	2.87	2.6	<5	3	24	.18	<.2	<.1	64	.28	.070	10	20	.28	192	.22	2	2.27	.01	.07	<2	<.2	24	<.3	<.2	6.8	1
56844	.8	8.2	11.1	71.7	<30	10	6	446	2.76	2.0	<5	1	23	.17	<.2	.1	69	.27	.034	9	16	.26	135	.34	<2	1.42	.02	.05	<2	<.2	28	<.3	<.2	5.7	<1
56845	1.4	13.4	10.3	89.5	<30	14	8	385	3.40	5.3	<5	1	21	.25	.2	.2	82	.27	.060	10	20	.32	232	.33	<2	2.37	.01	.06	<2	<.2	32	<.3	<.2	8.4	<1
56846	.6	9.2	11.2	64.9	<30	9	4	322	2.29	2.3	<5	1	33	.16	<.2	.1	56	.38	.035	12	16	.24	96	.33	<2	1.19	.02	.05	<2	<.2	24	<.3	<.2	5.9	2
56847	.8	9.5	8.6	60.3	<30	9	5	439	2.67	2.2	<5	1	35	.12	<.2	<.1	67	.43	.037	14	19	.25	96	.33	<2	1.12	.02	.06	<2	<.2	15	<.3	<.2	5.1	<1
56848	.7	9.6	5.8	52.6	47	10	7	397	3.10	3.6	<5	2	27	.08	.3	<.1	77	.39	.056	10	19	.29	75	.32	<2	1.06	.03	.07	<2	<.2	22	<.3	<.2	5.1	<1
STANDARD	25.0	119.7	95.0	281.4	1850	34	16	1085	4.33	71.7	23	19	57	2.29	9.4	21.9	75	.79	.094	18	62	1.14	260	.16	28	2.48	.07	.76	19	2.1	462	.6	1.7	6.8	49

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
56849	.7	15.6	7.4	69.6	129	11	7	451	3.03	3.7	<5	1	34	.15	.2	<.1	69	.50	.043	15	16	.37	99	.22	3	1.37	.03	.09	<2	<.2	61	<.3	<.2	5.3	1
56850	.7	7.6	7.5	151.6	87	11	7	343	3.04	2.1	<5	1	26	.22	.3	<.1	61	.39	.142	7	12	.31	199	.20	2	1.59	.02	.10	<2	<.2	29	<.3	<.2	7.1	1
56851	1.0	9.6	8.6	142.7	156	11	8	643	3.21	2.2	<5	1	23	.33	.3	<.1	63	.33	.186	9	24	.31	292	.16	<2	1.54	.02	.11	<2	<.2	30	<.3	<.2	7.0	<1
56852	1.2	11.8	8.2	94.0	266	10	7	643	3.27	1.9	<5	<1	22	.26	.3	.1	75	.33	.049	9	18	.33	219	.29	<2	1.40	.02	.08	2	<.2	28	<.3	<.2	7.1	20
56853	.9	56.0	9.5	149.9	350	28	14	1337	5.80	7.3	13	2	61	.29	.4	<.1	71	.85	.093	38	33	.75	498	.13	2	4.25	.02	.30	2	<.2	<10	<.3	<.2	12.2	<1
56854	.7	11.1	7.2	79.6	148	10	7	412	2.98	1.8	7	1	30	.20	<.2	.1	67	.49	.064	9	26	.29	272	.21	4	1.41	.02	.08	<2	<.2	58	<.3	<.2	5.6	2
56855	1.0	12.7	6.7	57.5	86	11	9	428	3.33	3.1	<5	1	26	.15	<.2	.1	75	.40	.075	13	17	.33	194	.22	<2	1.36	.02	.10	<2	<.2	60	<.3	<.2	5.5	1
56856	.7	17.9	7.7	79.7	178	12	8	494	3.78	3.0	<5	1	37	.24	.3	.1	82	.75	.038	15	16	.46	247	.22	<2	1.97	.03	.08	<2	<.2	44	<.3	<.2	7.0	1
56857	.5	13.4	8.2	109.5	<30	7	8	333	3.21	1.4	<5	1	38	.22	<.2	.1	48	.80	.025	10	11	.47	163	.21	<2	1.55	.04	.08	<2	<.2	17	<.3	<.2	6.4	1
56858	1.4	10.3	9.1	69.3	69	14	7	265	3.61	4.5	<5	3	21	.15	.4	.1	89	.28	.122	9	23	.33	59	.31	7	1.79	.02	.07	<2	<.2	20	<.3	<.2	9.5	1
56901	.9	6.8	8.1	94.6	78	9	8	787	2.88	2.1	<5	1	21	.14	.6	.1	64	.26	.125	7	16	.22	165	.19	3	1.43	.02	.06	<2	<.2	57	<.3	<.2	7.2	1
56902	.8	8.0	7.4	76.4	98	9	8	1269	3.13	1.8	<5	1	44	.20	.3	.1	62	.64	.042	12	30	.34	641	.20	3	1.74	.02	.15	<2	<.2	27	<.3	.2	6.5	1
56903	1.0	7.1	7.8	91.0	<30	8	8	788	2.88	2.2	<5	<1	29	.21	.4	.1	64	.44	.074	7	23	.26	408	.16	<2	1.20	.01	.09	<2	<.2	36	<.3	<.2	5.6	1
56904	1.4	14.8	12.3	197.6	36	12	17	2505	4.73	10.5	<5	2	37	.56	.9	.1	88	.70	.098	17	49	.34	1086	.16	4	1.95	.01	.20	<2	<.2	44	<.3	<.2	6.7	1
56905	.7	7.4	6.1	76.6	<30	9	7	347	2.72	1.7	<5	1	19	.08	.2	.1	60	.25	.048	6	16	.27	220	.21	3	1.34	.02	.06	<2	<.2	66	<.3	<.2	5.1	1
56906	.9	7.7	6.4	74.4	<30	9	7	422	2.94	3.6	<5	<1	32	.13	.2	<.1	75	.43	.043	8	16	.31	270	.21	<2	1.41	.02	.07	<2	<.2	51	<.3	<.2	5.5	1
56907	1.2	15.6	7.2	142.6	35	12	12	523	3.85	6.5	<5	1	34	.19	.3	.1	102	.39	.119	9	35	.30	754	.13	<2	1.69	.01	.06	<2	<.2	39	<.3	<.2	6.6	<1
56908	.9	7.0	7.0	109.7	<30	9	8	658	2.84	2.7	7	2	20	.13	.5	.1	73	.27	.053	7	29	.26	285	.19	6	1.21	.01	.05	<2	<.2	10	<.3	<.2	6.2	<1
56909	1.4	11.8	8.7	93.3	127	9	8	1025	3.48	3.2	<5	2	24	.41	.7	.1	94	.36	.024	6	35	.21	554	.30	5	.90	.01	.07	<2	<.2	35	<.3	<.2	6.4	<1
56910	1.3	8.1	9.5	277.3	57	6	11	1530	3.53	5.1	<5	2	24	.39	.8	<.1	58	.34	.079	9	24	.23	637	.11	3	1.25	.01	.09	<2	<.2	29	<.3	<.2	5.2	<1
56911	1.0	7.0	7.3	143.6	<30	12	9	445	3.34	5.1	<5	<1	18	.10	.4	.1	81	.24	.090	6	18	.27	157	.21	<2	1.59	.01	.05	<2	<.2	<10	<.3	<.2	6.8	2
56912	.8	8.9	6.9	59.7	51	11	7	228	2.89	5.5	<5	1	25	.08	.5	.1	73	.32	.087	7	19	.25	113	.20	2	1.58	.02	.04	<2	<.2	29	<.3	<.2	6.4	<1
56913	.8	8.1	7.0	67.0	31	12	8	245	3.19	5.8	<5	3	19	.08	.4	<.1	79	.25	.098	7	21	.25	135	.21	5	1.74	.02	.03	<2	<.2	43	<.3	<.2	7.0	<1
56914	1.3	9.4	7.4	119.9	56	10	9	258	3.56	3.8	<5	1	22	.18	.4	.1	87	.27	.163	7	21	.32	136	.19	477	1.56	.07	.06	<2	<.2	50	<.3	<.2	8.7	1
RE 56916	.6	10.4	9.0	103.9	108	9	7	602	2.71	2.4	<5	<1	37	.20	.4	.1	60	.48	.034	10	23	.37	160	.21	3	1.49	.03	.06	<2	<.2	28	<.3	<.2	5.4	<1
56915	.7	6.5	8.5	85.2	59	7	5	369	2.51	2.2	<5	<1	23	.11	.5	.1	60	.28	.036	7	22	.23	109	.24	<2	1.06	.02	.03	<2	<.2	11	<.3	.2	5.6	<1
56916	.7	10.0	9.1	105.0	98	9	7	610	2.80	2.3	10	1	36	.20	.4	.1	63	.48	.034	11	20	.38	163	.21	4	1.49	.03	.06	<2	<.2	39	<.3	<.2	5.6	<1
56917	.7	8.5	8.5	79.1	111	9	8	620	2.65	4.2	18	3	47	.19	.6	.1	61	.64	.026	10	12	.25	135	.19	7	1.50	.02	.04	2	<.2	24	<.3	<.2	6.6	<1
56918	.7	5.8	9.8	121.2	69	5	4	195	2.39	2.2	<5	1	41	.18	.5	.1	57	.40	.018	6	11	.21	107	.20	2	.82	.02	.04	<2	<.2	20	<.3	<.2	4.8	1
56919	.9	12.5	9.2	56.0	75	8	8	1309	2.77	1.9	<5	<1	48	.37	.4	<.1	59	.56	.018	9	14	.32	107	.21	<2	1.49	.02	.05	<2	<.2	18	<.3	.2	5.3	<1
56920	.5	5.9	7.8	90.0	93	5	5	242	3.12	2.5	<5	1	10	.22	1.1	<.1	75	.09	.031	24	18	.07	65	.13	3	.75	.01	.05	2	<.2	41	<.3	.3	5.0	2
56921	1.3	59.3	9.9	99.5	714	21	11	1678	4.31	10.1	28	<1	108	.71	.4	<.1	65	1.61	.037	62	28	.59	228	.20	8	3.14	.03	.13	<2	<.2	101	<.3	<.2	7.7	2
56922	.2	10.7	7.0	55.8	91	15	8	321	3.35	9.1	<5	2	27	.11	.4	.1	88	.36	.090	8	25	.36	83	.31	2	1.48	.02	.04	2	<.2	17	<.3	<.2	6.2	2
56923	.6	5.3	9.5	63.4	86	6	4	170	1.90	3.6	<5	<1	19	.08	.4	.1	45	.25	.069	7	16	.23	79	.21	<2	1.45	.02	.04	<2	<.2	13	<.3	<.2	6.5	1
STANDARD	25.2	120.2	101.0	272.9	1856	34	16	1073	4.29	74.2	24	19	57	2.30	9.4	21.5	73	.78	.101	18	53	1.24	260	.16	29	2.44	.07	.75	19	2.1	445	.6	1.9	6.8	52

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
56924	.4	6.0	7.4	38.6	<30	7	2	177	1.89	2.2	7	<1	24	.07	.2	.1	45	.30	.046	7	13	.24	83	.25	<2	1.06	.02	.03	<2	<.2	<10	<.3	<.2	3.4	2
56925	.5	6.8	10.5	73.5	31	9	4	271	2.42	2.0	12	1	38	.12	<.2	<.1	52	.52	.030	9	17	.26	124	.21	3	1.46	.02	.04	<2	<.2	<10	<.3	<.2	4.1	1
56926	1.0	7.4	7.8	81.2	66	10	5	268	2.38	2.7	13	1	36	.15	<.2	<.1	53	.50	.080	7	17	.24	116	.19	5	1.59	.01	.05	<2	<.2	<10	<.3	<.2	4.5	1
56927	.8	6.1	6.4	80.9	48	9	6	582	2.74	2.5	<5	1	26	.18	.2	<.1	66	.30	.108	6	21	.21	153	.19	4	1.18	.01	.05	<2	<.2	13	<.3	<.2	3.6	3
56928	.8	4.7	7.4	53.0	80	5	5	266	2.28	1.2	<5	1	20	.15	.2	.1	53	.21	.052	5	12	.18	117	.18	<2	.95	.01	.05	<2	<.2	28	<.3	.2	3.8	<1
56929	.8	5.7	7.3	108.4	67	9	7	266	2.92	2.3	<5	2	23	.16	.4	<.1	69	.26	.081	7	16	.28	135	.19	3	1.29	.01	.06	<2	<.2	29	<.3	.2	4.1	1
56930	.8	7.8	6.9	69.7	52	8	7	486	2.97	3.2	12	2	18	.08	.4	<.1	73	.28	.112	7	23	.24	111	.20	3	1.12	.02	.04	<2	<.2	11	<.3	.3	3.6	<1
56931	.8	6.6	6.8	78.9	<30	11	6	453	3.00	1.9	13	2	32	.13	.2	<.1	71	.40	.092	8	23	.26	202	.24	3	1.37	.02	.07	<2	<.2	21	<.3	<.2	4.0	<1
56932	.6	7.4	6.7	65.8	37	10	5	335	2.68	1.8	<5	<1	26	.09	.2	<.1	66	.35	.040	9	18	.30	115	.24	<2	1.18	.02	.05	<2	<.2	22	<.3	<.2	2.9	<1
56933	.6	7.6	6.9	66.4	40	9	6	556	2.72	2.5	<5	<1	27	.11	.5	<.1	66	.35	.043	10	19	.28	142	.24	<2	1.14	.02	.08	<2	<.2	35	<.3	<.2	3.8	2
56934	.8	8.4	10.7	131.6	<30	14	11	1048	3.35	6.2	<5	2	25	.20	.5	<.1	77	.31	.058	14	24	.30	198	.18	3	1.89	.01	.12	<2	<.2	39	<.3	<.2	4.8	5
56935	.7	9.9	7.7	67.2	<30	10	7	315	3.09	3.9	11	3	26	.09	.5	<.1	73	.31	.129	8	21	.29	118	.19	6	1.35	.02	.07	<2	<.2	19	<.3	<.2	3.9	1
56936	.8	4.6	12.2	178.2	<30	5	7	1012	5.20	8.8	<5	2	20	.21	2.0	<.1	65	.30	.052	13	20	.16	434	.11	2	1.09	.01	.15	<2	<.2	16	<.3	.2	2.9	<1
RE 56936	.8	4.5	12.3	180.7	<30	5	8	1022	5.21	8.7	<5	1	20	.19	1.9	<.1	65	.30	.051	13	22	.16	464	.11	<2	1.10	.01	.15	<2	<.2	16	<.3	<.2	3.1	1
56937	.8	9.1	9.0	93.3	<30	10	5	764	3.12	3.7	<5	1	32	.10	.3	<.1	71	.40	.029	16	23	.30	180	.30	<2	1.51	.02	.07	<2	<.2	<10	<.3	.2	4.3	2
56938	.9	23.5	9.2	127.9	81	20	15	1901	4.68	9.4	<5	3	53	.16	.6	.1	83	.81	.089	26	36	.63	581	.15	3	4.04	.02	.17	<2	<.2	46	<.3	.2	8.4	<1
56939	1.1	7.8	8.2	97.2	<30	14	8	632	3.07	2.6	<5	1	23	.07	.2	<.1	77	.27	.056	7	21	.30	139	.26	6	1.81	.01	.05	<2	<.2	<10	<.3	<.2	5.0	6
56940	1.2	77.9	20.9	179.0	169	5	14	984	4.75	12.6	<5	1	14	.36	1.8	<.1	78	.21	.042	11	24	.10	856	.04	<2	.95	.01	.06	<2	<.2	32	<.3	<.2	1.7	1
56941	.7	11.2	7.6	108.9	<30	14	8	309	3.00	3.9	<5	<1	19	.08	.3	<.1	65	.25	.084	6	21	.31	274	.20	<2	2.10	.01	.05	<2	<.2	16	<.3	<.2	5.9	<1
56942	1.1	14.5	9.8	147.9	110	9	9	851	3.09	3.2	<5	1	15	.13	.5	<.1	68	.22	.059	8	17	.26	192	.19	3	1.31	.01	.05	<2	<.2	13	<.3	<.2	5.4	2
56943	.7	8.0	6.7	72.3	32	9	6	301	2.60	3.7	12	1	17	.07	.3	<.1	62	.22	.097	6	18	.23	138	.18	<2	1.23	.01	.04	<2	<.2	15	<.3	<.2	3.5	1
56944	.7	7.9	5.6	130.3	<30	9	7	572	2.94	2.4	<5	<1	17	.12	.2	.1	70	.21	.126	6	16	.19	116	.20	<2	1.29	.01	.05	<2	<.2	<10	<.3	<.2	5.0	1
56945	.7	7.0	5.6	69.8	30	10	6	214	2.95	3.5	<5	<1	16	.08	.2	<.1	73	.21	.105	6	13	.19	85	.20	<2	1.42	.01	.03	<2	<.2	<10	<.3	<.2	4.2	6
56946	.7	7.8	5.5	110.8	47	11	8	359	3.18	4.1	12	2	26	.10	.5	<.1	76	.31	.206	6	19	.22	133	.20	6	1.52	.01	.04	<2	<.2	14	<.3	<.2	5.4	<1
56947	.4	7.5	6.8	48.8	<30	7	3	322	1.89	2.0	7	1	31	.08	.2	<.1	46	.36	.033	9	17	.23	137	.22	<2	1.18	.02	.03	<2	<.2	12	<.3	<.2	3.8	<1
56948	.5	6.0	7.4	50.8	39	5	3	247	1.99	1.9	<5	<1	30	.07	<.2	<.1	46	.36	.028	6	8	.23	94	.22	<2	.95	.02	.04	<2	<.2	31	<.3	<.2	3.3	<1
56949	.5	7.9	9.3	64.1	40	5	5	271	2.82	2.5	<5	<1	35	.13	.6	<.1	49	.41	.012	6	9	.19	92	.17	<2	.77	.02	.04	<2	<.2	<10	<.3	<.2	2.3	<1
56950	.8	6.4	6.0	157.7	<30	9	8	952	3.02	2.9	<5	1	38	.27	.3	<.1	76	.39	.074	6	21	.25	188	.20	5	1.13	.01	.06	<2	<.2	29	<.3	<.2	5.0	3
56951	.7	6.2	8.3	137.6	164	6	12	2021	3.37	5.0	<5	1	17	.18	.7	.1	73	.23	.053	10	11	.18	178	.07	<2	1.38	.01	.09	<2	<.2	45	<.3	<.2	4.7	2
56952	.9	6.5	6.2	54.4	<30	9	6	251	2.93	3.2	<5	<1	19	.06	.3	<.1	76	.24	.033	5	17	.23	107	.22	<2	1.19	.01	.04	<2	<.2	12	<.3	<.2	4.6	3
56953	.7	7.8	5.4	65.2	<30	11	7	314	3.07	2.8	<5	<1	21	.06	.3	<.1	75	.29	.055	7	13	.27	180	.22	<2	1.38	.01	.04	<2	<.2	<10	<.3	<.2	4.7	1
59787	.7	6.1	8.0	137.0	48	7	6	528	2.60	1.6	5	1	26	.21	.2	<.1	60	.34	.076	7	20	.23	202	.18	3	1.10	.01	.07	<2	<.2	60	<.3	<.2	4.3	<1
59788	1.0	19.6	15.0	174.8	115	14	12	1256	3.68	5.0	<5	2	29	.23	.5	.1	81	.42	.085	12	28	.40	422	.16	4	1.87	.01	.11	<2	<.2	<10	<.3	<.2	5.9	<1
59789	1.8	21.6	17.2	241.0	231	13	11	1439	4.03	6.0	<5	<1	28	.46	.5	<.1	80	.39	.136	7	<1	.38	434	.17	2	1.84	.01	.09	<2	<.2	19	<.3	<.2	5.8	1
STANDARD	25.3	120.3	97.6	269.2	1873	33	15	1055	4.19	71.3	22	18	52	2.19	9.6	21.8	73	.79	.100	17	56	1.24	260	.15	27	2.49	.10	.73	20	2.3	441	.6	2.3	7.4	53

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	Ca ppm	Au+ ppb
59790	2.0	84.0	16.4	116.4	242	15	12	1298	4.19	15.8	7	3	52	.43	2.7	.1	82	.63	.055	16	43	.42	752	.13	9	1.33	.02	.15	<2	<.2	32	<.3	.3	5.1	2
59791	1.9	10.8	11.5	175.5	68	17	11	1056	4.09	7.2	<5	2	15	.18	.4	<.1	103	.22	.222	7	33	.28	185	.33	4	1.76	.02	.05	<2	<.2	11	<.3	<.2	8.9	4
59792	.7	15.2	8.6	44.2	114	11	5	408	2.90	6.6	5	1	37	.17	.4	.1	68	.54	.037	20	19	.35	125	.34	<2	1.14	.04	.05	<2	<.2	17	<.3	<.2	5.0	1
RE 59792	.7	15.7	8.3	46.5	114	12	5	433	2.99	7.0	<5	1	38	.17	.2	.1	69	.56	.037	20	22	.37	131	.34	<2	1.18	.04	.05	<2	<.2	37	<.3	<.2	4.7	2

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-17

GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE

Phelps Dodge Corp. PROJECT 252 File # 96-2537 Page 1

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
56069	4.7	183.3	490.9	877.2	99999	3	1	1341	.69	72.1	<5	<1	7	8.64	29.1	<.1	5	.74	.002	1	11	.04	14	<.01	<2	.04	<.01	.03	3	.2	2367	3.1	.2	<.5	860
56070	2.8	15.4	101.9	162.5	51429	7	1	2568	.42	11.4	<5	<1	5	.78	5.0	<.1	3	.71	.002	<1	8	<.01	180	<.01	<2	.02	.01	.01	<2	<.2	90	.6	<.2	<.5	70
56071	.4	2.5	2.6	6.0	673	1	<1	34	.07	1.2	<5	<1	12	.03	.3	.1	1	.01	<.002	<1	1	<.01	26	<.01	<2	.06	<.01	<.01	<2	<.2	<10	<.3	<.2	<.5	3
56072	3.6	29.4	174.9	373.8	61655	8	1	2108	.35	13.8	<5	<1	17	1.87	7.2	<.1	1	4.03	<.002	1	11	.01	51	<.01	<2	.04	<.01	.02	<2	<.2	117	1.6	<.2	<.5	303
56725	4.5	11.6	53.7	60.1	30166	10	1	1767	.43	3.8	<5	<1	21	.72	3.5	<.1	1	2.36	<.002	2	10	.14	1	<.01	<2	.01	<.01	.01	<2	<.2	48	.3	<.2	<.5	129
56726	1.5	7.4	29.6	64.2	23816	3	<1	2492	.33	2.5	<5	<1	48	.55	2.1	<.1	2	6.44	<.002	2	16	.12	29	<.01	2	.02	<.01	.01	3	<.2	33	.6	<.2	<.5	151
56727	1.5	14.7	63.6	66.7	46773	3	<1	1548	.31	5.2	<5	<1	16	.71	3.9	<.1	1	2.15	<.002	1	13	.06	20	<.01	<2	.02	<.01	.01	3	<.2	91	1.1	<.2	<.5	435
56728	3.8	27.2	74.1	122.1	44802	8	<1	1461	.40	8.3	<5	<1	17	1.45	6.5	<.1	1	2.04	<.002	1	11	.10	20	<.01	<2	.02	<.01	.01	<2	<.2	92	1.3	<.2	<.5	227
56729	1.3	50.9	161.4	280.9	42496	3	1	1917	.49	15.1	<5	<1	39	2.26	7.0	<.1	1	5.21	<.002	2	18	.53	10	<.01	<2	.02	<.01	.02	<2	<.2	153	1.0	<.2	<.5	267
56730	3.0	123.4	802.9	1093.0	99999	7	1	2025	.48	55.4	5	<1	36	5.59	16.6	.1	2	4.45	<.002	1	13	.31	6	<.01	2	.04	<.01	.03	<2	<.2	738	1.7	.2	.6	1340
56731	1.4	51.4	288.5	640.1	81119	3	1	1529	.34	15.6	<5	<1	18	4.16	17.8	<.1	2	2.55	<.002	1	17	.08	14	<.01	<2	.02	<.01	.02	3	<.2	426	1.0	<.2	<.5	456
56732	2.7	150.2	728.8	1412.6	98271	8	1	2041	.56	41.3	<5	<1	40	8.31	15.7	<.1	1	5.33	<.002	1	10	.55	5	<.01	<2	.01	<.01	.01	<2	<.2	628	1.4	.2	<.5	743
56733	1.1	26.3	315.3	392.1	46192	3	2	2942	.82	10.2	<5	<1	68	5.62	7.5	.1	4	7.13	<.002	4	53	.68	1722	<.01	<2	.02	<.01	.02	<2	<.2	190	1.2	<.2	<.5	406
56734	1.3	18.6	30.3	91.8	17656	3	1	2659	.51	5.2	<5	<1	123	1.23	5.2	<.1	2	18.74	<.002	4	7	.17	10	<.01	<2	.01	<.01	.01	<2	<.2	42	.5	.2	<.5	183
56735	.7	4.9	14.8	41.9	7626	1	1	4272	.36	6.8	<5	<1	149	.47	1.8	.1	<1	22.88	<.002	3	5	.21	18	<.01	<2	.02	<.01	.01	<2	<.2	16	.8	<.2	<.5	223
56736	1.0	4.0	9.3	19.8	6615	2	1	2654	.29	12.0	<5	<1	117	.30	1.3	.1	1	22.09	.007	4	2	.06	14	<.01	<2	.03	<.01	.02	<2	<.2	14	.5	.3	<.5	179
56737	.5	3.5	34.1	164.7	5486	1	1	2337	.33	12.0	<5	<1	118	1.11	.8	<.1	1	20.30	.006	3	6	.11	30	<.01	<2	.03	<.01	.02	<2	<.2	28	.4	<.2	<.5	172
56738	1.0	2.7	10.3	20.3	5176	3	1	2536	.22	5.7	<5	<1	161	.26	.6	<.1	1	25.88	<.002	2	5	.05	11	<.01	2	.02	<.01	.01	<2	<.2	<10	.6	<.2	<.5	97
56739	.4	3.9	69.7	64.2	3691	1	1	2500	.61	4.5	5	1	140	.71	.6	<.1	1	25.46	<.002	4	7	.27	21	<.01	<2	.04	<.01	.05	<2	<.2	21	<.3	<.2	<.5	68
56740	1.1	5.0	50.0	116.4	5272	2	1	2600	.29	9.8	<5	<1	137	.96	.9	<.1	1	19.76	.004	2	3	.02	29	<.01	<2	.04	<.01	.04	<2	<.2	51	.3	.2	<.5	61
56741	.8	3.3	13.3	77.1	1230	2	2	1009	.98	1.9	<5	1	25	.69	.7	<.1	5	3.36	.018	6	7	.03	53	<.01	<2	.14	.01	.11	<2	<.2	<10	<.3	<.2	<.5	20
56742	2.1	11.1	57.8	135.4	10288	5	1	1661	.42	14.3	5	1	18	.97	1.8	.1	1	2.29	.003	2	7	.02	59	<.01	<2	.07	<.01	.06	<2	<.2	43	.3	.2	<.5	82
RE 56742	2.1	11.6	58.2	134.2	10600	5	1	1669	.43	14.9	5	2	18	1.02	1.9	<.1	1	2.26	.002	2	9	.02	60	<.01	3	.06	<.01	.06	<2	<.2	51	.5	.2	<.5	102
56743	2.2	13.7	111.3	171.1	11878	6	1	1097	.38	12.2	<5	<1	9	1.31	3.5	.1	1	1.29	<.002	1	8	.01	50	<.01	<2	.05	<.01	.05	<2	<.2	90	.3	<.2	<.5	42
56744	1.3	12.0	74.9	147.2	19665	3	1	625	.40	13.6	<5	<1	7	1.02	2.1	.1	1	.65	.005	1	13	.01	50	<.01	<2	.05	<.01	.05	2	<.2	63	.7	.2	<.5	122
56745	1.0	14.6	119.9	259.2	16311	3	1	1165	.41	16.4	5	1	14	1.59	1.6	.1	<1	1.67	.003	1	11	.02	69	<.01	<2	.05	<.01	.05	2	<.2	152	.7	.2	<.5	206
56746	2.6	12.4	93.9	212.1	16780	7	1	1297	.46	17.7	7	1	15	1.66	1.5	<.1	1	1.67	.003	2	12	.04	243	<.01	3	.05	<.01	.06	<2	<.2	128	.3	<.2	<.5	101
56747	1.4	11.4	143.4	232.8	10933	3	2	1650	.66	8.1	<5	1	64	2.62	2.3	<.1	2	1.75	.005	3	57	.29	1938	<.01	<2	.07	<.01	.06	3	<.2	55	.4	.2	<.5	82
56748	3.2	30.6	257.1	576.2	22034	7	2	1657	.51	15.1	<5	<1	38	6.48	4.3	<.1	1	.98	.005	1	47	.10	1853	<.01	<2	.04	<.01	.03	<2	<.2	284	.8	<.2	<.5	162
56749	1.8	14.2	136.7	346.2	24313	3	2	1363	.44	7.2	<5	<1	40	3.65	2.1	<.1	1	1.12	.002	1	57	.18	2007	<.01	<2	.03	<.01	.02	2	<.2	200	.7	.2	<.5	279
56750	3.4	28.4	296.8	643.5	32485	7	1	1289	.31	10.8	6	<1	11	3.69	5.4	<.1	2	.82	<.002	1	10	.05	46	<.01	<2	.01	<.01	.01	2	<.2	415	.9	<.2	<.5	119
56751	1.1	12.3	17.5	31.5	2645	3	2	2312	.71	31.3	<5	1	22	.34	.8	.1	3	2.95	<.002	4	10	.03	51	<.01	<2	.07	<.01	.07	2	<.2	36	<.3	.2	<.5	63
56752	2.8	17.5	42.6	37.8	18787	7	2	3246	.75	34.8	<5	1	37	.43	1.0	<.1	3	5.84	<.002	4	10	.05	40	<.01	2	.08	<.01	.08	<2	<.2	29	.6	.2	<.5	223
STANDARD	25.5	117.9	89.2	276.3	1818	34	17	1096	4.37	77.2	20	18	59	2.19	9.1	21.9	74	.79	.097	16	56	1.15	233	.13	29	2.28	.07	.75	15	2.5	453	.5	2.4	6.4	533

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 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: ROCK AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 28 1996 **DATE REPORT MAILED:** July 12/96 **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
56753	1.2	16.6	42.0	48.0	8301	4	3	1966	.77	38.2	<5	2	24	.51	.9	.1	3	3.38	.003	5	10	.01	45	<.01	2	.09	<.01	.09	5	<.2	57	.6	.2	<.5	146
56754	3.7	38.6	204.5	476.4	4686	8	3	1327	1.04	53.9	<5	3	4	2.23	3.0	.2	5	.09	.010	5	9	<.01	71	<.01	2	.11	<.01	.10	<2	<.2	82	.5	<.2	<.5	33
56755	2.0	27.5	175.1	483.7	4696	4	3	1258	1.15	65.2	<5	3	4	1.63	2.3	.2	4	.14	.012	5	12	<.01	76	<.01	3	.13	<.01	.12	5	<.2	52	.7	<.2	<.5	24
59793	4.6	5.3	6.5	7.4	133	4	1	166	.34	1.4	<5	1	36	.04	.5	<.1	1	.01	<.002	2	67	<.01	2236	<.01	3	.01	<.01	.01	5	<.2	80	<.3	<.2	<.5	3
59794	4.3	17.5	71.3	137.5	3561	8	2	2044	.92	4.7	<5	<1	19	1.13	3.5	.1	2	2.02	<.002	1	11	.49	74	<.01	<2	.03	<.01	.01	145	<.2	20	<.3	<.2	<.5	62
59795	.9	2.2	1.6	5.0	33	1	1	64	.07	1.9	<5	<1	23	.03	.2	<.1	1	.02	<.002	<1	11	.01	316	<.01	<2	.08	<.01	<.01	<2	<.2	<10	<.3	<.2	<.5	1
59796	3.0	14.6	4.9	7.6	192	7	1	128	1.92	10.5	<5	1	8	.04	3.5	.2	2	.02	.004	1	19	.01	435	<.01	2	.06	<.01	.01	<2	<.2	<10	<.3	.2	<.5	4
59797	3.0	1822.9	52.8	148.5	26207	6	3	678	.73	547.8	<5	2	26	4.05	180.2	<.1	2	.18	.014	5	40	.01	1415	<.01	4	.15	<.01	.12	<2	<.2	745	.5	1.3	<.5	18
59798	1.0	20.1	6.9	17.3	484	3	1	525	.48	7.6	<5	1	31	.15	2.8	.1	2	3.43	<.002	4	8	.02	47	<.01	2	.10	.01	.06	3	<.2	49	<.3	<.2	<.5	14
59799	2.7	27.7	12.8	65.4	880	7	3	612	1.01	8.6	<5	1	6	.21	2.0	.2	4	.07	.023	13	9	.02	55	<.01	2	.18	<.01	.15	<2	<.2	76	.4	<.2	.5	16
59800	1.3	9.0	45.7	62.6	847	3	2	3489	.48	23.3	5	<1	75	.94	.8	.1	2	17.23	<.002	4	3	.01	32	<.01	3	.08	<.01	.05	3	<.2	72	.3	<.2	<.5	33
59801	2.6	11.9	7.3	22.8	253	7	2	510	1.03	2.7	5	3	5	.17	.9	.1	12	.72	.015	9	12	.02	55	<.01	3	.19	<.01	.17	<2	<.2	30	<.3	<.2	<.5	1
59802	1.1	25.2	14.5	24.6	825	3	2	241	.60	19.3	7	2	5	.18	2.3	.2	2	.27	.011	8	13	.01	139	<.01	<2	.12	<.01	.12	4	<.2	<10	<.3	.2	<.5	17
RE 59802	1.3	29.6	15.1	25.2	956	4	2	251	.62	20.7	<5	2	5	.19	2.4	.1	2	.28	.011	8	14	<.01	145	<.01	<2	.11	<.01	.12	4	<.2	<10	<.3	<.2	<.5	17
59803	2.7	10.7	18.7	63.3	481	7	4	898	1.11	29.3	<5	1	5	.55	1.1	.2	5	.12	.034	7	15	.01	288	<.01	<2	.12	<.01	.12	<2	<.2	<10	<.3	.2	<.5	<1
59804	2.2	154.7	2406.0	3443.4	5145	6	6	2411	1.78	23.7	<5	<1	15	28.86	3.1	1.2	8	2.34	.042	3	13	.17	96	<.01	3	.05	<.01	.03	6	1.0	599	1.7	1.0	2.0	28
59805	2.6	11.0	22.4	92.9	169	6	2	882	1.07	3.3	<5	2	4	.57	.6	.1	7	.18	.016	10	11	.02	97	<.01	2	.20	<.01	.17	<2	<.2	16	<.3	.2	<.5	1
59818	1.3	14.6	16.2	115.0	117	3	14	1333	4.49	7.3	5	2	11	.25	1.3	.1	40	.60	.112	11	10	.17	143	.01	5	.27	.01	.17	3	<.2	1008	<.3	<.2	.5	9
59819	2.4	12.9	4.6	106.3	148	2	13	3045	4.52	25.2	<5	<1	45	.15	1.1	.2	15	5.30	.111	10	11	1.90	342	<.01	7	.36	.01	.23	<2	<.2	4263	<.3	.2	.6	10
59820	.6	14.2	5.1	72.4	105	3	8	1203	3.32	4.4	<5	<1	47	.17	.5	.1	22	2.66	.081	13	5	.58	82	<.01	<2	.37	.03	.16	<2	<.2	2403	<.3	.2	.8	2
59828	2.4	7.4	16.0	15.7	14942	6	1	1859	.29	2.9	<5	<1	17	.19	1.1	.1	2	4.73	<.002	2	12	.02	33	<.01	<2	.04	<.01	.02	<2	<.2	52	1.0	<.2	<.5	262
59829	1.7	112.5	608.0	602.6	99999	3	1	4666	.47	27.4	<5	<1	33	1.05	3.5	.6	2	7.33	.002	2	9	.01	58	<.01	3	.05	<.01	.04	4	<.2	657	5.2	.4	<.5	1592
59830	2.3	40.8	42.8	63.3	30406	6	1	4362	.31	14.6	<5	<1	24	.65	4.6	.2	2	7.24	<.002	1	4	.01	78	<.01	9	.04	<.01	.02	<2	<.2	51	1.1	<.2	<.5	131
59831	1.3	33.8	366.3	315.9	26977	3	1	1875	.38	18.3	<5	<1	14	1.27	2.8	.1	1	3.72	<.002	1	10	.01	83	<.01	<2	.04	<.01	.02	4	<.2	70	.9	.2	<.5	194
59832	5.6	926.2	6233.0	181.6	18985	8	1	200	.71	13.9	<5	<1	19	2.39	3.1	<.1	5	.17	.005	1	9	.04	39	<.01	<2	.14	<.01	.03	<2	1.1	4588	11.0	6.1	2.6	21
STANDARD D2/HG-300/AU-R	24.5	114.6	86.7	261.2	1840	32	18	1082	4.59	77.1	17	18	52	2.27	9.3	22.9	78	.66	.100	18	59	1.20	255	.13	30	2.55	.06	.75	20	2.2	460	.4	2.2	7.1	517

Sample type: ROCK. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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 252 File # 96-2599 Page 1

