DIAMOND DRILLING REPORT ON THE WOODJAM PROPERTY

Cariboo Mining Division
British Columbia

NTS - 93 A/3, A/6 W
52° 16' North Latitude
125° 00' West Longitude

by

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Work Paid for by
Phelps Dodge Corporation of Canada, Limited

May 19, 2000

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SUMMARY

The Woodjam property, which includes the Megabuck zone, covers a gold-rich porphyry target that lies about seven kilometres south of the village of Horsefly and approximately 50 kilometres northeast of Williams Lake in the Cariboo Mining Division of British Columbia. Access is by paved highway to Horsefly, then by secondary logging roads and unimproved mining access trails to the principle areas of interest.

The claims are underlain by a complex succession of possible Triassic-Jurassic Takla Group volcanic and related sedimentary rocks, which have been intruded by the Jurassic, calc-alkaline Takomkane Batholith to the south and east. The property area includes the northern contact of the batholith and several monzonite to syenite plugs. The Megabuck zone is hosted by one of these monzonite intrusions.

The Megabuck showing was previously tested by 19 diamond drill holes (17 reached bedrock) for a combined length of 1670 metres. Mineralization at the Megabuck zone comprises disseminated chalcopyrite on fractures and in veinlets with quartz or magnetite within monzonite intrusions of possible sill-like character. A high gold zone (>~0.5 gpt gold) with dimensions of 200 metres by 150 metres is defined by six drill holes and two trenches. These trenches, excavated across the zone in 1986, obtained gold grades on the order of 1.1 g Au/T over lengths of up to 65.0 metres. Copper grades in the zone are low, rarely exceeding 0.20% over a single sample interval.

Work completed in 1999 consisted of the drilling of four diamond drill holes, totalling 766.9 metres between August 3 and August 19, 1999. The first hole, DDH 99-20, tested the vertical extent of the Megabuck zone and encountered a quartz-chalcopyrite stockwork and disseminated chalcopyrite in altered magnetite bearing igneous breccias over the entire length. This hole assayed from top to bottom 197.9 meters grading 0.10% Cu and 0.58 g Au/T including 79.6 meters from 2.4 meters to 82.0 meters grading 0.13% Cu and 0.85 g Au/T. Holes 99-21 and 99-22 situated 200 meters and 400 meters south of 99-20, tested magnetic anomalies similar to the Megabuck zone. Both holes intersected magnetite-bearing feldspar-rich intrusive and intrusive breccia and returned low values in gold and copper. Hole 99-23 was collared 900 meters southeast of 99-20 and was drilled to test a coincident magnetic and geochemical target also similar to the Megabuck zone. This hole intersected magnetite bearing maroon and green tuffaceous siltstone and returned low copper and gold values.

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INTRODUCTION

This report presents the results of a diamond drilling program completed on the Woodjam property, Cariboo Mining Division, British Columbia. Work was completed by Phelps Dodge Corporation of Canada, Limited between August 3 and August 19, 1999. The work program comprised four diamond drill holes, totaling 766.9 metres and tested magnetic high anomalies centered on the Megabuck showing and surrounding area.

LOCATION AND ACCESS

The Woodjam property is a gold-rich porphyry copper target that lies some 50 kilometres northeast of Williams Lake and seven kilometres south of the village of Horsefly in the Cariboo region of British Columbia. Access is by paved highway to Horsefly, then by seven kilometres of secondary logging roads and tertiary logging trails to the principle areas of interest (Figure 1). The area is flat with extensive overburden and is partially vegetated by first and second growth mature pine forests that have been selectively thinned. Portions of the property have been clear-cut logged.

CLAIMS

Eight claim blocks totalling 142 units (3550 hectares) comprise the Woodjam property and are currently held by Phelps Dodge Corporation of Canada, Limited under option from Wildrose Resources Ltd. Subsequent to the 1999 work program these claims will have work recorded to either February 19, 2003 or 2004. A summary of the claim status for the Woodjam property is listed in Table I and depicted in Figure 2. Expiry dates assume that work described in this report is accepted for assessment purposes.

Table I - Claim Status

Claim Name	Tenure #	Units	Date Recorded	Expiry Date
Woodjam 5	367190	20	11/23/1998	09/19/2003
Woodjam 6	367883	20	02/17/1999	09/19/2003
Woodjam 7	364884	20	02/17/1999	09/19/2003
Woodjam 8	367885	18	02/17/1999	09/19/2003
Woodjam 9	367886	20	02/18/1999	09/19/2003
Woodjam 10	367887	20	02/18/1999	09/19/2004
Woodjam 11	367888	20	02/19/1999	09/19/2003
Woodjam 12	367889	4	02/18/1999	09/19/2003

HISTORY

The Woodjam property covers two mineral showings, the Megabuck prospect, which is the main focus of this work program and the Takom zone. Exploration began in the area of the present Woodjam property in 1966. The claims have been explored by Helicon Exploration and Magnum Consolidated Mining (1966-67), Exploram Minerals (1973-77), Placer Development (1983-4) and Archer Cathro and Associates for Rockridge Mining (1984). Noranda held the property briefly in 1992 and flew an airborne survey over the main showings. Prior to this program 19 diamond drill holes (17 reached bedrock) totalling 1670 metres have tested the Megabuck mineralized zone. The zone is open at depth, to the northeast and to the northwest from the current drill pattern. Shallow (~ 60 metres) bounding holes to the south and east are characterized by intense pervasive phyllic alteration.

Work completed is tabulated below:

1966 to 1967	Unknown.
1973 to 1974	Diamond drilling - two holes at the Megabuck showing, three holes at the Takom showing, IP, magnetometer, soil geochemistry.
1983 to1984	drilling, VLF, soil geochemistry, seismic, magnetometer surveys.
1992	Airborne magnetometer, EM, radiometrics.