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
53823	2.3	25.8	409.2	818.2	6875	7	4	3541	1.60	39.9	<5	2	12	5.96	2.1	<.1	7	.71	.012	10	7	.17	150	<.01	<2	.15	.01	.14	<2	<.2	194	<.3	.2	<.5	90
53824	1.5	6.9	7.5	37.5	231	6	4	615	1.75	34.8	<5	2	8	.21	.3	.1	6	.18	.019	8	10	.05	68	<.01	4	.25	.02	.20	2	<.2	11	<.3	<.2	<.5	27
53825	2.7	6.2	6.1	33.0	103	8	3	466	1.52	35.6	<5	4	6	.11	.5	<.1	9	.10	.021	12	7	.03	79	<.01	2	.25	.02	.19	<2	<.2	<10	<.3	.2	<.5	5
53826	64.0	25.4	32.6	98.2	2030	4	8	632	1.67	73.1	<5	2	22	2.71	3.4	.1	10	1.02	.012	6	9	.43	125	<.01	<2	.16	.01	.13	<2	<.2	<10	<.3	.3	<.5	245
53827	3.1	4.2	11.7	125.8	1874	10	3	255	1.37	2.1	<5	1	132	1.37	.9	<.1	15	7.38	.003	2	7	.45	26	<.01	<2	.03	.01	.01	<2	<.2	12	<.3	.2	<.5	44
53828	1.7	5.0	20.7	29.2	152	3	7	411	1.78	38.3	<5	3	21	.25	.4	.1	6	.10	.018	11	9	.01	1777	<.01	2	.16	.01	.17	2	<.2	<10	<.3	<.2	<.5	8
53829	1.9	5.0	113.1	196.0	400	3	2	72	.85	3.9	<5	1	7	1.88	.3	.1	1	.03	.014	11	9	.01	319	<.01	3	.15	<.01	.17	<2	<.2	38	<.3	.2	<.5	466
53830	2.8	10.0	12.6	22.2	585	10	3	820	.85	22.8	<5	1	11	.21	.5	<.1	4	1.37	.011	5	8	.01	57	<.01	2	.10	.01	.12	<2	<.2	<10	<.3	.2	<.5	18
53831	2.2	24.6	22.2	209.0	708	9	11	3036	2.70	15.5	<5	1	40	3.10	.8	.1	46	6.73	.013	7	7	.36	934	.01	6	.32	.01	.23	<2	<.2	17	.3	<.2	<.5	12
53832	2.6	26.4	11.0	48.6	384	4	2	257	1.03	12.4	<5	2	5	.12	1.1	.1	4	.08	.024	7	11	.02	265	<.01	3	.21	.01	.23	2	<.2	<10	<.3	.3	<.5	11
53833	2.4	5.4	5.1	31.6	642	8	2	610	1.61	7.3	<5	2	5	.09	.3	<.1	5	.22	.020	8	7	.01	64	<.01	<2	.18	.01	.18	<2	<.2	<10	<.3	.2	<.5	6
RE 53833	2.2	5.2	4.8	32.0	611	9	2	626	1.64	6.9	<5	3	5	.09	.3	<.1	5	.23	.021	8	7	.01	64	<.01	3	.16	.01	.18	<2	<.2	<10	<.3	.2	<.5	7
56073	1.8	153.8	1047.0	796.7	78103	4	1	1466	.39	44.7	<5	<1	16	4.83	8.7	.2	2	3.98	.003	1	11	.01	12	<.01	<2	.03	<.01	.03	<2	<.2	214	1.9	<.2	<.5	542
56074	2.0	4.0	12.0	10.9	46368	6	<1	3320	.20	3.4	<5	<1	29	.17	.5	<.1	1	6.93	<.002	1	6	.02	21	<.01	<2	.02	<.01	.02	<2	<.2	16	1.9	.2	<.5	11300
56075	1.9	9.5	21.5	32.7	1334	3	3	637	1.12	32.4	<5	1	8	.17	.7	<.1	3	.39	.012	8	13	.02	144	<.01	2	.16	<.01	.17	3	<.2	<10	<.3	<.2	<.5	183
56076	3.3	21.6	170.1	229.6	11498	11	2	1112	.83	52.0	<5	1	11	1.62	1.0	<.1	3	1.38	.010	5	10	.01	81	<.01	3	.09	.01	.11	<2	<.2	81	.5	<.2	<.5	399
56077	1.3	7.7	6.7	6.1	30575	5	1	252	.40	4.5	<5	<1	9	.08	1.6	.4	3	.51	.002	2	13	.01	18	<.01	2	.04	<.01	.01	3	<.2	<10	1.8	.8	<.5	713
56078	2.7	3.9	9.2	12.8	575	9	<1	677	.34	1.5	<5	<1	12	.15	.6	<.1	1	1.51	.004	1	8	<.01	50	<.01	<2	.05	<.01	.03	<2	<.2	<10	<.3	<.2	<.5	129
56079	1.8	192.3	929.0	1786.3	99999	5	1	5083	.56	56.2	<5	<1	32	14.68	25.5	<.1	4	5.37	.004	13	10	.28	86	<.01	2	.04	.01	.02	<2	<.2	755	3.1	.2	<.5	5240
56080	3.3	42.4	80.0	71.4	3224	7	1	1189	.35	6.8	<5	<1	22	.76	4.9	.1	1	2.37	.002	2	14	.02	35	<.01	<2	.03	<.01	.04	3	<.2	<10	.3	.2	<.5	123
56081	2.4	249.5	1504.7	3396.7	2941	6	2	1941	.59	65.4	<5	1	42	14.38	2.4	.5	2	6.19	.007	4	6	.13	27	<.01	4	.04	.01	.02	<2	.2	810	1.0	1.0	2.0	240
56082	1.4	85.3	96.2	146.7	99999	4	1	944	.33	31.4	<5	<1	21	1.05	2.0	.2	1	1.45	.002	1	12	.01	50	<.01	<2	.04	<.01	.04	<2	<.2	111	4.3	.4	<.5	6660
56083	2.1	3.3	70.7	125.1	3052	7	<1	4611	.23	.8	<5	<1	51	1.00	.5	<.1	3	6.74	.004	2	6	.01	105	<.01	2	.04	.01	.01	<2	<.2	30	<.3	.3	<.5	68
56084	3.8	64.6	229.1	223.5	10120	10	1	597	.78	36.2	<5	<1	3	1.72	9.9	.1	2	.11	.003	1	10	.01	61	<.01	2	.10	<.01	.09	<2	<.2	25	.4	.2	<.5	288
56085	1.3	14.4	23.7	50.3	1403	4	3	926	.78	26.0	<5	1	13	.35	.9	<.1	3	1.49	.006	5	11	.08	63	<.01	<2	.08	<.01	.10	2	<.2	22	<.3	.2	<.5	77
56086	2.9	7.7	6.6	8.8	589	9	2	856	.57	30.9	<5	1	10	.08	.8	<.1	1	1.49	.008	3	8	.01	48	<.01	<2	.07	<.01	.10	<2	<.2	<10	<.3	<.2	<.5	39
56756	1.4	22.1	105.9	186.8	13242	5	3	2265	.71	34.4	<5	1	42	1.81	1.7	.1	3	3.76	.009	5	13	.10	599	<.01	3	.09	<.01	.10	<2	<.2	105	.6	<.2	<.5	204
56757	1.6	49.6	143.8	433.5	29634	3	2	2220	.39	19.8	<5	<1	19	3.63	5.2	.1	3	1.26	.002	2	12	.01	974	<.01	<2	.06	<.01	.04	2	<.2	54	.9	<.2	<.5	295
56758	3.2	599.2	2359.4	3010.6	99999	8	<1	5367	.80	237.3	<5	1	32	17.91	64.8	.5	2	7.39	.002	3	6	.01	79	<.01	2	.04	<.01	.02	<2	1.0	751	4.8	1.0	2.0	1480
56759	1.5	247.1	1206.7	2103.4	99999	4	1	1955	.52	107.8	<5	<1	5	7.38	6.8	<.1	2	1.25	.002	1	11	<.01	52	<.01	2	.03	<.01	.01	<2	<.2	84	1.9	.2	.6	624
56760	3.2	68.1	479.5	305.2	28535	10	1	1769	.47	38.0	<5	<1	2	2.69	3.6	<.1	3	.24	.002	1	8	.01	48	<.01	4	.05	<.01	.01	<2	<.2	21	.5	<.2	<.5	163
56761	2.0	13.8	98.2	103.6	10140	4	<1	1402	.37	8.5	<5	<1	3	1.36	1.8	<.1	2	.30	.002	<1	15	<.01	55	<.01	3	.03	<.01	.01	3	<.2	<10	<.3	<.2	<.5	100
56762	3.0	148.6	919.8	912.6	99999	5	<1	7760	.52	66.0	<5	<1	50	6.12	6.9	<.1	5	11.79	<.002	3	6	.02	56	<.01	2	.04	<.01	.03	<2	<.2	118	3.9	<.2	<.5	1091
STANDARD D2/HG-500/AU-R	25.0	120.1	100.9	263.6	1826	34	16	1071	4.14	78.2	23	18	61	2.33	9.1	21.1	78	.76	.094	18	56	1.12	273	.16	28	2.21	.10	.75	12	1.9	468	.6	2.3	6.2	473

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 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 SILT AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 4 1996 **DATE REPORT MAILED:** July 22/96 **SIGNED BY.** D. Toye .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
56763	2.9	411.0	892.0	1332.1	99999	7	<1	12436	.46	184.8	<5	1	43	8.64	7.4	<.1	4	8.35	<.002	2	6	.05	48	<.01	<2	.04	<.01	.03	<2	<.2	275	1.1	.2	.5	340
56764	1.5	150.4	1271.3	1537.9	99999	2	1	6374	.59	83.6	<5	1	30	9.54	5.6	.1	6	7.60	.002	6	8	.07	64	<.01	5	.03	<.01	.02	<2	<.2	217	2.4	<.2	<.5	714
56765	3.0	110.3	782.5	1442.0	66731	6	<1	8626	.51	47.7	<5	<1	36	9.62	5.0	.1	4	8.09	<.002	3	6	.04	20	<.01	3	.03	<.01	.03	<2	<.2	187	1.1	<.2	<.5	129
56766	3.6	116.3	1163.7	733.3	93731	4	2	1646	.84	56.0	<5	<1	8	8.63	22.9	<.1	3	1.00	.006	2	13	.01	35	<.01	2	.09	<.01	.05	<2	<.2	245	1.8	.2	.5	366
56767	3.5	13.5	51.1	70.0	3289	10	6	1078	1.96	71.2	<5	1	10	.49	1.2	.1	5	1.99	.027	8	9	.02	73	<.01	<2	.13	<.01	.15	<2	<.2	23	<.3	<.2	<.5	31
59833	3.4	13.4	66.6	46.3	1161	3	5	1413	2.09	12.4	<5	2	5	.32	.5	.1	4	.13	.011	4	13	.01	78	<.01	<2	.16	<.01	.19	3	<.2	55	<.3	<.2	<.5	6
59834	1.6	80.7	10.7	48.5	542	5	5	1561	1.21	1.3	<5	<1	39	.44	.5	<.1	18	1.95	.004	3	13	.84	803	<.01	<2	.11	<.01	.06	3	<.2	12	<.3	<.2	<.5	1
59835	3.4	770.6	179.0	111.3	15752	8	4	1057	1.15	60.7	<5	1	6	1.44	3.0	<.1	4	.10	.008	15	9	.02	190	<.01	<2	.13	<.01	.12	<2	<.2	109	.4	.2	<.5	56
59836	2.9	17.6	8.0	10.3	111	2	2	174	.19	4.5	<5	<1	39	.09	.2	9.8	5	.83	.003	1	2	.01	45	<.01	<2	.36	<.01	.01	<2	.2	31	.4	.3	1.0	<1
59837	3.5	17.4	9.6	18.1	4019	9	1	1405	.63	21.0	<5	<1	16	.15	.6	.1	2	2.77	.006	3	10	.02	60	<.01	<2	.09	<.01	.09	<2	<.2	<10	.4	<.2	<.5	93
59838	.9	11.4	34.5	70.6	4915	2	<1	1911	.37	7.7	<5	1	104	.67	1.0	.1	2	13.97	.002	2	7	.18	26	<.01	5	.06	<.01	.03	<2	<.2	26	<.3	<.2	<.5	110
59839	6.8	7.4	3.3	1.8	622	10	3	131	.38	9.0	<5	<1	28	.02	1.8	2.1	2	.08	<.002	<1	10	<.01	1951	.01	<2	.01	<.01	<.01	<2	<.2	76	.6	.4	<.5	1
59840	1.2	7.6	45.4	167.1	23626	3	<1	2651	.20	3.9	<5	<1	21	1.20	1.2	.1	<1	5.70	<.002	2	10	.03	40	<.01	3	.01	<.01	.01	<2	<.2	18	.9	<.2	<.5	247
59841	3.4	25.6	922.7	209.6	2033	7	2	2404	.52	31.9	<5	1	28	1.82	.5	.1	2	3.45	.007	3	7	.02	76	<.01	3	.08	<.01	.08	<2	<.2	34	.5	<.2	<.5	94
RE 59841	3.0	24.9	901.1	206.9	1941	8	2	2367	.51	35.6	<5	<1	28	1.74	.6	<.1	2	3.39	.008	3	7	.02	76	<.01	3	.08	<.01	.08	<2	<.2	32	.4	.2	<.5	84
59842	1.5	8.6	19.5	20.1	1107	3	1	1735	.43	12.6	<5	1	40	.23	1.0	<.1	1	8.63	.002	12	10	.13	28	<.01	5	.03	<.01	.03	3	<.2	20	<.3	<.2	<.5	41
59843	1.5	134.8	8.9	90.7	197	32	20	1517	3.76	17.2	<5	1	41	.09	.7	<.1	102	2.35	.092	10	42	2.89	94	.04	3	1.35	.03	.09	<2	<.2	<10	<.3	<.2	9.0	<1
59844	.9	44.3	34.3	82.5	4433	2	<1	5390	.24	7.3	<5	<1	66	.57	.7	<.1	1	16.10	<.002	3	7	.03	8	<.01	2	.02	<.01	.01	<2	<.2	51	<.3	<.2	<.5	791
59845	2.6	5.8	6.6	23.9	3187	8	1	405	.35	1.2	<5	<1	7	.17	.6	<.1	1	.66	<.002	<1	8	.02	150	<.01	3	.01	<.01	.01	<2	<.2	<10	<.3	<.2	<.5	18
59846	1.3	40.5	27.1	67.1	735	3	1	1216	.37	9.4	5	1	33	2.89	2.8	<.1	1	2.85	.006	8	10	.01	44	<.01	5	.07	<.01	.06	3	<.2	<10	<.3	<.2	<.5	6
59847	9.8	16.0	5.1	4.3	135	9	5	238	.71	18.6	<5	<1	32	.18	.6	3.1	3	4.73	.004	<1	8	.02	931	<.01	3	.03	<.01	.01	<2	<.2	82	<.3	.3	<.5	1
59848	1.6	23.3	11.6	16.3	99999	3	<1	2022	.31	22.4	<5	<1	54	.40	2.0	.1	<1	9.56	<.002	8	11	.04	40	<.01	<2	.03	<.01	.02	4	<.2	99	7.9	.3	<.5	4016
59849	1.5	2.7	1.9	3.8	4330	3	<1	1262	.17	1.4	<5	1	36	.09	.2	.1	<1	9.90	<.002	1	5	.01	20	<.01	<2	.02	<.01	.01	<2	<.2	<10	<.3	<.2	<.5	1146
STANDARD D2/HG-50/AU-R	25.3	121.5	100.7	259.8	1891	37	15	1063	4.09	76.8	17	18	81	2.16	8.8	19.4	77	.74	.090	18	55	1.23	245	.16	26	2.37	.06	.74	13	2.0	459	.6	2.2	6.6	550

Sample type: ROCK. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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 252 File # 96-2599 Page 3

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
56087	1.9	18.9	7.1	63.0	109	15	16	8300	5.87	5.2	<5	<1	69	.26	<.2	.1	73	1.06	.100	14	32	.42	488	.20	2	1.03	.02	.06	<2	<.2	70	.3	<.2	3.9	15

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 SILT AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.

DATE RECEIVED: JUL 4 1996 **DATE REPORT MAILED:** July 23/96 **SIGNED BY.** D. Toye ..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

ASSAY CERTIFICATE

Phelps Dodge Corp. PROJECT 252 File # 96-4117 Page 1

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

SAMPLE#	Ag** gm/t	Au** gm/t
509101	2.1	.01
509102	5.1	.06
509103	11.9	.07
509104	.9	.01
509105	.7	<.01
509106	<.3	<.01
509107	.9	<.01
509108	1.8	.01
509109	.3	.01
509110	.8	<.01
RE 509110	.5	<.01
RRE 509110	.5	<.01
509111	1.0	<.01
509112	25.4	.10
509113	1.4	<.01
509114	1.6	.05
509115	3.1	.07
509116	1.3	.01
509117	1.9	<.01
509118	1.2	.02
509119	1.1	.04
509120	1.8	.05
RE 509120	2.2	.03
RRE 509120	1.7	.02
509121	1.1	.01
509122	4.3	.18
509123	4.3	.31
509124	2.8	.19
509125	3.8	.10
509126	45.7	2.31
509127	7.3	.10
509128	64.7	.96
509129	49.7	1.96
509130	19.3	.64
509131	10.2	2.33
509132	45.5	1.62
STANDARD R-1/AU-1	99.5	3.09

AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 28 1996 DATE REPORT MAILED: Sept 13/96 SIGNED BY. . . . . D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Ag** gm/t	Au** gm/t
509133	24.4	.18
509134	16.7	.17
509135	15.2	.28
509136	26.3	.39
509137	11.3	.18
509138	30.4	1.16
509139	13.2	.08
509140	11.7	.05
509141	4.5	.05
509142	5.7	.04
509143	6.8	.08
509144	11.1	.10
RE 509144	11.4	.10
RRE 509144	10.4	.11
509145	3.1	.02
509146	.7	.05
509147	3.3	.03
509148	3.3	.07
509149	32.3	.73
509150	7.5	.34
509151	12.2	.15
509152	42.1	1.26
509153	16.6	.28
509154	7.3	.11
RE 509154	7.1	.13
RRE 509154	6.9	.14
509155	10.7	.15
509156	5.7	.19
509157	8.0	.16
509158	8.2	.19
509159	3.7	.09
509160	4.4	.14
509161	8.6	.26
509162	10.9	.47
509163	7.7	.13
509164	4.7	.07
509165	12.3	.17
STANDARD R-1/AU-1	100.5	3.16

Sample type: CORE. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Ag** gm/t	Au** gm/t
509166	6.0	.11
509167	14.6	.18
509168	31.7	.14
509169	31.0	1.99
509170	15.2	.10
509171	32.8	.17
509172	24.8	.14
509173	25.2	.14
509174	6.4	.05
509175	5.9	.03
509176	4.8	.13
509177	1.0	.05
509178	.5	.03
RE 509178	1.1	.05
RRE 509178	.4	.03
509179	2.1	.08
509180	2.4	.17
509181	3.9	.10
509182	4.0	.13
509183	2.2	.20
509184	2.9	.12
509185	3.9	.09
509186	72.5	7.15
509187	23.7	.81
509188	8.5	.33
RE 509188	8.4	.29
RRE 509188	7.9	.23
509189	5.6	.17
509190	9.6	.40
509191	4.9	.22
509192	5.7	.22
509193	3.8	.23
509194	11.2	.52
509195	5.0	.14
509196	7.0	.62
509197	6.1	.18
509198	2.3	.09
STANDARD R-1/AU-1	97.3	3.48

Sample type: CORE. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Ag** gm/t	Au** gm/t
509199	6.5	.39
509200	7.0	.48
509201	3.7	.41
509202	4.2	.81
509203	5.7	.48
RE 509203	5.8	.42
RRE 509203	5.4	.38
509204	5.9	.08
509205	2.7	.06
STANDARD R-1/AU-1	103.4	3.41

Sample type: CORE. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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

ASSAY CERTIFICATE

Phelps Dodge Corp. PROJECT 252 File # 96-4118 Page 1

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

SAMPLE#	Ag** gm/t	Au** gm/t
509206	4.4	.06
509207	4.9	.07
509208	2.9	1.02
509209	2.6	.04
509210	7.9	.08
509211	7.0	.09
509212	2.8	.06
509213	9.4	.16
509214	9.9	.11
509215	4.8	.04
509216	6.0	.07
RE 509216	6.7	.05
RRE 509216	6.5	.06
509217	42.2	.31
509218	26.8	.29
509219	9.8	.07
509220	72.8	.38
509221	154.8	1.01
509222	59.8	.45
509223	88.4	.46
509224	108.8	.60
509225	5.2	.05
509226	29.1	.15
509227	8.4	.08
509228	5.1	.04
RE 509228	5.1	.04
RRE 509228	4.8	.05
509229	6.4	.07
509230	12.4	.11
509231	9.1	.22
509232	10.3	.07
509233	13.8	.10
509234	4.3	.06
509235	13.8	.24
509236	11.7	.10
509237	4.6	.06
STANDARD R-1/AU-1	99.8	3.18

AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 30 1996 DATE REPORT MAILED: Sep 14/96 SIGNED BY.. J.D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Ag** gm/t	Au** gm/t
509238	21.2	.14
509239	11.1	.06
509240	.9	.03
509241	.5	<.01
509242	.6	.02
509243	.3	.01
509244	1.5	.03
509245	3.5	.06
509246	7.1	.17
509247	14.6	.28
RE 509247	15.8	.31
RRE 509247	12.0	.29
509248	14.3	.33
509249	10.5	.40
509250	6.4	.32
509251	8.0	.25
509252	4.4	.07
509253	4.2	.04
509254	3.1	.07
509255	2.9	.25
509256	5.9	.25
509257	3.7	.08
RE 509257	4.1	.07
RRE 509257	4.2	.09
509258	11.7	.55
509259	19.8	1.00
509260	13.1	1.44
509261	24.9	1.44
STANDARD R-1/AU-1	99.1	3.37

Sample type: CORE. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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

ASSAY CERTIFICATE

Phelps Dodge Corp. PROJECT 252 File # 96-4200 Page 1

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

SAMPLE#	Ag** gm/t	Au** gm/t
509262	9.0	.86
509263	5.1	1.31
509264	36.3	1.82
509265	5.9	1.28
509266	9.9	.56
509267	18.9	3.18
509268	5.1	.08
509269	4.6	.07
509270	5.4	.06
509271	5.3	.09
509272	15.6	.15
RE 509272	16.6	.17
RRE 509272	15.3	.15
509273	30.8	.18
509274	16.9	.22
509275	35.4	.16
509276	25.7	.13
509277	26.0	.13
509278	17.0	.09
509279	8.5	.11
509280	31.5	.22
509281	24.7	.19
509282	65.9	.80
RE 509282	66.7	.86
RRE 509282	66.3	.85
509283	54.7	.72
509284	222.1	2.73
509285	235.2	2.66
509286	199.8	1.76
509287	118.4	.87
509288	146.7	1.17
509289	139.2	1.16
509290	161.2	1.65
509291	203.7	3.01
509292	563.8	17.29
509293	1301.7	4.10
509294	95.1	.68
STANDARD R-1/AU-1	100.0	3.24

AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: CORE
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 5 1996 DATE REPORT MAILED: Sep 14 96 SIGNED BY. D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Ag** gm/t	Au** gm/t
509295	763.5	2.11
509296	92.3	.83
509297	1253.3	5.57
509298	186.9	1.75
509299	485.8	4.11
509300	242.9	1.32
509301	168.6	2.79
509302	114.6	128.08
509303	70.4	1.30
509304	718.7	6.55
509305	1174.7	3.80
509306	150.4	.56
509307	6.8	.07
509308	5.5	.07
RE 509308	6.1	.07
RRE 509308	5.2	.07
509309	9.9	.04
509310	117.8	.24
509311	13.0	.05
509312	31.4	.05
509313	2.9	.06
509314	5.5	.61
509315	1.4	.19
509316	1.2	<.01
509317	1.9	<.01
509318	6.2	.02
RE 509318	7.1	.02
RRE 509318	6.2	.02
509319	13.9	.24
509320	1.6	.02
509321	1.6	<.01
509322	1.1	<.01
509323	1.4	<.01
509324	8.7	.08
509325	12.9	.36
509326	1.3	.08
509327	1.0	.02
STANDARD R-1/AU-1	99.6	3.08

Sample type: CORE. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

APPENDIX III

Drill Logs

Phelps Dodge Corporation of Canada, Limited #912 - 120 Adelaide Street West, Toronto, Ontario M5H 1T1
Telephone (416) 594-0351 Fax (416) 594-0355

DIAMOND DRILL LOG HOLE: 252-9

NORTHING:	5976587	AZIMUTH: 200	STARTED:	August 24, 1996	LENGTH: 160.7m
EASTING:	364950	DIP: -45	COMPLETED:	August 26, 1996	CORE SIZE: NQWL
ELEVATION:	1111m	DIP TESTS:	LOGGED:		
SECTION:	102+50		LOGGED BY:	R. Cameron	
PURPOSE:					

LITHOLOGY					SAMPLES									
MAJOR UNIT		MINOR UNITS		DESCRIPTION	SAMPLE NUMBER	FROM	TO	LENGTH (m)	Au	Ag	ALTERATION			
FROM	TO	FROM	TO								Silic	Sericite	Prop	Argill
0.0	4.0			Casing in broken bedrock.										
4.0	53.2			RHYOLITE TUFF										
				Red, welded crystal tuff with round quartz phenocrysts, feldspar. Rare quartz-carbonate veining.										
53.2	54.8			QUARTZ-CARBONATE VEIN										
				Sharp waled, 45 to core axis.	509268	53.2	55	1.6	0.08	5.1				
54.8	79.3			RHYOLITE CRYSTAL TUFF	509269	95	96	1.0	0.07	4.6				
79.3	84.5			DIORITE DYKE	509270	96	97	1.0	0.06	5.4				
				Massive, fine-grained, magnetic.	509271	97	98	1.0	0.09	5.3				
84.5	99.0			RHYOLITE CRYSTAL TUFF	509272	98	99	1.0	0.15	15.6				
				Minor quartz-carbonate veining.	509273	99	100	1.0	0.18	30.8				
99.0	129.0			QUARTZ-CARBONATE VEIN	509274	100	101	1.0	0.22	16.9				
				Massive, complex textured, cockscomb, fine chalcedony, breccia textures, with 0-2% galena, trace	509275	101	102	1.0	0.16	35.4				
				chalcopyrite, bornite. Motted green-buff patches, skarn?	509276	102	103	1.0	0.13	25.7				
129.0	150.3			RHYOLITE TUFF	509277	103	104	1.0	0.13	26				
				with strong quartz-carbonate stockwork.	509278	104	105	1.0	0.09	17				
150.3	152.0			QUARTZ-CARBONATE VEIN	509279	105	106	1.0	0.11	8.5				
				Rare sulphides including pyrite and galena.	509280	106	107	1.0	0.22	31.5				
152.0	154.9			RHYOLITE TUFF	509281	107	108	1.0	0.19	24.7				
				Minor quartz-carbonate veining.	509282	108	109	1.0	0.8	65.9				
154.9	160.8			DIORITE SILL	509283	109	110	1.0	0.72	54.7				
				Massive, fine-grained, magnetic.	509284	110	111	1.0	2.73	222.1				
160.8				End of Hole.	509285	111	112	1.0	2.66	235.2				
					509286	112	113	1.0	1.76	199.8				
					509287	113	114	1.0	0.87	118.4				
					509288	114	115	1.0	1.17	146.7				
					509289	115	116	1.0	1.16	139.2				

DIAMOND DRILL LOG HOLE 252-1

NORTHING:	5877145	AZIMUTH: 270	STARTED:	August 13, 1996	LENGTH: 139.3m
EASTING:	364935	DIP: -45	COMPLETED:	August 14, 1996	CORE SIZE: NQ
ELEVATION:	1082m	DIP TESTS: none	LOGGED:	August 16, 1996	
SECTION:	107+00		LOGGED BY:	R. Cameron	
PURPOSE:	Test Mint Zone				

LITHOLOGY					SAMPLES									
MAJOR UNIT		MINOR UNIT		DESCRIPTION	SAMPLE NUMBER	FROM	TO	LENGTH m	Au	Ag	ALTERATION Si	Ser	Pro	Arg
FROM	TO	FROM	TO											
0.0	23.5			Moderate quartz/carbonate stockwork in red-brown rhyolite.	509101	9.8	11	1.2	0.01	2.1			1	
				Rhyolite - feldspar and quartz phyric, feldspar to 15% as euhedral blocks to 8mm, 3mm average, local green	509102	.1	12	1	0.06	5.1			1	
				colour to feldspars. Quartz to 10% as round grains to 8mm, 2mm average (swiss cheese). Flow banding 50 to	509103	12	13	1	0.07	11.9			1	
				core axis. Moderate vein stockwork, banded sharp-walled veins <1mm to 3cm with clear quartz walls and milk	509104	13	14	1	0.01	0.9			1	
				quartz/carbonate interiors, 45 to 90 to core axis, local cross-cutting angular rhyolite breccia fragments in veins,	509105	14	15	1	0.01	0.7			1	
				mostly carbonate.	509106	15	16	1	0.01	0.3			1	
		12.2	12.5	Quartz/carbonate vein 70 to core axis. Light green clay, pink carbonate, brecciated lower contact.	509107	16	17	1	0.01	0.9			1	
				Local rounded exitic rock fragments, mafic xenoliths to andesite fragments,.	509108	17	18	1	0.01	1.8			1	
				Trace grey-black sulphide, very fine, in quartz veins.	509109	18	19	1	0.01	0.3			1	
					509110	19	20	1	0.01	0.8			1	
					509111	20	21	1	0.01	1			1	
					509112	21	22	1	0.1	25.4			1	
					509113	22	23	1	0.01	1.4			1	
23.5	50.0			Weak quartz stringers in rhyolite. Red-brown feldspar, quartz phyric rhyolite. Flow banded. Rare quartz veins									1	
				to 3cm, sharp walled, banded quartz carbonate. Generally fine 1mm stringers.									1	
		49.9	50.0	Quartz vein. 10 cm, 45 to core axis, fine chalcedonic banding									1	
50.0	54.2			DIORITE DYKE									1	
				Dark grey, fine grained, chilled margins. I Sharp upper contact 45 to core axis, truncates sharp-walled vein,									1	
				strongly magnetic, 1-3% fine disseminated pyrrhotite? Feldspar to 25% as fine euhedral phenocrysts <0.5mm.									1	
				Chlorite aong fractures and after mafics? Lower contact sharp, 45 to core axis.									1	
54.2	54.5			QUARTZ VEIN	509114	54	55	0.8	0.05	1.6			3	
				Minor carbonate, clear and milky quartz breccia textures, diffuse lower contact.	509115	55	56	1	0.07	3.1			3	
54.5	62.0			Moderate to intense vein stockwork in rhyolite. Irregular quartz/carbonate stockwork, breccia veins, in pale pin	509116	56	57	1	0.01	1.3			3	
				and green rhyolite. Feldspar grass-green clay. Fracture network with green chlorite on veins and rhyolite.	509117	57	58	1	0.01	1.9			3	
					509118	58	59	1	0.02	1.2			3	
					509119	59	60	1	0.04	1.1			3	

DIAMOND DRILL LOG HOLE: 252-1 PAGE 2 OF 2

LITHOLOGY					SAMPLES								
MAJOR UNIT		MINOR UNIT		DESCRIPTION	SAMPLE NUMBER	TO	LENGTH (m)	Au	Ag	ALTERATION			
FROM	TO	FROM	TO							Si	Ser	Pro	Arg
					509120	61	1	0.05	1.8			3	
					509121	62	1	0.01	1.1			3	
62.0	139.3			DIORITE SILL? Grey-black, magnetic									
139.3				End of Hole									

DIAMOND DRILL LOG HOLE: 252-2

NORTHING:	5877145	AZIMUTH: 270	STARTED:	August 14, 1996	LENGTH: 44.8m
EASTING:	364965	DIP: -55	COMPLETED:	Agusut 15, 1996	CORE SIZE: NQWL
ELEVATION:	1085m	DIP TESTS:	LOGGED:	August 18, 1996	
SECTION:	107+00		LOGGED BY:	R. Cameron	

PURPOSE: To test the Mint Zone

LITHOLOGY					SAMPLES									
MAJOR UNIT		MINOR UNIT		DESCRIPTION	SAMPLE NUMBER	FROM	TO	LENGTH (m)	Au	Ag	ALTERATION			
FROM	TO	FROM	TO								Si	Ser	Pro	Arg
0.0	3.7			Casing										
3.7	17.0			RHYOLITE. Flow banded, red.										
17.0	18.1			CARBONATE VEIN	509122	17	18	1.1	0.18	4.3	2		1	
				Yellow-white carbonate, calcite/ankerite with minor quartz as fine chalcedonic fragments. Upper contact	509123	18.1	19	0.9	0.31	4.3	2		1	
				brecciated with carbonate cemented angular rhyolite fragments, local red stain in calcite.	509124	19	20	1	0.19	2.8	2		1	
18.1	21.6			Weak STOCKWORK in red RHYOLITE.	509125	20	22	1.6	0.1	3.8	2		1	
				Red, brown quartz feldspar phyric rhyolite. Silicified? with weak crackle breccia of thin <0.5mm carbonate	509126	21.6	23	1	2.31	45.7			1	
				veinlets, locally to 2cm.	509127	22.6	24	1	0.1	7.3			1	
21.6	30.0			QUARTZ CALCITE VEIN	509128	23.6	25	1	0.96	64.7			2	
				Generally massive, breccia textures common with calcite cement to angular quartz shards and local rhyolite	509129	24.6	26	1	1.96	49.7			1	
				fragments. Fragments to 4cm. Quartz textures include cockscomb, chalcedonic masses, trace to 1% fine	509130	25.6	27	1	0.64	19.3			1	
				grey-black sulphide (galena), fragments of rhyolite locally. Stockwork has sharp upper contact 45 to core axis.	509131	26.6	28	1	2.33	10.2			1	
			26.4	Quartz crystal and carbonate lined vug.	509132	27.6	29	1	1.62	45.5			1	
					509133	28.6	30	1	0.18	24.4			1	
30.0	34.4			MIXED QUARTZ-CARBONATE VEIN with 50% blocks of stockworked rhyolite. Light green colour, breccia	509134	29.6	31	1	0.17	16.7			1	
				textures common.	509135	30.6	32	1	0.28	15.2			1	
					509136	31.6	33	1	0.39	26.3			1	
					509137	32.6	34	1	0.18	11.3			1	
34.4	42.7			STOCKWORKED RHYOLITE	509138	33.6	35	1	1.16	30.4			1	
				Moderate stockwork of quartz and carbonate stringers to 1cm, locally to 3cm, ankerite common in feldspar	509139	34.6	36	1	0.08	13.2			1	
				quartz phyric rhyolite.	509140	35.6	37	1	0.05	11.7			1	
					509141	36.6	38	1	0.05	4.5			1	
					509142	37.6	39	1	0.04	5.7			1	
					509143	38.6	40	1	0.08	6.8			1	
					509144	39.6	41	1	0.1	11.1			1	
					509145	40.6	42	1	0.02	3.1				

DIAMOND DRILL LOG HOLE: 252-2 PAGE 2 OF 2

LITHOLOGY					SAMPLES								
MAJOR UNIT		MINOR UNIT		DESCRIPTION	SAMPLE NUMBER	TO	LENGTH (m)	Au	Ag	ALTERATION			
FROM	TO	FROM	TO							Sil	Ser	Pro	Arg
					509146	43	1	0.05	0.7				
42.7	44.8			Flow banded RHYOLITE									
				Red-brown feldspar-quartz rhyolite with flow banding 65 to core axis, isolated thin carbonate and quartz stringers.									
44.8				End of Hole									

DIAMOND DRILL LOG **HOLE: 252-3**

NORTHING:	5875689	AZIMUTH: 235	STARTED:	August 15, 1996	LENGTH: 169.8m
EASTING:	364870	DIP: -45	COMPLETED:	August 17, 1996	CORE SIZE: NQWL
ELEVATION:	1104m	DIP TESTS:	LOGGED:	August 20, 1996	
SECTION:	103+60		LOGGED BY:	R. Cameron	

PURPOSE: To test the Ted vein.

LITHOLOGY					SAMPLES									
MAJOR UNIT		MINOR UNIT		DESCRIPTION	SAMPLE NUMBER	FROM	TO	LENGTH (m)	Au	Ag	ALTERATION			
FROM	TO	FROM	TO								Silic	Ser	Pro	Arg
0.0	10.7			Casing in overburden and broken bedrock.									1	
10.7	24.0			RHYOLITE									1	
				Light red-brown, locally bleached, welded tuff. Feldspar-quartz phyric, foliation 60 to core axis.									1	
			11.0	5cm sandy gouge, 70 to core axis.									1	
			16.7	10cm fault zone, minor gouge and rock fragments, 40 to core axis. Local quartz stringers, larger quartz veins									1	
				4cm at high angle to bedding, green to black chloritic fractures.									1	
					509147	22	23	1	0.03	3.3			1	
					509148	23	24	1	0.07	3.3			1	
24.0	28.0			QUARTZ-CARBONATE VEIN	509149	24	25	1	0.73	32.3			1	
				Mostly massive grey quartz with minor carbonate in stringers and as cement to local brecia dykes, local	509150	25	26	1	0.34	7.5				
				amethyst at 24.2m. Disseminated to fracture controlled galena as grey-black fine grains and masses. Minor	509151	26	27	1	0.15	12.2				
				fine pyrite. Sharp upper contact 45 to core axis, difuse lower contact, local rhyolite fragments.	509152	27	28	1	1.26	42.1				
28.0	43.0			Intense STOCKWORK in RHYOLITE TUFF	509153	28	29	1	0.28	16.6				
				Quartz-carbonate stockwork and larger veins in red rhyolite tuff, 5 different vein sets. Mostly quartz as bande	509154	29	30	1	0.11	7.3				
				cockscomb textured veins to 2cm, local pink to white calcite in crackle brecciated rhyolite veins 10-25% of	509155	30	31	1	0.15	10.7				
				interval.	509156	31	32	1	0.19	5.7				
					509157	32	33	1	0.16	8				
		33.6	34.0	Quartz-carbonate vein	509158	33	34	1	0.19	8.2				
					509159	34	35	1	0.09	3.7				
					509160	35	36	1	0.14	4.4				
					509161	36	37	1	0.26	8.6				
					509162	37	38	1	0.47	10.9				
					509163	38	39	1	0.13	7.7				
					509164	39	40	1	0.07	4.7				
		40.6	41.0	Quartz-carbonate vein with galena	509165	40	41	1	0.17	12.3				
		41.2	41.5	Quartz-carbonate vein	509166	41	42	1	0.11	6				

DIAMOND DRILL LOG HOLE: 252-3 PAGE 2 OF 2

LITHOLOGY					SAMPLES								
MAJOR UNIT		MINOR UNIT		DESCRIPTION	SAMPLE NUMBER	TO	LENGTH	Au	Ag	ALTERATION			
FROM	TO	FROM	TO				m			Si	Ser	Pro	Arg
					509167	43	1	0.18	14.6				
43.0	48.5			QUARTZ CARBONATE VEIN	509168	44	1	0.14	31.7			1	
				Grey quartz with diffuse banded textures to local finely laminated mammillary texture, local amethyst, abundant silicifi	509169	45	1	1.99	31			1	
				fragments of stockworked rhyolite, diffuse edged, bleached.	509170	46	1	0.1	15.2			1	
			45.1	Finely banded quartz.	509171	47	1	0.17	32.8			1	
					509172	48	1	0.14	24.8				
48.5	92.0			Weak to moderate STOCKWORK in RHYOLITE TUFF.	509173	49	1	0.14	25.2				
				Quartz and carbonate crackle breccia, local ankerite. Local quartz veins to 15cm.	509174	50	1	0.05	6.4				
					509175	51	1	0.03	5.9				
92.0	102.0			RHYOLITE TUFF									
				Red-brown with weak quartz and calcite stringers, chlorite on fractures.									
102.0	169.8			DIORITE, MONZONITE SILL									
				Grey to pink fine grained equigranular massive, rare carbonate stringers, magnetic. sharp upper contact 45 to core									
				axis. Local amygdules.									
	169.8			End of hole.									

DIAMOND DRILL LOG **HOLE: 252-4**

NORTHING:	5875689	AZIMUTH: 235	STARTED:	August 17, 1996	LENGTH: 99.7m
EASTING:	364870	DIP: -45	COMPLETED:	August 18, 1996	CORE SIZE: NQWL
ELEVATION:	1104m	DIP TESTS:	LOGGED:	August 21, 1996	
SECTION:	103+60		LOGGED BY:	R. Cameron	

PURPOSE: Test the Ted Vein

LITHOLOGY					SAMPLES									
MAJOR UNIT		MINOR UNIT		DESCRIPTION	SAMPLE NUMBER	FROM	TO	LENGTH (m)	Au	Ag	ALTERATION Si	Ser	Pro	Arg
FROM	TO	FROM	TO											
0.0	10.0			Casing										
10.0	42.0			RHYOLITE TUFF									1	
				Weakly quartz and carbonate veined. Feldspar and rounded quartz phyric welded tuff with laminations 70 to c										
				axis. Veins generally < 3mm at 30 to core axis. Chlorite along fractures.										
		12.0	21.0	Weak bleaching to pale red-grey.										
42.0	61.0			STOCKWORK in RHYOLITE TUFF	509176	51	52	1.0	0.13	4.8			1	
				Red-brown quartz feldspar phyric tuff with moderate to strong quartz carbonate vein stockwork, veins 1-5cm,	509177	52	53	1.0	0.05	1				
				locally brecciated, up to 10% of interval. Larger veins at low angles to core axis.	509178	53	54	1.0	0.03	0.5				
61.0	69.0			Mixed QUARTZ CARBONATE VEIN and intense STOCKWORK	509179	54	55	1.0	0.08	2.1			1	
				Diffuse-edged, rounded bleached rhyolite fragments in quartz dominated veins and stockwork. Rhyolite	509180	55	56	1.0	0.17	2.4				
				fragments 0 to 70% of interval. quartz generally grey, massive, local cockscomb texture. Local coloform	509181	56	57	1.0	0.1	3.9				
				carbonate banding.	509182	57	58	1.0	0.13	4				
69.0	70.4			DIORITE DYKE	509183	58	59	1.0	0.2	2.2				
				Grey-brown, massive, fine grained, chilled sharp contacts, irregular but generally 45 to core axis.	509184	59	60	1.0	0.12	2.9				
70.4	85.4			Intense QUARTZ-CARBONATE VEIN STOCKWORK.	509185	60	61	1.0	0.09	3.9				
				Bleached, diffuse edged, rounded rhyolite fragments.	509186	61	62	1.0	7.15	72.5				
85.4	99.7			DIORITE SILL.	509187	62	63	1.0	0.81	23.7				
99.7				End of Hole	509188	63	64	1.0	0.33	8.5				
					509189	64	65	1.0	0.17	5.6				
					509190	65	66	1.0	0.4	9.6				
					509191	66	67	1.0	0.22	4.9				
					509192	67	68	1.0	0.22	5.7				
					509193	68	69	1.0	0.23	3.8				
					509194	70.4	72	1.6	0.52	11.2				
					509195	72	73	1.0	0.14	5				
					509196	73	74	1.0	0.62	7				

DIAMOND DRILL LOG HOLE: 252-4 PAGE OF

LITHOLOGY					SAMPLES								
MAJOR UNIT		MINOR UNIT		DESCRIPTION	SAMPLE NUMBER	FROM	TO	LENGTH (m)	Au	Ag	ALTERATION		
FROM	TO	FROM	TO								Sil	Ser	Arg
					509197	74	75	1.0	0.18	6.1			
					509198	75	76	1.0	0.09	2.3			
					509199	76	77	1.0	0.39	6.5			
					509200	77	78	1.0	0.48	7			
					509201	78	79	1.0	0.41	3.7			
					509202	79	80	1.0	0.81	4.2			
					509203	80	81	1.0	0.48	5.7			
					509204	81	82	1.0	0.08	5.9			
					509205	82	83	1.0	0.06	2.7			
					509206	83	84	1.0	0.06	4.4			
					509207	84	85.4	1.4	0.07	4.9			

DIAMOND DRILL LOG HOLE: 252-5

NORTHING:	5876689	AZIMUTH: 235		STARTED:	August 18, 1996	LENGTH:	224.7
EASTING:	364870	DIP: -80		COMPLETED:	August 20, 1996	CORE SIZE:	NQWL
ELEVATION:	1104m	DIP TESTS:		LOGGED:			
SECTION:	103+10			LOGGED BY:	R. Cameron		

PURPOSE: Test Ted Vein

LITHOLOGY					SAMPLES									
MAJOR UNIT		MINOR UNIT		DESCRIPTION	SAMPLE NUMBER	FROM	TO	LENGTH (m)	Au	Ag	ALTERATION			
FROM	TO	FROM	TO								Si	Serf	Pro	Arg
0.0	10.7			Casing										
10.7	58.5			RHYOLITE TUFF										
				Welded, 80 to core axis, weak chlorite on fracture, isolated rare quartz-carbonate stringers.										
58.5	66.2			DIORITE DYKE										
				Light grey, fine grained, local calcite/ankerite veins, broken upper contact ~ 80 to core axis.										
66.2	74.4			MIXED ZONE										
				Rhyolite tuff blocks and irregular pods of diorite.										
74.4	162.8			DIORITE SILL										
				Massive, fine grained to medium grained, grey, magnetic.										
162.8	224.7			RHYOLITE TUFF										
				Pink to red-brown, very hard, isolated quartz-carbonate veining.										
224.7				End of Hole										

DIAMOND DRILL LOG **HOLE: 252-8**

NORTHING:	5876635	AZIMUTH: 235	STARTED:	August 20, 1996	LENGTH: 145.4m
EASTING:	334888	DIP: -45	COMPLETED:	August 21, 1996	CORE SIZE: NQWL
ELEVATION:	1111	DIP TESTS:	LOGGED:	August 25, 1996	
SECTION:	103+10		LOGGED BY:	R. Cameron	

PURPOSE: Test the Ted Vein

LITHOLOGY					SAMPLES									
MAJOR UNITS		MINOR UNITS		DESCRIPTION	SAMPLE NUMBER	FROM	TO	LENGTH (m)	Au	Ag	ALTERATION			
FROM	TO	FROM	TO								Si	Ser	Pro	Arg
0.0	4.6			Casing in overburden and broken bedrock										
4.6	39.0			RHYOLITE									1	
				Red-brown, banded, feldspar-quartz crystal tuff, welding laminations 45 to core axis. Weak quartz and										
				carbonate vein stockwork, 70-20 to core axis, as 0.5-3mm veinlets, local larger veins to 5cm. Rare banded to										
				subrounded andesite clasts.										
				Weak chlorite on fractures and with veinlets.										
				Arbitrary lower contact.										
		5.0	5.3	Massive quartz carbonate vein.										
		5.4	6.0	Massive quartz carbonate vein.										
		6.2	6.4	Quartz carbonate vein, 45 to core axis.										
39.0	48.4			STOCKWORKED RHYOLITE TUFF	509208	39	40	1	1.02	2.9				
				Intense stockwork and veins to 25% of interval, in part red, bleached rhyolite tuff (quartz feldspar crystal tuff).	509209	40	41	1	0.04	2.6				
				Weak chlorite along fractures.	509210	41	42	1	0.08	7.9				
		39.6	39.9	Quartz-carbonate vein with amethyst and cockscomb texture.	509211	42	43	1	0.09	7				
		40.8	41.1	Silicified, veined zones with diffuse edged rhyolite fragments.	509212	43	44	1	0.06	2.8				
		44.1	45.0	Quartz-carbonate vein.	509213	44	45	1	0.16	9.4				
					509214	45	46	1	0.11	9.9				
					509215	46	47	1	0.04	4.8				
					509216	47	48	1.4	0.07	6				
48.4	60.1			TED VEIN	509217	48.4	50	4.6	0.31	42.2				
				Massive quartz-carbonate vein, white to dark grey, complex textures from massive crystalline quartz, coxcomb	509218	50	51	1	0.29	26.8				
				calcite breccia overprint, local amethyst, trace to 2% disseminated galena. Local pink carbonate, local brown	509219	51	52	1	0.07	9.8				
				carbonate. Increasing rhyolite fragments at lower contact, sharp lower contact, 40 to core axis.	509220	52	53	1	0.38	72.8				
					509221	53	54	1	1.01	154.8				
					509222	54	55	1	0.45	59.8				
					509223	55	56	1	0.46	88.4				

HOLE: 252-6 PAGE 2 OF 2

LITHOLOGY					SAMPLES								
MAJOR UNIT		MINOR UNIT		DESCRIPTION	SAMPLE NUMBER	TO	LENGTH	Au	Ag	ALTERATION			
FROM	TO	FROM	TO							Si	Ser	Pro	Arg
					509224	57	1	0.6	108.8				
					509225	58	1	0.05	5.2				
					509226	59	1	0.15	29.1				
					509227	60	1	0.08	8.4				
					509228	61	1	0.04	5.1				
					509229	62	1	0.07	6.4				
		62.0	62.3	Quartz-carbonate vein	509230	63	1	0.11	12.4				
					509231	64	1	0.22	9.1				
					509232	65	1	0.07	10.3				
					509233	66	1	0.1	13.8				
					509234	67	1	0.06	4.3				
		67.0	67.6	Carbonate vein with large 3cm bladed texture 45 to core axis.	509235	68	1	0.24	13.8				
		68.2	68.9	Quartz-carbonate vein.	509236	69	1	0.1	11.7				
					509237	70	1	0.06	4.6				
					509238	71	1	0.14	21.2				
71.0	99.5			STOCKWORK in RHYOLITE TUFF	509239	72	1	0.06	11.1				
				Red-brown rhyolite welded tuff with feldspar and quartz crystals. Weak to moderate quartz carbonate stockwork and	509240	73	1	0.03	0.9				
				veining with veins locally to 10 cm.									
99.5	105.8			DIORITE DYKE									
				Dark grey to green diorite, fine grained, massive with narrow, sharp chilled contacts. Magnetic.									
105.8	135.0			RHYOLITE TUFF									
				Welded feldspar-quartz crystal tuff, 50 to core axis, rare quartz-carbonate veinlets and veins.									
135.0	145.4			DIORITE SILL									
				Massive, light grey, equigranular, fine grained, magnetic, sharp upper contact 45 to core axis, chilled margin.									
145.4				End of Hole.									

DIAMOND DRILL LOG HOLE: 252-7

NORTHING:	5876635	AZIMUTH: 235	STARTED:	August 21, 1996	LENGTH: 108.8 m
EASTING:	364888	DIP: -60	COMPLETED:	August 22, 1996	CORE SIZE: NQWL
ELEVATION:	1111	DIP TESTS:	LOGGED:	August 26, 1996	
SECTION:	103+10		LOGGED BY:	R. Cameron	

PURPOSE: Test the Ted Vein

LITHOLOGY					SAMPLES									
MAJOR UNIT		MINOR UNIT		DESCRIPTION	SAMPLE NUMBER	FROM	TO	LENGTH (m)	Au	Ag	ALTERATION			
FROM	TO	FROM	TO								Sil	Ser	Pro	Arg
0.0	4.3			Casing										
4.3	77.0			RHYOLITE TUFF										
				Red-brown banded (welded) at 65 to core axis, feldspar-quartz phyric. Chlorite fracture coatings,	509241	72	73	1	0.01	0.5				
				quartz-carbonate stringers, weak stockworks and local veins to 40mm. Larger veins at <40 to core axis.	509242	73	74	1	0.02	0.6				
				Minor increase in quartz veining downsection from 60 metres.	509243	74	75	1	0.01	0.3				
		14.5	14.8	Quartz-carbonate vein 30 to core axis.	509244	75	76	1	0.03	1.5				
		15.8	16.2	Quartz-carbonate vein 30 to core axis.	509245	76	77	1	0.06	3.5				
77.0	82.0			QUARTZ-CARBONATE VEIN	509246	77	78	1	0.17	7.1				
				Sharp upper contact 30 to core axis. Multiple textures, mostly massive grey quartz with local banded	509247	78	79	1	0.28	14.6				
				fine-grained white and grey quartz. White calcite as breccia veins cutting quartz. Local brown carbonate and	509248	79	80	1	0.33	14.3				
				pink carbonate. ocal blocks of stockworked rhyolite. Local chlorite masses, red hematite.	509249	80	81	1	0.4	10.5				
82.0	93.0			Intense STOCKWORK and VEINS in RHYOLITE TUFF	509250	81	82	1	0.32	6.4				
				Quartz-carbonate stockwork and veins up to 30% of interval, in rhyolite tuff. Veins to 60cm of banded to massiv	509251	82	83	1	0.25	8				
				textures. Diffuse, arbitrary lower contact.	509252	83	84	1	0.07	4.4				
		86.8	87.4	Quartz-carbonate vein.	509253	84	85	1	0.04	4.2				
		89.4	89.6	Quartz-carbonate vein.	509254	85	86	1	0.07	3.1				
		90.3	90.6	Quartz-carbonate vein.	509255	86	87	1	0.25	2.9				
		91.1	92.0	Quartz-carbonate vein.	509256	87	88	1	0.25	5.9				
		92.3	92.6	Quartz-carbonate vein.	509257	88	89	1	0.08	3.7				
					509258	89	90	1	0.55	11.7				
					509259	90	91	1	1	19.8				
					509260	91	92	1	1.44	13.1				
					509261	92	93	1	1.44	24.9				
93.0	99.0			QUARTZ-CARBONATE VEIN	509262	93	94	1	0.86	9				
				White sugary quartz with common bleached rhyolite fragments to 3cm. Local banded grey quartz, hematite	509263	94	95	1	1.31	5.1				
				masses to 3mm common. sharp lower contact 60 to core axis.	509264	95	96	1	1.82	36.3				

DIAMOND DRILL LOG HOLE: 252-7 PAGE 2 OF 2

LITHOLOGY					SAMPLES								
MAJOR UNIT		MINOR UNIT		DESCRIPTION	SAMPLE NUMBER	TO	LENGTH m	Au	Ag	ALTERATION			
FROM	TO	FROM	TO							Silic	Sericite	Prop	Argil
					509265	97	1	1.28	5.9				
					509266	98	1	0.56	9.9				
					509267	99	1	3.18	18.9				
99.0	108.8			DIORITE SILL									
				Grey, massive, equigranular, fine-grained, with biotite, magnetite. chilled upper contact.									
108.8				End of Hole									

DIAMOND DRILL LOG HOLE: 252-8

NORTHING:	5876587	AZIMUTH: 235	STARTED:	August 22, 1996	LENGTH: 102.8 m
EASTING:	364950	DIP: -45	COMPLETED:	August 24, 1996	CORE SIZE: NQWL
ELEVATION:	1114	DIP TESTS:	LOGGED:		
SECTION:	102+50		LOGGED BY:	R. Cameron	
PURPOSE:	Test Ted Vein				

LITHOLOGY					SAMPLES									
MAJOR UNIT		MINOR UNIT		DESCRIPTION	SAMPLE NUMBER	FROM	TO	LENGTH (m)	Au	Ag	ALTERATION			
FROM	TO	FROM	TO								Sil	Ser	Prp	Arg
0.0	21.6			Casing										
21.6	54.3			RHYOLITE TUFF										
				Pale red-brown, quartz-feldspar phyric, flow banded/welded 65 to core axis. Weakly deveoped quartz stringer										
				isolated to stockworks, <0.5mm to 2cm. Weakly silicified groundmass. Feldspars have weak pale green										
				discolouration to massive green - illite? Chlorite common on fractures, local ankerite in veins.										
54.3	66.8			CIORITE DYKE										
				Massive, fine-grained, magnetic. Dark to light grey, sharp chilled contacts: upper at 45 to core axis, lower at										
				to core axis.										
66.8	144.5			RHYOLITE TUFF										
				Red-brown isolated quartz-carbonate veins, locally to 10 cm. Often at low angles to core axis.										
144.5	151.5			DIORITE DYKE										
				Black to deep maroon, extremely fine-grained, aphanitic, white amygdules to 3%, up to 2mm in size. Upper a										
				lower contact 20 to core axis, weakly to moderately calcareous.										
151.5	156.1			RHYOLITE TUFF										
				Weakly chloritic										
156.1	160.1			MIXED ZONE										
				Rhyolite tuff and dykes with convoluted contacts at low angles to core axis. Gradational lower contact.										
160.1	169.8			DIORITE SILL										
				Grey, fine to medium grained, magnetic.										

DIAMOND DRILL LOG HOLE: 252-9 PAGE 2 OF 3

LITHOLOGY					SAMPLES								
MAJOR UNIT		MINOR UNIT		DESCRIPTION	SAMPLE NUMBER	STO	LENGTH (m)	Au	Ag	ALTERATION			
FROM	TO	FROM	TO							Sil	Ser	Pro	Arg
					509290	117	1.0	1.65	161.2				
					509291	118	1.0	3.01	203.7				
					509292	119	1.0	17.29	563.8				
					509293	120	1.0	4.1	1301.7				
					509294	121	1.0	0.68	95.1				
					509295	122	1.0	2.11	763.5				
					509296	123	1.0	0.83	92.3				
					509297	124	1.0	5.57	1253.3				
					509298	125	1.0	1.75	186.9				
					509299	126	1.0	4.11	485.8				
					509300	127	1.0	1.32	242.9				
					509301	128	1.0	2.79	168.6				
					509302	129	1.0	128.08	114.6				
					509303	130	1.0	1.3	70.4				
					509304	131	1.0	6.55	718.7				
					509305	132	1.0	3.8	1174.7				
					509306	133	1.0	0.56	150.4				
					509307	134	1.0	0.07	6.8				
					509308	135	1.0	0.07	5.5				
					509309	136	1.0	0.04	9.9				
					509310	137	1.0	0.24	117.8				
					509311	138	1.0	0.05	13				
					509312	139	1.0	0.05	31.4				
					509313	140	1.0	0.06	2.9				
					509314	141	1.0	0.61	5.5				
					509315	142	1.0	0.19	1.4				
					509316	143	1.0	0.01	1.2				
					509317	144	1.0	0.01	1.9				
					509318	145	1.0	0.02	6.2				
					509319	146	1.0	0.24	13.9				

DIAMOND DRILL LOG HOLE: 252-9 PAGE 3 OF 3

LITHOLOGY					SAMPLES								
MAJOR UNIT		MINOR UNIT		DESCRIPTION	SAMPLE NUMBER	TO	LENGTH (m)	Au	Ag	ALTERATION			
FROM	TO	FROM	TO							Si	Ser	Prc	Arg
					509320	147	1.0	0.02	1.6				
					509321	148	1.0	0.01	1.6				
					509322	149	1.0	0.01	1.1				
					509323	150	1.0	0.01	1.4				
					509324	151	1.0	0.08	8.7				
					509325	152	1.0	0.36	12.9				
					509326	153	1.0	0.08	1.3				
					509327	155	2.0	0.02	1				

SOIL SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	NORTH	EAST	TYPE	MATERIAL	COLOUR	REMARKS	Au ppb	Ag ppb
56470	9800	12100	SOIL	TILL	BROWN		1	96
56471	9800	12150	SOIL	TILL	BROWN		1	93
56472	9800	12200	SOIL	TILL	BROWN		1	30
56473	9800	12250	SOIL	TILL	BROWN		3	112
56474	9800	12300	SOIL	TILL	BROWN		1	37
56475	9800	12350	SOIL	TILL	BROWN		9	40
56476	9800	12400	SOIL	TILL	BROWN		1	30
56477	9800	12450	SOIL	TILL	BROWN		1	43
56223	10000	10800	SOIL	TILL	BROWN	LAKE AT 107+83.	2	98
56222	10000	10850	SOIL	TILL	BROWN	BURN.	1	54
56221	10000	10900	SOIL	TILL	BROWN		1	80
56220	10000	10950	SOIL	TILL	BROWN		3	51
56219	10000	11000	SOIL	TILL	BROWN	4 TRAX ROAD AT 110+10.	1	55
56218	10000	11050	SOIL	TILL	BROWN	EDGE OF BURN AT 110+13. 4 TRAX ROAD.	1	104
56217	10000	11100	SOIL	TILL	BROWN		1	30
56216	10000	11150	SOIL	TILL	BROWN		1	30
56215	10000	11200	SOIL	TILL	BROWN		2	77
56214	10000	11250	SOIL	TILL	BROWN		1	39
56213	10000	11300	SOIL	TILL	BROWN		1	30
56212	10000	11350	SOIL	TILL	BROWN		1	30
56211	10000	11400	SOIL	TILL	BROWN		2	32
56210	10000	11450	SOIL	TILL	BROWN		20	76
56209	10000	11500	SOIL	TILL	BROWN		2	30
56208	10000	11550	SOIL	TILL	BROWN	SAMPLED 10M S.	1	67
56207	10000	11600	SOIL	TILL	BROWN		1	64
56206	10000	11650	SOIL	TILL	BROWN		4	86
56205	10000	11700	SOIL	TILL	BROWN		1	56
56204	10000	11750	SOIL	TILL	BROWN		1	80
56203	10000	11800	SOIL	TILL	BROWN	BURN.	2	132
56202	10000	11850	SOIL	TILL	BROWN	PINE FOREST.	3	73
56201	10000	11900	SOIL	TILL	BROWN	N/S AT 119+50;120+00;120+50 DUE TO SWAMP.	44	37
56497	10000	12150	SOIL	TILL	BROWN		1	52
56498	10000	12200	SOIL	TILL	BROWN		5	48
56499	10000	12250	SOIL	TILL	BROWN		4	30
56500	10000	12300	SOIL	TILL	BROWN		1	30
56801	10000	12350	SOIL	TILL	BROWN		6	47
56802	10000	12400	SOIL	TILL	BROWN		28	60
56803	10000	12450	SOIL	TILL	BROWN		1	92
56804	10000	12500	SOIL	TILL	BROWN		3	148

SAMPLE	NORTH	EAST	TYPE	MATERIAL	COLOUR	REMARKS	Au ppb	Ag ppb
56805	10000	12550	SOIL	TILL	BROWN		2	60
56806	10000	12600	SOIL	TILL	BROWN		3	120
56503	10200	10600	SOIL	TILL	BROWN		2	136
56504	10200	10650	SOIL	COLLUVIUM	BROWN		1	85
56505	10200	10700	SOIL	COLLUVIUM	BROWN		3	113
56506	10200	10750	SOIL	COLLUVIUM	BROWN		1	100
56507	10200	10800	SOIL	COLLUVIUM	BROWN		1	111
56508	10200	10850	SOIL	COLLUVIUM	BROWN		1	115
56509	10200	10900	SOIL	COLLUVIUM	BROWN		1	109
56510	10200	10950	SOIL	COLLUVIUM	BROWN		10	73
56511	10200	11000	SOIL	COLLUVIUM	BROWN		20	41
56512	10200	11050	SOIL	COLLUVIUM	BROWN		1	30
56513	10200	11100	SOIL	COLLUVIUM	BROWN		3	73
56514	10200	11150	SOIL	COLLUVIUM	BROWN		1	55
56515	10200	11200	SOIL	COLLUVIUM	BROWN		2	47
56516	10200	11250	SOIL	COLLUVIUM	BROWN		1	30
56517	10200	11300	SOIL	COLLUVIUM	BROWN		1	74
56518	10200	11350	SOIL	COLLUVIUM	BROWN		3	60
56519	10200	11400	SOIL	COLLUVIUM	BROWN		1	41
56520	10200	11450	SOIL	COLLUVIUM	BROWN		1	68
56521	10200	11500	SOIL	COLLUVIUM	BROWN		1	30
56522	10200	11550	SOIL	COLLUVIUM	BROWN		3	81
56523	10200	11600	SOIL	COLLUVIUM	BROWN		3	30
56524	10200	11650	SOIL	COLLUVIUM	BROWN		252	205
56525	10200	11700	SOIL	TILL	BROWN		5	30
56526	10200	11750	SOIL	TILL	BROWN		4	30
56527	10200	11800	SOIL	TILL	ORANGE		5	30
56528	10200	11850	SOIL	ORGANIC	BLACK	BOG.	1	173
56529	10200	11900	SOIL	COLLUVIUM	BROWN		1	33
56179	10400	10700	SOIL	TILL	BROWN		2	328
56180	10400	10750	SOIL	TILL	BROWN		1	194
56181	10400	10800	SOIL	TILL	BROWN		45	49
56182	10400	10850	SOIL	TILL	BROWN		2	214
56183	10400	10900	SOIL	TILL	BROWN		2	49
56184	10400	10950	SOIL	TILL	BROWN		7	210
56185	10400	11000	SOIL	TILL	BROWN	OUTCROP. SMALL GULLEY AT 110+10.	2	119
56186	10400	11025	SOIL	TILL	BROWN	OUTCROP.	11	1173
56187	10400	11050	SOIL	TILL	BROWN		5	321
56188	10400	11075	SOIL	TILL	BROWN		4	141

SOIL SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	NORTH	EAST	TYPE	MATERIAL	COLOUR	REMARKS	Au ppb	Ag ppb
56189	10400	11100	SOIL	TILL	BROWN		7	108
56190	10400	11150	SOIL	TILL	BROWN		2	64
59728	10400	11200	SOIL	TILL	BROWN		1	228
59729	10400	11250	SOIL	TILL	BROWN		1	130
59730	10400	11300	SOIL	TILL	BROWN		3	192
59731	10400	11350	SOIL	TILL	BROWN		2	427
59732	10400	11400	SOIL	TILL	BROWN		1	348
59733	10400	11450	SOIL	TILL	BROWN		1	190
59734	10400	11500	SOIL	TILL	BROWN	BOG/CREEK AT 115+10.	1	105
59735	10400	11550	SOIL	TILL	BROWN		1	87
59736	10400	11600	SOIL	TILL	BROWN		4	72
59792	10400	11650	SOIL	TILL	BROWN		1	114
59791	10400	11700	SOIL	TILL	BROWN	WELL DEVELOPED BROWN-ORANGE SOIL.	4	68
59790	10400	11750	SOIL	TILL	BROWN	30% SAND. BOG TO WEST.	2	242
59789	10400	11800	SOIL	TILL	BROWN	40% SAND.	1	231
59788	10400	11850	SOIL	SAND	BROWN	30% SAND IN VICINITY OF LARGE ESKER.	1	115
59787	10400	11900	SOIL	COLLUVIUM	BROWN	ANGULAR BASALT IN HOLE.	1	48
56621	10600	10900	SOIL	TILL	BROWN		2	913
56620	10600	10950	SOIL	TILL	BROWN	BOG.	1	270
56619	10600	11000	SOIL	TILL	BROWN		2	159
56618	10600	11050	SOIL	TILL	BROWN		1	46
56617	10600	11100	SOIL	TILL	BROWN		6	30
56616	10600	11150	SOIL	TILL	BROWN		2	183
56615	10600	11200	SOIL	TILL	ORANGE		13	2177
56614	10600	11250	SOIL	TILL	ORANGE		34	16637
56613	10600	11300	SOIL	TILL	BROWN		4	617
56612	10600	11350	SOIL	TILL	BROWN		10	65
56611	10600	11400	SOIL	TILL	BROWN		1	67
56610	10600	11450	SOIL	TILL	BROWN	DISTURBED GROUND, EDGE OF FIRE ROAD.	1	804
56609	10600	11500	SOIL	TILL	ORANGE		1	99
56608	10600	11550	SOIL	TILL	ORANGE		2	124
56607	10600	11600	SOIL	TILL	BROWN		1	30
56606	10600	11650	SOIL	TILL	BROWN		1	272
56605	10600	11700	SOIL	TILL	BROWN		1	304
56604	10600	11750	SOIL	TILL	BROWN		1	79
56603	10600	11800	SOIL	TILL	BROWN		1	39
56602	10600	11850	SOIL	TILL	ORANGE		2	30
56601	10600	11900	SOIL	TILL	BROWN		2	30
56530	10800	11050	SOIL	TILL	BROWN		1	579

SOIL SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	NORTH	EAST	TYPE	MATERIAL	COLOUR	REMARKS	Au ppb	Ag ppb
56531	10800	11100	SOIL	TILL	RED		2	219
56532	10800	11150	SOIL	TILL	BROWN		2	30
56533	10800	11200	SOIL	TILL	BROWN		1	111
56534	10800	11250	SOIL	TILL	BROWN		3	289
56535	10800	11300	SOIL	TILL	RED		1	375
56536	10800	11350	SOIL	TILL	BROWN		1	77
56537	10800	11400	SOIL	TILL	BROWN		5	142
56538	10800	11450	SOIL	TILL	BROWN		1	43
56539	10800	11500	SOIL	TILL	BROWN		2	178
56540	10800	11550	SOIL	GRAVEL	RED		1	139
56541	10800	11600	SOIL	TILL	BROWN		1	145
56542	10800	11650	SOIL	ORGANIC	BLACK		1	75
56543	10800	11700	SOIL	COLLUVIUM	BROWN		1	116
56544	10800	11750	SOIL	COLLUVIUM	BROWN		1	125
56545	10800	11800	SOIL	COLLUVIUM	BROWN		1	69
56546	10800	11850	SOIL	COLLUVIUM	BROWN		1	71
56547	10800	11900	SOIL	COLLUVIUM	BROWN		1	55
56548	10800	11950	SOIL	TILL	BROWN		1	106
56549	10800	12000	SOIL	COLLUVIUM	BROWN		4	54
56550	10800	12050	SOIL	COLLUVIUM	BROWN		1	68
56551	10800	12100	SOIL	TILL	BROWN		2	30
56552	10800	12150	SOIL	TILL	BROWN		4	68
56553	10800	12200	SOIL	TILL	BROWN		38	41
56554	10800	12250	SOIL	TILL	BROWN		1	30
56555	10800	12300	SOIL	TILL	BROWN		1	198
56556	10800	12350	SOIL	TILL	BROWN		3	80
56557	10800	12400	SOIL	TILL	BROWN		2	49
56558	10800	12450	SOIL	TILL	BROWN		1	36
56559	10800	12500	SOIL	TILL	BROWN		1	30
56560	10800	12550	SOIL	TILL	BROWN		1	53
56561	10800	12600	SOIL	TILL	BROWN		6	30
56562	10800	12650	SOIL	TILL	BROWN		1	30
56563	10800	12700	SOIL	TILL	BROWN		2	30
56564	10800	12750	SOIL	TILL	BROWN		4	30
56565	10800	12800	SOIL	TILL	BROWN		2	30
56491	11000	11200	SOIL	TILL	BROWN		2	107
56492	11000	11250	SOIL	TILL	BROWN	N/S AT 113+00.	1	113
56493	11000	11350	SOIL	TILL	BROWN		3	42
56494	11000	11400	SOIL	TILL	BROWN		2	341

SOIL SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	NORTH	EAST	TYPE	MATERIAL	COLOUR	REMARKS	Au ppb	Ag ppb
56807	11000	11450	SOIL	TILL	BROWN		1	61
56808	11000	11500	SOIL	TILL	GREY		1	39
56809	11000	11550	SOIL	TILL	BROWN		1	30
56810	11000	11600	SOIL	TILL	BROWN		3	148
56811	11000	11650	SOIL	TILL	BROWN		2	296
56812	11000	11700	SOIL	TILL	BROWN		1	300
56813	11000	11750	SOIL	TILL	BROWN		1	138
56814	11000	11800	SOIL	TILL	BROWN		1	230
56815	11000	11850	SOIL	TILL	BROWN		1	94
56816	11000	11900	SOIL	TILL	BROWN		1	700
56817	11000	11950	SOIL	TILL	GREY		1	179
56818	11000	12000	SOIL	TILL	GREY		1	33
56819	11000	12050	SOIL	TILL	BROWN		1	45
56820	11000	12100	SOIL	TILL	GREY		7	104
56821	11000	12150	SOIL	TILL	BROWN		1	72
56822	11000	12200	SOIL	TILL	BROWN		1	252
56823	11000	12250	SOIL	TILL	BROWN		1	220
56824	11000	12300	SOIL	TILL	BROWN		1	48
56825	11000	12350	SOIL	TILL	BROWN		1	59
56826	11000	12400	SOIL	TILL	BROWN		2	69
56827	11000	12450	SOIL	TILL	BROWN		1	53
56828	11000	12500	SOIL	TILL	BROWN		5	204
56829	11000	12550	SOIL	TILL	BROWN		2	94
56830	11000	12600	SOIL	TILL	BROWN		2	61
56831	11000	12650	SOIL	TILL	BROWN		1	31
56832	11000	12700	SOIL	TILL	BROWN		31	30
56833	11000	12750	SOIL	TILL	GREY		2	30
56495	11000	12800	SOIL	TILL	PURPLE		2	30
56659	11200	11300	SOIL	TILL	BROWN		1	91
56660	11200	11350	SOIL	TILL	BROWN		2	57
56661	11200	11400	SOIL	TILL	BROWN		1	36
56662	11200	11450	SOIL	TILL	BROWN		1	30
56663	11200	11500	SOIL	TILL	BROWN		3	30
56664	11200	11550	SOIL	TILL	BROWN		1	95
56665	11200	11600	SOIL	TILL	BROWN		1	51
56666	11200	11650	SOIL	TILL	BROWN		1	56
56667	11200	11700	SOIL	TILL	BROWN		3	30
56668	11200	11750	SOIL	TILL	BROWN		4	332
56669	11200	11800	SOIL	TILL	BROWN		1	30

TAKEN PROPERTY

PROJECT 246

SOIL SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	NORTH	EAST	TYPE	MATERIAL	COLOUR	REMARKS	Au ppb	Ag ppb
56670	11200	11850	SOIL	TILL	GREY		1	179
56671	11200	11900	SOIL	TILL	GREY		1	279
56672	11200	11950	SOIL	TILL	BROWN		1	46
56673	11200	12000	SOIL	TILL	BROWN		1	80
56674	11200	12050	SOIL	TILL	BROWN		1	138
56675	11200	12100	SOIL	TILL	BROWN		1	62
56676	11200	12150	SOIL	TILL	BROWN		1	33
56677	11200	12200	SOIL	TILL	BROWN		1	42
56678	11200	12250	SOIL	TILL	BROWN		1	30
56679	11200	12300	SOIL	TILL	ORANGE		6	30
56680	11200	12350	SOIL	TILL	BROWN		1	30
56681	11200	12400	SOIL	TILL	BROWN		1	65
56682	11200	12450	SOIL	TILL	BROWN		1	44
56683	11200	12500	SOIL	TILL	BROWN		1	51
56684	11200	12550	SOIL	TILL	BROWN		6	99
56685	11200	12600	SOIL	TILL	BROWN		1	52
56686	11200	12650	SOIL	TILL	BROWN		2	42
56687	11200	12700	SOIL	TILL	ORANGE		1	100
56688	11200	12750	SOIL	TILL	BROWN		1	52
56689	11200	12800	SOIL	TILL	BROWN		1	86
56691	11400	11300	SOIL	TILL	BROWN		2	30
56692	11400	11350	SOIL	TILL	BROWN		3	30
56693	11400	11400	SOIL	TILL	BROWN		1	80
56694	11400	11450	SOIL	TILL	BROWN		1	67
56695	11400	11550	SOIL	TILL	BROWN	N/S AT 115+00 DUE TO SWAMP.	2	83
56696	11400	11600	SOIL	TILL	BROWN		1	87
56697	11400	11650	SOIL	TILL	BROWN		2	83
56698	11400	11700	SOIL	TILL	BROWN		1	63
56699	11400	11750	SOIL	TILL	BROWN		4	31
56700	11400	11800	SOIL	TILL	BROWN		1	43
56901	11400	11850	SOIL	TILL	BROWN		1	78
56902	11400	11900	SOIL	TILL	BROWN		1	98
56903	11400	11950	SOIL	TILL	BROWN		1	30
56904	11400	12000	SOIL	TILL	BROWN		1	36
56905	11400	12050	SOIL	TILL	BROWN		1	30
56906	11400	12100	SOIL	TILL	BROWN		1	30
56907	11400	12150	SOIL	TILL	BROWN		1	35
56908	11400	12200	SOIL	TILL	BROWN		1	30
56909	11400	12250	SOIL	TILL	BROWN		1	127

SOIL SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	NORTH	EAST	TYPE	MATERIAL	COLOUR	REMARKS	Au ppb	Ag ppb
56910	11400	12300	SOIL	TILL	BROWN	VERY ROCKY.	1	57
56911	11400	12350	SOIL	TILL	BROWN		2	30
56912	11400	12400	SOIL	TILL	BROWN		1	51
56913	11400	12450	SOIL	TILL	ORANGE		1	31
56914	11400	12500	SOIL	TILL	BROWN		1	56
56915	11400	12550	SOIL	TILL	BROWN		1	59
56916	11400	12600	SOIL	TILL	BROWN		1	98
56917	11400	12650	SOIL	TILL	BROWN		1	111
56918	11400	12700	SOIL	TILL	BROWN	N/S AT 127+50;128+00 DUE TO SWAMP.	1	69
56836	11600	11100	SOIL	TILL	BROWN		1	71
56835	11600	11150	SOIL	TILL	BROWN		4	68
56834	11600	11200	SOIL	TILL	BROWN		2	36
56923	11600	11250	SOIL	TILL	BROWN		1	86
56924	11600	11300	SOIL	TILL	BROWN		2	30
56925	11600	11350	SOIL	TILL	BROWN		1	31
56926	11600	11400	SOIL	TILL	BROWN		1	66
56927	11600	11500	SOIL	TILL	BROWN	N/S AT 114+50 DUE TO SWAMP.	3	48
56928	11600	11550	SOIL	TILL	BROWN		1	80
56929	11600	11600	SOIL	TILL	BROWN		1	67
56930	11600	11650	SOIL	TILL	BROWN		1	52
56931	11600	11700	SOIL	TILL	BROWN		1	30
56932	11600	11750	SOIL	TILL	BROWN		1	37
56933	11600	11800	SOIL	TILL	BROWN		2	40
56934	11600	11850	SOIL	TILL	BROWN		5	30
56935	11600	11900	SOIL	TILL	BROWN		1	30
56936	11600	11950	SOIL	TILL	BROWN		1	30
56937	11600	12000	SOIL	TILL	BROWN		2	30
56938	11600	12050	SOIL	TILL	BROWN		1	81
56939	11600	12100	SOIL	TILL	BROWN		6	30
56940	11600	12150	SOIL	TILL	BROWN	VERY ROCKY.	1	169
56941	11600	12200	SOIL	TILL	BROWN		1	30
56942	11600	12250	SOIL	TILL	BROWN		2	110
56943	11600	12300	SOIL	TILL	BROWN		1	32
56944	11600	12350	SOIL	TILL	BROWN		1	30
56945	11600	12400	SOIL	TILL	BROWN		6	30
56946	11600	12450	SOIL	TILL	BROWN		1	47
56947	11600	12500	SOIL	TILL	BROWN		1	30
56948	11600	12550	SOIL	TILL	BROWN		1	39
56949	11600	12600	SOIL	TILL	BROWN		1	40

SOIL SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	NORTH	EAST	TYPE	MATERIAL	COLOUR	REMARKS	Au ppb	Ag ppb
56950	11600	12650	SOIL	TILL	BROWN		3	30
56951	11600	12700	SOIL	TILL	BROWN		2	164
56952	11600	12750	SOIL	TILL	BROWN		3	30
56953	11600	12800	SOIL	TILL	BROWN		1	30