REGIONAL GEOLOGY

The claims are underlain by a succession of possible Triassic-Jurassic Takla Group volcanic and related sedimentary rocks, which have been intruded by the Jurassic, calc-alkaline Takomkane Batholith to the south. The target area includes the northern contact of the batholith, several monzonite to syenite plugs of unknown affinity and two granodiorite plugs possibly related to the Takomkane Batholith.

The Takomkane Batholith consists of multiple phases of early Jurassic granodiorite. It comprises one of a series of at least six large coeval bodies extending from the vicinity of Williams Lake just northwest of the Woodjam property and south to the international border. This suite includes the Guichon Batholith, that hosts the large Highland Valley deposits, and the Granite Mountain Batholith that hosts the Gibraltar deposit.

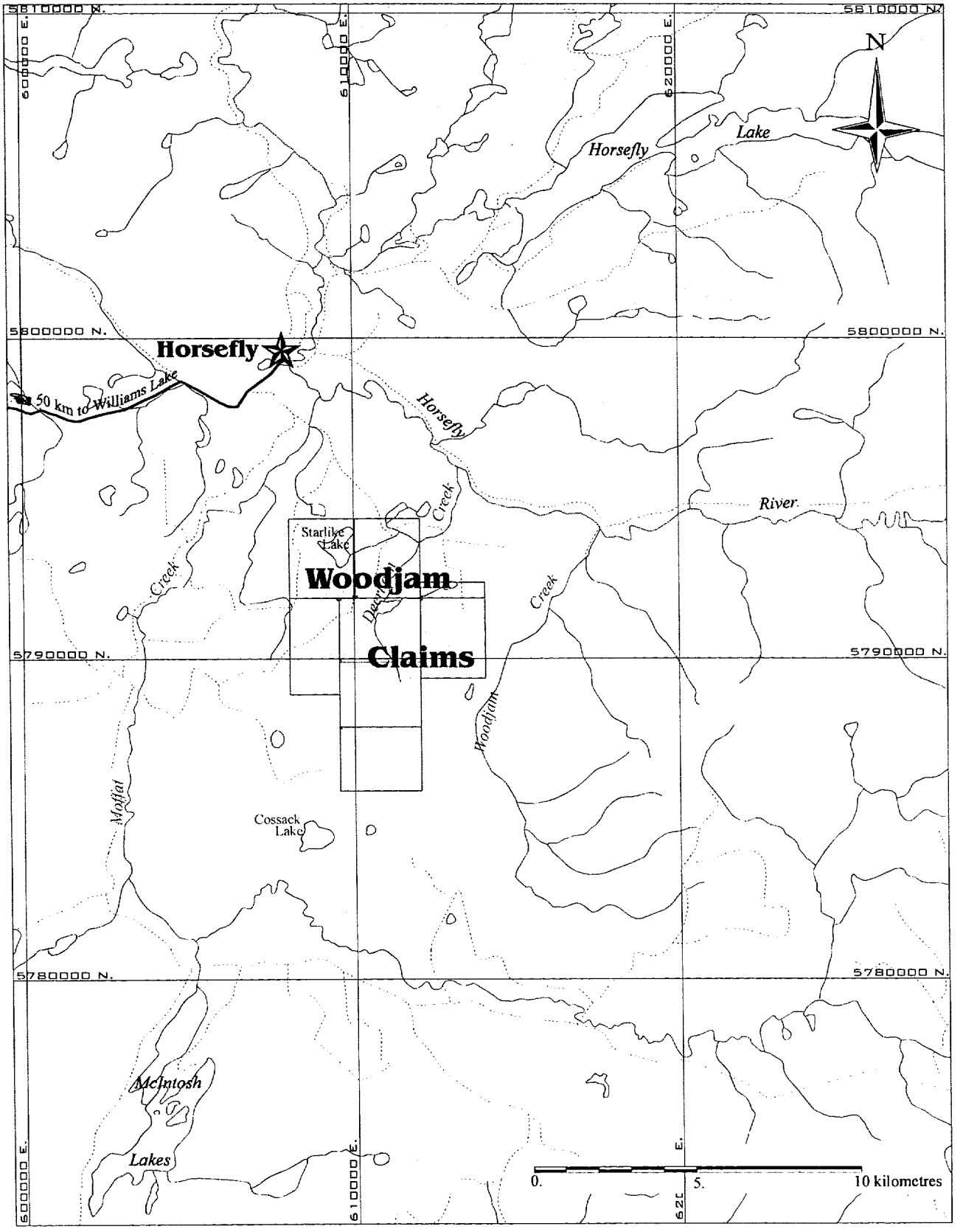


Figure 1: Location and access

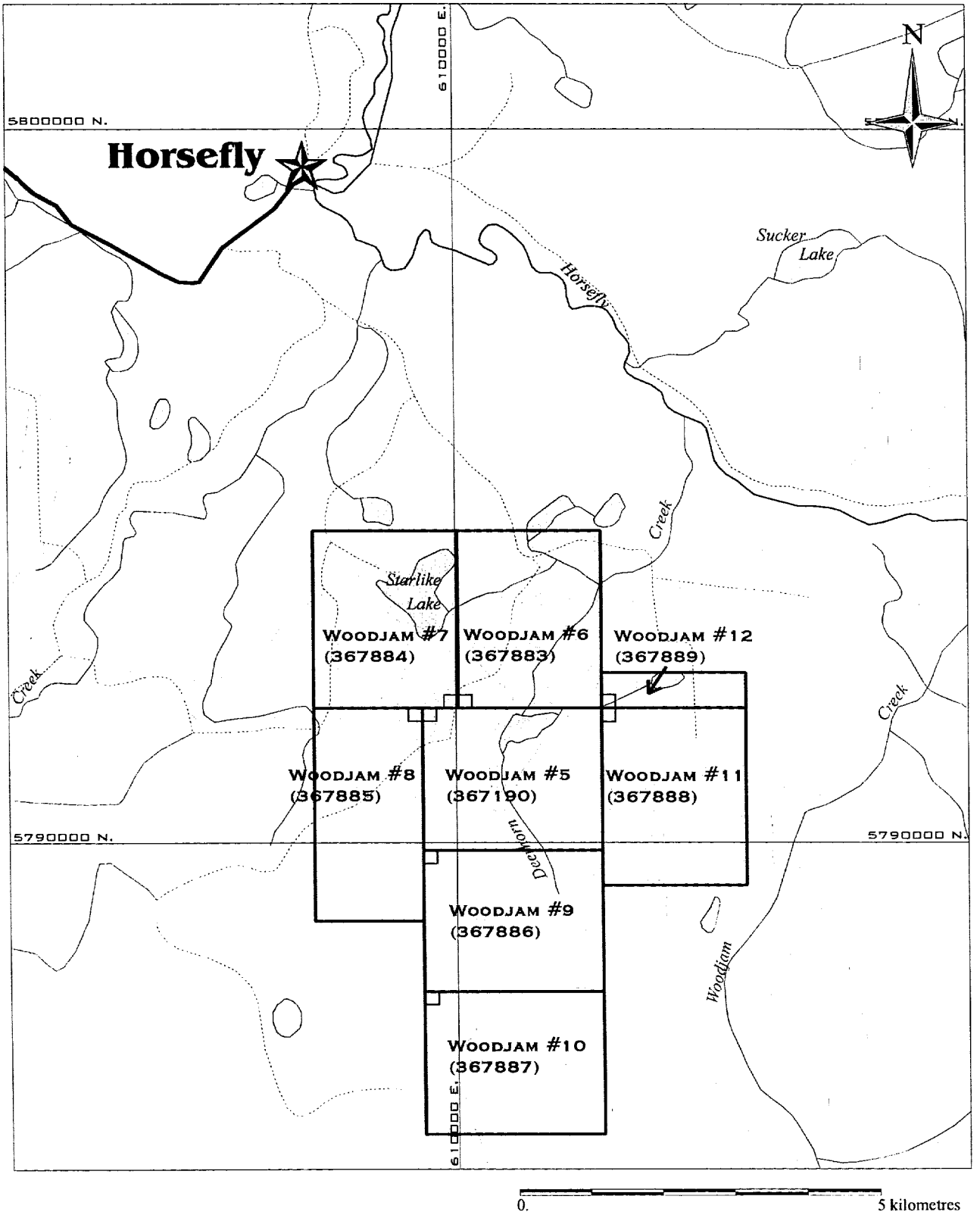


Figure 2: Woodjam Property, claim map

PROPERTY GEOLOGY

The east side of the Woodjam Property is underlain by quartz monzonite to granite of the Takomkane Batholith. The remainder of the property contains exposures of andesitic tuff, tuffite, flows, greywacke, and minor conglomerate, which are intruded by small syenite, quartz monzonite, or monzodiorite bodies. Overlying all of these rocks are tertiary basalts that appear on the western and northern portions of the property (Figure 3).

The Takomkane Batholith on the property is homogenous in both texture and composition. It is generally a medium to coarse grained, equigranular, white, quartz monzonite to granite, with 5 to 15% hornblende, and rare biotite. A number of border phases occur adjacent to the batholith. These include several diorite and monzodiorite plugs and dykes as well as a distinctive bladed feldspar granodiorite porphyry. The diorite and monzodiorite phases can grade into one another through a number of discrete transitional phases over a few hundred metres. Diorite and monzodiorite rocks are medium grained, and contain 10-20% hornblende as the dominant mafic mineral. However, euhedral pyroxene phenocrysts are observed locally, in the absence of hornblende, and comprise 5-20% of the rock. Two bladed feldspar granodiorite bodies occur at the south end of the property, and are characterized by 10-25%, 5-10 mm long feldspar laths in a light grey fine grained matrix. Epidote alteration of the feldspars is common and specular hematite is also locally found within the feldspar grains.