ROCK SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	TYPE	DESCRIPTION	Au ppb	Ag ppb
53829	GRAB	Clast supported, polymictic pebble conglomerate, weak feldspar alteration, clasts of rhyolite and andesite.	466	400
53830	GRAB	Pink-brown rhyolite with quartz stringers and calcite.	18	585
53831	GRAB	Rhyolite breccia, fragments are set in vuggy quartz and calcite matrix, rock is weakly chlorite altered, abundant iron stain throughout.	12	708
53832	GRAB	Quartz stringers in pink-brown rhyolite, iron stained on fractures.	11	384
53833	GRAB	Pink-brown rhyolite with quartz veins stockworks.	6	642
53890	GRAB	Rhyolite breccia with quartz stringers set in silica matrix, iron staining on fractures and fragments.	25	3795
53917	GRAB	30cm wide quartz-carbonate vein.	214	24632
56041	GRAB	Quartz vein with chalcedony veinlets throughout, trace disseminated pyrite.	18	744
56042	GRAB	1m wide quartz vein in rhyolite host which is intensely silicified in places, trace disseminated pyrite.	32	3530
56043	GRAB	Mottled grey-white, intensely silicified rhyolite, abundant calcite, trace disseminated pyrite, quartz-carbonate veinlets throughout.	133	1077
56044	GRAB	Lapilli tuff, quartz veining throughout, trace disseminated fine grained sulphides, quartz-carbonate throughout rock.	10	46
56045	GRAB	White-grey brecciated quartz, limonite infilling fractures.	31	413
56046	GRAB	Massive, grey-white-pink quartz, minor limonite on fracture surfaces, trace pyrite.	244	5805
56047	GRAB	8cm wide, banded, quartz-carbonate vein.	9	362
56048	GRAB	Grey-white quartz with minor chlorite alteration, local 4mm thick bands of pink quartz, trace disseminated pyrite.	30	843
56049	GRAB	Pink-white-grey quartz breccia, trace disseminated pyrite.	501	2360
56050	GRAB	White-grey, sugary quartz, abundant iron staining.	8	52
56051	GRAB	White-pink, massive, quartz-carbonate vein material, trace to 0.5% disseminated fine grained pyrite.	2720	99999
56052	GRAB	Cream-grey-white quartz and chalcedony, breccia.	21	1215
56053	GRAB	White massive, very fine grained, sugary textured quartz, trace pyrite.	21	518
56074	GRAB	White, sugary textured quartz-carbonate, no visible sulphides, vuggy due to dissolution of calcite, minor iron stain.	11300	46368
56075	GRAB	Grey, quartz phyric rhyolite breccia, intensely silicified, moderate quartz stockwork, trace disseminated pyrite in veins, iron stained on fractures.	183	1364
56076	GRAB	Coarse quartz stockwork in maroon, silicified rhyolite, trace disseminated pyrite.	399	11498
56077	GRAB	White, sugary textured quartz, vuggy, minor iron stain.	713	30575
56078	GRAB	White, sugary textured, vuggy quartz-carbonate vein material, weak iron staining, trace disseminated pyrite.	129	575
56079	GRAB	White, fine sugary texture to quartz-carbonate, 1% disseminated fine grained metallic silver coloured mineral.	5240	99999
56080	GRAB	Mottled cream-tan-grey quartz-carbonate, trace disseminated pyrite.	123	3224
56081	GRAB	White-grey banded quartz-carbonate, 1% disseminated pyrite and metallic silver coloured mineral.	240	2941
56082	GRAB	White-grey, sugary textured quartz-carbonate, trace disseminated pyrite, weak mottled reddish stain on rock.	6660	99999
56083	GRAB	Grey-white-pink banded quartz-carbonate, minor iron staining.	68	3052
56084	GRAB	Off-white/grey quartz-carbonate, minor iron staining, drusy quartz on fracture surfaces.	288	10120
56085	GRAB	Grey-white quartz vein, abundant iron staining, no visible sulphides.	77	1403
56086	GRAB	White quartz-carbonate vein 25cm thick in rhyolite host, trace disseminated pyrite in vein.	39	589

ROCK SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	TYPE	DESCRIPTION	Au ppb	Ag ppb
56163	GRAB	Quartz veining in silicified, altered rhyolite, trace to 0.5% disseminated fine grained pyrite.	85	1328
56164	GRAB	Grey-pink quartz breccia, iron stained on fractures, trace disseminated pyrite.	41	594
56165	GRAB	Grey, massive quartz phyric rhyolite, trace disseminated pyrite.	3	320
56166	GRAB	Cream coloured quartz phyric rhyolite, trace disseminated pyrite.	3	6634
56175	GRAB	Mottled, cream to grey, quartz-chalcedony vein in argillically altered rhyolite, trace iron staining.	8	189
56198	GRAB	Mottled, grey quartz vein material, iron stained, trace disseminated pyrite, trace hematite (?)	12	1855
56199	GRAB	Quartz vein stockwork in altered rhyolite breccia (?), trace disseminated pyrite.	8	952
56200	GRAB	Siliceous rhyolite breccia, weak to moderate malachite and azurite stain on surfaces.	125	40180
59702	GRAB	Grey-black banded quartz vein in altered basalt host, minor epidote on fracture surfaces.	4	161
59705	GRAB	1mm wide quartz stringers and 1cm wide quartz vein, in altered rhyolite, limonite on fracture surfaces, trace fine grained pyrite, quartz vein is brecciated and rehealed with silica.	1	291
59706	GRAB	Iron stained rhyolite, disseminated fine grained pyrite in minute stringers to 1%, trace galena.	1	86
59707	GRAB	Vuggy quartz stringers up to 3cm wide in rhyolite breccia.	1	150
59708	GRAB	Quartz-rhyolite breccia, silicified rhyolite clasts, trace fine grained sulphides.	1	222
59743	GRAB	Pink-white-grey quartz-rhyolite breccia, vuggy, angular rhyolite fragments to 2cm in quartz matrix.	18	2096
59755	GRAB	White, sugary textured quartz vein in rhyolite, limonite and manganese stain, trace pyrite.	111	2075
59756	GRAB	White-grey brecciated quartz vein.	172	11013
59757	GRAB	Purple-green silicifed lapilli tuff, propylitized, pyrite in coarse blebs to 2%.	8	257
59758	GRAB	Cream to pink coloured silicified rhyolite, no visible sulphides.	7	1193
59759	GRAB	Quartz-calcite stringers in dacite.	5	367
59760	GRAB	Milky white, intensely silicified rhyolite.	5	930
59761	GRAB	Mottled white-grey-green, silicified rhyolite, trace pyrite.	2	56
59762	GRAB	Quartz vein, sugary texture, grey-white quartz, minor vugs, limonite on fracture surfaces, trace fine grained sulphides (?)	806	17126
59763	GRAB	Sugary texture, vuggy quartz-calcite vein, trace galena.	19240	62514
59783	GRAB	3cm wide quartz stringer in rhyolite.	23	414
59784	GRAB	Siliceous quartz rhyolite breccia with azurite and malachite staining.	52	2770
59785	GRAB	Siliceous rhyolite breccia with malachite and azurite staining.	21	2455
59786	GRAB	Medium grey, silicified rhyolite breccia, coarse crystal lined vugs, sugary texture, with disseminated malachite.	2	2140
59793	GRAB	Tan quartz phyric rhyolite fragments set in a light grey, fine grained, sugary textured quartz matrix with fine grained pyrite on fracture surfaces and as minute stringers. Quartz looks chalcedonic.	3	133
59794	GRAB	Sugary textured quartz vein with grey wispy sections, no visible sulphides.	62	3569
59795	GRAB	Completely silicified rhyolite, minor iron stain.	1	33
59796	GRAB	Silicified, banded tuff, no visible sulphides.	4	192
59797	GRAB	Silicified quartz rich rhyolite with malachite and azurite.	18	26207
59798	GRAB	Quartz stockwork in rhyolite breccia, quartz is banded, limonite in fracture surfaces, no visible sulphides, veins are vuggy.	14	484
59799	GRAB	Quartz stockwork in light maroon rhyolite, chlorite and trace malachite.	16	880
59834	GRAB	Smoky blue-grey quartz vein in silicified lapilli tuff, trace sulphides.	1	542

SAMPLE	TYPE	DESCRIPTION	Au ppb	Ag ppb
59835	GRAB	Malachite and minor azurite in grey-white quartz rich tuff breccia, completely silicified, trace disseminated fine grained pyrite.	56	15752
59836	GRAB	Siliceous, biotite phyric, light grey felsite dyke, trace disseminated pyrite.	1	111
59837	GRAB	Smoky grey to white quartz stockwork in rhyolite breccia, pyrite aggregates and as weak disseminations.	93	4019
59838	GRAB	Quartz-carbonate vein in rhyolite, no visible sulphides.	110	4915
59839	GRAB	White banded chalcedony-quartz, trace pyrite, vuggy, minor limonite on fracture surfaces.	1	622
59840	GRAB	Grey-white, sugary textured, quartz-carbonate vein material, trace pyrite and galena.	247	23626
59841	GRAB	Quartz-carbonate vein, galena in blebs.	94	2033
59842	GRAB	Smoky grey to white quartz-carbonate vein, no visible sulphides.	41	1107
59843	GRAB	Quartz stringers in chlorite/sericite altered andesite, disseminated pyrite and malachite coating fracture surfaces.	1	197
59844	GRAB	Grey-white banded quartz-carbonate vein material with fine grained disseminated pyrite.	791	4433
59845	GRAB	White, sugary textured, quartz, minor carbonate, no visible sulphides, black manganese dendrites on joint surfaces.	18	3187
59846	GRAB	Quartz-carbonate vein material, no visible sulphides.	6	735
59847	GRAB	Smoky grey, vuggy quartz vein, pyrite blebs, minor iron staining.	1	135
59848	GRAB	Banded grey-blue-white quartz, trace banded pyrite.	4016	99999
59849	GRAB	Grey-brown, quartz-carbonate vein, no visible sulphides.	1146	4330

TA... ...OPER...
PROJECT 252

SOIL SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	NORTH	EAST	TYPE	MATERIAL	COLOUR	REMARKS	Au ppb	Ag ppb
56401	9800	10000	SOIL	TILL	BROWN		2	334
56402	9800	10050	SOIL	TILL	BROWN		2	344
56403	9800	10100	SOIL	TILL	BROWN		1	30
56404	9800	10150	SOIL	TILL	BROWN		4	30
56405	9800	10200	SOIL	TILL	BROWN		1	30
56406	9800	10250	SOIL	TILL	BROWN		4	30
56407	9800	10300	SOIL	TILL	BROWN		1	30
56408	9800	10350	SOIL	TILL	BROWN		1	30
56421	9900	9875	SOIL	TILL	BROWN		2	284
56420	9900	9925	SOIL	TILL	BROWN		2	763
56419	9900	9975	SOIL	TILL	BROWN		1	148
56418	9900	10025	SOIL	TILL	BROWN		1	104
56417	9900	10075	SOIL	TILL	BROWN		1	30
56416	9900	10125	SOIL	TILL	BROWN		2	89
56415	9900	10175	SOIL	TILL	BROWN		1	140
56414	9900	10225	SOIL	TILL	BROWN		1	229
56413	9900	10275	SOIL	TILL	BROWN		5	454
56412	9900	10325	SOIL	TILL	BROWN		4	387
56411	9900	10375	SOIL	TILL	BROWN		1	211
56410	9900	10425	SOIL	TILL	BROWN		2	108
56409	9900	10475	SOIL	TILL	BROWN		1	189
56422	10000	9700	SOIL	TILL	BROWN		1	134
56423	10000	9750	SOIL	TILL	BROWN		1	492
56424	10000	9800	SOIL	TILL	BROWN		1	403
56425	10000	9850	SOIL	TILL	BROWN		1	135
56426	10000	9900	SOIL	TILL	BROWN		1	39
56427	10000	9950	SOIL	TILL	BROWN		1	555
56428	10000	10000	SOIL	TILL	BROWN		3	207
56429	10000	10050	SOIL	TILL	BROWN		2	30
56430	10000	10100	SOIL	TILL	BROWN		1	112
56431	10000	10150	SOIL	TILL	BROWN		1	159
56432	10000	10200	SOIL	TILL	BROWN		1	147
56433	10000	10250	SOIL	TILL	GREY		1	88
56434	10000	10300	SOIL	TILL	GREY		1	37
56435	10000	10350	SOIL	TILL	BROWN		1	55
56436	10000	10400	SOIL	TILL	GREY		1	497
56437	10000	10450	SOIL	TILL	GREY		1	203
56438	10000	10500	SOIL	TILL	BROWN		24	269
56439	10000	10550	SOIL	TILL	GREY		5	222
56257	10100	9625	SOIL	TILL	BROWN		1	174

PROJECT 252

SAMPLE	NORTH	EAST	TYPE	MATERIAL	COLOUR	REMARKS	Au ppb	Ag ppb
56256	10100	9675	SOIL	TILL	BROWN		1	367
56255	10100	9725	SOIL	TILL	BROWN		1	35
56254	10100	9775	SOIL	TILL	BROWN		2	101
56253	10100	9825	SOIL	TILL	BROWN		1	156
56252	10100	9875	SOIL	TILL	BROWN		1	135
56251	10100	9925	SOIL	TILL	BROWN		2	116
56250	10100	9975	SOIL	TILL	BROWN		11	1013
56249	10100	10000	SOIL	TILL	BROWN		6	1126
56248	10100	10025	SOIL	TILL	BROWN		1	474
56247	10100	10075	SOIL	TILL	BROWN		1	74
56246	10100	10125	SOIL	TILL	BROWN		4	757
56245	10100	10175	SOIL	TILL	BROWN		1	96
56244	10100	10225	SOIL	TILL	BROWN		2	92
56243	10100	10275	SOIL	TILL	BROWN	LARGE BOULDERS.	2	464
56242	10100	10325	SOIL	TILL	BROWN		1	158
56241	10100	10375	SOIL	TILL	BROWN		1	201
56240	10100	10425	SOIL	TILL	BROWN	EDGE OF BURNT ZONE.	4	410
56239	10100	10475	SOIL	TILL	BROWN		2	203
56238	10100	10525	SOIL	TILL	BROWN	LAKE AT 105+50. OUTCROP AT 105+20.	5	73
52901	10200	9500	SOIL	TILL	BROWN		7	433
52902	10200	9550	SOIL	TILL	BROWN		3	127
56501	10200	10500	SOIL	TILL	BLACK		3	225
56502	10200	10550	SOIL	COLLUVIUM	BROWN		1	52
56225	10300	9625	SOIL	TILL	BROWN		1	77
56226	10300	9675	SOIL	TILL	BROWN		2	42
56227	10300	9725	SOIL	TILL	BROWN	REDDISH-BROWN.	1	46
56228	10300	9775	SOIL	TILL	BROWN	OUTCROP 97+40.	2	179
56229	10300	9825	SOIL	TILL	BROWN		22	137
56230	10300	9875	SOIL	TILL	BROWN		63	13398
56231	10300	9925	SOIL	TILL	BROWN	ROCKY.	3	718
56232	10300	9975	SOIL	TILL	BROWN		1	450
56233	10300	10000	SOIL	TILL	BROWN		1	152
56234	10300	10025	SOIL	TILL	BROWN		3	606
56235	10300	10075	SOIL	TILL	BROWN	SUBCROP TO SOUTH.	7	195
56236	10300	10125	SOIL	TILL	BROWN	OUTCROP.	34	461
56237	10300	10175	SOIL	TILL	BROWN	LARGE BOULDERS TO SOUTH. LAKE AT 102+15.	1	99
56176	10400	10550	SOIL	TILL	BROWN	BURN.	1	209
56177	10400	10600	SOIL	TILL	BROWN		1	157
56178	10400	10650	SOIL	TILL	BROWN		1	220
56455	10500	9775	SOIL	TILL	BROWN	NO SAMPLE AT 97+25 E.	2	283

SAMPLE	NORTH	EAST	TYPE	MATERIAL	COLOUR	REMARKS	Au ppb	Ag ppb
56454	10500	9825	SOIL	TILL	BROWN		2	155
56453	10500	9875	SOIL	TILL	BROWN		2	82
56452	10500	9925	SOIL	TILL	BROWN		2	31
56451	10500	9975	SOIL	TILL	BROWN		2	75
56450	10500	10000	SOIL	TILL	BROWN		6	69
56449	10500	10025	SOIL	TILL	BROWN		4	37
56448	10500	10075	SOIL	TILL	BROWN		11	57
56447	10500	10175	SOIL	TILL	BROWN	NO SAMPLE AT 101+25.	5	49
56446	10500	10225	SOIL	TILL	BROWN		1	252
56445	10500	10275	SOIL	TILL	BROWN		2	152
56444	10500	10325	SOIL	TILL	BROWN		8	256
56443	10500	10375	SOIL	TILL	BROWN		3	134
56442	10500	10425	SOIL	TILL	BROWN		13	307
56441	10500	10475	SOIL	TILL	BROWN		2	67
56440	10500	10525	SOIL	TILL	BROWN		2	76
56628	10600	10550	SOIL	TILL	BROWN		102	215
56627	10600	10600	SOIL	TILL	BROWN		1	202
56626	10600	10650	SOIL	TILL	ORANGE		1	311
56625	10600	10700	SOIL	TILL	BROWN		1	381
56624	10600	10750	SOIL	TILL	BROWN		1	167
56623	10600	10800	SOIL	TILL	BROWN		2	319
56622	10600	10850	SOIL	TILL	BROWN		4	313
56478	10700	9875	SOIL	TILL	BROWN		11	197
56479	10700	9925	SOIL	TILL	BROWN		3	192
56480	10700	9975	SOIL	TILL	BROWN		12	172
56481	10700	10000	SOIL	TILL	BROWN		3	59
56482	10700	10025	SOIL	TILL	BROWN		9	83
56483	10700	10075	SOIL	TILL	BROWN		2	95
56484	10700	10125	SOIL	TILL	BROWN	NO SAMPLE AT 101+75.	3	196
56485	10700	10225	SOIL	TILL	BROWN		25	1601
56486	10700	10275	SOIL	TILL	BROWN		3	364
56487	10700	10325	SOIL	TILL	GREY		2	127
56488	11000	11050	SOIL	TILL	BROWN		1	88
56489	11000	11100	SOIL	TILL	BROWN		1	109
56490	11000	11150	SOIL	TILL	BROWN		7	235
56654	11200	11050	SOIL	TILL	BROWN		1	62
56655	11200	11100	SOIL	TILL	ORANGE		1	243
56656	11200	11150	SOIL	TILL	ORANGE		1	200
56657	11200	11200	SOIL	TILL	BROWN		4	108
56658	11200	11250	SOIL	TILL	BROWN		2	87

TAM...PERT.
PROJECT 252

SOIL SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	NORTH	EAST	TYPE	MATERIAL	COLOUR	REMARKS	Au ppb	Ag ppb
56922	11400	11050	SOIL	TILL	BROWN		2	91
56921	11400	11100	SOIL	TILL	BROWN		2	714
56920	11400	11150	SOIL	TILL	BROWN		2	93
56919	11400	11200	SOIL	TILL	BROWN		1	75
56690	11400	11250	SOIL	TILL	BROWN		1	123
56858	11600	10000	SOIL	TILL	BROWN		1	69
56857	11600	10050	SOIL	TILL	BROWN		1	30
56856	11600	10100	SOIL	TILL	GREY		1	178
56855	11600	10150	SOIL	TILL	BROWN		1	86
56854	11600	10200	SOIL	TILL	BROWN		2	148
56853	11600	10250	SOIL	TILL	BROWN		1	350
56852	11600	10300	SOIL	TILL	BROWN		20	266
56851	11600	10350	SOIL	TILL	BROWN		1	156
56850	11600	10400	SOIL	TILL	BROWN		1	87
56849	11600	10450	SOIL	TILL	GREY		1	129
56848	11600	10500	SOIL	TILL	GREY		1	47
56847	11600	10550	SOIL	TILL	GREY		1	30
56846	11600	10600	SOIL	TILL	GREY		2	30
56845	11600	10650	SOIL	TILL	BROWN		1	30
56844	11600	10700	SOIL	TILL	BROWN		1	30
56843	11600	10750	SOIL	TILL	BROWN		1	30
56842	11600	10800	SOIL	TILL	BROWN		1	30
56841	11600	10850	SOIL	TILL	BROWN		1	47
56840	11600	10900	SOIL	TILL	BROWN		3	318
56839	11600	10950	SOIL	TILL	BROWN		2	60
56838	11600	11000	SOIL	TILL	BROWN		1	92
56837	11600	11050	SOIL	TILL	BROWN		1	42

TAM PROPERTY
PROJECT 252

ROCK SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	TYPE	DESCRIPTION	Au ppb	Ag ppb
53823	GRAB	Rhyolite breccia with quartz matrix. Quartz and matrix cut by quartz-carbonate veinlets.	90	6875
53824	GRAB	Ferruginous quartz phyric rhyolite with quartz veins, cockscombe quartz veining with cavities infilled with limonite.	27	231
53825	GRAB	Ferruginous rhyolite.	5	108
53826	GRAB	Ferruginous rhyolite with vuggy quartz veining, some quartz veining cockscombe.	245	2020
53827	GRAB	White quartz carbonate vein, trace disseminated pyrite.	44	1874
53828	GRAB	Ferruginous, silicified quartz phyric rhyolite, iron staining, minor quartz veining.	8	152
56054	GRAB	Quartz vein, white bull quartz.	21	4897
56055	GRAB	Grey, sheared, totally silicified feldspar phyric lapillistone, 1-2% disseminated very fine grained pyrite.	2	47
56057	GRAB	Grey-white quartz, wispy, pinkish coloured material in quartz, trace disseminated pyrite.	5	30
56058	GRAB	Dark grey quartz breccia, trace to 0.5% disseminated fine grained pyrite.	272	46472
56059	GRAB	Grey-white, massive quartz-carbonate, trace disseminate pyrite.	34	4413
56060	GRAB	Grey-white banded quartz-carbonate vein material, trace disseminated pyrite, local wispy pink quartz.	710	10407
56061	GRAB	6cm wide banded, white-grey-pink quartz-carbonate, iron stained.	22	1486
56062	GRAB	White-grey banded quartz-carbonate.	38	2332
56063	GRAB	White to wispy pink, vuggy quartz-carbonate vein material.	5	341
56064	GRAB	Grey-white quartz-carbonate vein material with siderite, trace disseminated fine grained pyrite.	191	20810
56065	GRAB	Grey quartz phyric rhyolite, 1-2% disseminated pyrite.	5	186
56066	GRAB	Quartz-carbonate-chalcedony breccia, 0.5-1% disseminated pyrite, trace galena.	1571	99999
56069	GRAB	Mottled, grey-white quartz-carbonate and quartz breccia, trace disseminated pyrite, trace malachite stain.	860	99999
56070	GRAB	Mottled, white-grey quartz-carbonate breccia, iron staining on fractures.	70	51429
56071	GRAB	Intensely silicified, white, fine grained rock with rounded clasts in white silica matrix, clasts are off white to dark grey, trace disseminated fine grained sulphides.	3	673
56072	GRAB	Mottled, grey-white quartz-carbonate.	303	61655
56073	GRAB	Grey-white, quartz-carbonate breccia, 0.5% disseminated pyrite, trace galena.	542	78103
56167	GRAB	Intensely silicified rhyolite with quartz stockworks, trace disseminated pyrite.	21	409
56168	GRAB	Quartz stockworks in silicified rhyolite, quartz veining up to 1cm wide, vuggy.	6	160
56169	GRAB	Intensely silicified rhyolite, trace disseminated pyrite.	22	414
56170	GRAB	Quartz breccia, trace to 0.5% disseminated pyrite.	15	199
56171	GRAB	Brecciated, banded, vuggy quartz, trace to 0.5% disseminated fine grained pyrite, trace galena.	1295	41607
56172	GRAB	Banded quartz, white to grey, trace disseminated sulphides.	2240	90658
56173	GRAB	Massive quartz, wispy pink colour in white bull quartz, trace disseminated fine grained sulphides.	130	26960
56174	GRAB	20cm wide quartz vein and quartz breccia, trace disseminated pyrite. Host is maroon quartz and feldspar phyric rhyolite.	232	24508
56191	GRAB	Grey-white banded quartz in rhyolite breccia, less than 1% disseminated fine grained pyrite.	437	37034
56192	GRAB	Rhyolite breccia infilled with quartz, abundant limonite, trace disseminated pyrite.	17	492
56193	GRAB	Grey, intensely silicified rhyolite breccia, 1-2% disseminated pyrite.	5	154
56194	GRAB	Grey-white, mottled quartz, iron stained, less than 1% disseminated fine grained pyrite.	27	3455
56195	GRAB	Mottled, grey-white orange massive quartz with crosscutting quartz veinlets.	231	52371
56196	GRAB	Mottled, grey-white massive quartz, local black banding, trace malachite stain, trace disseminated pyrite.	233	71364

TAM PROPERTY
PROJECT 252

ROCK SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	TYPE	DESCRIPTION	Au ppb	Ag ppb
56197	GRAB	Mottled, grey-white massive quartz with 1-2% disseminated pyrite.	3640	99999
56224	GRAB	Siliceous, altered tuff, trace disseminated pyrite.	92	2759
56725	CHIP	Ted vein.	129	30166
56726	CHIP	Ted vein.	151	23816
56727	CHIP	Ted vein.	435	46773
56728	CHIP	Ted vein.	227	44802
56729	CHIP	Ted vein.	267	42496
56730	CHIP	Ted vein.	1340	99999
56731	CHIP	Ted vein.	456	81119
56732	CHIP	Ted vein.	743	98271
56733	CHIP	Ted vein.	406	46192
56734	CHIP	Ted vein. Mostly calcite.	183	17656
56735	CHIP	Ted vein. Mostly calcite.	223	7626
56736	CHIP	Ted vein. Mostly calcite.	179	6615
56737	CHIP	Ted vein. Mostly calcite.	172	5486
56738	CHIP	Ted vein. Mostly calcite.	97	5176
56739	CHIP	Ted vein.Mostly calcite.	68	3691
56740	CHIP	Ted vein.Mostly calcite.	61	5272
56741	CHIP	Ted vein. Mostly calcite.	20	1230
56742	CHIP	Ted vein.	82	10288
56743	CHIP	Ted vein.	42	11878
56744	CHIP	Ted vein.	122	19665
56745	CHIP	Ted vein.	206	16311
56746	CHIP	Ted vein.	101	16780
56747	CHIP	Ted vein. Trace disseminated galena.	82	10933
56748	CHIP	Ted vein.	162	22034
56749	CHIP	Ted vein.	279	24313
56750	CHIP	Ted vein.	119	32485
56751	CHIP	Ted vein.	63	2645
56752	CHIP	Ted vein.	223	18787
56753	CHIP	Ted vein.	146	8301
56754	CHIP	Ted vein.	33	4686
56755	CHIP	Ted vein.	24	4696
56756	CHIP	Ted vein.	204	13242
56757	CHIP	Ted vein.	295	29634
56758	CHIP	Ted vein.	1480	99999
56759	CHIP	Ted vein.	624	99999
56760	CHIP	Ted vein.	163	28535
56761	CHIP	Ted vein.	100	10140
56762	CHIP	Ted vein.	1091	99999

TAM PROPERTY
PROJECT 252

ROCK SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	TYPE	DESCRIPTION	Au ppb	Ag ppb
56763	CHIP	Ted vein.	340	99999
56764	CHIP	Ted vein.	714	99999
56765	CHIP	Ted vein.	129	66731
56766	GRAB	Quartz, limonitic stain on surfaces.	366	93731
56767	GRAB	Rhyolite with disseminated pyrite.	31	3289
59700	GRAB	Smoky grey-brown, vuggy quartz breccia, trace sulphides.	97	3104
59701	GRAB	Smoky grey to white, partially recrystallized, brecciated quartz vein, minor iron and limonite stain, trace arsenopyrite (?), minor muscovite.	30	5415
59703	GRAB	Silcified rhyolite, minor brecciation, trace sulphides on fracture surfaces and in veinlets on breccia fragments.	38	781
59704	GRAB	1cm wide quartz vein and quartz on fracture surfaces, in banded flow banded rhyolite host.	20	274
59709	GRAB	Quartz vein with trace disseminated pyrite and trace bornite/azurite in siliceous rhyolite host, less than 1% sulphides.	2	1318
59710	GRAB	Feldspar phyric rhyolite, greenish-grey groundmass, 1.5-2% disseminated pyrite.	4	30
59711	GRAB	Intensely silicified rhyolite, limonite on fracture surfaces, trace pyrite.	5	672
59712	GRAB	5cm wide vuggy quartz vein with minor coarse grained pyrite in a rhyodacite host. Rock is limonitic.	9	79
59713	GRAB	Vitreous quartz vein, limonite on fractures, areas of wispy sulphides.	1136	50712
59714	GRAB	10cm wide quartz vein in rhyolite outcrop, both milky and vitreous quartz ankeritic, fine grained disseminated galena in pockets.	784	11065
59715	GRAB	5cm wide quartz vein in propyllitized rhyolite outcrop, manganese and limonite stain, trace sulphides.	92	1944
59716	GRAB	Light purple, siliceous rhyolite breccia, disseminated fine grained pyrite and sulphides throughout, limonite and hematite veins surrounding fragments.	38	1900
59717	GRAB	Brecciated quartz vein in rhyolite, limonitic, trace sulphides.	62	4743
59718	GRAB	20cm wide, sugary textured quartz vein, amethyst (?) in vein.	39	557
59720	GRAB	Quartz-rhyolite breccia with quartz stockworks, trace fine grained disseminated pyrite.	1	177
59721	GRAB	Grey silicified rhyolite with up to 10% disseminated sulphides.	1	107
59722	GRAB	Mottled, green-purple-grey, silicified rhyolite with bands of pyrite and galena, sulphides coated on fracture surfaces to 8%.	2	351
59723	GRAB	Light grey-white, sugary textured, vuggy quartz, no visible sulphides.	189	2605
59724	GRAB	Brecciated quartz vein, disseminated pyrite and very fine grained blue-grey sulphides, purplish carbonate "ring" around quartz.	793	73048
59725	GRAB	15cm wide sugary textured quartz vein, very fine grained galena and pyrite.	1580	17479
59726	GRAB	Intensely silicified, white-maroon, quartz-feldspar phyric rhyolite, trace to 0.5% disseminated pyrite.	46	541
59727	GRAB	Mottled, grey-white, chloritic quartz with trace to 0.5% disseminated pyrite, trace galena, chalcopyrite.	2540	99999
59737	GRAB	Grey-white, vuggy quartz, trace disseminated pyrite, quartz is banded, host is rhyolite, coarse quartz stockworks.	508	36907
59738	GRAB	Massive, grey-white quartz, darker grey smoky sections, trace very fine grained sulphides.	219	12047
59739	GRAB	Grey-white banded quartz with trace disseminated pyrite and galena.	832	99999
59740	GRAB	Sugary textured quartz vein with pyrite and galena.	111	2857
59741	GRAB	Limonite coated, grey-white quartz vein, trace disseminated pyrite.	214	76507

TAM PROPERTY
PROJECT 252

ROCK SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	TYPE	DESCRIPTION	Au ppb	Ag ppb
59742	GRAB	Quartz vein, fine grained galena.	1159	99999
59744	GRAB	Light smoky grey to white, sugary textured, massive quartz, trace pyrite.	75	12064
59745	GRAB	Cherty, blue-grey silica fine grained disseminated pyrite.	3	389
59746	GRAB	Completely silicified rhyolite breccia with quartz stockwork and quartz veinlets up to 2cm wide, less than 1% disseminated pyrite.	342	16938
59747	GRAB	Grey to white quartz vein, minor pyrite and limonite.	272	51619
59748	GRAB	Smoky grey to white quartz, no visible sulphides, minor calcite.	176	12713
59749	GRAB	Grey-green silicified rhyodacite, 10-15% pyrite.	9	288
59750	GRAB	1cm wide band of sulphides in white, vuggy quartz, limonite coating rock.	1085	91965
59751	GRAB	Grey to white quartz, wispy pink areas in quartz, less than 1% disseminated pyrite, minor limonite coatings.	436	85906
59752	GRAB	Intensely silicified rhyolite breccia with quartz-carbonate matrix, pyrite in coarse cubes.	256	25544
59753	GRAB	Quartz rhyolite breccia, quartz-chlorite and quartz-carbonate matrix, trace pyrite.	47	658
59754	GRAB	Calcite-quartz vein, minor galena and pyrite in blebs.	1305	61798
59764	GRAB	Quartz rhyolite breccia, siliceous, pyrite on clasts and in quartz, iron staining.	185	92955
59765	GRAB	Sugary textured quartz vein, trace bluish fine grained sulphides, milky white bands of chalcedony (?)	980	36129
59766	GRAB	White quartz with grey-blue bands and fine grained bluish sulphides.	1189	99999
59767	GRAB	White quartz vein with band of vitreous quartz, trace sulphides.	68	3926
59768	GRAB	White, sugary textured quartz vein with minor sulphides in bluish blebs.	12700	99999
59769	GRAB	White-grey, sugary textured, vuggy quartz vein, minor limonite, no visible sulphides.	270	20727
59770	GRAB	Smoky grey to off white quartz vein, no visible sulphides.	238	3624
59771	GRAB	Silicified flow banded rhyolite and grey quartz with disseminated pyrite to 4%.	30	203
59772	GRAB	1m wide quartz breccia vein, trace fine grained sulphides.	36	537
59773	GRAB	Quartz rhyolite breccia, disseminated pyrite to 1%.	34	329
59774	GRAB	Milky grey quartz vein, chlorite, malachite (?), trace sulphides.	96	1187
59775	GRAB	Quartz vein, massive sugary textured, white quartz, no visible sulphides.	46	6087
59776	GRAB	Bluish to white chalcedonic quartz breccia, limonite coated clasts are very fine grained chalcedony-quartz.	644	525
59777	GRAB	Grey-white, sugary textured quartz vein material, no visible sulphides.	398	22791
59778	GRAB	White-grey, sugary textured quartz vein with minor grey-darker grey quartz sections, no visible sulphides, minor muscovite.	47	1478
59779	GRAB	Siliceous rhyolite with coarse grained crystalline quartz vein, vuggy and heavy limonite, no visible sulphides.	9	715
59780	GRAB	Banded 8cm wide quartz vein with chlorite on margins of banding.	614	38475
59781	GRAB	Quartz breccia in ankerite matrix, amethyst (?), pyrite and galena to 1%.	109	5828
59782	GRAB	Quartz vein, sugary textured quartz-carbonate vein, no visible sulphides.	4640	24848
59800	GRAB	Silicified quartz-rhyolite breccia, pale greenish altered feldspar, phenocrysts in rhyolite fragments, no visible sulphides.	33	847
59801	GRAB	Grey, silicified tuff breccia with 1-2mm wide quartz stringers, vuggy, fine grained sulphides, minor limonite.	1	253
59802	GRAB	Grey-brown, completely silicifed chloritic rhyolite, no visible sulphides.	17	825
59803	GRAB	Stockwork veins up to 4cm wide in rhyolite host, no visible sulphides.	1	481
59804	GRAB	1.5m wide, grey-white quartz vein, minor galena, hematite, trace pyrite.	28	5145
59805	GRAB	Grey-brown, silicified rhyolite, greenish feldspar phenocrysts, trace pyrite and chalcopyrite (?)	1	169

TAM PROPERTY
PROJECT 252

ROCK SAMPLE DESCRIPTIONS AND GEOCHEMISTRY

SAMPLE	TYPE	DESCRIPTION	Au ppb	Ag ppb
59818	GRAB	Maroon calcareous rhyolite, carbonate "halo", weathering, disseminated fine grained pyrite (?), chlorite, trace malachite.	9	117
59819	GRAB	Rhyolite with 0.7cm quartz-carbonate vein, pyrite, galena (?) in vein, disseminated pyrite throughout.	10	148
59820	GRAB	Propylitized rhyolite with distinct greenish quartz rich matrix, disseminated pyrite and bluish coloured metallic mineral.	2	105
59828	GRAB	Quartz-carbonate vein, no visible sulphides.	262	14942
59829	GRAB	Quartz-carbonate rich rhyolite breccia, disseminated coarse grained pyrite.	1592	99999
59830	GRAB	Grey-brown quartz carbonate vein, minor pyrite.	131	30406
59831	GRAB	Quartz-carbonate vein material, fine grained pyrite and coarse blebs of pyrite on fracture surfaces.	194	26977
59832	GRAB	Quartz vein material with pale green silicified fragments of sericite/chlorite, also wispy pinkish coloured quartz with white quartz, disseminated galena and pyrite.	21	18985
59833	GRAB	3cm wide quartz-carbonate vein in rhyolite host, disseminated pyrite in rhyolite and pyrite blebs in vein, trace galena.	6	1161

APPENDIX II

GEOCHEMICAL ANALYSES

ANALYTICAL PROCEDURES

Rock Samples:

ICP: A 30 gram sample is digested with 180 millilitres 3-1-2 HCl-HNO_3-H_2O at 95° Centigrade for one hour and is diluted to 100 millilitres 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 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.

Au: Gold is extracted by aqua-regia/MIBK extract, GF/AA finished.