Volcanic units on the property are comprised mostly of monotonous fine grained, green, andesitic tuffite/tuff/ greywacke. Mauve andesite flows and tuffite beds, as well as siliceous conglomerate layers occur but are rare. In the Megabuck area, the volcanic units are more variable and coarser grained often containing broken 3-4 mm feldspar crystals. Bedding measurements throughout the property trend west to west-southwest dipping moderately to the north. The crystal tuff/tuffite units appear to continue to the northeast of the Megabuck Zone and are overlain by a pyritic, siliceous conglomerate. Andesitic volcanic breccias are also seen in the drill core from the Megabuck Zone.

Hornfels and epidote alteration is prevalent within the volcanic units and increases in intensity with proximity to the Takomkane Batholith and its satellite phases. Weak epidote alteration takes the form of epidote rich pods (1-3%) which occur predominantly along bedding planes. Moderate alteration is typified by numerous epidote pods (5% to 15% of the rock) and pervasive epidotization of the remainder of the rocks mass (5-15%). Finally, intensely altered volcanic rocks are highly magnetic and contain abundant epidote throughout (15-20%). Locally, magnetite-epidote alteration can grade into magnetite-biotite (potassic) alteration. East of the Takom Zone, podiform epidote alteration occurs along east-west oriented fractures within diorite and is associated with tourmaline veining and rare chalcopyrite. Tourmaline veining also occurs within hornfelsed volcanic rocks in the Spellbound Zone.

MINERALIZATION

Mineralization at the Megabuck zone consists of chalcopyrite, disseminated along fractures and in thin quartz veinlets, often with magnetite. Pyrite content is variable, being low in the core of the Megabuck zone and increasing outwards into the surrounding phyllic altered volcanic sediments. Descriptions from prior drill logs describe pervasive alteration with potassic alteration accompanied by quartz and quartz carbonate veinlets and intense phyllic style alteration described as "bleaching, pyrite, clay and sericite".