Soil Samples:

Same as above utilizing a 15 g sample.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(6[illegible])253-[illegible] FAX(604)[illegible]

TAM + TAKON

FILE TAM

GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE

Phelps Dodge Corp. PROJECT 252 File # 96-2202 Page 1

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
56163	3.3	27.4	13.4	7.1	1328	5	3	131	1.72	146.8	<5	1	6	.08	2.8	.1	4	.03	.013	4	11	.01	131	<.01	<2	.12	<.01	.13	3	<.2	35	<.3	<.2	.8	85
56164	1.0	6.3	3.1	7.5	594	4	<1	1254	.52	14.2	<5	1	34	.10	.3	<.1	2	5.80	.005	4	11	.06	36	<.01	3	.06	.01	.06	4	<.2	15	<.3	<.2	.6	41
56165	1.6	23.1	97.9	252.8	320	5	5	545	1.45	12.8	<5	3	5	3.26	1.0	<.1	2	.07	.017	10	16	.02	50	<.01	<2	.12	.01	.13	2	<.2	26	<.3	<.2	.8	3
56166	17.5	6.2	4.8	2.1	6634	5	3	119	.32	4.5	<5	<1	42	.04	14.5	6.9	2	.01	<.002	<1	10	<.01	1943	<.01	<2	.02	<.01	<.01	3	<.2	37	.3	2.2	.5	3
56167	2.2	9.6	25.7	32.4	409	4	1	180	1.39	17.5	<5	3	20	.10	1.2	.1	2	.03	.019	8	13	<.01	305	<.01	2	.11	.01	.15	3	<.2	71	<.3	<.2	.6	21
56168	1.2	10.3	5.3	27.7	160	6	4	397	1.52	29.5	<5	3	7	.11	.5	<.1	4	.08	.021	8	9	.03	155	<.01	3	.16	.01	.14	4	<.2	19	<.3	<.2	.8	6
56169	1.7	10.3	7.3	19.2	414	6	5	541	1.46	78.2	<5	3	8	.07	.8	<.1	6	.57	.018	9	13	.04	67	<.01	2	.16	.01	.16	4	<.2	16	<.3	<.2	.9	22
56170	1.2	9.8	8.2	53.9	199	4	2	304	1.08	4.5	<5	2	8	.46	.3	<.1	2	.12	.014	7	8	.02	56	<.01	<2	.15	.02	.13	3	<.2	37	<.3	<.2	1.3	15
56171	2.1	56.5	394.9	383.0	41607	4	6	4087	2.37	35.0	<5	<1	101	3.78	9.2	<.1	5	5.94	.009	7	10	1.83	59	<.01	<2	.04	<.01	.02	<2	<.2	95	.6	<.2	.6	1295
56172	1.9	127.1	401.1	278.4	90658	3	4	3607	2.03	34.5	<5	<1	109	2.72	25.8	<.1	3	5.79	.003	6	6	1.91	83	<.01	<2	.02	.01	.01	<2	<.2	217	1.3	<.2	.7	2240
56173	1.6	20.1	24.0	55.2	26960	4	<1	1544	.31	4.5	<5	<1	49	.73	5.1	<.1	2	4.98	<.002	1	14	.05	15	<.01	<2	.02	<.01	.01	5	<.2	121	.4	<.2	.7	130
56174	1.9	43.8	286.8	935.7	24508	4	1	2972	.71	37.2	<5	<1	19	8.10	3.3	<.1	3	3.64	.003	4	10	.03	64	<.01	2	.06	<.01	.05	<2	<.2	223	2.4	<.2	1.2	232
56175	1.4	5.2	1.9	3.3	189	4	<1	170	.33	1.6	<5	<1	1	.03	<.2	<.1	1	.03	.002	<1	16	<.01	10	<.01	<2	.01	<.01	<.01	3	<.2	<10	<.3	<.2	.5	8
56191	2.3	111.9	1099.1	1216.6	37034	3	2	1789	1.09	65.4	<5	2	21	5.60	5.7	<.1	1	5.00	.015	5	8	.01	54	<.01	<2	.08	<.01	.09	<2	<.2	457	2.4	<.2	.9	437
56192	1.2	6.2	20.8	82.0	492	2	4	1775	1.86	24.5	<5	1	26	1.09	.4	<.1	4	3.18	.013	20	10	.37	334	<.01	<2	.19	.01	.14	2	<.2	28	<.3	<.2	.7	17
56193	1.1	17.9	6.9	22.2	154	6	3	203	2.16	9.8	<5	1	14	.09	.2	<.1	26	.11	.036	7	13	.38	188	<.01	<2	.57	.06	.10	4	<.2	17	<.3	<.2	3.3	5
56194	3.5	13.0	34.5	34.4	3455	7	4	188	1.52	11.8	<5	1	6	.22	.6	.1	3	.04	.010	4	16	.01	62	<.01	<2	.10	<.01	.10	4	<.2	15	1.0	1.7	<.5	27
RE 56194	3.5	13.8	35.3	34.8	3605	5	4	183	1.53	11.5	<5	2	6	.21	.7	<.1	3	.04	.010	4	16	.01	67	<.01	<2	.10	<.01	.11	5	<.2	16	1.0	1.8	.5	28
56195	1.5	58.3	1795.1	1213.3	52371	5	1	986	.64	22.4	<5	<1	15	5.92	3.2	<.1	2	2.75	.004	1	11	.02	47	<.01	<2	.04	<.01	.02	2	<.2	232	2.5	<.2	.9	231
56196	23.0	99.9	745.1	158.3	71364	6	1	526	.87	78.3	<5	<1	5	2.47	24.3	<.1	2	.32	.005	<1	21	<.01	73	<.01	<2	.04	<.01	.03	4	<.2	57	6.2	<.2	.5	233
56197	1.1	261.0	564.3	1739.1	99999	4	<1	4485	.93	101.6	5	<1	38	6.86	33.0	<.1	<1	12.07	.005	2	6	.01	36	<.01	<2	.03	<.01	.03	<2	<.2	781	8.4	<.2	.7	3640
59700	1.9	14.4	16.9	17.7	3104	5	2	249	.52	7.5	<5	<1	2	.17	9.4	<.1	2	.04	.002	6	17	<.01	244	<.01	2	.01	<.01	<.01	4	<.2	66	<.3	<.2	.8	97
59701	1.4	7.8	6.2	17.0	5415	7	1	191	.50	2.5	<5	<1	1	.08	.4	<.1	2	.08	.002	<1	12	<.01	14	<.01	2	.01	<.01	<.01	5	<.2	70	<.3	<.2	.5	30
59702	1.6	6.2	1.9	13.3	151	6	1	313	1.50	1.5	<5	1	13	.04	<.2	<.1	13	.13	.014	4	19	.07	33	.07	<2	.22	.05	.06	5	<.2	15	<.3	<.2	1.5	4
59703	1.3	44.7	6.5	37.5	781	3	2	1137	1.25	5.7	<5	2	4	.46	2.0	<.1	4	.14	.013	6	12	.01	95	<.01	<2	.11	<.01	.12	4	<.2	23	<.3	<.2	.7	38
59704	7.8	16.9	111.9	139.3	274	4	8	2046	2.08	8.4	<5	1	24	1.12	2.2	<.1	8	2.94	.019	8	13	.45	71	<.01	<2	.09	<.01	.10	2	<.2	18	<.3	<.2	.8	20
59705	1.2	148.9	5.3	80.7	291	4	9	1158	4.06	4.3	<5	1	14	.22	1.2	<.1	35	.49	.153	17	7	.03	114	.03	3	.26	.03	.12	2	<.2	16	<.3	<.2	1.2	1
59706	.6	13.0	8.4	100.2	86	1	2	1469	4.02	2.8	<5	<1	30	.40	<.2	.1	43	3.19	.017	6	7	.33	61	<.01	6	.41	.01	.13	<2	<.2	21	1.0	.2	1.4	<1
59707	1.0	52.4	96.7	147.8	150	4	2	727	.88	18.5	<5	<1	10	.39	2.3	.1	3	.71	.012	5	9	.15	321	<.01	<2	.17	<.01	.13	2	<.2	<10	<.3	<.2	1.1	<1
59708	3.2	20.8	76.6	10.8	222	4	1	264	.51	13.7	<5	<1	3	.09	4.1	<.1	3	.04	.006	3	13	.01	90	<.01	2	.10	<.01	.07	4	<.2	<10	<.3	<.2	.6	1
59709	3.4	13.6	187.1	109.0	1318	7	1	195	1.35	31.8	<5	2	18	.56	2.2	.1	3	.02	.017	7	11	.01	264	<.01	2	.16	.03	.14	2	<.2	41	<.3	<.2	.9	2
59710	.3	168.9	3.5	85.9	<30	54	36	1374	5.66	14.5	<5	<1	30	.21	<.2	<.1	75	2.32	.036	3	94	2.12	210	<.01	<2	2.72	.02	.05	<2	<.2	17	<.3	<.2	9.7	4
STANDARD D2/HG-500/AU-R	24.9	122.6	102.2	267.0	1910	36	15	1110	4.25	78.7	23	18	52	2.21	9.2	22.6	79	.80	.094	19	58	1.15	272	.16	30	2.32	.07	.76	18	2.5	463	.5	2.0	7.2	476

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 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: ROCK AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 12 1996 **DATE REPORT MAILED:** June 26/96 **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
59711	2.6	27.4	20.5	84.6	672	7	4	258	1.36	14.6	<5	3	11	.26	5.4	<.1	3	.04	.021	10	12	.01	80	<.01	2	.17	.01	.14	3	<.2	24	<.3	<.2	<.5	5
59712	1.1	12.0	3.8	9.4	79	5	4	329	.76	10.4	<5	1	13	.08	1.2	<.1	3	.13	.011	6	10	.03	458	<.01	2	.18	.01	.12	3	<.2	11	<.3	.2	.6	9
59713	2.1	53.7	317.0	270.7	50712	4	4	2997	2.17	29.7	<5	<1	55	1.87	11.9	<.1	6	2.65	.008	4	13	1.00	123	<.01	<2	.05	<.01	.03	4	<.2	104	1.7	<.2	.5	1136
59714	1.3	39.8	138.7	1764.0	11065	2	7	5796	3.94	32.7	<5	1	95	10.92	14.2	<.1	18	8.87	.006	12	9	2.50	187	<.01	<2	.06	.01	.05	<2	<.2	780	.6	<.2	<.5	784
59715	4.1	10.4	79.3	246.8	1944	6	3	663	1.11	28.0	<5	<1	8	2.49	1.5	<.1	2	.19	.005	2	14	.02	48	<.01	3	.08	<.01	.08	5	<.2	85	<.3	<.2	<.5	92
59716	1.5	10.2	44.9	165.0	1900	1	4	2052	1.45	18.3	<5	3	12	.90	1.4	<.1	8	1.46	.016	9	11	.08	80	<.01	<2	.12	<.01	.12	<2	<.2	33	<.3	<.2	<.5	38
59717	1.2	78.8	697.4	2427.8	4743	3	2	3093	.57	49.3	<5	1	27	11.68	5.7	<.1	2	5.54	.006	4	9	.02	31	<.01	<2	.05	<.01	.06	2	<.2	564	.7	<.2	.7	62
59718	1.4	9.2	36.9	91.6	557	4	1	1371	.41	6.1	<5	<1	19	.79	1.0	<.1	1	2.74	.004	2	14	.01	67	<.01	<2	.06	<.01	.05	3	<.2	10	<.3	<.2	<.5	39
59720	1.4	6.5	7.4	34.4	177	4	2	357	.97	9.5	<5	2	5	.19	.5	<.1	3	.42	.015	7	12	.01	87	<.01	2	.13	<.01	.13	5	<.2	14	<.3	<.2	.5	1
59721	1.7	6.5	7.5	48.6	107	5	5	535	3.82	6.5	<5	1	6	.19	2.4	<.1	55	.29	.097	5	15	.02	99	.03	<2	.20	<.01	.20	5	<.2	<10	<.3	<.2	.9	1
59722	1.0	7.1	11.4	67.0	351	4	7	655	2.58	4.7	<5	1	6	.27	1.3	.1	24	.45	.041	6	11	.06	300	.01	3	.30	<.01	.27	4	.2	<10	<.3	.2	1.6	2
59723	2.2	17.4	19.0	43.4	2605	4	1	278	.47	6.8	<5	<1	2	.62	4.5	<.1	1	.17	<.002	<1	17	<.01	21	<.01	<2	.02	<.01	.01	6	<.2	<10	<.3	<.2	<.5	189
59724	1.4	139.9	301.7	384.4	73048	4	1	6497	.45	78.5	<5	1	19	2.35	3.7	<.1	2	5.80	.006	5	10	.01	121	<.01	<2	.11	<.01	.01	2	<.2	88	4.4	<.2	<.5	793
59725	1.4	9.4	48.4	42.9	17479	4	1	1999	.26	5.6	<5	<1	21	.51	1.9	<.1	1	5.28	.002	1	12	.01	54	<.01	<2	.03	<.01	.01	3	<.2	<10	1.1	<.2	<.5	1580
59726	1.2	10.0	11.0	64.0	541	6	4	1294	1.46	4.1	<5	2	28	1.07	.8	<.1	6	1.84	.014	14	10	.11	218	<.01	<2	.20	.02	.17	4	<.2	<10	<.3	<.2	.6	46
59727	1.2	1423.9	3161.8	3521.9	99999	<1	<1	7236	1.02	628.3	5	<1	48	24.63	85.3	.5	1	14.55	<.002	2	8	.02	14	<.01	<2	.02	<.01	.02	<2	1.0	627	14.1	1.0	2.9	2540
59737	2.0	125.8	1074.5	1064.8	36907	5	1	836	1.87	103.6	<5	2	4	4.52	16.4	<.1	2	.20	.012	6	11	.01	61	<.01	<2	.10	<.01	.09	<2	<.2	391	2.4	<.2	<.5	508
59738	2.1	35.4	71.1	110.8	12047	5	1	465	.50	14.9	<5	<1	2	.75	3.0	<.1	1	.29	.003	<1	20	<.01	50	<.01	<2	.01	<.01	.01	4	<.2	16	.7	<.2	<.5	219
59739	3.6	228.2	6022.9	3274.5	99999	1	<1	6420	.74	111.1	<5	<1	46	17.47	29.8	.5	1	14.03	<.002	2	7	.04	9	<.01	<2	.02	<.01	.02	2	1.0	444	16.6	1.0	2.0	832
59740	5.2	10.1	68.9	335.5	2857	6	3	1383	1.25	48.1	<5	<1	5	1.72	1.6	<.1	5	.93	.005	1	14	.01	328	<.01	<2	.05	<.01	.03	2	<.2	40	.7	<.2	<.5	111
59741	4.1	53.1	1640.1	353.4	76507	4	2	1114	1.55	89.6	<5	1	5	1.83	15.0	<.1	3	.20	.014	3	10	.01	38	<.01	<2	.15	<.01	.11	<2	<.2	384	1.8	<.2	<.5	214
59742	2.3	76.7	859.0	1259.1	99999	3	1	1682	.34	32.1	<5	<1	18	6.67	14.1	.1	1	3.31	<.002	4	15	.06	12	<.01	<2	.01	<.01	<.01	<2	<.2	833	5.2	<.2	.5	1159
59743	3.5	8.3	22.3	17.6	2096	8	2	189	.57	3.7	<5	<1	1	.11	.5	<.1	1	.04	.002	<1	15	<.01	167	<.01	<2	.01	<.01	.01	4	<.2	69	<.3	<.2	<.5	18
RE 59743	3.3	8.5	20.1	16.4	2042	8	1	191	.57	3.2	<5	<1	1	.09	.4	<.1	1	.03	<.002	<1	15	<.01	159	<.01	<2	.01	<.01	<.01	5	<.2	55	<.3	<.2	<.5	15
59744	1.5	16.0	163.4	613.3	12064	4	1	3492	.52	5.0	<5	<1	31	3.08	4.2	<.1	6	5.82	<.002	6	15	.40	15	<.01	2	.01	<.01	.01	<2	<.2	105	.6	<.2	<.5	75
59745	1.3	9.0	7.1	77.2	389	10	3	498	1.80	2.5	<5	<1	37	.31	.2	<.1	9	1.01	.035	12	9	.85	368	<.01	4	.99	.02	.09	<2	<.2	21	.3	<.2	3.1	3
59746	2.6	90.9	930.2	1654.7	16938	5	3	691	1.33	51.1	<5	1	12	9.38	3.5	.1	2	1.09	.012	3	14	.02	197	<.01	<2	.10	<.01	.11	<2	<.2	217	2.4	<.2	<.5	342
59747	1.2	28.3	204.9	323.9	51619	5	<1	4392	.34	9.0	<5	<1	40	3.22	7.1	<.1	2	9.39	<.002	3	10	.02	41	<.01	<2	.02	<.01	.02	2	<.2	111	2.3	<.2	<.5	272
59748	1.5	11.8	64.7	165.5	12713	1	1	3563	.39	7.2	<5	<1	29	.99	1.6	<.1	1	5.98	.002	2	16	.03	39	<.01	<2	.03	<.01	.03	<2	<.2	48	1.0	<.2	<.5	176
59749	1.2	3.9	5.9	62.5	288	4	5	1581	3.73	2.6	<5	<1	21	.06	<.2	.2	37	.83	.109	4	10	1.36	22	.18	<2	1.24	.05	.11	2	<.2	<10	.4	.4	6.0	9
59750	2.1	25.6	13.4	63.0	91965	6	1	1765	.59	14.9	<5	<1	20	.58	6.0	<.1	3	4.03	.002	2	19	.17	43	<.01	<2	.07	<.01	.02	5	<.2	30	12.2	<.2	<.5	1085
59751	3.1	30.8	234.5	312.4	85906	7	1	600	.98	33.9	<5	<1	4	3.43	8.5	.1	2	.29	.003	1	19	.01	206	<.01	<2	.02	<.01	.01	5	<.2	111	4.5	<.2	.5	436
59752	2.0	40.3	662.7	654.1	25544	3	2	4239	.65	51.7	<5	1	38	4.24	5.1	<.1	<1	10.42	.013	4	12	.01	44	<.01	2	.04	<.01	.05	<2	<.2	44	1.4	<.2	<.5	256
STANDARD D2/HG-500/AU-R	25.9	119.9	112.5	270.1	1841	34	17	1132	4.31	71.0	18	18	59	2.23	9.0	20.7	79	.82	.095	19	57	1.30	277	.16	29	2.31	.07	.76	17	2.7	463	.7	2.0	6.7	532

Sample type: ROCK. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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

GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE

Tom Dixon

FILE 252

Phelps Dodge Corp. PROJECT 252 File # 96-2268

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
56041	1.7	14.1	40.9	17.8	744	3	1	107	.45	9.1	<5	1	4	.13	2.9	.1	1	.03	.005	8	16	<.01	65	<.01	<2	.15	.01	.19	5	<.2	138	<.3	<.2	<.5	18
56042	3.3	147.0	280.3	67.6	3530	3	2	469	1.07	36.7	<5	1	3	.47	49.4	<.1	3	.04	.012	4	7	.01	43	<.01	3	.14	.01	.13	3	<.2	143	<.3	.2	<.5	32
56043	2.5	21.9	91.6	52.4	1077	7	4	434	1.40	111.3	<5	3	11	.56	2.0	.1	4	1.84	.016	8	13	.02	69	<.01	2	.15	.02	.14	4	<.2	77	<.3	<.2	.5	133
56044	1.4	14.5	8.5	42.2	46	13	10	766	3.96	8.9	<5	1	19	.18	.9	.1	128	2.11	.048	6	33	.84	42	.08	5	.56	.05	.03	4	<.2	43	<.3	.2	3.8	10
56045	1.7	9.5	30.8	61.0	413	4	2	859	.68	1.7	<5	<1	24	1.22	1.1	.1	3	2.28	<.002	4	14	.24	29	<.01	2	.02	<.01	.01	4	<.2	24	<.3	<.2	<.5	31
56046	1.7	55.1	71.9	51.8	5805	5	1	634	.44	17.8	<5	<1	24	1.48	6.8	.1	1	3.83	<.002	2	11	.12	9	<.01	20	.02	<.01	.01	5	<.2	53	<.3	.3	<.5	244
56047	.4	111.5	11.4	447.0	362	2	24	5186	6.72	<.5	5	1	364	5.28	2.0	<.1	56	17.13	.011	2	2	5.55	2321	<.01	<2	.09	.01	.06	<2	<.2	29	<.3	.2	<.5	9
56048	1.8	22.9	70.1	62.6	843	6	1	1884	.47	9.7	<5	1	28	1.06	.9	.1	2	3.20	.004	6	11	.02	105	<.01	2	.08	<.01	.08	5	<.2	37	<.3	<.2	<.5	30
56049	1.3	7.3	7.1	15.9	2360	1	1	670	.48	5.3	<5	1	19	.20	.9	.1	2	2.44	.006	3	8	.04	281	<.01	2	.09	<.01	.07	2	<.2	30	<.3	<.2	<.5	501
56050	1.0	3.3	1.9	1.0	52	3	1	88	.26	<.5	<5	<1	29	.01	<.2	.3	6	.03	<.002	<1	8	<.01	99	<.01	<2	.44	<.01	<.01	3	<.2	28	<.3	<.2	1.0	8
RE 56050	1.0	3.4	1.8	1.3	30	2	<1	87	.25	<.5	<5	<1	30	.01	<.2	.3	6	.02	<.002	<1	8	<.01	96	<.01	<2	.44	.01	<.01	2	<.2	23	<.3	<.2	1.1	2
56051	.7	13.3	281.5	298.8	99999	1	<1	2177	.26	13.7	<5	1	82	9.41	4.9	.1	2	16.41	<.002	1	5	.08	20	<.01	<2	.03	<.01	.03	3	<.2	586	6.2	<.2	<.5	2720
56052	1.6	4.8	2.4	1.0	1215	7	1	72	.39	<.5	<5	<1	12	.05	<.2	.1	1	.05	<.002	<1	14	<.01	828	<.01	<2	.03	.01	<.01	5	<.2	12	<.3	<.2	<.5	21
56053	1.8	2.3	2.2	<1	518	1	<1	39	.11	<.5	<5	<1	12	.02	<.2	.6	2	.03	<.002	<1	6	<.01	169	<.01	<2	.26	<.01	<.01	2	<.2	14	<.3	<.2	<.5	21
56198	1.6	72.9	124.0	41.6	1855	6	3	542	1.07	19.2	<5	1	5	.45	6.8	.3	3	.04	.008	3	10	.01	142	<.01	<2	.16	<.01	.15	5	<.2	82	<.3	.2	<.5	12
56199	2.0	17.8	110.1	137.3	952	<1	1	164	1.08	26.3	<5	1	4	.36	1.0	.1	2	.03	.011	14	13	.01	89	<.01	2	.17	<.01	.17	3	<.2	14	<.3	.4	<.5	8
56200	1.0	5619.7	33.6	851.0	40180	8	12	9009	4.04	159.5	<5	1	80	11.49	2.0	1.0	31	7.35	.023	28	5	1.03	512	<.01	<2	.26	<.01	.22	8	2.0	81	3.0	2.3	5.0	125
59753	1.8	59.0	12.7	47.5	658	4	2	397	.95	22.2	<5	<1	6	.48	1.4	.1	3	.06	.007	1	12	.01	245	<.01	<2	.11	<.01	.13	4	<.2	209	<.3	<.2	.5	47
59754	2.0	123.5	2664.3	4733.6	61798	5	1	3380	.44	58.7	<5	<1	99	9.44	2.7	1.0	1	23.51	.013	3	5	.02	32	<.01	<2	.05	<.01	.04	36	2.0	804	6.6	2.0	5.0	1305
59755	1.5	6.7	20.1	56.6	2075	2	<1	978	.37	6.7	<5	<1	32	.31	<.2	.1	1	7.14	<.002	2	12	.03	27	<.01	2	.05	<.01	.03	3	<.2	21	<.3	<.2	<.5	111
59756	2.0	17.7	109.6	211.3	11013	8	1	2047	.89	2.0	<5	<1	19	1.27	1.2	<.1	3	1.57	.002	2	17	.57	51	<.01	<2	.02	<.01	.01	6	<.2	44	.5	<.2	<.5	172
59757	1.3	26.1	5.2	65.9	257	9	10	694	2.84	7.2	<5	1	66	.11	<.2	.8	26	1.06	.107	20	9	.78	200	<.01	2	1.18	.04	.37	<2	<.2	11	1.0	<.2	4.5	8
59758	3.5	15.0	6.5	5.4	1193	10	5	273	.69	2.4	<5	<1	39	.03	3.7	3.2	2	.02	<.002	<1	20	.01	2942	<.01	<2	.01	<.01	.01	5	<.2	28	.5	.4	.5	7
59759	.7	8.9	47.4	173.5	367	4	15	2214	3.51	6.4	<5	1	119	3.36	2.4	.1	29	6.49	.041	3	4	1.55	2652	<.01	2	.27	.01	.15	<2	<.2	21	<.3	<.2	.6	5
59760	5.9	8.4	11.0	2.9	930	9	3	174	.53	2.6	<5	<1	20	.03	9.1	4.4	1	.07	<.002	<1	17	.02	1627	<.01	<2	.01	<.01	.01	7	<.2	62	<.3	.7	<.5	5
59761	3.6	17.6	30.8	24.5	56	7	1	526	1.47	2.3	<5	<1	19	.03	7.2	.1	5	.29	.023	3	16	.23	89	.07	<2	.52	.05	.06	3	<.2	<10	<.3	.2	2.9	2
59762	1.7	10.3	19.7	26.2	17126	3	1	1425	.62	2.4	<5	<1	8	.37	1.6	.1	4	1.27	.002	2	12	.10	23	<.01	<2	.02	<.01	.01	6	<.2	24	1.4	<.2	<.5	806
59763	1.7	9.7	29.1	10.7	6251	1	<1	1582	.27	5.1	<5	<1	23	.14	1.2	.1	1	4.61	.003	1	13	.03	57	<.01	<2	.04	<.01	.02	5	<.2	92	2.9	.2	<.5	19240
STANDARD D2/HG-500/AU-R	25.3	115.5	114.6	257.5	1882	33	16	1076	4.21	75.6	18	18	52	2.36	8.6	20.2	76	.71	.095	18	55	1.27	268	.15	28	2.30	.06	.75	20	2.4	479	.6	2.5	6.7	466

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 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: ROCK AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 17 1996 **DATE REPORT MAILED:** Jun 28/96 **SIGNED BY.** C. Leong ..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

FILE 252 1996 GOOCHAM

Phelps Dodge Corp. PROJECT 252 File # 96-2381 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
56054	1.2	5.2	83.0	502.8	4897	2	1	1976	.22	1.9	<5	<1	12	2.05	1.1	.1	1	1.51	<.002	1	14	<.01	81	<.01	<2	.02	<.01	.01	2	<.2	132	<.3	<.2	<.5	21
56055	3.5	9.7	2.7	5.9	47	8	1	185	.81	3.0	<5	<1	10	.01	.5	.1	3	.02	.003	<1	11	<.01	25	<.01	<2	.21	.02	.08	<2	.4	472	<.3	.2	.7	2
56057	1.3	3.4	31.0	77.6	<30	2	1	122	.27	4.5	<5	2	3	.05	.3	<.1	1	.02	.003	10	23	.01	659	<.01	<2	.23	.02	.17	2	<.2	23	<.3	<.2	<.5	5
56058	2.6	23.0	174.6	338.9	46472	6	1	7831	.29	3.7	<5	<1	25	1.52	4.2	<.1	3	1.88	<.002	<1	7	.01	18	<.01	<2	.01	<.01	.03	<2	<.2	84	<.3	<.2	<.5	272
56059	1.3	11.4	34.2	69.0	4413	2	2	1757	.43	24.7	7	<1	40	.49	1.8	<.1	1	5.70	.003	6	12	.01	41	<.01	<2	.05	<.01	.05	3	<.2	41	<.3	<.2	<.5	34
56060	3.4	7.7	36.2	151.5	10407	8	1	1051	.27	3.8	11	<1	21	1.45	3.2	<.1	1	2.78	<.002	1	12	.01	18	<.01	<2	.01	<.01	.01	<2	.4	82	.4	<.2	<.5	710
56061	4.7	20.4	45.2	30.0	1486	4	4	974	1.00	54.7	6	1	15	.33	8.7	<.1	5	2.57	.006	3	16	.04	77	<.01	<2	.08	<.01	.08	5	<.2	32	<.3	.2	.6	22
56062	3.8	6.4	13.8	22.2	2332	8	3	2427	.76	60.4	<5	1	28	.15	1.2	.1	2	6.00	<.002	5	13	.03	49	<.01	<2	.09	<.01	.10	<2	.3	39	.3	.2	<.5	38
56063	3.3	8.5	74.4	18.2	341	3	1	149	.77	16.6	6	1	5	.08	3.4	<.1	3	.07	.010	4	12	.01	27	<.01	<2	.23	<.01	.18	3	<.2	47	<.3	<.2	<.5	5
56064	3.7	12.2	29.4	19.1	20810	4	1	1318	.27	20.0	6	<1	63	.30	7.5	<.1	1	18.35	.033	1	2	.01	10	<.01	<2	.03	<.01	.03	<2	<.2	51	1.6	<.2	<.5	191
56065	1.0	32.7	4.7	29.5	186	6	6	474	2.23	24.6	13	1	38	.36	.8	<.1	13	1.75	.026	8	12	.21	67	<.01	4	.25	.04	.15	2	<.2	17	<.3	.2	.6	5
56066	3.4	242.0	5559.7	2526.5	99999	5	1	7323	.59	166.1	<5	<1	57	12.73	44.3	.5	3	14.91	.010	3	3	.06	2	<.01	2	.03	<.01	.03	<2	1.0	246	9.6	1.0	2.0	1571
RE 56066	3.5	246.5	5508.2	2485.0	99999	5	1	7211	.58	161.8	<5	<1	56	13.31	45.4	.5	3	14.61	.009	2	7	.05	2	<.01	3	.03	<.01	.03	<2	1.0	226	11.1	1.0	1.5	1637
56224	8.4	11.6	28.8	20.7	2759	4	1	204	1.28	214.0	8	3	3	.08	4.9	<.1	7	.06	.020	7	16	.02	37	<.01	<2	.15	.01	.15	3	<.2	103	.4	<.2	.6	92
59764	2.6	172.5	2100.1	1940.8	92955	7	2	1369	1.48	120.2	8	<1	7	7.91	7.3	<.1	2	.80	.009	5	8	.02	103	<.01	2	.10	<.01	.11	<2	<.2	85	<.3	<.2	<.5	185
59765	1.6	33.9	196.7	259.9	36129	2	1	4298	.27	15.4	<5	<1	47	1.83	9.6	<.1	1	11.93	<.002	1	9	.01	24	<.01	<2	.02	<.01	.02	3	<.2	62	1.3	<.2	<.5	980
59766	2.5	242.2	1021.5	1734.3	99999	7	1	2931	.65	167.7	<5	<1	27	5.39	22.5	<.1	2	7.75	<.002	2	9	.04	40	<.01	<2	.02	<.01	.02	<2	<.2	308	1.5	<.2	<.5	1189
59767	1.2	6.9	16.0	36.7	3926	3	2	1983	.44	21.4	<5	<1	30	.41	.9	.1	2	6.39	<.002	2	12	.05	44	<.01	<2	.04	<.01	.05	4	.2	29	.4	<.2	<.5	68
59768	2.1	35.5	155.9	192.6	99999	5	1	4766	.27	25.7	<5	<1	46	1.84	6.5	<.1	1	12.75	<.002	1	8	.01	25	<.01	3	.02	<.01	.02	<2	<.2	26	5.4	<.2	<.5	12700
59769	1.7	16.9	41.5	163.8	20727	4	1	596	.49	7.7	9	<1	3	.92	5.2	<.1	3	.71	<.002	<1	20	.01	29	<.01	<2	.03	<.01	.02	4	.2	32	1.6	<.2	<.5	270
59770	2.1	30.5	115.1	352.9	3624	6	1	3213	.34	10.7	9	<1	33	1.80	.8	<.1	1	4.32	<.002	2	14	.02	17	<.01	<2	.03	<.01	.03	<2	<.2	64	.4	<.2	<.5	238
59771	2.5	8.4	7.8	6.0	203	3	3	92	4.60	7.2	<5	<1	17	.04	.6	<.1	1	.33	.015	1	8	<.01	27	<.01	5	.06	<.01	.22	2	<.2	667	<.3	.2	<.5	30
59772	2.3	4.5	15.5	34.8	537	5	1	878	.29	2.5	<5	<1	23	.27	.3	<.1	1	4.99	<.002	1	10	.04	49	<.01	4	.06	<.01	.05	<2	.5	16	<.3	<.2	<.5	36
59773	2.3	26.7	8.8	28.6	329	4	5	763	1.35	35.6	8	3	15	.27	1.6	<.1	8	.94	.019	7	17	.11	62	<.01	<2	.14	.03	.11	3	.2	11	<.3	.2	<.5	34
59774	3.8	12.8	98.8	349.1	1187	8	1	420	.51	12.6	<5	<1	2	2.84	1.0	<.1	2	.21	.004	3	9	.01	47	<.01	<2	.06	<.01	.05	<2	<.2	103	<.3	<.2	<.5	96
59775	.8	11.8	22.4	134.0	6087	2	1	1974	.19	2.4	<5	<1	54	1.01	2.5	<.1	1	9.10	<.002	<1	9	.02	7	<.01	<2	.02	<.01	.01	3	.3	129	<.3	.2	<.5	46
59776	3.1	8.4	12.0	301.2	525	10	7	4478	3.39	1.7	<5	<1	84	6.71	1.5	.1	3	9.99	.002	17	16	2.48	45	<.01	<2	.03	.01	.01	<2	<.2	20	<.3	<.2	<.5	644
59777	1.8	13.4	119.9	246.2	22791	3	1	2833	.29	3.7	<5	<1	61	2.23	3.8	.1	1	7.40	<.002	2	15	.03	21	<.01	3	.01	<.01	.01	3	<.2	57	.4	<.2	<.5	398
59778	3.1	5.2	8.2	23.5	1478	7	1	645	.35	2.2	<5	<1	10	.23	.4	<.1	1	1.54	<.002	1	12	.06	17	<.01	<2	.03	<.01	.03	<2	<.2	11	<.3	.3	<.5	47
59779	3.6	22.8	8.5	100.9	715	4	3	372	2.44	31.1	9	2	5	.41	1.8	<.1	5	.08	.035	6	11	.01	34	<.01	<2	.29	.01	.14	2	<.2	21	.4	.2	.7	9
59780	2.9	54.9	431.2	1072.2	38475	7	1	4173	.57	15.1	7	<1	30	5.04	9.3	<.1	3	7.60	<.002	3	7	.13	51	<.01	4	.07	<.01	.04	<2	<.2	258	1.1	<.2	<.5	614
59781	1.8	19.3	218.3	657.4	5828	4	2	2326	1.35	33.3	5	1	22	5.62	2.0	<.1	5	3.02	<.002	5	15	.21	19	<.01	6	.05	<.01	.05	<2	<.2	100	<.3	<.2	<.5	109
59782	1.9	4.7	50.8	38.2	24848	6	1	2259	.43	3.6	<5	<1	52	.52	.8	.1	1	11.88	<.002	6	8	.10	15	<.01	<2	.02	<.01	.01	2	.3	40	1.8	.2	<.5	4640
STANDARD D2/HG-500/AU-R	26.4	115.3	104.5	283.5	1893	35	17	1111	4.40	76.1	19	19	58	2.32	9.2	21.0	76	.81	.100	18	57	1.16	250	.16	29	2.27	.07	.76	15	2.7	476	.6	2.0	7.0	531

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 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 P9 SOIL AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 21 1996 **DATE REPORT MAILED:** July 8/96 **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
59783	1.4	20.7	40.4	20.7	414	3	<1	148	.37	12.0	5	1	2	.09	5.6	<.1	1	.06	.009	3	11	<.01	39	<.01	<2	.08	<.01	.09	3	<.2	<10	.3	<.2	<.5	23
59784	2.3	215.3	1006.0	721.3	2770	8	5	2767	1.66	90.9	<5	1	17	8.08	1.4	<.1	7	1.03	.016	4	12	.15	172	<.01	4	.13	<.01	.14	<2	<.2	124	<.3	<.2	1.0	52
59785	2.4	287.1	693.8	366.4	2455	4	3	3140	1.15	51.3	<5	1	29	5.46	3.8	<.1	6	2.09	<.002	6	16	.68	72	<.01	5	.11	<.01	.13	3	<.2	58	<.3	<.2	<.5	21
59786	3.6	281.9	17.5	86.4	2140	7	4	1303	1.07	60.0	<5	1	9	.80	1.5	<.1	4	.07	.008	23	19	.01	526	<.01	2	.12	<.01	.10	<2	<.2	29	<.3	<.2	<.5	2
RE 59786	3.6	281.1	16.4	87.7	2161	7	4	1321	1.09	60.0	<5	2	9	.79	1.5	<.1	4	.07	.009	22	19	.01	531	<.01	<2	.11	<.01	.10	<2	<.2	25	<.3	<.2	<.5	4

Sample type: ROCK. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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 252 File # 96-2381 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
56056	.9	5.9	13.3	130.1	79	10	8	590	2.76	2.3	5	1	32	.57	<.2	.2	69	.37	.151	5	23	.17	83	.22	2	1.12	.01	.07	<2	<.2	22	<.3	<.2	5.6	3
56176	1.0	9.9	9.5	80.5	209	12	8	450	3.12	3.8	<5	1	38	.25	.2	.2	69	.51	.087	12	22	.31	94	.27	2	1.39	.03	.06	<2	<.2	29	<.3	<.2	5.3	1
56177	.9	9.4	11.2	122.3	157	15	9	643	3.28	4.0	<5	2	35	.27	<.2	.2	70	.40	.166	11	22	.28	110	.24	<2	1.86	.02	.10	<2	<.2	15	<.3	<.2	6.4	1
56178	1.7	12.4	14.9	294.7	220	14	14	2087	3.88	4.5	<5	2	39	.52	.2	.2	71	.45	.224	10	28	.36	380	.19	<2	2.10	.02	.09	<2	<.2	34	<.3	<.2	8.0	<1
56179	.7	12.5	12.2	92.3	328	13	6	540	2.74	3.9	<5	2	31	.20	.2	.2	59	.48	.069	14	19	.28	218	.27	<2	1.64	.02	.06	<2	<.2	41	<.3	<.2	5.9	2
56180	.9	9.3	10.0	119.1	194	12	8	900	2.96	2.2	<5	2	33	.21	.3	.1	62	.43	.123	9	21	.26	226	.21	2	1.73	.02	.08	<2	<.2	23	<.3	<.2	5.8	1
56181	1.0	7.9	9.0	119.5	49	13	8	601	3.19	2.5	<5	2	24	.18	.2	.1	78	.31	.148	7	23	.25	194	.21	<2	1.45	.02	.07	<2	<.2	<10	<.3	<.2	5.6	45
56182	.9	8.4	11.1	88.8	214	15	6	477	2.97	3.1	<5	1	30	.17	.2	.1	69	.34	.133	7	23	.26	161	.28	<2	1.71	.02	.06	<2	<.2	<10	<.3	.2	7.3	2
56183	1.2	7.8	12.1	86.4	49	14	8	517	3.33	3.1	<5	2	29	.18	.2	.1	92	.35	.089	7	30	.24	105	.30	2	1.37	.02	.07	<2	.2	<10	<.3	<.2	6.9	2
RE 56183	1.0	7.2	9.1	85.0	49	14	7	495	3.24	2.8	<5	1	28	.15	.2	.2	89	.34	.086	7	27	.23	101	.29	<2	1.33	.02	.07	<2	<.2	<10	<.3	.2	6.3	5
56184	.9	12.1	10.6	114.2	210	13	8	612	3.44	5.6	5	2	27	.19	.6	.1	89	.40	.076	11	25	.26	238	.28	<2	1.42	.02	.10	<2	<.2	21	<.3	<.2	5.8	7
56185	.7	7.7	7.6	131.6	119	9	6	548	2.60	1.3	<5	1	27	.20	.3	.1	61	.44	.135	8	18	.21	146	.19	2	1.10	.01	.08	<2	<.2	13	<.3	<.2	4.0	2
56186	.8	20.8	22.7	184.3	1173	10	8	1237	3.43	5.6	<5	2	31	.51	1.1	.1	73	.58	.064	13	31	.21	431	.21	3	1.37	.02	.15	<2	<.2	34	<.3	<.2	4.8	11
56187	.8	15.2	11.8	100.8	321	10	6	542	3.03	2.7	<5	1	27	.17	.8	.1	73	.39	.053	10	29	.21	253	.26	2	1.13	.02	.13	<2	<.2	23	<.3	<.2	4.2	5
56188	.8	7.5	8.0	113.4	141	12	5	456	2.63	2.2	<5	1	26	.16	.4	.1	62	.34	.085	8	19	.21	156	.25	2	1.25	.02	.09	<2	<.2	22	<.3	<.2	5.1	4
56189	.7	10.6	8.3	80.5	108	11	6	490	2.99	3.6	<5	1	25	.13	.5	.2	72	.34	.059	10	22	.22	114	.26	<2	1.14	.02	.10	<2	<.2	10	<.3	<.2	4.7	7
56190	.7	8.2	10.4	118.0	64	13	7	363	2.80	1.8	<5	1	26	.13	<.2	.1	64	.30	.121	8	21	.22	131	.21	<2	1.57	.02	.08	<2	<.2	11	<.3	<.2	5.0	2
56201	.7	10.1	6.4	99.2	37	12	7	512	3.22	2.1	<5	2	19	.11	<.2	.1	82	.28	.072	10	21	.27	181	.26	<2	1.34	.02	.06	<2	<.2	17	<.3	<.2	5.5	44
56202	.9	9.4	7.9	140.2	73	15	9	807	3.25	3.1	<5	2	14	.14	<.2	.2	81	.20	.125	8	23	.27	96	.26	<2	1.75	.01	.04	<2	<.2	24	<.3	.2	6.9	3
56203	1.2	8.9	9.9	157.3	132	15	10	1003	3.60	3.4	<5	2	17	.19	.2	.2	93	.23	.120	8	28	.28	103	.27	2	1.62	.01	.05	<2	<.2	26	<.3	<.2	8.0	2
56204	.9	10.4	8.6	120.6	80	23	9	465	3.38	3.7	<5	2	15	.15	<.2	.2	78	.20	.095	6	26	.31	90	.26	<2	1.84	.01	.04	<2	<.2	<10	<.3	<.2	6.6	1
56205	1.1	7.1	8.8	124.1	56	13	8	664	3.25	2.9	<5	2	12	.13	<.2	.2	81	.18	.122	6	24	.20	76	.25	<2	1.54	.01	.04	<2	<.2	19	<.3	<.2	7.5	1
56206	1.0	9.7	9.1	127.8	86	16	8	475	3.35	4.1	<5	1	20	.18	<.2	.1	85	.28	.127	8	26	.27	88	.27	<2	1.57	.01	.05	<2	<.2	<10	<.3	<.2	6.4	4
56207	1.0	10.9	7.3	236.5	64	20	8	350	3.27	2.7	<5	1	36	.20	<.2	.2	70	.49	.303	8	24	.24	130	.28	<2	1.73	.02	.05	<2	<.2	18	<.3	<.2	6.7	<1
56208	.8	8.5	6.8	141.6	67	14	9	390	3.17	3.1	<5	1	23	.15	<.2	.2	74	.30	.143	8	23	.26	88	.27	<2	1.70	.02	.06	<2	<.2	<10	<.3	<.2	6.2	1
56209	.5	5.6	7.1	51.0	<30	8	5	475	2.31	1.5	<5	1	25	.08	<.2	.2	55	.38	.046	8	19	.21	63	.27	<2	1.13	.02	.04	<2	<.2	15	<.3	<.2	5.1	2
56210	1.1	8.0	9.6	114.6	76	15	8	434	3.29	3.1	<5	2	28	.15	<.2	.2	78	.37	.082	8	25	.23	119	.28	<2	1.82	.02	.06	<2	<.2	15	<.3	<.2	7.2	20
56211	.9	10.4	8.3	125.9	32	19	10	456	3.60	4.2	<5	2	31	.15	<.2	.3	84	.35	.171	9	29	.31	129	.31	2	2.36	.02	.07	<2	<.2	15	<.3	<.2	8.2	2
56212	1.1	8.5	7.9	129.7	<30	19	9	500	3.31	2.5	<5	2	25	.13	<.2	.2	74	.30	.157	9	25	.27	125	.31	<2	2.04	.02	.08	<2	<.2	16	<.3	<.2	8.1	<1
56213	1.2	8.5	5.6	185.3	<30	19	11	920	3.57	1.0	<5	2	21	.15	<.2	.1	76	.23	.177	11	25	.24	129	.32	<2	2.12	.02	.08	<2	<.2	14	<.3	<.2	9.2	<1
56214	1.1	10.7	8.5	131.5	39	14	9	886	3.49	1.5	<5	2	31	.22	<.2	.1	77	.41	.150	10	38	.26	606	.28	2	1.86	.02	.09	<2	<.2	26	<.3	<.2	7.5	<1
56215	1.0	9.6	7.7	97.7	77	17	9	748	3.49	3.3	<5	2	37	.15	.2	.2	82	.38	.120	9	39	.25	588	.33	<2	1.92	.02	.07	<2	<.2	16	<.3	.2	8.4	2
56216	1.4	11.1	8.0	130.3	<30	21	11	835	4.10	2.3	<5	2	29	.16	<.2	.2	84	.32	.141	10	26	.27	128	.41	<2	2.69	.02	.10	<2	<.2	20	<.3	<.2	11.9	1
56217	1.3	12.6	7.9	122.2	<30	20	11	561	4.13	1.4	<5	2	30	.14	<.2	.1	93	.31	.094	14	32	.31	107	.42	<2	2.36	.02	.08	<2	<.2	21	<.3	<.2	10.2	1
STANDARD	26.4	117.2	110.2	276.9	1874	33	16	1083	4.34	78.3	23	18	53	2.33	9.6	20.4	74	.76	.101	16	53	1.12	246	.16	27	2.44	.07	.71	16	2.5	463	.7	2.0	6.7	53

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 P9 SOIL AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.

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

DATE RECEIVED: JUN 21 1996 DATE REPORT MAILED: July 8/96 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
56218	1.2	10.3	13.1	113.9	104	18	9	583	3.64	3.0	9	2	26	.15	<.2	.2	89	.30	.113	9	29	.30	105	.37	<2	2.21	.02	.06	<2	<.2	19	<.3	<.2	7.8	1
56219	1.1	9.3	12.1	108.8	55	17	10	681	3.57	2.5	8	2	19	.15	.4	.1	90	.28	.118	9	30	.30	103	.31	<2	1.94	.02	.05	<2	.2	11	<.3	<.2	7.4	1
56220	1.1	7.4	11.4	71.8	51	11	6	354	2.81	1.6	5	1	21	.09	.2	.1	68	.26	.168	7	24	.22	123	.21	<2	1.48	.01	.05	<2	<.2	13	<.3	<.2	4.9	3
56221	1.0	6.2	15.8	127.7	80	15	7	687	2.90	1.8	11	2	32	.26	.3	.1	65	.37	.189	8	26	.25	146	.25	<2	1.56	.02	.07	<2	<.2	15	<.3	<.2	6.3	1
56222	1.1	7.0	14.7	99.9	54	14	8	688	3.38	2.9	<5	2	35	.16	.2	.2	78	.37	.218	8	28	.24	143	.28	<2	1.57	.02	.09	<2	<.2	<10	<.3	<.2	5.8	1
56223	.8	8.6	11.8	47.6	98	10	6	399	3.01	4.1	7	1	41	.13	.5	.1	70	.59	.071	13	23	.28	140	.28	<2	1.10	.04	.06	<2	<.2	12	<.3	<.2	4.3	2
56225	1.0	8.2	14.1	61.2	77	9	6	519	3.35	5.6	<5	2	54	.27	.6	.1	73	.49	.019	7	24	.26	139	.29	<2	1.27	.03	.03	<2	.2	<10	<.3	<.2	5.3	1
56226	.9	7.1	15.4	54.3	42	11	6	315	2.99	6.0	5	1	38	.11	.3	.2	72	.40	.051	10	24	.30	138	.28	<2	1.29	.03	.05	<2	<.2	<10	<.3	<.2	4.7	2
56227	1.4	8.1	13.5	67.4	46	13	8	307	3.51	9.0	7	1	23	.11	.4	.1	95	.37	.033	5	25	.26	106	.28	<2	1.50	.01	.04	<2	<.2	11	<.3	<.2	6.1	1
56228	2.3	7.3	30.7	68.5	179	10	6	356	2.67	28.3	9	2	23	.43	1.2	.2	55	.35	.094	8	16	.22	114	.19	<2	1.37	.01	.07	<2	.2	14	<.3	<.2	4.3	2
56229	1.2	6.5	13.0	131.1	137	14	10	468	3.43	7.8	6	1	15	.37	.3	.2	90	.22	.052	5	24	.23	73	.29	<2	1.33	.01	.04	<2	.2	12	<.3	<.2	6.4	22
56230	1.3	22.2	172.8	607.7	13398	18	11	1647	3.88	14.2	<5	2	19	1.89	1.0	.1	94	.33	.040	19	27	.32	141	.29	<2	2.42	.01	.04	<2	<.2	82	.4	<.2	6.9	63
RE 56230	1.3	21.1	167.6	599.8	12884	17	11	1622	3.79	13.1	8	1	18	1.82	1.2	.2	92	.32	.039	19	25	.32	139	.28	<2	2.39	.01	.03	<2	.2	83	.3	<.2	7.2	80
56231	1.1	6.9	16.7	166.8	718	7	7	953	2.49	4.1	6	1	22	.92	.3	.2	69	.42	.035	4	19	.13	96	.26	2	.58	.01	.05	<2	<.2	40	<.3	<.2	4.2	3
56232	1.2	8.5	16.0	96.2	450	10	8	450	3.39	4.1	<5	1	27	.38	.4	.2	91	.30	.041	8	23	22	100	.24	<2	1.37	.01	.05	<2	<.2	21	<.3	<.2	6.4	1
56233	1.7	7.0	14.3	83.4	152	8	8	375	2.98	3.7	5	1	22	.45	.3	.2	77	.31	.054	5	21	.20	68	.27	<2	.97	.01	.04	<2	<.2	24	<.3	<.2	6.5	<1
56234	1.5	8.9	18.8	123.6	606	12	11	777	3.42	5.5	7	1	27	.45	.6	.2	89	.42	.076	7	24	.29	132	.22	<2	1.33	.01	.05	<2	<.2	30	<.3	<.2	6.2	3
56235	.9	7.2	12.6	67.3	195	16	8	358	2.96	4.9	9	1	29	.19	.2	.2	75	.48	.077	9	25	.35	84	.29	<2	1.42	.02	.06	<2	<.2	16	<.3	<.2	4.6	7
56236	1.7	5.6	38.8	86.9	461	7	7	603	3.22	6.9	6	1	15	.64	.5	.1	81	.20	.014	7	20	.15	68	.20	2	1.08	.01	.04	<2	<.2	15	<.3	<.2	6.0	34
56237	1.3	7.5	15.9	150.0	99	14	11	352	3.88	4.7	5	1	21	.44	.2	.1	101	.27	.076	6	28	.32	72	.22	<2	1.48	.01	.06	<2	<.2	19	<.3	<.2	6.2	1
56238	.9	8.6	13.5	95.7	73	14	8	309	3.12	4.0	8	1	22	.18	<.2	.1	74	.28	.100	8	22	.28	126	.25	<2	1.57	.02	.05	<2	<.2	<10	<.3	<.2	5.1	5
56239	1.1	10.9	18.5	72.9	203	12	7	384	3.26	5.0	6	1	22	.14	.2	.1	80	.28	.070	6	22	.22	219	.26	<2	1.79	.01	.06	<2	<.2	34	<.3	<.2	6.5	2
56240	1.2	9.0	18.5	166.3	410	12	10	476	3.56	5.3	6	1	22	.45	.5	.1	81	.31	.101	7	22	.30	206	.16	<2	1.93	.01	.12	<2	<.2	33	<.3	<.2	7.5	4
56241	1.2	6.0	22.8	74.9	201	6	5	638	2.18	1.8	<5	1	19	.38	.4	.1	58	.27	.030	7	16	.10	209	.16	2	.81	.01	.07	<2	.2	25	<.3	<.2	3.9	1
56242	1.2	11.0	29.7	114.9	158	10	11	1489	3.14	4.0	5	1	21	1.39	.4	.2	71	.27	.130	8	28	.21	312	.20	<2	1.32	.01	.06	<2	<.2	46	<.3	<.2	6.3	1
56243	1.0	9.2	35.8	145.9	464	9	10	1452	3.00	2.5	<5	1	40	.98	.3	.2	69	.46	.083	9	33	.19	413	.21	<2	1.40	.02	.05	<2	<.2	28	<.3	<.2	6.1	2
56244	2.1	9.9	32.4	49.0	92	4	10	1322	3.13	13.9	<5	<1	14	.68	1.7	.1	29	.25	.044	8	15	.06	404	.03	<2	.56	<.01	.09	<2	<.2	29	<.3	<.2	2.1	2
56245	1.2	8.5	9.6	81.6	96	3	6	1386	1.93	2.6	<5	1	30	.48	.2	<.1	30	.61	.042	8	16	.05	538	.01	3	.41	<.01	.14	<2	.2	57	<.3	<.2	1.2	1
56246	1.3	11.2	81.9	122.8	757	10	8	1302	3.32	4.3	8	1	27	.70	.4	.1	81	.49	.054	8	30	.19	272	.25	<2	1.24	.01	.11	<2	<.2	58	<.3	<.2	5.5	4
56247	.8	5.8	9.4	24.8	74	2	4	316	2.18	4.3	<5	1	12	.09	.9	.2	39	.15	.011	6	11	.05	318	.02	2	.42	<.01	.10	<2	<.2	22	<.3	<.2	1.3	1
56248	1.1	8.1	22.6	94.2	474	9	7	762	2.97	2.8	<5	1	23	.59	.3	.1	79	.23	.041	6	22	.20	160	.19	<2	1.07	.01	.05	<2	<.2	31	<.3	<.2	5.7	1
56249	1.0	7.7	62.9	270.3	1126	12	8	556	3.37	6.6	5	1	23	.85	.2	.1	83	.35	.096	7	24	.24	123	.27	2	1.41	.02	.06	<2	<.2	18	<.3	<.2	5.1	6
56250	.9	7.5	37.0	597.8	1013	10	9	1424	3.52	4.8	<5	1	27	3.37	.2	<.1	81	.43	.146	9	27	.21	231	.26	3	1.10	.01	.10	<2	<.2	18	<.3	<.2	4.2	11
56251	1.1	6.5	12.1	118.4	116	13	8	317	3.66	5.2	7	1	19	.35	.2	.1	93	.22	.098	6	28	.24	100	.30	<2	1.59	.02	.06	<2	<.2	10	<.3	<.2	6.2	2
STANDARD	125.3	128.7	110.2	293.8	1994	35	17	1111	4.41	68.3	24	18	56	2.37	9.2	20.7	74	.81	.101	16	52	1.18	238	.16	29	2.50	.07	.70	16	1.9	420	.9	1.9	6.7	51

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
56252	.8	3.9	8.2	77.9	135	7	5	497	2.53	<.5	<5	1	15	.33	<.2	.1	70	.20	.036	5	23	.11	90	.26	2	.64	.01	.06	<2	<.2	27	<.3	<.2	3.8	<1
56253	1.1	6.8	11.2	76.6	156	11	8	267	3.24	7.2	<5	1	17	.15	.5	.2	77	.20	.145	7	23	.20	98	.15	2	1.62	.01	.04	<2	.2	18	<.3	.2	7.5	1
56254	.9	5.5	9.4	86.4	101	10	7	397	2.99	4.1	<5	1	12	.24	<.2	.1	71	.17	.106	6	19	.17	89	.19	<2	1.35	.01	.06	<2	<.2	31	<.3	<.2	6.0	2
56255	.7	3.9	8.4	67.8	35	7	5	293	2.52	1.5	<5	1	18	.14	<.2	.2	65	.21	.041	6	15	.11	108	.18	<2	.88	.01	.05	<2	<.2	19	<.3	<.2	4.4	<1
56256	.9	8.5	16.0	64.6	367	7	5	310	3.02	13.8	<5	1	22	.18	.6	<.1	56	.32	.041	8	16	.17	147	.19	<2	.81	.01	.14	<2	<.2	10	<.3	<.2	3.5	1
56257	1.2	7.7	11.3	64.8	174	10	8	549	3.08	6.4	<5	1	25	.21	.3	<.1	72	.41	.097	7	19	.22	219	.21	2	.99	.01	.11	<2	.3	28	<.3	.3	5.5	<1
56401	1.0	10.1	14.2	95.2	334	17	9	545	3.34	5.4	<5	1	27	.18	.2	.1	80	.30	.099	8	25	.29	143	.26	2	1.82	.01	.06	<2	.3	29	<.3	.2	6.7	2
56402	.9	11.4	15.2	81.0	344	15	8	336	3.18	5.3	<5	1	30	.14	<.2	<.1	75	.28	.083	7	23	.24	125	.26	3	1.72	.02	.04	<2	<.2	17	<.3	.2	5.7	2
56403	.8	6.3	8.5	44.6	<30	9	5	246	2.62	2.9	<5	1	23	.09	<.2	<.1	66	.29	.026	8	22	.21	68	.29	<2	.98	.02	.03	<2	<.2	<10	<.3	<.2	4.3	<1
RE 56403	.7	5.9	8.0	44.2	<30	9	5	249	2.61	3.0	<5	1	24	.08	.2	.1	66	.31	.026	8	21	.21	69	.29	<2	1.01	.02	.03	<2	.2	14	<.3	.3	4.6	4
56404	1.1	6.0	8.3	50.8	<30	12	7	227	3.02	4.7	<5	1	22	.07	<.2	<.1	78	.25	.073	6	24	.19	70	.28	<2	1.40	.01	.04	<2	.2	21	<.3	<.2	5.8	4
56405	1.1	6.3	7.9	53.6	<30	12	7	334	3.24	2.9	<5	1	21	.08	<.2	<.1	85	.27	.069	7	27	.21	62	.30	<2	1.16	.02	.05	<2	<.2	17	<.3	<.2	5.6	<1
56406	.5	3.9	6.2	34.8	<30	8	4	257	2.32	1.7	<5	1	20	.04	<.2	.1	57	.27	.033	6	18	.19	48	.23	<2	1.00	.02	.06	<2	.2	12	<.3	.3	3.6	4
56407	1.0	5.5	6.5	52.5	<30	11	6	326	2.90	2.3	<5	1	20	.10	<.2	.1	74	.27	.063	6	23	.19	57	.27	4	1.17	.02	.06	<2	<.2	10	<.3	<.2	5.0	1
56408	1.2	8.0	9.1	60.0	<30	14	9	325	3.69	6.2	<5	1	22	.08	<.2	.1	100	.28	.035	8	29	.33	60	.30	3	1.14	.02	.05	<2	.6	10	<.3	<.2	6.3	1
56409	1.0	8.3	13.3	94.9	189	11	6	726	2.94	2.1	<5	1	36	.26	<.2	<.1	62	.46	.128	9	23	.24	226	.26	<2	1.60	.02	.10	<2	.7	19	<.3	.2	6.8	<1
56410	.8	8.5	9.6	69.7	108	12	8	586	2.96	3.4	<5	1	26	.13	<.2	<.1	69	.33	.085	8	21	.25	225	.20	<2	1.36	.02	.07	<2	<.2	15	<.3	<.2	4.4	2
56411	.8	9.6	12.9	112.7	211	14	9	384	3.32	3.6	<5	2	26	.25	<.2	<.1	67	.30	.193	9	29	.30	280	.19	2	1.99	.01	.08	<2	.2	21	<.3	<.2	6.9	<1
56412	1.1	8.5	27.7	131.5	387	13	11	1360	3.20	4.4	<5	1	27	.52	<.2	<.1	61	.33	.157	9	30	.28	406	.18	<2	1.75	.01	.08	<2	.2	38	<.3	<.2	6.3	4
56413	1.0	8.2	19.4	145.3	454	11	10	923	3.16	3.0	<5	1	23	.44	<.2	<.1	67	.29	.193	8	31	.27	325	.13	<2	1.71	.01	.06	<2	<.2	29	<.3	<.2	6.6	5
56414	1.8	11.8	13.2	193.1	229	10	12	1720	3.20	1.3	<5	1	20	.73	<.2	.1	66	.29	.108	7	27	.26	280	.16	<2	1.48	.01	.12	<2	<.2	35	<.3	<.2	7.3	<1
56415	.9	9.4	16.8	60.0	140	12	8	301	3.03	6.9	<5	1	33	.17	<.2	<.1	67	.45	.050	8	21	.30	153	.20	<2	1.63	.02	.06	<2	<.2	21	.4	<.2	5.0	<1
56416	1.2	9.1	11.6	68.2	89	13	7	392	2.89	6.2	<5	<1	32	.27	<.2	.1	67	.44	.060	8	21	.27	178	.26	<2	1.55	.02	.04	<2	<.2	12	.3	<.2	6.0	2
56417	1.2	7.6	9.0	92.9	<30	15	9	337	3.44	6.3	<5	1	22	.15	<.2	.1	85	.24	.101	6	26	.22	103	.28	<2	1.61	.01	.06	<2	<.2	26	<.3	<.2	7.8	<1
56418	.7	8.4	11.0	107.2	104	16	9	398	3.13	6.1	<5	1	25	.20	<.2	<.1	76	.30	.198	7	21	.25	125	.23	<2	1.54	.01	.05	<2	<.2	<10	<.3	<.2	5.6	1
56419	.9	6.8	15.3	51.0	148	9	6	212	2.66	3.9	<5	<1	31	.09	<.2	<.1	67	.39	.021	5	18	.24	88	.19	<2	1.36	.02	.03	<2	.2	28	<.3	<.2	4.6	1
56420	.9	7.2	22.5	146.1	763	10	8	300	2.94	4.0	<5	1	28	.47	.3	<.1	73	.32	.054	7	23	.22	169	.21	<2	1.31	.01	.06	<2	.3	20	<.3	<.2	6.4	2
56421	.8	6.5	13.5	138.8	284	12	8	649	3.20	3.5	<5	1	20	.22	<.2	.2	77	.23	.095	6	26	.24	153	.20	<2	1.51	.01	.06	<2	.2	13	<.3	<.2	5.8	2
56422	1.0	10.1	7.9	92.3	134	9	7	1077	2.78	3.5	<5	1	37	.31	<.2	<.1	67	.34	.025	9	19	.20	218	.20	<2	1.25	.02	.06	<2	.2	27	<.3	<.2	4.7	1
56423	1.0	7.6	7.8	90.4	492	9	7	523	3.11	2.8	<5	1	18	.31	<.2	.2	80	.22	.029	6	24	.22	103	.26	<2	1.07	.01	.06	<2	<.2	13	<.3	<.2	5.3	1
56424	.8	7.7	12.5	115.0	403	8	9	895	3.01	4.5	<5	1	24	.34	<.2	<.1	70	.19	.217	7	20	.14	215	.18	<2	1.26	.01	.05	<2	<.2	16	<.3	<.2	5.4	1
56425	.8	5.7	9.3	53.5	135	6	5	414	2.32	2.2	<5	1	13	.14	<.2	.1	60	.16	.022	5	18	.14	83	.24	2	.80	.01	.05	<2	<.2	13	<.3	<.2	4.7	1
56426	.9	7.0	8.6	65.7	39	11	7	267	3.07	5.9	<5	1	14	.09	<.2	<.1	80	.19	.057	5	24	.22	78	.29	<2	1.23	.02	.05	<2	<.2	<10	<.3	<.2	5.2	<1
56427	.8	6.5	10.4	127.8	555	10	10	817	3.13	3.7	<5	1	21	.21	<.2	.1	82	.25	.097	7	26	.17	106	.22	<2	1.43	.01	.05	<2	<.2	17	<.3	<.2	5.8	1
STANDARD	25.0	119.5	107.8	284.9	1911	34	16	1121	4.49	74.9	22	18	59	2.30	8.5	20.7	76	.80	.099	17	61	1.17	251	.17	28	2.49	.07	.74	15	2.1	506	.5	2.1	6.9	52

Standard is STANDARD D2/HG-500/AU-R. 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
56428	.9	5.1	17.9	79.9	207	9	6	358	3.28	2.6	<5	1	18	.17	<.2	<.1	81	.29	.019	6	22	.24	132	.19	<2	1.23	.01	.07	<2	<.2	43	<.3	<.2	4.5	3
56429	.4	4.3	11.7	46.7	<30	6	7	694	3.43	2.3	<5	3	9	.07	1.1	.2	62	.18	.019	12	14	.15	232	.02	<2	.79	.01	.10	<2	<.2	37	<.3	<.2	1.4	2
56430	.4	10.5	7.7	69.4	112	31	23	2367	4.39	3.1	<5	<1	19	.20	1.0	.1	96	1.45	.047	12	89	1.44	394	.04	<2	2.20	.01	.08	<2	<.2	70	.3	.2	5.7	1
56431	.9	9.7	9.6	74.5	159	6	6	755	2.41	.6	<5	1	18	.39	<.2	.1	57	.32	.041	6	22	.23	191	.15	<2	.73	.01	.06	<2	<.2	44	<.3	<.2	3.4	1
56432	.9	7.3	13.7	55.2	147	10	5	281	3.10	2.8	6	1	19	.10	<.2	.1	74	.29	.071	7	23	.27	155	.26	3	1.37	.02	.06	<2	<.2	35	<.3	<.2	5.6	1
56433	.8	6.3	10.2	130.8	88	7	6	661	2.88	2.6	<5	<1	13	.23	.2	.2	69	.20	.066	7	22	.17	150	.19	<2	1.00	.01	.06	<2	<.2	29	<.3	<.2	4.9	1
56434	.7	7.7	8.2	39.2	37	7	5	211	2.91	2.2	<5	1	15	.06	.3	<.1	64	.20	.027	9	17	.14	204	.15	<2	.75	.01	.06	<2	<.2	99	<.3	<.2	2.7	1
56435	.6	3.8	11.8	37.9	55	3	3	202	2.76	1.3	<5	<1	10	.21	.8	.1	60	.18	.012	7	13	.05	96	.10	<2	.41	<.01	.09	<2	<.2	48	<.3	<.2	2.2	1
56436	4.0	7.7	15.8	93.2	497	6	6	1593	2.20	2.1	<5	1	45	.94	.5	.2	49	1.10	.154	10	26	.11	400	.12	4	.53	.01	.16	<2	<.2	147	<.3	<.2	2.0	<1
56437	.9	6.4	18.6	68.0	203	4	6	1108	2.73	1.2	<5	1	15	.80	.6	.1	47	.21	.034	8	13	.06	180	.07	2	.57	.01	.13	<2	<.2	137	<.3	<.2	2.2	1
56438	1.0	8.5	14.3	91.9	269	14	11	713	3.70	9.8	<5	1	37	.18	<.2	.1	90	.44	.045	7	24	.35	207	.18	<2	1.96	.02	.07	<2	<.2	68	<.3	<.2	6.7	24
56439	.9	8.5	8.9	68.4	222	13	6	338	3.32	7.0	<5	1	34	.13	.3	.2	81	.50	.081	10	29	.28	96	.31	4	1.31	.02	.10	<2	<.2	41	<.3	.2	5.5	5
56440	.8	8.7	9.0	98.3	76	11	6	626	3.34	1.6	<5	1	36	.21	<.2	.2	75	.46	.040	9	27	.27	130	.34	<2	1.56	.03	.06	<2	<.2	28	<.3	<.2	5.7	2
56441	.8	7.9	8.0	82.7	67	11	6	570	2.95	1.2	<5	1	29	.15	<.2	<.1	68	.37	.046	8	17	.28	100	.28	<2	1.48	.02	.07	<2	<.2	20	<.3	<.2	5.2	2
56442	.9	8.1	12.8	120.5	307	14	8	807	3.39	2.2	<5	1	28	.22	<.2	<.1	76	.37	.127	8	23	.31	204	.27	<2	1.75	.02	.11	<2	<.2	36	<.3	<.2	6.3	13
RE 56442	1.1	8.6	14.5	124.6	369	14	8	837	3.46	2.5	<5	1	30	.24	<.2	.2	78	.38	.132	8	25	.31	212	.28	3	1.82	.02	.11	<2	<.2	51	<.3	.2	6.7	11
56443	.6	6.7	7.4	64.8	134	8	6	592	3.06	<.5	<5	1	26	.14	<.2	.1	68	.35	.035	7	24	.28	120	.29	<2	1.31	.03	.06	<2	<.2	16	<.3	<.2	6.0	3
56444	.8	8.3	12.9	203.5	256	17	9	581	3.89	2.3	<5	1	24	.21	<.2	.1	92	.30	.142	8	26	.34	163	.30	2	1.84	.02	.07	<2	<.2	33	<.3	<.2	7.8	8
56445	1.0	16.2	12.5	161.4	152	18	13	1203	3.78	3.4	<5	2	36	.27	.4	.1	76	.42	.300	12	25	.43	204	.21	2	2.18	.02	.08	<2	<.2	98	<.3	.2	8.1	2
56446	.8	13.6	23.4	333.6	252	16	15	2679	5.44	6.3	<5	2	40	.43	<.2	.2	92	.43	.494	14	30	.41	342	.18	2	2.91	.01	.06	<2	<.2	70	.3	<.2	6.0	1
56447	1.2	10.3	10.8	162.5	49	15	15	628	4.28	9.9	<5	1	53	.25	<.2	.2	95	.62	.244	9	27	.47	167	.15	<2	2.28	.02	.08	<2	<.2	45	<.3	<.2	8.5	5
56448	.9	11.3	10.2	73.8	57	16	8	357	3.58	6.8	<5	1	21	.11	.2	<.1	86	.31	.130	9	29	.32	105	.31	<2	2.10	.02	.05	<2	<.2	<10	<.3	<.2	6.2	11
56449	1.1	6.3	13.8	114.4	37	13	7	765	3.51	6.3	<5	1	26	.20	<.2	<.1	75	.33	.156	8	24	.19	112	.31	<2	1.42	.02	.06	<2	<.2	26	<.3	<.2	6.3	4
56450	.9	8.2	10.9	77.8	69	15	7	348	3.30	9.8	<5	1	24	.15	.3	.1	81	.31	.131	7	26	.25	72	.31	<2	1.45	.02	.05	<2	<.2	46	<.3	<.2	6.3	6
56451	1.0	8.1	8.2	116.5	75	18	8	434	3.62	4.0	<5	2	24	.18	<.2	.2	92	.30	.145	7	33	.28	91	.34	2	1.72	.02	.05	<2	<.2	31	<.3	<.2	7.3	2
56452	1.3	8.5	10.0	94.5	31	15	9	549	3.89	9.2	<5	<1	26	.17	<.2	<.1	96	.32	.195	7	32	.25	114	.33	<2	1.72	.02	.04	<2	<.2	23	<.3	<.2	8.0	2
56453	1.2	7.3	11.1	112.6	82	12	7	320	3.39	3.4	<5	<1	16	.19	<.2	.1	83	.21	.132	7	25	.22	64	.30	<2	1.38	.01	.04	<2	<.2	24	<.3	.2	8.2	2
56454	1.0	8.4	11.0	110.8	155	14	8	606	3.51	3.6	<5	1	34	.30	.2	.1	82	.44	.179	7	26	.27	109	.31	<2	1.34	.02	.05	<2	<.2	46	<.3	.2	7.9	2
56455	.8	6.1	9.3	88.3	283	9	6	317	2.94	4.9	<5	1	28	.19	.4	.1	73	.36	.133	7	24	.19	117	.19	2	1.20	.01	.08	<2	<.2	14	<.3	.4	6.7	2
56501	2.9	6.5	4.1	8.7	225	3	2	95	.57	7.0	<5	<1	111	.73	.7	<.1	7	1.66	.048	2	3	.05	117	.01	<2	.18	.01	.05	<2	<.2	380	.3	.2	.9	3
56502	.9	10.9	8.6	67.1	52	13	7	317	3.19	8.1	<5	<1	40	.18	<.2	.2	78	.57	.113	14	23	.33	90	.31	<2	1.40	.03	.06	<2	<.2	77	<.3	.6	4.9	1
56503	.7	6.2	10.5	83.4	136	8	5	501	2.98	2.7	<5	1	40	.18	.3	.1	64	.63	.032	8	27	.31	64	.32	<2	1.42	.03	.07	<2	<.2	63	<.3	<.2	6.6	2
56504	1.0	8.2	9.9	76.1	85	13	7	618	3.06	11.1	<5	1	31	.17	.3	.2	71	.39	.085	12	23	.28	104	.30	<2	1.37	.02	.12	<2	<.2	12	<.3	.2	5.4	1
56505	1.5	7.2	12.8	127.2	113	14	7	1170	3.05	5.6	<5	1	26	.28	.2	.3	76	.36	.094	8	29	.25	193	.31	3	1.40	.02	.08	<2	<.2	<10	<.3	.2	7.9	3
STANDARD	25.3	115.7	97.5	290.1	1848	35	17	1132	4.56	71.6	22	18	58	2.29	8.6	20.3	77	.82	.099	18	56	1.20	231	.16	29	2.39	.07	.76	16	2.2	474	.8	2.2	6.8	53

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
56506	1.2	6.5	11.5	121.5	100	14	7	809	3.33	3.1	<5	1	23	.19	.2	.2	82	.27	.104	8	26	.24	149	.33	2	1.45	.02	.06	<2	.4	17	<.3	<.2	6.5	1
56507	1.4	7.4	13.0	120.5	111	13	6	616	3.07	3.2	<5	1	26	.19	<.2	.3	74	.29	.163	7	25	.21	128	.30	<2	1.33	.02	.07	<2	<.2	32	<.3	<.2	7.1	1
56508	1.1	8.3	10.7	108.0	115	15	6	723	3.20	3.6	8	2	21	.15	.3	.3	77	.26	.148	8	27	.25	155	.31	<2	1.53	.02	.06	<2	<.2	13	<.3	.2	6.8	<1
56509	.9	6.7	9.9	110.0	109	14	6	694	2.99	2.2	<5	1	23	.18	.2	.2	72	.28	.104	7	23	.22	146	.31	<2	1.57	.02	.06	<2	<.2	14	<.3	<.2	6.7	1
56510	1.2	6.7	11.1	112.5	73	15	6	664	3.35	2.6	<5	1	24	.18	<.2	<.1	84	.31	.150	7	23	.23	126	.34	<2	1.49	.02	.06	<2	<.2	17	<.3	.2	7.2	10
56511	1.2	7.4	10.0	169.4	41	16	8	684	3.59	2.3	<5	1	23	.25	<.2	<.1	94	.31	.184	7	31	.25	116	.35	<2	1.39	.02	.05	<2	<.2	20	<.3	<.2	7.4	20
56512	1.2	7.4	7.2	149.0	<30	16	8	1037	3.37	1.2	<5	1	31	.20	<.2	.2	77	.32	.199	8	23	.23	145	.35	2	1.67	.02	.07	<2	<.2	16	<.3	<.2	7.8	1
56513	1.3	6.6	9.0	159.4	73	12	7	1116	2.97	1.2	<5	2	28	.29	.2	<.1	70	.37	.148	9	25	.23	173	.31	<2	1.29	.02	.06	<2	<.2	23	<.3	.2	6.3	3
56514	1.2	7.9	9.1	121.4	55	16	7	700	3.31	2.9	<5	1	25	.15	.2	<.1	82	.36	.169	10	25	.26	94	.35	<2	1.55	.02	.05	<2	<.2	30	<.3	.2	6.4	1
56515	.7	8.0	9.5	120.8	47	13	5	396	2.73	2.7	7	1	25	.13	<.2	<.1	59	.32	.150	10	21	.23	96	.31	<2	1.72	.02	.06	<2	<.2	18	<.3	<.2	6.8	2
56516	.9	6.4	7.5	101.9	<30	12	6	683	3.03	1.1	<5	1	31	.27	<.2	<.1	72	.34	.136	8	22	.18	190	.31	<2	1.20	.02	.08	<2	<.2	24	<.3	<.2	5.5	1
56517	1.3	9.3	8.3	74.8	74	14	7	359	3.35	4.4	6	1	27	.11	<.2	<.1	83	.36	.078	10	23	.28	68	.32	<2	1.58	.02	.05	<2	<.2	13	<.3	.2	6.4	1
56518	.9	8.5	7.3	112.2	60	16	8	362	3.57	3.1	<5	1	29	.13	<.2	.1	84	.40	.115	9	27	.27	92	.36	<2	1.91	.03	.08	<2	<.2	11	<.3	.2	7.2	3
56519	1.5	7.2	11.6	97.6	41	11	6	308	3.39	3.2	<5	1	22	.15	.2	.3	80	.29	.159	7	24	.19	71	.33	<2	1.45	.02	.05	<2	<.2	28	<.3	.2	8.6	1
56520	1.2	5.9	10.0	92.5	68	12	6	410	3.39	2.4	<5	1	22	.14	.2	.3	82	.28	.179	7	25	.18	100	.32	3	1.49	.02	.05	<2	<.2	11	<.3	.2	8.1	<1
56521	1.0	6.7	6.6	128.7	<30	13	6	397	3.03	2.3	5	1	20	.13	<.2	.3	70	.25	.208	8	22	.21	86	.28	2	1.45	.02	.05	<2	<.2	23	<.3	<.2	6.1	<1
56522	1.1	6.8	9.3	123.3	81	14	7	910	3.48	7.7	5	1	20	.13	.5	.3	86	.25	.092	8	27	.23	98	.36	2	1.60	.02	.04	<2	<.2	26	.3	.2	7.9	3
56523	1.3	8.8	12.5	134.6	<30	16	8	949	3.79	6.0	<5	1	17	.12	<.2	.3	94	.23	.100	8	26	.26	110	.34	<2	1.74	.01	.05	<2	<.2	44	<.3	<.2	8.5	3
56524	1.3	11.2	9.2	126.2	205	20	10	553	4.26	6.3	<5	1	18	.11	.2	<.1	105	.21	.103	7	29	.32	104	.37	<2	2.20	.02	.05	<2	<.2	32	<.3	.2	8.5	252
56525	.9	12.8	7.4	64.3	<30	16	7	449	3.41	4.6	<5	<1	24	.07	.4	.2	91	.30	.076	8	26	.29	93	.33	<2	1.45	.02	.04	<2	.4	46	<.3	.2	5.4	5
56526	.8	7.7	6.4	95.0	<30	14	7	402	3.23	3.1	<5	1	16	.06	.2	<.1	85	.21	.074	7	22	.25	78	.33	<2	1.43	.02	.04	<2	<.2	16	<.3	.2	5.4	4
56527	.9	6.8	5.3	72.8	<30	13	5	209	2.77	2.9	<5	1	19	.07	.2	<.1	64	.20	.125	7	21	.18	111	.28	<2	1.63	.02	.03	<2	<.2	18	<.3	.2	5.7	5
RE 56527	1.1	6.9	5.7	73.3	<30	13	5	208	2.85	2.5	<5	1	19	.07	.3	.2	65	.19	.131	7	21	.19	115	.27	<2	1.67	.02	.03	<2	.4	10	<.3	.2	6.0	3
56528	1.3	37.1	4.2	25.0	173	8	9	2193	2.04	6.9	<5	<1	327	.67	.2	<.1	27	4.35	.094	9	19	.57	495	.06	8	.56	.02	.05	<2	<.2	25	5.8	.3	2.1	<1
56529	.9	17.4	10.0	91.2	33	13	8	510	3.52	3.7	<5	1	67	.18	.6	<.1	82	.82	.115	17	21	.35	199	.34	<2	1.22	.04	.07	<2	.4	24	.3	<.2	5.1	<1
56530	.9	45.8	226.4	579.7	579	8	6	805	2.91	11.3	<5	1	22	1.16	2.5	<.1	60	.43	.057	11	32	.19	788	.14	2	1.31	.01	.13	<2	<.2	47	<.3	<.2	5.1	1
56531	1.4	20.5	20.4	670.6	219	15	16	1474	6.69	7.7	<5	<1	17	.74	1.8	.1	153	.25	.095	6	38	.27	408	.04	<2	2.44	.01	.17	<2	<.2	33	<.3	<.2	9.8	2
56532	.6	9.1	7.0	65.0	<30	9	6	451	2.88	2.9	<5	<1	24	.11	.6	<.1	72	.32	.042	8	15	.22	100	.22	<2	.84	.02	.10	<2	<.2	41	<.3	.2	3.6	2
56533	1.2	10.0	10.3	139.2	111	12	9	991	3.41	2.0	<5	1	37	.41	.2	<.1	77	.42	.201	8	24	.27	159	.28	3	1.58	.02	.11	<2	<.2	30	<.3	.2	7.0	<1
56534	1.2	13.1	10.8	146.9	289	10	10	703	3.46	2.4	7	1	29	.32	.6	.2	89	.41	.080	7	22	.32	199	.14	2	1.52	.01	.10	<2	<.2	43	<.3	<.2	6.7	3
56535	2.4	15.9	7.1	236.9	375	47	30	3017	7.10	.5	<5	<1	60	.74	<.2	<.1	122	1.12	.340	15	125	1.90	543	.53	2	1.66	.03	.10	<2	<.2	36	<.3	<.2	8.6	1
56536	2.2	9.2	9.1	96.8	77	9	8	1759	3.37	1.0	<5	<1	20	.38	.3	<.1	90	.26	.056	7	24	.31	166	.27	6	1.10	.02	.06	<2	<.2	23	<.3	.2	6.4	1
56537	1.0	15.8	10.0	93.9	142	12	9	1354	3.50	2.4	<5	1	119	.34	.4	<.1	78	1.02	.057	15	21	.44	191	.24	3	1.72	.03	.10	<2	<.2	17	<.3	.2	5.6	5
56538	.9	8.2	8.0	146.4	43	11	7	598	3.33	4.0	<5	1	39	.32	.2	.2	81	.41	.255	9	23	.22	137	.30	<2	1.34	.02	.06	<2	<.2	<10	<.3	<.2	5.6	1
STANDARD	24.5	117.1	101.7	283.3	1867	34	16	1104	4.41	69.8	21	18	57	2.25	9.6	20.8	75	.80	.098	18	55	1.18	250	.16	28	2.30	.07	.77	16	2.1	470	.6	1.8	6.3	52