The Takom zone is located 2.5 kilometres south of the Megabuck zone and was not tested by the current work program. It comprises a combined copper and gold soil anomaly that had been previously tested by trenching and four diamond drill holes. One intersection measuring 10.7 metres grading 1.3 gpt gold and 0.13% copper was encountered. Drill hole descriptions are unavailable.

The Spellbound Zone consists of tourmaline breccias and veining within hornfelsed volcanic rocks. These veins contain rare chalcopyrite.

1999 WORK PROGRAM

The 1999 work program on the Woodjam property includes the drilling of four NQWL diamond drill holes totaling 766.9 metres. Previous ground geophysical surveys over the Megabuck showing revealed a coincident magnetic high associated with it. There were also several other similar magnetic highs in the area south and east of the Megabuck showing. Drilling by Leclerc Drilling of Beaverdell B.C. commenced on August 3 and ran to August 17. All core was logged and sampled on site and is stored 50 metres south of the collar location of hole 99-20. Cores from previous operators in various states of deterioration are also stored at the same locality.

All core was split and sampled in two metre intervals and analysis was completed on either single one sample intervals or on pulps that were combined into two sample composites (i.e. 4 metre interval). Sampled intervals are indicated on the attached drill logs. Samples were analyzed by Acme Analytical Labs Ltd., 852 East Hastings Street, Vancouver, BC for 36 elements by ICP-MS from a 30 gram aliquot. Analytical procedures are described on the attached assay certificates.

RESULTS

Four diamond drill holes (Table II) totaling 766.9 metres were completed to test the four magnetic highs identified by the ground magnetic survey. Drill holes locations are presented on figure 3 and 4 and plotted as sections in figures 5 and 6.

Table II - Drill Locations

Drill Hole	Easting ('99 Grid)	Northing ('99 Grid)	Azimuth	Dip	Length (m)
99-20	100+15	100+05	0	-90	200.3
99-21	100+60	97+95	123	-72	160.6
99-22	101+45	96+00	305	-72	227.4
99-23	108+50	95+35	35	-54	178.6

The four holes, 99-20, 99-21, 99-22, and 99-23 are briefly summarized below, with full drill logs located in Appendix II and the complete lab certificates in Appendix I.

Drill Hole Summaries

DDH 99-20

This hole intersected a complex pile of magnetite bearing sericitic and potassic altered volcanic and sub-volcanic breccias and epiclastics possibly in or near a volcanic edifice. This hole assayed from top to bottom 197.9 meters grading 0.10% Cu and 0.58 g Au/T including 79.6 meters from 2.4 meters to 82.0 meters grading 0.13% Cu and 0.85 g Au/T.

0m 2.4m **Casing**

2.4m 31.5m **Volcanic/intrusive breccia**
Mottled pale green and pink-brown. Feldspar porphyry clasts in a fine grained feldspar phyric groundmass. Quartz and calcite vienlets throughout. Chalcopyrite trace to 1% as irregular stringers with quartz and finely disseminated. 1 to 3% magnetite disseminated as 1mm blebs throughout.

31.5m 44.8m **Tuffaceous sandstone**
Grey, fine grained, massive, locally bedded. Quartz and calcite vienlets throughout. Chalcopyrite trace to 1% as irregular stringers with quartz and finely disseminated. 1 to 3% magnetite disseminated as 1mm blebs throughout.

44.8m 51.9m **Polymictic volcanic breccia**
Grey and brown fine grained feldspar-phyric clasts in a fine grained feldspar-phyric groundmass. Quartz and calcite vienlets throughout. Trace disseminated and veinlet chalcopyrite. 1% magnetite disseminated as 1mm blebs throughout.

51.9m 92.0m **Sericitic volcanic breccia/volcanic grit**
Pale green-gray and bleached. Textures variably destroyed due to sericitic alteration. Bedded to fragmental. Abundant sericite on fracture surfaces. Chalcopyrite to 0.5% in quartz veinlets. Disseminated hematite after magnetite 1 to 3%

92.0m 106.2m **Intense sericitic volcanic**
Textures completely destroyed. Massive waxy green.

106.2m 122.0m **Sericitic volcanic breccia/volcanic grit**
Pale green-gray and bleached. Textures variably destroyed due to sericitic alteration. Bedded to fragmental. Sericite on fracture surfaces. Chalcopyrite to 0.5% in quartz veinlets. Disseminated magnetite with hematitic rims 1 to 3%. Local disseminated pyrite.

122.0m 133.0m **Volcanic/intrusive breccia**
Mottled pale green and pink-brown. Feldspar porphyry clasts with glassy groundmass in a feldspar phyric, grey fine grained groundmass. Quartz and calcite vienlets throughout. Trace of chalcopyrite as irregular stringers and finely disseminated throughout. 1 to 3% magnetite with hematitic rims disseminated as 1mm blebs throughout.

133.0m 160.0m **Altered Monzonite**
Green-grey medium grained. Chalky feldspar and ragged hornblende. Weak to moderate sericitic overprint. Massive with local feldspar rich clasts and local grit like textures. Fine grained pyrite and magnetite disseminated throughout.

160.0m 200.3m **Monzonite**
Green-grey medium grained. Feldspar and ragged hornblende. Massive with local feldspar rich clasts and local grit like textures. Fine grained pyrite and magnetite +/- hematite disseminated throughout.

DDH 99-21

This hole intersected a cohesive package of hornblende and magnetite bearing

volcanic or sub-volcanic intrusive breccia and monzonite. The magnetite content adequately explains the magnetic anomaly tested. The hole was terminated due to squeezing at 97.2 metres depth. No significant results were returned.

0m 25.9m **Casing**

25.9m 97.2m **Intrusive/intrusive breccia**
Grey-green, medium grained. Feldspar>hornblende>quartz. Massive, local monomictic breccia zones with minor feldspar porphyry clasts. Weak sericitic overprint. 1 to 3% disseminated magnetite blebs throughout. Rare very fine grained pyrite and chalcopyrite.

97.2m 160.6m **Monzonite**
Grey-green, fine to medium grained. Feldspar> hornblende> quartz. Massive, common monomictic breccia zones with feldspar porphyry clasts. Moderate sericitic +/- chlorite over print. 1 to 3% disseminated magnetite blebs throughout. Rare very fine grained pyrite and chalcopyrite.

DDH 99-22

This hole intersected magnetite bearing volcanic and sub-volcanic igneous and epiclastic rocks overprinted by a wispy or pervasive red-brown sericitic or potassic alteration. This alteration increased in intensity after 142 meters to the end of the hole but analysis indicates no significant results. Magnetite content was significant enough to account for the magnetic anomaly tested.

0m 31.1m **Casing**

31.1m 69.0m **Tuffaceous sandstone**
Grey-green, medium grained. Angular feldspar, amphibole, quartz crystal fragments. Massive to bedded(?). Minor feldspar physic clasts. Weak pervasive hematitic/sericitic or biotite alteration.

69.0m 97.0m **Volcanic/intrusive breccia**
Grey-green medium grained. Feldspar and hornblende bearing. Common light and dark, fine and medium grained igneous clasts. Trace to 1% magnetite blebs. Pervasive wispy brown hematite/sericite or biotite alteration.

97.0m 109.0m **Tuffaceous sandstone**
Grey-green, fine to medium grained. Angular feldspar, amphibole, quartz crystal fragments. Massive to bedded(?). Minor feldspar phyric clasts. Weak pervasive hematite/sericite or biotite alteration. Weakly magnetic.

109.0m 123.5m **Volcanic/intrusive breccia**
Grey-brown. With feldspar porphyry clasts in a fine-grained, feldspar and amphibole bearing matrix. Weakly magnetic. Wispy to pervasive red-brown hematite/sericite or biotite alteration.

123.5m 142.0m **Sericitic volcanic/intrusive breccia**
Red-brown matrix with pale green clasts. Matrix harder than clasts. Local texture destroying sericitic alteration in clasts. Minor disseminated pyrite in some clasts.

142.0m 227.4m **Volcanic/intrusive breccia**
Grey-green, medium grained matix. Fine grained to porphyritic clasts. Local tuffaceous zones. Trace to 1% disseminated magnetite and pyrite. Rare chalcopyrite. Wispy to pervasive red-brown hematite/sericite or biotite alteration.

DDH 99-23

This hole intersected a monotonous pile of tuffaceous siltstone with disseminated magnetite, hematite and epidote. Magnetite content was sufficient to explain the magnetic anomaly tested. No significant results were returned.

0m 19.5m **Casing**

19.5m 160.0m **Green tuffaceous siltstone**
Fine grained, massive. Trace to 2% disseminated magnetite, local spotty epidote.

160.0m 178.6m **Maroon tuffaceous siltstone**
Fine grained, massive. Trace to 1% disseminated hematite, local spotty epidote.

CONCLUSIONS and RECOMMENDATIONS

The Woodjam property, which includes the Megabuck zone, covers a gold-rich porphyry target hosted by possible Triassic-Jurassic Takla Group volcanic and related sedimentary rocks, which have been intruded by the Jurassic, calc-alkaline Takomkane Batholith.

Work completed in 1999 consisted of the drilling of four diamond drill holes, totaling 766.9 metres that tested magnetic high anomalies over and near the Megabuck showing. The

first hole, DDH 99-20, tested the vertical extent of the Megabuck zone and encountered a quartz-chalcopyrite stockwork and disseminated chalcopyrite in altered magnetite bearing igneous breccias which assayed 0.10% Cu and 0.58 g Au/T over 197.9 meters. Holes 99-21 and 99-22 situated 200 meters and 400 meters south of 99-20, tested magnetic anomalies similar to the Megabuck zone. Both holes intersected magnetite-bearing feldspar-rich intrusive and intrusive breccia and returned low values in gold and copper. Hole 99-23, collared 900 meters southeast of 99-20 intersected magnetite bearing maroon and green tuffaceous siltstone and returned low copper and gold values.

Work to date was successful in extending the depth extent of the Megabuck Zone, however holes drilled south and southeast of the zone were barren. The zone is partially open to further drill extensions to the northeast and northwest. This would be aided by additional magnetic, induced polarization and soil geochemical surveying.

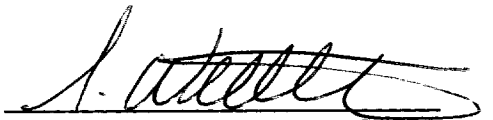
DISBURSEMENTS

Expenditures covered by this assessment report are tabulated below. Of this sum $48,600 was applied for assessment credit against the claims.

Expense	*Company/Person*	*Time/No. and Rate*	*Total Amount*
Core sample assays	Acme Analytical Labs	221 @ $26.71/sample	$ 5903.03
Drilling	LeClerc Drilling	N/A	$ 40,881.91
Core Splitter	Durfeld Geological	17 days @ $249.04/day	$ 4233.70
Geologist (G. Kulla)	Phelps Dodge	23 days @ $300.00/day	$ 6900.00
Truck Rental	Greg Kulla	23 days @ $49.57/day	$ 1140.00
		Total	***$ 59, 058.64***

Prepared by:

PHELPS DODGE CORPORATION OF CANADA, LIMITED

Per: 

Stephen Wetherup. B.Sc.
May 19, 2000

APPENDIX I

Core Sample Assay Certificates

(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

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Phelps Dodge Corp. File # 9902776 Page 1