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
56539	1.2	23.7	12.2	128.9	178	13	10	1111	3.66	4.5	7	1	57	.47	.4	.1	92	.85	.064	11	25	.43	252	.23	3	1.54	.02	.08	<2	<.2	30	<.3	<.2	5.3	2
56540	1.3	5.2	9.5	186.2	139	5	10	1287	4.02	10.7	<5	<1	17	.30	1.3	.2	46	.25	.074	5	18	.10	256	.04	2	1.15	.01	.14	<2	<.2	74	<.3	<.2	2.0	1
56541	.9	6.0	8.6	147.3	145	5	6	272	2.20	1.7	<5	<1	30	.33	.2	.1	59	.34	.016	5	17	.14	83	.20	<2	.63	.01	.06	<2	<.2	33	<.3	<.2	3.8	1
56542	2.3	15.3	4.4	144.4	75	2	4	1245	.82	2.1	<5	<1	115	1.31	.2	.1	10	1.63	.064	2	2	.19	119	.02	4	.16	.01	.07	<2	<.2	125	<.3	.2	<.5	<1
56543	1.0	8.3	12.3	227.7	116	6	8	1135	2.71	1.6	<5	<1	60	.61	<.2	.1	61	.72	.118	6	23	.24	308	.16	3	1.08	.01	.13	<2	<.2	59	<.3	<.2	3.6	<1
56544	1.2	9.0	9.3	87.2	125	9	8	724	3.19	2.6	11	2	30	.20	.6	.1	71	.45	.063	10	19	.27	189	.19	6	1.26	.02	.13	<2	<.2	37	<.3	.2	4.1	<1
56545	1.4	8.7	11.7	228.1	69	12	11	970	3.78	1.3	8	2	24	.41	.3	.2	93	.35	.153	8	39	.32	333	.21	4	1.58	.02	.10	<2	<.2	29	<.3	.2	6.6	<1
56546	2.4	7.4	8.7	203.6	71	11	9	1639	3.20	1.6	<5	1	24	.48	.2	.1	78	.33	.172	7	30	.26	331	.19	2	1.36	.02	.07	<2	<.2	<10	<.3	<.2	5.9	1
56547	1.6	8.4	11.1	119.2	55	9	8	458	3.01	1.5	<5	<1	31	.20	.2	.1	64	.41	.235	6	19	.20	257	.17	<2	1.50	.01	.07	<2	<.2	54	<.3	<.2	6.2	1
RE 56547	1.7	9.1	10.1	129.6	73	10	9	475	3.09	2.2	<5	1	34	.22	.3	.1	68	.46	.250	7	20	.21	263	.18	<2	1.62	.01	.08	<2	<.2	41	<.3	.2	6.8	2
56548	2.4	10.9	13.3	185.9	106	10	14	1347	3.31	3.8	<5	1	31	.46	.3	.2	74	.46	.162	9	26	.34	368	.11	4	1.86	.01	.16	<2	<.2	49	<.3	<.2	7.1	1
56549	2.0	11.5	12.1	144.0	54	15	13	1126	3.95	4.3	<5	1	37	.26	.4	.1	92	.52	.151	9	25	.42	250	.18	3	2.32	.02	.11	<2	<.2	54	<.3	.2	7.7	4
56550	1.2	7.8	6.6	60.7	68	8	6	282	2.88	2.4	12	1	39	.14	.4	.1	81	.50	.032	5	24	.24	91	.22	3	.95	.01	.09	<2	<.2	23	<.3	.3	4.7	1
56551	.7	5.5	7.8	64.6	<30	8	7	514	2.73	1.3	11	1	22	.08	.3	<.1	63	.28	.092	6	18	.22	159	.19	4	1.39	.02	.06	<2	<.2	30	<.3	.2	4.4	2
56552	1.3	6.8	8.3	147.8	68	12	9	1014	3.19	2.7	5	2	19	.22	.3	.1	82	.25	.136	7	24	.23	150	.21	5	1.44	.01	.06	<2	<.2	28	<.3	<.2	6.3	4
56553	1.0	5.7	6.8	109.4	41	10	8	307	3.13	3.0	8	1	20	.10	.3	.1	78	.25	.159	7	22	.23	163	.20	2	1.48	.02	.08	<2	<.2	<10	<.3	.2	5.4	38
56554	.7	7.6	9.3	55.0	<30	9	6	410	2.87	2.2	<5	<1	27	.07	.2	.1	69	.35	.052	9	23	.23	105	.23	<2	1.27	.02	.06	<2	<.2	26	<.3	<.2	4.4	1
56555	.9	30.2	8.9	60.4	198	19	10	1633	4.12	4.1	<5	<1	89	.16	.3	.1	76	1.16	.056	36	23	.48	256	.17	3	2.91	.02	.16	<2	<.2	84	<.3	.2	7.2	<1
56556	.6	6.7	7.5	45.0	80	7	6	319	2.74	1.4	<5	<1	37	.08	.3	.1	64	.40	.053	7	18	.27	118	.21	2	1.21	.02	.07	<2	<.2	40	<.3	<.2	4.0	3
56557	1.1	7.7	10.5	52.9	49	9	5	299	2.89	2.2	18	1	31	.12	.3	.2	76	.33	.061	6	22	.23	95	.30	3	1.14	.02	.08	<2	<.2	31	<.3	<.2	6.4	2
56558	.5	7.9	8.7	74.6	36	10	6	383	2.52	1.6	9	1	33	.10	<.2	.1	60	.42	.046	13	19	.27	121	.22	2	1.40	.02	.06	<2	<.2	34	<.3	<.2	3.8	1
56559	.6	10.5	8.1	82.2	<30	13	8	458	2.92	2.5	7	1	37	.09	<.2	.2	67	.47	.060	11	19	.32	114	.20	<2	1.74	.02	.07	<2	<.2	25	<.3	<.2	4.6	1
56560	.7	6.6	7.4	96.3	53	9	7	649	2.64	1.4	8	1	31	.12	.2	.2	57	.34	.127	7	15	.21	188	.18	2	1.28	.01	.09	<2	<.2	56	<.3	<.2	4.0	1
56561	.6	6.2	8.0	72.1	<30	8	6	266	2.55	1.5	<5	<1	26	.07	.2	.1	58	.30	.051	7	18	.22	98	.16	293	1.35	.07	.06	<2	<.2	20	<.3	<.2	4.3	6
56562	.5	6.7	7.3	64.8	<30	8	7	571	2.28	1.7	<5	1	32	.05	<.2	.1	55	.38	.039	10	19	.23	101	.21	6	1.26	.02	.05	<2	<.2	18	<.3	<.2	3.7	1
56563	.5	5.4	13.6	56.1	<30	6	4	269	1.93	1.4	13	1	32	.06	.2	.2	47	.38	.023	8	15	.21	78	.21	4	1.18	.02	.05	<2	<.2	32	<.3	<.2	3.6	2
56564	.5	5.4	8.6	47.0	<30	6	4	210	1.98	1.0	5	1	23	.04	.2	.1	47	.27	.028	8	14	.19	76	.21	2	1.12	.02	.04	<2	<.2	24	<.3	<.2	3.7	4
56565	.9	7.2	9.6	89.1	<30	10	6	255	2.73	2.4	5	<1	21	.08	<.2	.1	61	.25	.101	7	19	.18	92	.23	<2	1.60	.01	.04	<2	<.2	20	<.3	<.2	6.8	2
56601	.8	7.1	7.6	170.8	<30	10	7	532	3.05	2.2	<5	<1	20	.11	.3	.1	76	.32	.059	8	24	.23	352	.19	<2	1.51	.01	.07	<2	<.2	21	<.3	<.2	5.2	2
56602	.9	11.3	5.0	164.1	<30	4	8	307	3.52	1.9	<5	1	16	.18	<.2	.2	91	.32	.084	8	20	.24	664	.03	2	1.32	.01	.06	<2	<.2	26	<.3	<.2	5.1	2
56603	.6	7.9	8.9	82.3	39	4	6	756	3.91	4.7	<5	1	24	.15	1.0	.2	58	.41	.022	8	9	.16	190	.11	3	.85	.01	.09	<2	<.2	15	<.3	<.2	2.0	<1
56604	.8	12.5	10.6	117.1	79	12	9	680	3.26	5.2	10	1	26	.15	.6	.1	76	.37	.052	8	21	.30	185	.19	6	1.47	.01	.08	<2	<.2	16	<.3	<.2	4.0	<1
56605	1.1	47.0	18.0	276.7	304	11	10	503	3.94	5.2	10	3	36	.66	.5	.2	83	.40	.281	11	23	.29	271	.18	6	1.78	.01	.08	<2	<.2	27	<.3	<.2	6.8	<1
56606	1.2	10.6	16.6	318.5	272	10	11	1632	3.38	3.1	5	1	25	.76	.7	.1	72	.32	.113	8	21	.24	268	.17	3	1.63	.01	.10	<2	<.2	45	<.3	<.2	6.6	1
STANDARD	26.1	115.0	109.6	281.7	1809	34	16	1105	4.40	75.0	18	19	58	2.23	9.3	20.8	75	.80	.097	18	56	1.17	246	.16	30	2.53	.07	.74	17	2.1	448	.9	2.1	6.6	51

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
56607	1.3	8.0	9.5	75.4	<30	13	7	532	3.37	3.8	<5	1	19	.13	<.2	<.1	86	.23	.083	5	21	.22	118	.32	2	1.45	.01	.04	<2	<.2	20	<.3	.3	7.2	<1
56608	1.0	9.0	10.9	73.6	124	8	8	410	3.47	3.9	<5	<1	15	.16	.3	.4	82	.18	.049	6	17	.16	188	.16	<2	1.00	.01	.06	<2	<.2	24	<.3	<.2	5.1	2
56609	1.2	5.9	6.2	55.2	99	4	8	311	3.15	2.3	<5	<1	20	.18	.6	.3	64	.18	.042	5	13	.10	259	.05	<2	.68	.01	.08	<2	.2	19	.4	<.2	4.0	<1
56610	1.8	57.8	26.2	172.7	804	15	13	611	4.99	13.4	8	1	25	.33	2.1	<.1	102	.46	.108	10	28	.44	302	.14	6	2.16	.01	.09	<2	<.2	37	<.3	<.2	10.1	1
56611	.9	6.2	11.6	133.6	67	10	10	396	3.24	1.9	10	2	21	.20	<.2	<.1	78	.26	.162	7	23	.22	95	.21	4	1.29	.01	.07	<2	<.2	36	<.3	.2	6.0	1
56612	.9	8.8	8.8	127.5	65	13	9	943	3.13	1.8	8	1	31	.32	<.2	<.1	72	.31	.230	8	20	.26	244	.23	4	1.56	.02	.06	<2	<.2	27	<.3	.2	4.9	10
56613	1.2	37.1	104.0	192.5	617	8	10	855	3.47	7.6	5	<1	30	.62	.7	<.1	84	.38	.032	8	14	.25	217	.14	6	1.41	.02	.07	<2	<.2	28	<.3	.2	6.3	4
56614	3.1	750.8	169.8	965.2	16637	23	41	8985	13.70	267.4	<5	<1	40	7.31	32.0	1.7	102	.64	.130	20	19	.30	704	.08	<2	2.45	.01	.13	<2	.4	348	.7	.2	6.2	34
56615	3.0	366.1	285.5	1045.6	2177	8	19	4940	6.62	176.4	<5	<1	18	5.45	18.8	.6	73	.26	.108	14	23	.14	605	.06	<2	1.45	.01	.13	<2	.2	78	<.3	<.2	6.1	13
56616	1.0	12.4	10.6	92.8	183	12	6	448	3.02	5.3	6	1	32	.23	.5	<.1	78	.41	.071	8	19	.24	125	.31	3	1.45	.02	.06	<2	.3	27	<.3	<.2	8.0	2
56617	.9	13.4	7.5	80.3	<30	13	8	589	3.19	3.7	12	2	23	.14	<.2	<.1	83	.33	.056	10	31	.24	163	.26	4	1.59	.01	.08	<2	<.2	31	<.3	.2	5.3	6
56618	.8	8.3	9.4	76.7	46	12	5	517	2.94	3.2	8	1	23	.20	<.2	.1	72	.34	.073	7	21	.22	218	.29	5	1.56	.02	.06	<2	<.2	26	<.3	.4	5.6	<1
56619	.6	7.0	8.6	102.5	159	10	6	323	2.72	2.1	5	1	28	.09	.2	.2	61	.38	.124	7	19	.21	178	.22	<2	1.36	.02	.06	<2	.3	26	<.3	<.2	5.4	2
56620	.5	11.9	12.2	89.4	270	11	3	262	2.60	2.9	<5	1	37	.12	.5	.3	51	.52	.036	10	18	.26	211	.32	<2	1.90	.03	.07	<2	.3	15	<.3	.3	8.3	<1
56621	.7	42.2	94.3	136.8	913	11	8	1169	3.58	8.2	12	1	51	.73	1.0	<.1	74	.87	.040	15	34	.33	382	.20	6	1.81	.02	.11	<2	<.2	50	<.3	<.2	5.8	2
RE 56622	1.0	40.5	75.2	228.6	378	12	10	1613	4.11	9.7	<5	3	33	.70	2.0	<.1	81	.53	.091	20	33	.26	484	.18	4	1.46	.02	.17	<2	<.2	36	<.3	<.2	5.1	2
56622	.9	38.5	81.3	224.5	313	12	9	1551	3.91	8.4	<5	2	33	.63	2.0	<.1	76	.51	.088	20	33	.25	473	.17	3	1.40	.02	.16	<2	<.2	42	<.3	<.2	4.8	4
56623	1.0	41.8	94.1	225.9	319	11	9	1633	3.83	7.3	<5	3	32	.66	2.5	<.1	74	.48	.088	19	33	.24	492	.16	5	1.39	.01	.16	<2	.2	81	<.3	<.2	5.5	2
56624	.9	9.9	10.8	162.0	167	13	7	512	3.16	2.5	8	1	28	.55	.3	.2	77	.44	.089	9	27	.30	163	.31	2	1.45	.02	.11	<2	.2	27	<.3	<.2	7.3	1
56625	.8	10.2	10.7	111.6	381	15	9	528	3.40	3.5	8	1	30	.23	.2	<.1	81	.41	.114	11	28	.31	142	.25	3	1.65	.02	.08	<2	.5	34	<.3	<.2	6.0	1
56626	1.6	9.0	23.6	475.3	311	8	7	1282	3.24	1.7	<5	1	22	1.06	.5	<.1	55	.37	.137	8	27	.22	484	.09	2	1.60	.01	.08	<2	<.2	39	<.3	<.2	6.3	1
56627	.6	10.5	7.4	96.8	202	10	8	1611	3.17	1.7	<5	1	97	.31	<.2	.3	64	.77	.023	9	26	.36	270	.22	<2	1.66	.03	.09	<2	<.2	42	<.3	<.2	4.9	1
56628	1.4	9.1	12.4	184.9	215	13	9	679	3.28	4.3	7	1	27	.29	.2	<.1	73	.33	.226	10	24	.25	187	.20	2	1.68	.02	.06	<2	<.2	35	<.3	<.2	8.2	102
59728	1.2	10.3	12.6	155.7	228	13	6	648	2.83	1.8	16	2	31	.21	.3	.2	64	.37	.142	10	25	.25	164	.30	4	1.52	.02	.09	<2	.4	16	<.3	<.2	7.9	1
59729	1.0	8.6	14.6	166.0	130	13	7	541	2.81	1.8	12	2	24	.17	.4	<.1	61	.26	.170	8	23	.22	144	.20	5	1.40	.01	.07	<2	.4	40	<.3	<.2	6.4	1
59730	1.1	10.1	14.6	149.7	192	16	7	787	3.29	2.6	7	1	61	.55	<.2	<.1	81	.65	.184	8	29	.23	177	.33	2	1.43	.02	.09	<2	<.2	35	<.3	<.2	7.1	3
59731	.9	84.6	16.4	93.0	427	16	9	1002	3.60	7.6	5	1	41	.21	2.8	<.1	63	.62	.042	22	21	.39	229	.21	<2	2.38	.02	.14	<2	<.2	47	.4	.2	8.9	2
59732	1.0	22.3	12.8	138.6	348	13	7	1164	3.08	2.3	<5	1	46	.24	.6	<.1	71	.68	.050	12	26	.29	168	.29	<2	1.64	.02	.08	<2	<.2	45	<.3	<.2	6.6	1
59733	1.3	9.9	14.4	130.4	190	14	8	418	3.60	3.6	6	2	23	.18	.4	.2	89	.29	.143	8	27	.23	94	.31	5	1.69	.01	.05	<2	<.2	39	<.3	<.2	9.0	1
59734	1.3	10.6	9.5	73.1	105	12	7	268	3.48	5.3	14	1	26	.13	.3	<.1	91	.31	.078	6	29	.25	84	.33	2	1.43	.02	.06	<2	.2	30	<.3	<.2	8.1	1
59735	1.3	11.8	10.9	73.1	87	13	7	618	3.29	6.9	10	1	20	.11	<.2	<.1	81	.28	.098	7	21	.26	74	.31	4	1.42	.02	.05	<2	<.2	36	<.3	<.2	6.9	<1
59736	.8	10.4	9.5	55.7	72	12	6	414	3.20	4.1	6	1	38	.12	.4	<.1	80	.53	.061	12	30	.36	92	.34	<2	1.00	.03	.05	<2	<.2	28	<.3	< 2	5.7	4
STANDARD	24.6	120.1	98.9	282.3	1893	35	16	1121	4.43	77.8	21	17	56	2.22	9.4	21.0	75	.81	.099	18	53	1.17	239	.16	28	2.27	.07	.76	17	2.6	470	.7	2.1	6.7	53

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

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 252 File # 96-2535 Page 1

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
56456	1.0	12.0	9.5	110.6	321	14	12	448	3.63	6.1	<5	1	21	.37	.2	.1	71	.33	.302	9	17	.37	181	.1[illegible]	4	1.78	.01	.08	<2	<.2	35	<.3	<.2	6.4	83
56457	1.0	7.4	9.8	93.8	234	13	8	327	3.10	4.8	<5	<1	19	.22	.3	<.1	68	.24	.164	6	18	.28	172	.20	<2	1.47	.01	.04	<2	<.2	64	<.3	<.2	6.4	6
56458	1.0	6.5	11.4	117.0	73	13	9	467	3.15	5.0	<5	<1	17	.23	<.2	<.1	67	.25	.217	8	15	.29	98	.20	<2	1.61	.01	.04	<2	<.2	39	<.3	<.2	5.4	7
56459	.5	3.2	6.8	61.5	63	7	6	357	2.55	1.7	<5	1	14	.08	.3	<.1	60	.16	.054	6	15	.14	101	.12	2	.78	.01	.04	<2	<.2	26	<.3	<.2	3.1	2
56460	1.4	7.0	10.5	112.9	64	13	10	565	3.34	4.2	5	1	19	.27	<.2	.1	80	.26	.140	7	20	.26	81	.22	<2	1.46	.01	.04	<2	<.2	18	<.3	<.2	7.0	2
56461	1.1	7.6	11.8	49.1	73	9	6	448	2.79	3.1	<5	<1	25	.10	.5	<.1	62	.30	.031	7	15	.30	81	.30	<2	1.16	.02	.04	<2	<.2	<10	<.3	.2	7.0	<1
56462	.8	8.0	15.4	64.2	122	7	5	755	2.19	3.2	6	<1	37	.19	.6	<.1	46	.45	.018	13	11	.29	95	.20	<2	1.11	.02	.05	<2	<.2	23	<.3	.2	4.3	1
56463	1.0	13.8	11.2	93.0	181	12	8	680	2.94	6.5	6	<1	46	.43	.6	<.1	65	.71	.083	15	17	.42	120	.21	<2	1.28	.03	.07	<2	<.2	12	<.3	<.2	5.2	16
56464	1.0	8.2	8.7	117.6	103	13	9	532	3.30	4.0	9	1	31	.34	<.2	<.1	71	.35	.241	9	20	.30	128	.22	4	1.48	.02	.07	<2	<.2	24	<.3	<.2	6.2	<1
56465	.9	11.7	8.5	70.5	43	15	9	519	3.41	6.3	10	1	29	.13	<.2	<.1	82	.37	.059	10	25	.35	114	.30	2	1.37	.02	.07	2	<.2	31	<.3	<.2	5.7	3
56466	1.4	10.0	12.3	182.5	204	16	12	1480	3.64	6.7	<5	<1	35	.35	<.2	<.1	84	.38	.206	8	22	.34	225	.21	<2	1.74	.01	.06	<2	<.2	61	<.3	<.2	7.3	7
56467	1.2	10.1	8.1	117.8	33	17	10	589	3.80	4.7	<5	<1	20	.18	<.2	<.1	101	.28	.123	9	24	.33	85	.31	<2	1.47	.01	.05	<2	<.2	25	<.3	<.2	6.7	3
RE 56467	1.3	10.8	8.6	122.5	57	17	11	618	3.92	4.8	9	2	21	.17	.3	<.1	104	.29	.125	9	28	.34	87	.31	4	1.55	.01	.06	2	<.2	12	<.3	<.2	7.3	1
56468	1.0	10.9	7.7	56.8	36	14	10	340	3.44	5.6	8	1	24	.09	.2	.1	90	.30	.086	9	24	.36	107	.30	<2	1.50	.02	.04	2	<.2	16	<.3	<.2	6.4	<1
56469	1.1	11.0	9.3	108.4	49	17	11	586	3.82	8.1	<5	1	28	.16	.4	<.1	93	.41	.108	8	21	.43	145	.24	2	1.55	.02	.04	<2	<.2	14	<.3	<.2	6.7	1
56470	1.2	12.0	21.0	136.9	96	12	9	720	3.20	4.4	<5	<1	27	.23	.7	<.1	76	.43	.083	8	22	.36	323	.20	<2	1.32	.01	.09	<2	<.2	24	<.3	<.2	5.6	<1
56471	1.2	7.0	12.3	189.5	93	10	8	496	3.43	3.3	<5	<1	21	.23	.5	<.1	87	.29	.062	6	19	.27	170	.20	<2	1.31	.01	.05	<2	<.2	27	<.3	<.2	7.5	1
56472	1.1	7.0	6.6	104.2	<30	9	9	474	3.15	2.5	<5	1	18	.11	.4	<.1	87	.30	.044	7	22	.31	336	.14	2	1.20	.01	.05	<2	<.2	20	<.3	<.2	5.5	<1
56473	1.0	11.4	7.0	85.2	112	11	8	384	3.17	4.1	9	1	27	.11	.2	<.1	81	.41	.046	9	18	.32	225	.20	2	1.27	.01	.07	<2	<.2	46	<.3	<.2	5.1	3
56474	.9	8.4	11.9	85.5	37	13	8	306	3.26	3.6	9	1	24	.11	.5	.2	91	.35	.046	9	23	.33	193	.29	<2	1.23	.02	.05	<2	<.2	16	<.3	<.2	7.4	1
56475	.9	7.5	7.8	61.5	40	11	7	451	3.11	4.9	7	1	22	.10	.3	<.1	82	.31	.048	7	23	.27	111	.25	2	1.15	.02	.06	<2	<.2	15	<.3	<.2	5.5	9
56476	.8	8.4	6.4	75.2	30	12	8	655	3.04	3.2	8	1	24	.07	.3	<.1	75	.33	.088	9	20	.27	153	.22	5	1.35	.01	.06	<2	<.2	24	<.3	<.2	5.6	1
56477	1.0	9.4	9.0	72.7	43	16	9	470	3.62	5.1	13	1	25	.11	.5	<.1	95	.34	.059	10	23	.33	125	.29	2	1.28	.02	.07	2	<.2	17	<.3	<.2	6.3	1
56478	1.1	6.8	11.2	79.5	197	10	8	488	3.27	4.9	<5	1	21	.24	.5	<.1	83	.25	.120	7	22	.18	84	.26	<2	1.05	.01	.04	<2	<.2	23	<.3	.2	7.6	11
56479	1.4	8.9	11.1	75.8	192	14	9	608	3.58	8.2	5	1	19	.13	.6	<.1	91	.27	.134	7	25	.30	105	.25	<2	1.48	.02	.04	<2	<.2	23	<.3	.2	7.4	3
56480	1.3	7.5	14.7	76.0	172	9	6	369	3.03	4.7	<5	1	13	.29	.3	.1	80	.18	.066	6	23	.16	50	.29	<2	.82	.01	.04	<2	<.2	21	<.3	<.2	7.1	12
56481	.9	8.6	7.3	61.1	59	18	9	295	3.30	9.7	7	1	28	.11	.4	<.1	81	.42	.143	7	25	.33	76	.23	<2	1.29	.02	.05	<2	<.2	19	<.3	<.2	5.5	3
56482	1.1	8.0	9.4	84.1	83	15	10	652	3.52	7.4	<5	1	19	.15	.2	<.1	92	.28	.099	7	25	.32	98	.24	<2	1.16	.02	.04	<2	<.2	24	<.3	<.2	5.9	9
56483	1.0	8.9	8.1	73.0	95	16	9	315	3.29	8.4	<5	1	25	.20	.2	<.1	80	.34	.190	8	20	.29	70	.24	<2	1.46	.02	.04	<2	<.2	14	<.3	<.2	6.0	2
56484	1.3	8.6	11.0	223.5	196	12	11	1139	4.09	4.6	<5	1	26	.33	.4	.1	94	.36	.206	9	23	.32	109	.22	3	1.67	.01	.05	<2	<.2	40	<.3	<.2	10.0	3
56485	1.5	10.6	43.1	227.5	1601	12	9	2881	3.70	5.4	<5	<1	25	.81	.6	<.1	83	.30	.090	9	22	.26	184	.20	2	1.42	.01	.06	<2	<.2	44	<.3	<.2	7.2	25
56486	1.2	10.0	16.3	290.8	364	14	11	1122	3.64	6.0	<5	1	28	.50	.3	<.1	79	.34	.210	9	26	.36	279	.20	<2	1.84	.01	.07	<2	<.2	29	<.3	<.2	8.5	3
56487	.9	6.6	6.7	44.3	127	5	5	331	2.22	2.4	<5	1	17	.10	.3	.1	58	.21	.029	7	12	.13	116	.08	2	.69	.01	.08	<2	<.2	<10	<.3	<.2	2.5	2
56488	1.4	7.5	10.5	146.2	88	12	8	422	3.36	2.7	<5	1	17	.37	<.2	<.1	89	.26	.085	7	28	.27	203	.30	4	1.32	.01	.05	<2	<.2	40	<.3	<.2	10.3	1
STANDARD	25.1	114.6	104.2	278.3	1888	33	17	1095	4.38	74.1	22	16	58	2.33	9.4	20.0	74	.79	.097	17	58	1.29	256	.14	28	2.27	.08	.75	18	2.3	471	.7	1.9	6.4	53

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: SOIL AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 28 1996 **DATE REPORT MAILED:** July 18/96 **SIGNED BY.....** C. Leong .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
56489	.8	10.1	8.6	155.5	109	11	8	842	2.72	2.4	6	1	23	.49	.2	.1	68	.58	.083	8	30	.19	330	.20	4	1.26	.01	.10	<2	<.2	<10	<.3	<.2	5.5	<1
56490	1.1	14.9	5.6	59.6	235	7	8	460	3.43	3.1	<5	<1	13	.17	.7	.1	82	.24	.036	6	19	.19	135	.06	<2	.98	.01	.08	<2	<.2	26	<.3	<.2	4.8	7
56491	1.3	8.9	7.3	71.0	107	8	8	406	3.44	1.8	<5	<1	18	.09	.3	.1	100	.24	.018	5	27	.22	64	.28	<2	.96	.01	.05	<2	<.2	<10	<.3	<.2	6.9	2
56492	1.5	10.3	8.6	83.5	113	13	11	640	3.73	2.0	<5	<1	36	.27	<.2	.1	91	.41	.058	7	30	.39	161	.33	<2	1.09	.02	.07	<2	<.2	58	<.3	<.2	7.6	1
56493	1.7	7.3	8.2	41.6	42	7	6	318	2.76	3.7	<5	1	15	.13	.6	.1	76	.23	.025	5	23	.28	50	.17	2	.93	.01	.04	<2	<.2	40	<.3	<.2	7.6	3
56494	.9	16.9	8.7	94.2	341	14	9	543	3.31	5.6	<5	1	21	.12	<.2	<.1	83	.40	.218	7	27	.40	82	.20	<2	2.05	.01	.05	<2	<.2	49	<.3	<.2	9.2	2
56495	.8	6.6	8.6	86.6	<30	4	6	374	5.42	9.8	<5	2	20	.08	1.2	<.1	74	.16	.034	6	14	.08	158	.06	<2	.88	<.01	.10	<2	<.2	22	<.3	.2	4.6	2
56496	.6	12.6	5.3	56.3	36	11	8	446	3.30	3.6	<5	1	24	.12	.3	.1	78	.37	.080	15	21	.29	170	.20	<2	.96	.02	.08	<2	<.2	29	<.3	.2	4.9	2
56497	.8	10.1	6.8	83.4	52	10	8	501	3.12	1.2	<5	<1	21	.09	.2	<.1	73	.32	.055	8	27	.48	359	.16	<2	1.59	.01	.09	<2	<.2	25	<.3	<.2	7.3	1
RE 56497	.8	10.6	7.1	85.2	42	10	8	509	3.15	1.4	<5	1	22	.09	.2	.1	75	.32	.056	8	28	.48	357	.17	4	1.61	.01	.09	<2	<.2	44	<.3	<.2	7.4	3
56498	1.0	10.3	8.1	103.2	48	12	7	374	3.14	1.3	<5	2	18	.08	.2	.1	77	.29	.091	8	31	.31	318	.23	3	1.49	.01	.07	<2	<.2	34	<.3	<.2	6.4	5
56499	.8	9.3	7.2	62.7	<30	11	7	310	3.03	2.6	<5	1	20	.07	.2	<.1	76	.30	.098	8	25	.23	214	.27	<2	1.39	.01	.05	<2	<.2	<10	<.3	<.2	6.4	4
56500	.7	9.6	6.4	44.9	<30	12	8	251	3.00	3.0	<5	1	23	.05	.2	.1	75	.28	.063	9	24	.21	80	.24	<2	1.34	.01	.05	<2	<.2	<10	<.3	<.2	5.8	1
56629	1.1	14.1	9.3	82.9	69	19	11	461	3.77	7.6	5	2	25	.10	.4	.1	86	.29	.100	10	28	.35	139	.25	2	2.22	.01	.05	<2	<.2	18	<.3	.2	9.2	7
56630	1.4	8.6	7.9	82.2	54	18	10	336	3.76	3.2	<5	1	21	.07	.3	.1	90	.27	.071	6	38	.36	158	.32	2	1.93	.01	.06	<2	<.2	14	<.3	.2	9.9	<1
56631	1.0	5.3	7.5	101.3	<30	9	7	1025	2.56	1.2	<5	1	19	.11	.2	.1	65	.23	.089	6	20	.16	148	.20	<2	1.24	.01	.04	<2	<.2	17	<.3	<.2	6.4	1
56632	1.1	5.7	8.4	86.1	30	12	8	474	3.09	2.2	<5	1	18	.08	.2	<.1	82	.23	.082	7	27	.20	92	.27	<2	1.38	.01	.05	<2	<.2	24	<.3	<.2	6.8	<1
56633	1.1	7.7	9.7	130.2	40	16	10	835	3.26	2.6	<5	1	27	.17	.2	.1	79	.35	.088	8	23	.32	172	.23	2	1.60	.01	.08	<2	<.2	34	<.3	.2	7.3	1
56634	1.3	12.9	12.6	170.2	94	16	14	689	4.15	9.6	<5	1	20	.29	.5	<.1	94	.32	.253	11	26	.38	131	.20	<2	2.24	.01	.05	<2	<.2	56	<.3	.2	9.0	1
56635	.9	10.1	8.3	86.7	75	15	11	574	3.34	6.4	<5	1	18	.14	.2	<.1	79	.29	.154	8	25	.34	76	.22	<2	1.75	.01	.05	<2	<.2	24	<.3	<.2	6.9	<1
56636	1.2	11.8	9.4	153.3	102	17	13	1225	3.73	5.7	<5	1	26	.18	<.2	<.1	88	.32	.148	9	31	.35	290	.21	2	2.07	.01	.06	<2	<.2	22	<.3	<.2	7.5	7
56637	1.0	6.0	7.2	124.8	42	13	9	806	3.04	3.0	<5	1	15	.15	<.2	<.1	77	.21	.117	7	26	.21	99	.21	<2	1.48	.01	.04	<2	<.2	58	<.3	<.2	5.7	2
56638	.9	8.7	9.0	72.3	93	13	8	430	2.85	3.0	<5	1	17	.10	.3	<.1	69	.23	.112	7	22	.25	101	.20	3	1.55	.01	.04	<2	<.2	15	<.3	<.2	7.1	2
56639	.8	6.5	7.6	97.4	34	8	7	534	2.95	2.1	<5	1	20	.15	.3	<.1	67	.39	.094	7	17	.25	184	.17	<2	1.19	.01	.07	<2	<.2	13	<.3	<.2	6.3	6
56640	.8	6.7	6.8	79.1	104	12	8	305	3.18	4.5	<5	1	16	.10	.3	<.1	72	.24	.190	7	20	.25	103	.19	<2	1.75	.01	.05	<2	<.2	45	<.3	<.2	6.6	7
56641	.9	7.5	7.8	56.2	<30	11	7	318	3.07	3.7	<5	1	21	.06	.2	<.1	75	.30	.126	7	23	.21	123	.22	<2	1.52	.01	.04	<2	<.2	19	<.3	<.2	6.5	7
56642	.8	10.8	8.1	129.6	78	15	7	321	2.95	3.7	5	2	20	.17	<.2	<.1	60	.27	.155	9	22	.26	108	.23	2	1.82	.01	.05	<2	<.2	19	<.3	<.2	7.1	<1
56643	1.0	8.4	7.7	77.7	60	14	10	833	3.25	5.4	<5	1	17	.13	.2	<.1	78	.23	.226	7	23	.27	124	.21	<2	1.51	.01	.04	<2	<.2	22	<.3	<.2	6.6	15
56644	1.1	8.4	7.3	67.5	<30	17	10	359	3.91	6.5	<5	<1	18	.09	.2	.1	104	.25	.102	6	31	.26	102	.32	<2	1.60	.01	.03	<2	<.2	<10	<.3	<.2	7.0	1
56645	.8	7.4	7.4	75.1	71	11	8	339	3.14	5.6	<5	1	21	.14	.3	<.1	72	.34	.136	7	20	.27	77	.21	<2	1.39	.01	.04	<2	<.2	32	<.3	.2	7.2	1
56646	1.4	9.4	8.4	87.0	33	15	11	865	3.69	4.7	<5	1	25	.11	.2	<.1	97	.31	.073	9	27	.33	160	.22	<2	1.49	.01	.04	<2	<.2	27	<.3	<.2	7.0	<1
56647	1.0	7.8	7.4	50.4	54	13	8	279	3.15	3.8	<5	1	24	.09	.2	<.1	75	.33	.081	7	20	.29	95	.21	<2	1.36	.01	.07	<2	<.2	29	<.3	<.2	5.9	6
56648	1.1	8.6	6.4	77.6	76	12	8	887	3.12	2.4	<5	1	26	.12	.5	<.1	68	.30	.055	17	20	.23	120	.29	<2	1.25	.01	.08	<2	<.2	<10	<.3	.2	6.2	3
56649	1.1	8.1	7.4	132.6	52	12	9	921	3.22	2.7	<5	1	23	.15	<.2	<.1	64	.33	.166	12	19	.26	168	.21	<2	1.53	.01	.09	<2	<.2	39	<.3	<.2	6.8	1
STANDARD	26.2	120.0	97.7	239.9	1816	34	17	1105	4.41	73.7	22	17	52	2.15	9.3	19.5	75	.79	.097	18	62	1.16	275	.13	29	2.51	.07	.71	19	1.9	467	.6	1.7	7.1	53