1409 - 409 Granville St., Vancouver BC V6T 1T2 Submitted by: G. Kulla

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	S %
17001	20.81	1490.23	9.32	202.4	1182	5.2	13.5	936	4.78	5.0	.3	1072.2	1.1	44.7	.47	.59	.10	129	1.16	.080	3.2	14.4	.73	82.8	.092	7	.80	.084	.07	2.9	<.02	-	.8	.09	5.3	.09
17002	22.66	1038.52	7.54	222.9	903	6.5	12.8	950	4.86	4.6	.3	782.5	1.0	46.5	.94	.21	.06	138	1.02	.085	3.4	14.5	.97	118.9	.096	6	.85	.097	.08	2.9	<.02	5	.5	.04	5.7	.09
17003	17.24	1348.17	20.58	343.0	1087	4.1	12.8	1170	4.89	6.0	.3	881.7	1.0	46.1	1.75	.39	.06	120	1.59	.076	3.2	10.8	.87	110.7	.096	6	.86	.080	.08	3.5	.02	<5	.7	.03	5.8	.10
17004	20.34	1047.21	24.21	526.8	1405	5.6	12.0	1168	4.12	5.7	.3	763.9	1.1	48.4	3.85	.28	.04	100	1.61	.073	3.4	11.8	.79	72.3	.093	5	.84	.070	.08	4.3	.02	-	.6	.02	5.6	.08
17005	20.69	1238.75	29.33	557.7	1359	3.3	12.7	1083	4.42	4.3	.3	912.2	1.0	49.6	3.68	.25	.06	107	1.07	.076	3.2	6.4	1.02	106.8	.091	5	.92	.112	.07	3.4	<.02	11	.6	.02	5.9	.10
17006	24.23	1305.53	50.75	552.2	1103	5.4	11.7	1144	4.04	6.1	.4	984.9	.9	50.9	3.87	.15	.12	94	1.38	.070	3.5	11.1	.89	107.6	.089	4	.79	.087	.08	4.0	.03	5	.7	.04	5.1	.08
17007	22.30	1451.27	38.89	306.6	1210	3.8	13.0	1030	4.47	5.4	.4	1058.9	1.1	54.3	1.74	.19	.06	111	1.07	.073	3.3	10.6	.96	143.4	.103	5	.86	.085	.07	4.2	<.02	-	.7	.10	5.4	.11
17008	23.06	916.73	13.29	158.6	705	6.4	13.1	905	4.91	4.5	.4	645.5	1.0	54.5	.63	.13	.04	143	1.01	.089	3.4	13.0	.93	97.0	.112	5	.85	.092	.06	3.4	<.02	6	.4	.02	5.3	.06
17009	21.82	1088.58	14.70	206.2	936	4.8	13.6	910	5.20	4.9	.3	750.1	1.0	51.5	.88	.15	.04	151	1.01	.086	3.4	10.3	.93	195.6	.106	5	.87	.107	.07	3.5	<.02	6	.6	.02	5.2	.05
17010	22.53	1721.50	29.82	303.8	1230	7.1	12.8	953	5.05	4.9	.3	1650.2	1.0	53.4	1.78	.11	.04	133	1.20	.081	3.0	14.5	.76	96.8	.107	5	.81	.093	.07	3.7	<.02	6	.8	.03	5.3	.13
E 517010	23.48	1711.01	29.27	300.6	1184	6.5	12.9	947	5.02	5.0	.3	1280.9	1.0	54.2	1.84	.11	.04	132	1.20	.080	3.1	13.5	.78	106.5	.111	5	.85	.105	.06	3.8	<.02	9	.8	.03	5.0	.11
RE 517010	22.98	1705.87	32.69	318.6	1181	4.7	13.9	955	5.15	5.2	.3	1188.8	1.1	54.9	2.05	.15	.04	137	1.19	.082	3.3	10.2	.82	96.2	.113	5	.83	.086	.06	3.7	<.02	5	.9	.03	5.4	.12
17011	22.99	1349.51	25.38	269.7	1071	6.0	13.8	1059	5.10	4.7	.3	1024.2	1.0	56.9	1.56	.11	.04	141	1.42	.080	3.2	12.6	.80	180.9	.109	5	.81	.091	.07	3.8	<.02	7	.7	.02	5.4	.10
17012	22.35	1642.11	15.23	178.0	1742	4.5	14.1	982	5.10	4.6	.3	1862.0	1.0	59.9	.75	.13	.04	136	1.34	.077	3.1	10.1	.88	93.8	.104	5	.84	.082	.06	3.6	<.02	<5	.7	.03	5.6	.12
17013	19.31	1197.89	8.16	143.2	995	5.6	13.8	996	4.98	5.4	.3	808.3	1.0	73.1	.45	.12	.16	135	1.36	.082	3.4	11.1	.77	148.6	.109	5	.88	.094	.07	3.5	.04	<5	.6	.03	5.1	.06
17014	21.62	1314.55	7.96	138.4	626	4.2	12.9	1172	4.69	5.1	.3	870.1	.9	61.5	.44	.16	.04	118	1.52	.080	3.5	12.1	.71	112.0	.096	6	.86	.090	.06	4.2	.02	<5	.6	.03	5.1	.11
17015	26.88	1738.18	8.37	155.4	1108	6.4	14.7	1223	5.34	5.2	.3	1212.5	1.0	55.5	.68	.12	.06	125	1.58	.077	3.4	13.8	.77	96.8	.096	6	.88	.103	.07	4.4	<.02	7	.8	.04	5.4	.12
17016	21.88	1760.61	8.39	220.4	1008	3.5	14.2	1813	5.27	8.7	.3	1031.0	.9	59.6	.82	.12	.02	118	2.29	.074	3.4	8.3	.81	69.0	.072	6	.89	.097	.05	2.9	<.02	<5	.7	.04	4.9	.13
17017	20.55	1506.66	7.18	182.7	818	4.8	14.5	1886	5.23	7.5	.2	922.6	1.0	48.7	.47	.15	.02	105	2.42	.076	3.6	11.3	.91	83.1	.055	4	1.08	.084	.07	2.5	<.02	5	.7	.02	5.2	.11
17018	15.52	1024.23	11.71	158.3	686	3.6	13.7	1708	4.87	6.3	.2	642.7	1.3	53.7	.53	.16	.02	115	2.14	.084	4.3	8.8	.82	63.7	.064	5	.90	.073	.06	1.6	.02	<5	.6	.03	5.2	.08
17019	14.78	1194.80	12.99	172.3	1117	4.0	12.5	1959	4.77	52.7	.3	716.3	1.4	54.0	.51	.44	.02	100	1.98	.086	4.9	7.9	.69	65.4	.024	6	.78	.062	.06	1.0	.02	<5	.4	.05	4.5	.05
17020	15.47	1186.83	16.10	184.1	609	2.7	12.8	1964	4.70	10.7	.2	679.6	1.6	59.9	.44	.23	.03	102	1.32	.088	6.6	3.8	.68	51.6	.013	5	.94	.065	.06	.6	.02	10	.3	.02	4.9	.04
17021	19.85	1312.65	16.33	187.5	968	2.8	12.9	2050	4.89	15.4	.2	1406.8	1.7	58.3	.46	.40	.02	114	1.52	.097	7.1	5.1	.55	34.5	.011	5	.91	.066	.07	.3	.02	8	.4	.07	4.8	.05
17022	17.98	1516.60	14.89	190.9	918	1.4	12.3	1541	4.94	10.6	.2	781.5	1.0	71.6	.59	.22	.05	95	2.36	.081	3.6	4.2	.76	76.2	.056	6	1.11	.078	.07	2.5	.02	8	.7	.12	5.2	.11
E 517022	18.79	1578.45	15.85	197.7	949	1.5	12.3	1581	5.06	10.9	.2	835.0	.9	72.0	.62	.22	.05	96	2.42	.085	3.7	5.7	.80	81.3	.056	6	1.17	.083	.07	2.6	.02	8	.7	.11	5.3	.12
RE 517022	19.55	1471.96	16.01	194.2	957	3.1	12.4	1558	4.99	10.6	.2	823.7	.9	74.1	.60	.24	.04	96	2.43	.083	3.6	9.5	.78	68.3	.059	7	1.13	.076	.07	2.6	.02	<5	.6	.12	5.3	.10
17023	14.89	924.27	36.42	283.1	948	1.3	12.0	1187	4.78	7.2	.2	562.3	.9	69.2	1.67	.29	<.02	113	1.99	.091	3.0	4.3	.84	80.5	.103	6	.92	.063	.06	3.1	<.02	5	.5	.20	4.7	.05
17024	17.71	1339.64	60.35	381.8	1118	3.3	13.4	1188	5.10	5.9	.1	726.2	.9	63.0	2.08	.13	<.02	115	2.27	.086	3.0	7.1	.87	68.5	.111	6	.94	.091	.06	3.0	<.02	8	-	.13	5.3	.09
17025	18.36	1572.94	25.62	238.7	895	1.2	12.9	1377	5.08	10.1	.1	835.3	1.0	59.9	1.04	.24	<.02	113	2.15	.090	3.3	4.3	.76	47.5	.084	6	.90	.074	.07	2.0	.02	5	.8	.09	4.9	.16
17026	18.06	1603.58	24.90	345.3	1235	3.2	15.6	4221	6.18	205.3	2.1	905.6	1.3	46.0	2.16	17.99	.03	98	1.35	.087	7.3	4.8	.62	21.7	.004	6	.54	.039	.10	1.1	.04	39	-	.02	2.1	.14
17027	13.13	1355.12	32.90	311.5	840	2.1	15.3	3556	5.95	106.1	.2	842.2	1.2	64.4	1.98	3.99	<.02	108	2.70	.079	6.9	1.2	1.08	22.9	.004	5	.51	.045	.06	.6	.03	14	.5	.02	2.2	.04
17028	15.17	1296.68	27.90	295.2	818	3.8	16.6	3695	5.90	129.2	.3	762.8	1.0	60.0	1.66	5.48	<.02	98	2.48	.071	5.2	7.8	1.08	35.3	.003	5	.51	.035	.10	1.2	.03	13	.4	.02	1.9	.05
17029	14.71	1254.06	21.26	300.5	1021	2.8	18.1	3854	6.15	77.2	.2	806.2	1.0	47.7	1.14	4.08	.02	95	1.26	.083	4.7	6.8	.72	28.5	.003	6	.50	.037	.12	1.5	.04	11	.4	.02	1.8	.05
17030	15.65	1805.09	19.34	287.0	766	3.9	18.5	3061	6.04	111.6	.2	929.9	1.2	48.1	.85	5.04	.04	92	.76	.086	4.5	5.3	.56	45.0	.004	6	.57	.045	.13	.8	.04	10	.7	.02	2.2	.14
STANDARD OS2	13.96	127.26	30.99	166.2	222	37.9	12.6	827	3.20	63.7	20.9	205.1	3.5	35.9	11.73	10.91	10.92	84	.57	.083	13.4	174.1	.61	145.1	.118	2	1.79	.032	.16	7.5	1.73	237	2.6	1.85	6.4	<.01