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
56650	.9	6.6	8.9	113.7	58	13	8	716	3.33	3.4	<5	2	13	.17	<.2	<.1	79	.18	.121	8	20	.23	63	.27	2	1.66	.01	.04	<2	<.2	51	<.3	<.2	7.6	6
56651	1.0	4.9	9.2	115.9	42	9	8	817	2.90	1.4	<5	1	13	.14	<.2	.1	59	.17	.130	7	15	.15	107	.21	<2	1.44	.01	.04	<2	<.2	54	<.3	<.2	7.6	1
56652	.8	5.1	8.7	99.7	37	11	6	624	2.51	1.2	<5	1	21	.13	<.2	<.1	53	.27	.148	8	19	.19	129	.22	<2	1.39	.01	.05	<2	<.2	22	<.3	<.2	6.1	4
56653	.8	6.5	8.3	107.1	83	12	8	743	3.04	2.6	<5	1	19	.14	.2	<.1	70	.28	.137	7	19	.23	136	.22	<2	1.70	.01	.12	<2	<.2	13	<.3	.2	7.3	4
56654	.9	6.6	8.8	105.8	62	8	6	411	2.67	2.4	5	1	19	.20	.3	<.1	57	.23	.094	8	14	.19	141	.17	<2	1.12	.01	.07	<2	<.2	16	<.3	.2	6.8	1
56655	.8	7.5	7.5	88.1	243	11	7	270	2.98	2.8	<5	1	34	.14	<.2	<.1	70	.43	.107	7	15	.21	66	.20	<2	1.42	.01	.05	<2	<.2	28	<.3	<.2	7.0	<1
56656	1.0	8.4	8.1	99.0	200	12	11	617	3.53	3.2	<5	1	42	.23	<.2	<.1	86	.36	.118	8	21	.26	124	.22	<2	1.41	.01	.04	<2	<.2	55	<.3	<.2	7.2	<1
56657	.9	6.9	7.4	181.5	108	9	8	930	2.60	1.4	<5	1	23	.17	<.2	<.1	56	.38	.135	10	22	.16	343	.18	3	1.17	.01	.06	<2	<.2	38	<.3	<.2	5.3	4
56658	.8	7.1	7.6	133.8	87	11	7	276	2.60	1.8	8	2	17	.14	.2	<.1	57	.24	.158	7	15	.17	147	.20	5	1.40	.01	.05	<2	<.2	32	<.3	<.2	6.5	2
56659	.9	6.9	8.5	120.2	91	12	8	949	3.05	2.6	<5	1	28	.25	.2	.1	72	.34	.147	7	21	.21	135	.22	<2	1.44	.01	.05	<2	<.2	23	<.3	<.2	7.3	<1
56660	.8	5.9	6.1	73.6	57	10	7	631	2.95	2.3	<5	1	22	.16	<.2	<.1	73	.26	.144	6	20	.18	84	.23	<2	1.18	.01	.04	<2	<.2	25	<.3	<.2	6.1	2
56661	.8	5.7	7.3	106.6	36	11	8	558	2.95	1.8	<5	2	16	.12	<.2	.1	72	.19	.137	7	17	.17	85	.22	3	1.25	.01	.04	<2	<.2	90	<.3	<.2	6.1	1
56662	.7	10.9	7.1	74.7	<30	15	9	468	3.36	3.4	7	2	21	.09	.2	<.1	80	.23	.114	8	22	.25	121	.24	4	1.94	.01	.04	<2	<.2	25	<.3	.2	6.8	1
RE 56662	.7	10.7	7.1	72.0	<30	15	9	448	3.22	3.4	<5	2	21	.09	.2	<.1	76	.24	.107	8	20	.24	116	.24	3	1.87	.01	.04	<2	<.2	<10	<.3	<.2	6.9	2
56663	.7	6.1	6.2	80.2	<30	10	6	212	2.42	2.0	<5	<1	23	.08	<.2	<.1	54	.30	.079	7	15	.21	79	.22	<2	1.38	.02	.03	<2	<.2	<10	<.3	<.2	5.7	3
56664	1.0	18.6	9.0	82.4	95	18	11	1315	4.35	4.0	<5	<1	68	.14	<.2	<.1	78	.74	.093	19	18	.41	198	.1	<2	3.08	.02	.12	<2	<.2	47	.3	<.2	10.0	1
56665	.7	8.4	7.4	116.1	51	17	10	387	3.36	3.2	<5	1	25	.11	.2	<.1	77	.29	.128	7	20	.30	130	.20	<2	1.97	.01	.07	<2	<.2	17	<.3	.2	7.4	1
56666	1.2	6.6	8.1	82.1	56	11	8	467	3.04	2.8	<5	1	24	.16	.3	.1	67	.26	.251	8	22	.20	125	.20	3	1.48	.01	.05	<2	<.2	15	<.3	.2	7.1	<1
56667	.7	8.9	7.1	79.2	30	12	8	326	3.20	2.0	7	2	33	.10	<.2	.1	72	.34	.131	9	22	.22	105	.21	4	1.60	.02	.05	<2	<.2	<10	<.3	<.2	6.2	3
56668	.8	12.3	8.7	55.7	332	11	9	693	3.54	2.8	<5	2	51	.17	.5	.2	69	.64	.018	10	21	.36	100	.25	<2	1.54	.03	.07	<2	<.2	40	.3	<.2	6.3	4
56669	1.4	6.8	9.4	68.9	30	10	8	268	3.17	3.6	<5	1	40	.10	.2	.1	68	.46	.178	7	19	.27	123	.18	<2	1.63	.01	.05	<2	<.2	25	<.3	<.2	7.7	<1
56670	.5	12.3	8.0	49.5	179	9	7	782	3.31	1.6	11	2	89	.32	.2	.1	56	1.45	.013	11	29	.55	404	.21	3	1.63	.03	.05	<2	<.2	13	<.3	<.2	6.5	1
56671	.5	13.7	7.5	68.8	279	8	7	755	3.12	1.8	9	2	74	.27	.5	<.1	57	1.02	.015	15	29	.47	360	.21	5	1.57	.03	.06	<2	<.2	50	<.3	.3	6.1	<1
56672	.6	6.4	5.6	60.9	46	9	6	314	2.78	2.6	<5	1	29	.09	.2	.1	68	.34	.045	7	19	.22	87	.21	<2	1.15	.02	.05	<2	<.2	46	<.3	<.2	4.9	<1
56673	.7	5.3	6.9	68.6	80	8	6	598	2.50	1.8	8	1	28	.12	<.2	.1	60	.34	.043	9	17	.20	111	.20	4	1.24	.02	.04	<2	<.2	36	<.3	<.2	5.5	1
56674	.5	8.1	7.6	95.0	138	9	8	812	3.52	2.4	<5	2	57	.26	<.2	.1	69	.97	.014	11	33	.46	486	.24	3	1.83	.02	.05	<2	<.2	54	<.3	<.2	6.8	<1
56675	.6	7.6	7.5	92.9	62	11	7	508	2.91	2.1	10	2	28	.13	.2	.1	68	.36	.059	9	22	.24	110	.20	4	1.48	.01	.05	<2	<.2	50	<.3	<.2	6.1	1
56676	.5	7.0	6.4	104.3	33	10	6	282	2.66	1.9	5	1	28	.10	.2	.1	61	.36	.066	8	19	.23	159	.20	<2	1.55	.02	.05	<2	<.2	36	<.3	<.2	5.7	1
56677	.6	6.0	6.5	72.2	42	10	7	361	2.93	2.4	5	1	23	.07	.4	.1	71	.35	.037	6	28	.26	322	.20	<2	1.61	.02	.05	<2	<.2	55	<.3	<.2	6.4	<1
56678	.7	5.9	6.9	46.8	30	8	6	244	3.05	2.5	6	1	23	.05	.4	.1	79	.38	.017	6	27	.23	303	.21	3	1.30	.02	.04	<2	<.2	42	<.3	<.2	6.0	<1
56679	.8	7.9	6.5	67.5	<30	8	7	310	3.13	4.0	<5	1	19	.09	.3	.1	83	.27	.028	6	16	.21	213	.19	<2	1.14	.01	.04	<2	<.2	13	<.3	<.2	4.8	6
56680	.9	6.3	6.1	93.6	<30	9	8	446	3.28	2.0	<5	<1	17	.16	.3	.1	90	.24	.024	5	22	.23	180	.22	<2	.95	.01	.04	<2	<.2	13	<.3	<.2	5.7	<1
56681	.8	6.2	6.2	106.2	65	10	8	341	3.13	2.8	<5	1	16	.12	.2	.1	78	.21	.141	6	23	.18	125	.19	<2	1.31	.01	.04	<2	<.2	17	<.3	<.2	6.5	1
56682	1.1	3.6	9.0	79.2	44	5	7	324	4.81	12.0	<5	1	13	.25	1.2	.1	156	.17	.041	4	10	.03	182	.03	4	.59	<.01	.05	<2	<.2	16	<.3	<.2	3.7	1
STANDARD	24.6	119.4	111.1	248.0	1844	34	17	1094	4.38	71.9	23	17	59	2.29	9.5	21.3	75	.79	.097	17	61	1.15	269	.13	26	2.47	.07	.73	21	2.2	462	.5	2.2	7.2	54

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
56683	2.1	11.7	6.8	75.1	51	7	7	318	3.74	9.1	<5	1	10	.10	2.1	.1	122	.12	.031	4	19	.14	90	.07	2	.97	.01	.12	<2	.4	27	<.3	.3	11.0	1
56684	1.2	8.7	9.9	135.3	99	8	10	570	3.20	3.9	<5	2	19	.28	.6	.1	91	.23	.103	6	21	.22	169	.19	2	1.27	.01	.05	<2	<.2	37	<.3	.2	8.5	6
56685	1.1	8.4	7.7	106.9	52	8	7	371	3.28	2.7	<5	1	15	.17	.5	<.1	97	.19	.035	6	18	.24	159	.20	<2	1.09	.01	.04	<2	.2	30	<.3	<.2	6.8	1
56686	.8	13.6	5.7	63.3	42	12	8	290	2.95	4.1	<5	1	17	.08	.5	.1	82	.22	.069	6	16	.25	163	.21	<2	1.39	.02	.04	<2	.2	19	<.3	.2	6.1	2
56687	1.2	5.8	8.4	149.4	100	6	11	2065	2.62	1.8	<5	2	15	.29	.2	<.1	71	.18	.165	6	15	.10	213	.11	4	1.37	.01	.05	<2	<.2	27	<.3	<.2	7.0	<1
56688	1.1	8.5	6.6	86.0	52	15	11	374	3.55	5.5	<5	2	20	.10	.5	.1	86	.23	.153	6	19	.26	107	.21	<2	2.28	.02	.04	<2	<.2	23	<.3	.2	8.7	<1
56689	1.1	10.3	6.5	86.2	86	13	10	299	3.33	5.0	<5	1	19	.09	.5	<.1	88	.23	.130	7	21	.26	73	.24	<2	1.92	.02	.04	<2	.2	27	<.3	.2	7.4	<1
56690	.7	11.5	7.2	63.4	123	11	8	329	2.92	2.7	<5	<1	39	.14	.2	<.1	69	.44	.058	12	20	.27	79	.22	<2	1.73	.02	.06	<2	<.2	<10	<.3	<.2	6.2	1
56691	.9	7.0	6.2	101.1	<30	14	8	302	2.86	2.6	<5	1	17	.12	<.2	<.1	75	.20	.160	6	16	.23	72	.23	<2	1.66	.02	.08	<2	<.2	23	<.3	<.2	5.6	2
56692	1.1	5.6	6.6	86.6	<30	10	7	795	2.68	2.1	6	1	19	.08	<.2	<.1	73	.22	.094	6	19	.17	80	.23	<2	1.28	.02	.04	<2	<.2	22	<.3	<.2	6.2	3
56693	.9	8.7	6.9	90.8	80	14	9	392	3.37	3.9	<5	2	19	.09	.4	<.1	92	.25	.092	7	24	.23	68	.25	<2	1.59	.02	.05	<2	<.2	27	<.3	<.2	6.2	1
56694	1.0	6.5	6.1	65.9	67	12	8	246	2.90	3.9	<5	1	18	.07	.5	<.1	74	.21	.109	6	20	.20	58	.23	<2	1.79	.02	.03	<2	<.2	33	<.3	.2	5.7	1
56695	.9	7.2	7.8	88.2	83	9	8	556	2.83	2.5	<5	2	30	.12	.5	<.1	68	.30	.129	7	19	.25	143	.19	<2	1.47	.02	.08	<2	<.2	<10	<.3	<.2	6.1	2
56696	.9	6.0	6.5	56.3	87	7	5	281	2.55	2.2	<5	1	40	.13	.5	<.1	70	.35	.041	5	17	.23	93	.22	3	1.05	.02	.08	<2	<.2	42	<.3	<.2	5.1	1
RE 56696	1.0	6.3	6.7	59.3	100	8	6	292	2.66	2.1	<5	1	42	.14	.5	<.1	73	.37	.042	6	21	.24	98	.23	3	1.12	.02	.08	<2	<.2	27	<.3	<.2	5.2	2
56697	.8	7.4	7.7	68.7	83	7	6	519	2.58	1.3	5	1	46	.12	.3	<.1	64	.45	.061	8	19	.22	141	.21	2	1.32	.02	.08	<2	<.2	27	<.3	<.2	5.9	2
56698	.7	7.7	6.7	73.6	63	8	7	313	2.84	1.4	<5	1	27	.09	.2	<.1	61	.31	.044	8	19	.24	100	.21	<2	1.54	.02	.09	<2	<.2	<10	<.3	<.2	5.6	1
56699	.7	7.7	6.1	69.5	31	12	7	310	3.10	2.5	<5	2	29	.09	.2	<.1	81	.34	.073	10	22	.22	91	.24	2	1.54	.02	.07	<2	<.2	10	<.3	.2	5.8	4
56700	.6	5.7	6.0	44.4	43	7	6	262	2.60	1.6	11	2	35	.05	.5	<.1	67	.37	.033	6	23	.23	101	.22	4	1.08	.03	.06	<2	<.2	12	<.3	<.2	4.5	<1
56801	1.3	7.7	8.1	81.6	47	15	8	325	3.74	2.9	8	2	23	.10	.4	<.1	104	.29	.099	7	32	.23	143	.30	3	1.64	.02	.05	<2	.2	12	<.3	.3	8.1	6
56802	.8	7.4	6.9	82.6	60	13	8	383	3.08	2.6	<5	1	32	.08	.3	<.1	76	.40	.128	7	23	.23	180	.23	<2	1.49	.02	.07	<2	<.2	22	<.3	<.2	6.2	28
56803	.7	7.8	7.2	117.3	92	11	8	661	3.16	1.6	<5	1	29	.14	.4	<.1	74	.41	.092	7	25	.25	238	.24	<2	1.43	.02	.12	<2	<.2	28	<.3	<.2	5.8	1
56804	.7	33.5	7.3	57.4	148	11	10	705	3.41	7.5	9	2	62	.26	1.2	<.1	75	2.76	.079	14	26	.37	255	.22	<2	.93	.04	.11	<2	<.2	33	<.3	.2	3.9	3
56805	.6	6.5	5.9	63.2	60	6	6	483	3.13	2.8	<5	1	27	.09	.5	<.1	77	.44	.014	5	19	.24	234	.22	3	1.17	.02	.10	<2	<.2	<10	<.3	<.2	4.6	2
56806	.6	8.4	6.8	100.6	120	7	7	767	3.12	3.0	<5	1	30	.11	.9	.1	71	.42	.039	8	24	.23	331	.19	<2	1.24	.02	.13	<2	<.2	12	<.3	.2	5.0	3
56807	.8	6.3	6.0	177.7	61	10	8	822	2.78	1.8	<5	2	19	.16	.3	<.1	60	.29	.220	6	20	.30	208	.13	<2	1.62	.01	.06	<2	<.2	23	<.3	<.2	6.5	<1
56808	1.8	7.8	8.3	53.9	39	11	7	342	3.03	3.1	6	1	20	.06	.3	.1	80	.23	.044	6	22	.21	97	.30	2	1.44	.02	.06	<2	<.2	32	<.3	.2	7.0	1
56809	.7	9.2	7.1	115.2	<30	12	9	298	3.03	3.0	11	2	32	.10	.3	.1	72	.32	.114	8	26	.22	124	.25	2	1.70	.03	.05	<2	<.2	33	<.3	<.2	6.1	1
56810	.6	32.3	7.9	126.0	148	11	8	869	3.01	2.2	<5	1	96	.55	.2	<.1	65	1.04	.036	11	22	.45	194	.20	<2	1.80	.03	.08	<2	<.2	36	<.3	<.2	6.1	3
56811	.7	15.6	7.1	103.1	296	12	11	1494	3.97	3.3	<5	1	80	.36	.3	.1	79	.85	.048	11	29	.49	298	.22	5	1.85	.03	.11	<2	<.2	60	<.3	<.2	6.2	2
56812	.8	17.6	8.6	94.0	300	12	12	1646	3.98	3.8	<5	2	70	.28	.4	<.1	74	.72	.032	12	32	.44	180	.22	4	2.00	.04	.14	<2	<.2	44	<.3	.2	7.0	1
56813	.4	14.6	6.8	59.9	138	8	5	301	2.83	2.6	7	2	52	.11	.3	<.1	52	.66	.033	12	19	.38	102	.21	7	1.35	.04	.09	<2	<.2	27	<.3	<.2	5.2	1
56814	.6	10.8	7.9	75.6	230	8	7	759	2.82	2.4	<5	2	39	.15	.4	<.1	62	.44	.041	10	19	.27	111	.19	<2	1.39	.03	.10	<2	<.2	60	<.3	<.2	5.5	1
56815	.7	8.5	8.1	138.5	94	11	9	349	3.34	2.5	<5	2	41	.14	.3	<.1	74	.40	.289	8	20	.25	188	.19	<2	1.60	.02	.07	<2	<.2	77	<.3	<.2	6.3	<1
STANDARD	25.5	113.3	92.3	279.1	1767	34	17	1147	4.26	70.0	22	18	56	2.20	9.0	18.5	77	.81	.103	16	53	1.18	233	.13	30	2.51	.06	.79	14	2.1	469	.5	1.9	7.3	48

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

TAKEN PROPERTY CLAIM BOUNDARY

TAM 1

TAM 2

TAM 3

TAM PROPERTY CLAIM BOUNDARY

TAKEN 1

TOMMY SHOWING
TECK CORP.

TED SHOWING

ELCP TAKEN CLAIM

DDH 252-1
DDH 252-2
DDH 252-3
DDH 252-4
DDH 252-5
DDH 252-6
DDH 252-7
DDH 252-8
DDH 252-9

LEGEND

LATE CRETACEOUS

Di — Diorite, greenish grey, fine grained with abundant biotite phenocrysts

MIDDLE JURASSIC

HAZELTON GROUP

Ns — Sandstone, siltstone and minor conglomerate. Rock is tan to dark green with angular feldspar and lithic fragments

Nb — Basalt and minor andesite, locally abundant augite phenocrysts

Na — Andesitic flows and lapilli tuff, tuff and minor pyroclastic rocks

Nd — Dacite flows and tuff, locally quartz phyric light grey to white

Ng — Lapilli tuff, mottled maroon to green with quartz phenocrysts

Nr — Rhyolite, maroon to light green, flow banded locally quartz and/or feldspar phyric, minor lapilli tuff

SYMBOLS

- Geological contact (approximate)
- Fault (approximate)
- Outcrop
- Outcrop Area
- Shear (inclined, vertical)
- Float
- Joint (vertical)
- Layering (inclined)
- Quartz vein
- Lake / pond
- Creek
- Contour (contour interval 100ft)
- UTM coordinate
- Road
- DDH 252-5 1996 Diamond Drill Hole

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,710

GEOLOGY BY C. PAYNE, 1995,1996

0 100 200 300 400
SCALE IN METRES

To Accompany 1996 Assessment Report on the Tam and Taken Properties.

PHELPS DODGE CORP. OF CANADA LTD.

PROJECT NO.: 246,222(TAKEN, TAM PROPERTIES) OMINECA MINING DIVISION

PROPERTY GEOLOGY
DRILL PLAN

SCALE	DATE	BY	NTS NO.	FIGURE
1:5000	DEC/96	CWP	93F/2,3	4

FOX GEOLOGICAL SERVICES INC.

FOR CHIP SAMPLING RESULTS OF TED SHOWING SEE MAP INSET

Coarse qtz stockwork in rhyolite

Nr with qtz/carb stockwork

Massive quartz vein
Locally vein is calcareous
.5m thick calcite layer in Ted vein

DDH 3
DDH 4
DDH 5

Rhyolite with quartz stockworks

Nr

Nr with qtz/carb stockwork

Qtz/carb vein

DDH 6
DDH 7
DDH 9

Nr with qtz/carb stockwork

Surface trace of Ted vein

Nr

Qtz/carb vein

Nr

Overburden covered

Qtz/carb vein

Nr with qtz/carb stockwork

Nr with qtz/carb stockwork

Qtz/carb stockwork in rhyolite

Qtz/carb vein

Overburden covered

DDH 8

Overburden covered

2m subangular qtz/carb boulder

Overburden covered

Nr talus

Abundant angular quartz float

Nr

Nr talus

Qtz/carb float

Nr

Overburden covered

Nr talus

Qtz/carb float

Qtz/carb float

Qtz/carb float

Nr

Nr

MAP INSET
CHIP SAMPLING, TED VEIN

QTZ/CARB VEIN

QTZ/CARB VEIN

0 2 4 6
SCALE IN METRES

LEGEND

Nr — RHYOLITE:Pink to tan quartz+/− feldspar phyric rhyolite

Outcrop

Float

Sp12 (95)(999)(999) — Silver ppb / Gold ppb / Chip Sample Number

Chip Sample Interval 1m

NS – No Sample

Elevation Contour Interval 5m

DDH 96-8 1996 Diamond Drill Hole Location

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,710

0 15 30 45 60
SCALE IN METRES

To Accompany 1996 Assessment Report on the Tam and Taken Properties

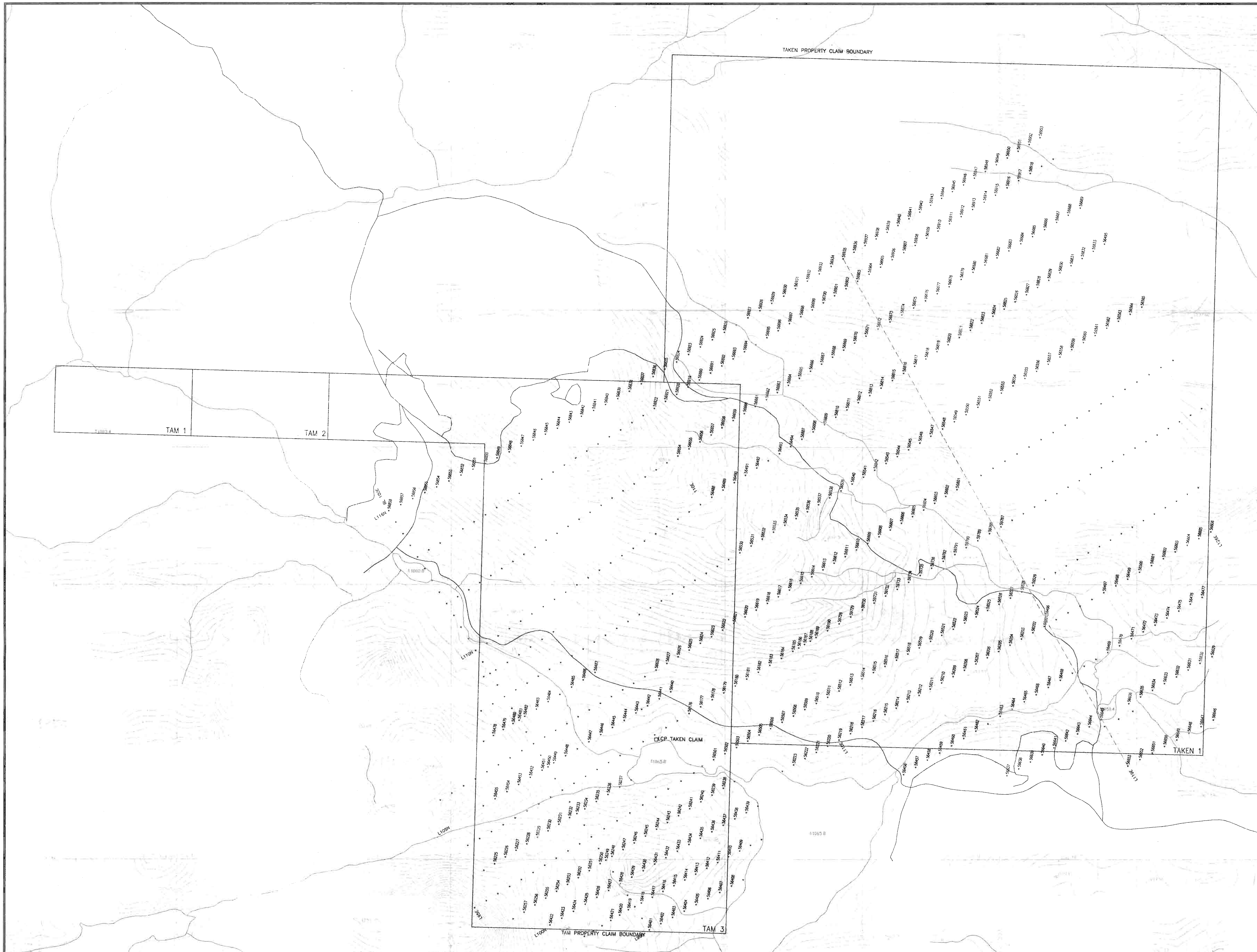
PHELPS DODGE CORP. OF CANADA LTD.

PROJECT NO.: 252(TAM PROPERTY) OMINECA MINING DIVISION

TED VEIN
DETAILED GEOLOGY
CHIP SAMPLING RESULTS

SCALE	DATE	BY	NTS NO.	FIGURE
1:1000	Dec/96	CWP	93F/2,3	5

FOX GEOLOGICAL SERVICES INC.



LEGEND

Soil Sample Number
Grid Line
Soil Sample Site

SYMBOLS

Trail
River
Stream
Contour (Contour interval 5m)
Depression
Intermittent Lake
Swamp or Marsh
Trees

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,710

0 100 200 300 400
SCALE IN METRES

To Accompany 1996 Assessment Report on the Tam and Taken Properties.

PHELPS DODGE CORP. OF CANADA LTD.

PROJECT NO.: 246,252(TAKEN, TAM PROPERTIES) OMINECA MINING DIVISION

1996 SOIL SAMPLE NUMBERS

SCALE	DATE	BY	NTS NO.	FIGURE
1:5000	DEC/96	CWP	93F/2,3	6

FOX GEOLOGICAL SERVICES INC.

TAKEN PROPERTY CLAIM BOUNDARY

TAM 1

TAM 2

TAM 3

TAM PROPERTY CLAIM BOUNDARY

E1CP TAKEN CLAIM

TAKEN 1

LEGEND

Gold value ppb

Grid line

Soil sample site

37 20 6 Gold Contours in ppb

SYMBOLS

Trail
River
Stream
Contour (contour interval 5m)
Depression
Intermittent Lake
Edge of Marsh
Trees

0 100 200 300 400
SCALE IN METRES

To accompany 1996 Assessment Report on the Tam and Taken Properties.

PHELPS DODGE CORP. OF CANADA LTD.

PROJECT NO.: 246,252(TAKEN, TAM PROPERTIES) OMINECA MINING DIVISION

SOIL GEOCHEMICAL RESULTS
GOLD ppb

SCALE	DATE	BY	NTS NO.	FIGURE
1:5000	NOV/96	CWP	93F/2,3	7

FOX GEOLOGICAL SERVICES INC.

TAKEN PROPERTY CLAIM BOUNDARY

TAM 1

TAM 2

TAM 3

TAM PROPERTY CLAIM BOUNDARY

CKCP TAKEN CLAIM

TAKEN 1

LEGEND

Gold value ppb

Grid line

Soil sample site

1500
450
250 Silver Contours ppb

SYMBOLS

Trail
River
Stream
Contour (contour interval 5m)
Depression
Intermittent Lake
Body of Water
Trees

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,710

0 100 200 300 400
SCALE IN METRES

To Accompany 1996 Assessment Report on the Tam and Taken Properties.

PHELPS DODGE CORP. OF CANADA LTD.

PROJECT NO.: 246,252(TAKEN, TAM PROPERTIES) OMINECA MINING DIVISION

SOIL GEOCHEMICAL RESULTS
SILVER ppb

SCALE	DATE	BY	NTS NO.	FIGURE
1:5000	DEC/96	CWP	93F/2,3	8

FOX GEOLOGICAL SERVICES INC.

TAKEN PROPERTY CLAIM BOUNDARY

TAM 1

TAM 2

TAM 3

TAM PROPERTY CLAIM BOUNDARY

TAKEN 1

CLCP TAKEN CLAIM

TOMMY SHOWING
TECK CORP.

LEGEND

LATE CRETACEOUS

Di — Diorite, greenish grey, fine grained with abundant biotite phenocrysts

MIDDLE JURASSIC

HAZELTON GROUP

Ns — Sandstone, siltstone and minor conglomerate Rock is tan to dark green with angular feldspar and lithic fragments

Nb — Basalt and minor andesite, locally abundant augite phenocrysts

Na — Andesitic flows and lapilli tuff, tuff and minor pyroclastic rocks

Nd — Dacite flows and tuff, locally quartz phyric light grey to white

Ng — Lapilli tuff, mottled maroon to green with quartz phenocrysts

Nr — Rhyolite, maroon to light green, flow banded locally quartz and/or feldspar phyric, minor lapilli tuff

SYMBOLS

- Geological contact (approximate)
- Fault (approximate)
- Outcrop
- Outcrop Area
- Shear (inclined, vertical)
- Float
- Joint (vertical)
- Layering (inclined)
- Quartz vein
- Lake / pond
- Creek
- Contour, (contour interval 100ft)
- 5837000 m N / 345000 m E — UTM coordinate
- Road

53112 (1:74) — Silver ppb / Gold ppb / Rock sample number

Float
Talus
Subcrop
Outcrop

- Trail
- River
- Stream
- Contour (Contour interval 5m)
- Depression
- Intermittent Lake
- Swamp or Marsh
- Trees

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,710

0 100 200 300 400
SCALE IN METRES

To Accompany 1996 Assessment Report on the Tam and Taken Properties.

PHELPS DODGE CORP. OF CANADA LTD.

PROJECT NO.: 246,252(TAKEN, TAM PROPERTIES) OMINECA MINING DIVISION

ROCK GEOCHEMICAL RESULTS
GOLD ppb, SILVER ppb

SCALE	DATE	BY	NTS NO.	FIGURE
1:5000	DEC/96	GWP	93F/2,3	9

FOX GEOLOGICAL SERVICES INC.

E+364800.00

E+364900.00

252-9

252-8

N+5876500.00

N+5876600.00

E+364600.00

E+364700.00

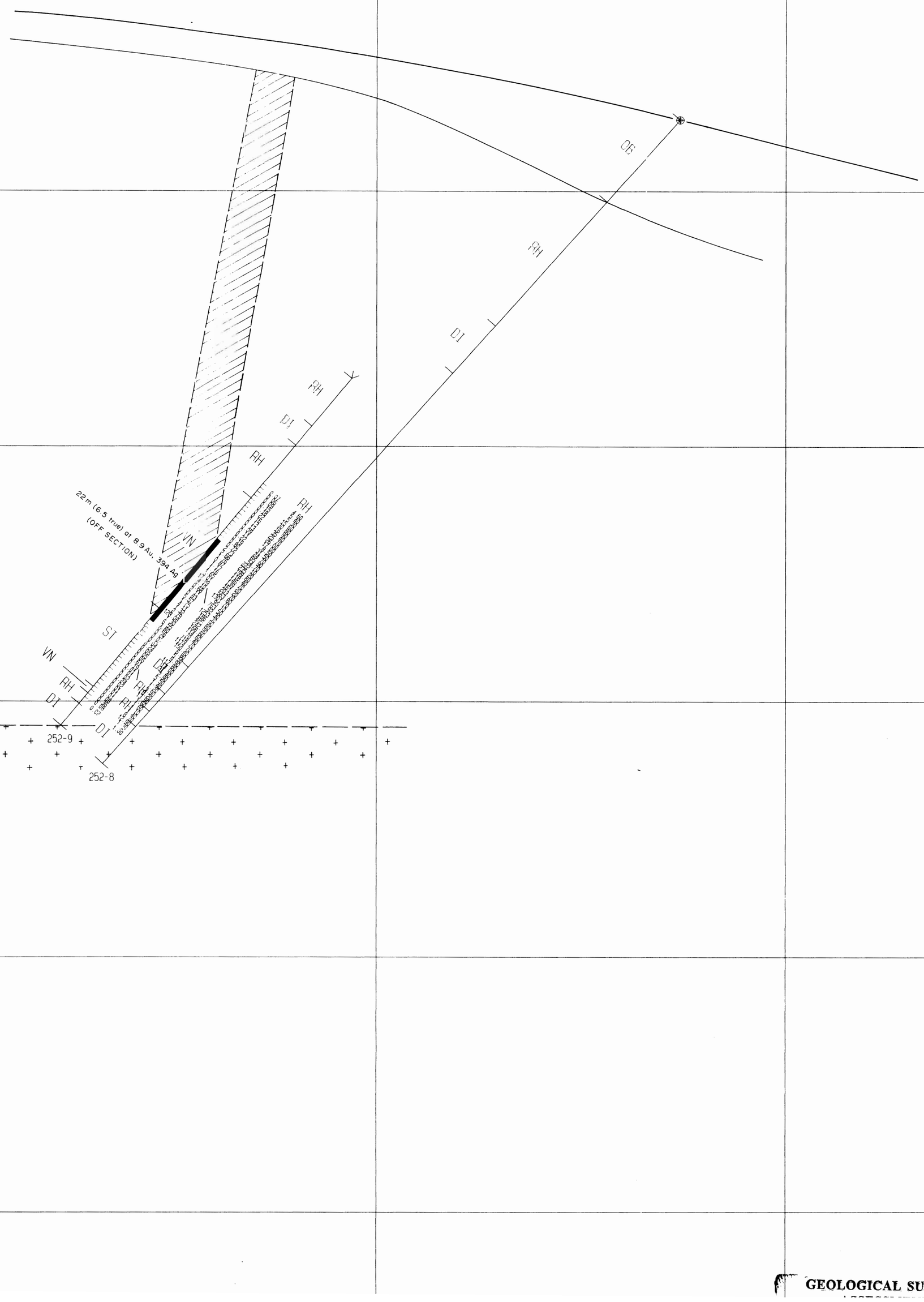
E+364800.00

E+364900.00

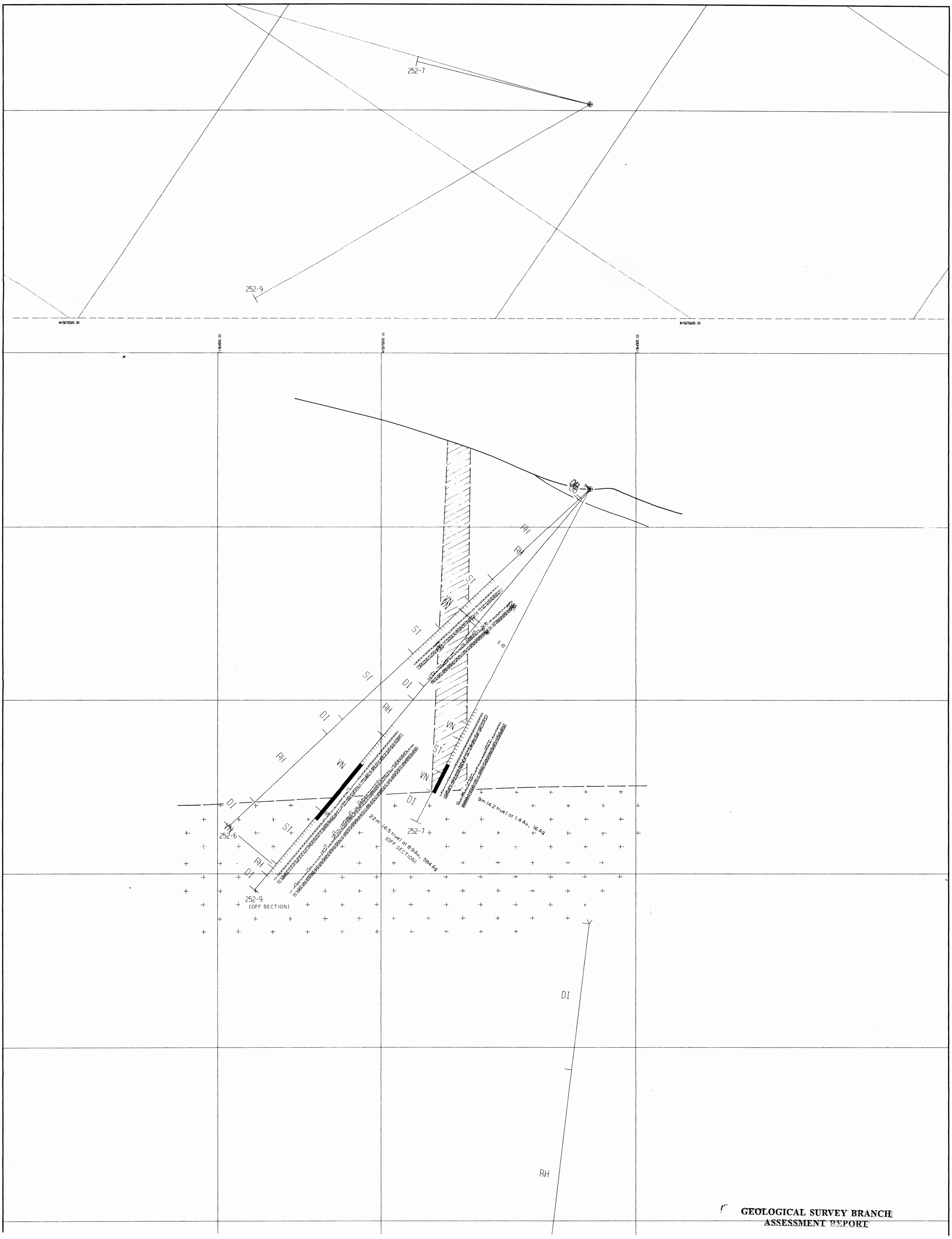
E+365000.00

N+5876500.00

N+5876600.00



GEOLOGICAL SURVEY BRANCH



E+364800.00

E+364900.00

252-3

252-4

252-5

N+5876600.00

N+5876700.00

N+5876600.00

E+364600.00

N+5876700.00

E+364600.00

Ted Vein

OB

OB

RH

VN

ST

VN

RH

DI

DI

DI

RH

RH

DI

252-4

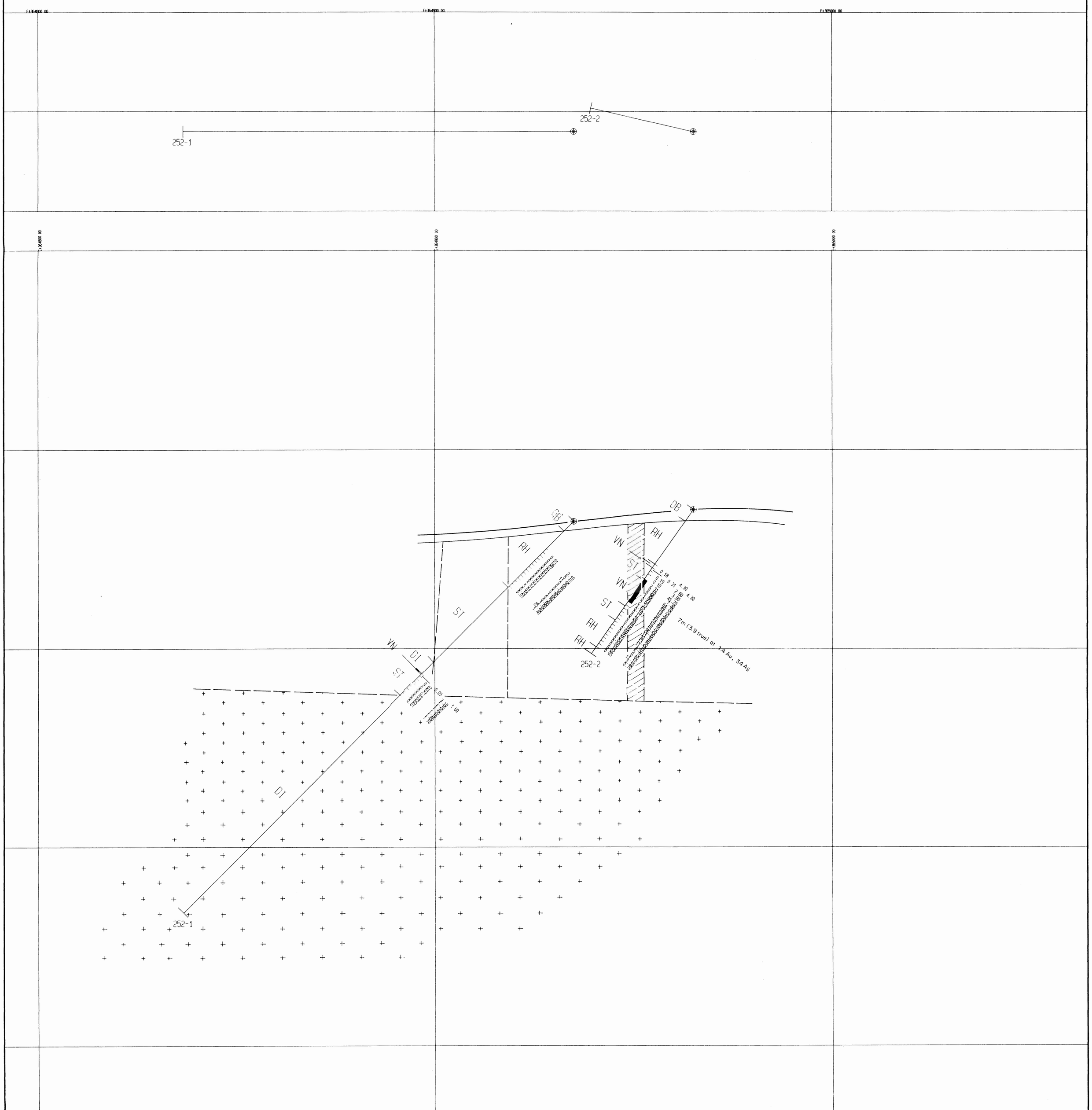
DI

252-3

DI

RH

252-5



GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

4 710