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
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. * Not suitable for gold if samples contain graphite/massive sulfide
- SAMPLE TYPE: CORE Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 9 1999 DATE REPORT MAILED: Aug 18/99 SIGNED BY. C. Leong .D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Assay recommended for gold >1000ppb

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only. Data FA

MPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	S %
'031	15.34	1032.48	23.65	276.0	949	3.6	13.0	3114	5.32	76.3	.3	644.2	1.2	45.0	1.63	11.26	.19	105	1.62	.080	4.9	7.6	.65	28.0	.005	8	.61	.035	.13	.7	.04	37	.5	.05	2.5	.28
'032	12.01	1161.84	28.19	277.8	970	3.2	14.1	3019	5.53	68.5	.3	586.1	1.3	56.5	1.27	5.62	.05	119	2.23	.080	5.7	5.3	.61	22.4	.005	7	.59	.036	.10	.9	.03	25	.3	.03	2.3	.06
'033	13.92	1314.52	26.91	215.1	965	3.5	12.1	2404	4.85	162.1	.3	741.6	1.3	64.8	1.13	9.63	.05	100	3.25	.086	6.2	3.2	.41	20.5	.004	8	.65	.036	.08	.9	.03	43	.5	.03	2.4	.04
'034	12.38	1335.75	28.89	205.2	1109	3.2	12.9	2190	5.14	251.0	.4	654.9	1.3	70.0	1.09	13.85	.03	136	3.49	.084	5.6	7.9	.48	110.4	.006	6	.66	.037	.08	.9	.04	24	.4	.02	2.4	.04
'035	10.40	1136.17	26.69	142.5	685	4.0	11.5	1679	4.56	91.4	.4	577.9	1.3	71.2	.90	1.87	.03	117	3.20	.080	4.7	9.0	.45	77.3	.019	7	.73	.066	.09	.6	.04	11	.4	<.02	2.9	.06
'036	10.58	1017.34	16.40	156.2	666	3.0	12.4	1684	4.36	33.1	.5	587.0	1.2	81.0	.92	1.90	.03	126	3.36	.079	3.7	7.8	.54	180.4	.058	5	.94	.105	.09	1.6	.03	14	.5	.02	3.8	.08
'037	11.15	1150.22	11.28	163.9	814	5.0	14.4	1378	4.36	13.3	.4	721.1	1.2	63.5	.54	.27	.02	140	2.05	.077	3.2	10.5	.80	194.9	.078	6	1.04	.097	.09	2.4	.03	8	.6	.02	4.7	.15
'038	15.04	1063.89	17.25	181.0	653	3.6	14.0	1644	4.52	20.0	.3	603.0	1.0	61.6	1.01	1.09	.02	128	2.91	.078	3.4	9.3	.61	157.8	.059	6	.83	.082	.09	2.2	.03	10	.6	.02	4.0	.14
'039	17.39	783.72	11.65	170.6	455	5.1	16.7	1781	4.81	24.0	.4	520.9	1.3	61.0	.40	.90	.07	119	2.56	.083	4.1	10.7	.59	246.1	.025	8	.84	.071	.13	1.6	.04	11	.3	.02	3.8	.18
'040	10.63	1031.57	13.84	191.3	626	2.7	11.5	1952	4.71	48.4	.3	445.7	1.3	59.9	.42	2.17	.03	106	1.70	.102	4.5	4.7	.43	59.6	.005	6	.74	.047	.13	.5	.04	57	.3	<.02	2.4	.07
'041	9.03	1217.40	21.54	184.0	806	4.6	16.0	1795	4.92	73.9	1.1	674.6	1.4	79.4	.97	1.17	.30	96	1.28	.098	5.7	8.9	.58	58.7	.006	6	.79	.064	.08	.6	.05	32	.9	.08	2.6	.94
'042	15.29	774.46	13.88	151.6	696	2.8	12.3	1247	3.90	45.5	.6	400.8	1.4	77.2	1.77	.45	.07	113	1.09	.093	4.6	5.6	.44	88.6	.007	5	.90	.073	.07	.4	.03	13	.4	.03	3.1	.32
517042	15.61	807.44	14.95	157.8	740	2.9	13.0	1296	4.10	46.5	.6	436.6	1.5	82.6	1.84	.48	.07	121	1.14	.095	4.7	4.9	.44	90.5	.007	5	.94	.074	.08	.3	.03	15	.5	.03	3.4	.36
E 517042	15.99	806.20	14.66	160.3	699	3.9	13.3	1318	4.13	42.4	.6	420.0	1.4	76.4	1.83	.44	.06	118	1.15	.096	4.6	7.6	.46	83.2	.007	5	.94	.073	.07	.3	.03	13	.4	.03	3.3	.39
'043	13.93	952.65	20.44	221.4	888	3.8	17.1	1587	4.22	23.9	.3	516.7	1.4	82.1	.94	.50	.02	122	1.51	.089	5.1	6.6	.51	132.2	.017	6	1.02	.089	.12	.3	.04	20	.4	.03	4.0	.07
'044	19.34	952.80	13.63	217.4	814	4.8	12.7	1568	4.43	16.3	.3	548.6	1.2	92.5	1.46	.51	<.02	120	1.88	.093	4.1	11.1	.51	86.4	.020	6	.95	.100	.07	.6	.03	15	.2	.03	3.9	.06
'045	13.28	1044.52	11.76	181.8	808	3.1	11.7	1652	4.52	51.7	.4	553.8	1.5	77.6	1.46	1.07	<.02	109	1.31	.094	4.9	7.6	.49	48.5	.011	5	.85	.090	.07	.4	.02	15	.3	.02	3.4	.06
'046	10.66	933.31	18.24	207.7	739	4.6	12.3	1879	4.28	23.9	.4	602.2	1.4	105.4	.90	.49	.13	109	1.74	.082	5.7	8.9	.68	154.8	.007	5	1.00	.076	.06	.3	.05	5	.3	.03	3.5	.02
'047	10.08	685.33	12.50	142.6	556	2.6	7.9	1005	3.41	12.0	.2	427.8	1.6	92.2	.60	.36	.03	114	1.00	.096	5.4	5.7	.38	56.6	.008	5	1.20	.094	.06	.2	.02	8	.2	.03	4.0	.02
'048	13.86	744.24	8.49	199.4	775	5.3	12.7	1831	4.33	16.0	.5	440.4	1.5	106.7	.82	.40	.02	116	2.46	.090	5.4	9.3	.49	116.3	.010	5	1.16	.122	.07	.3	.02	11	.2	.04	4.4	.03
'049	8.88	783.86	6.17	157.8	613	3.8	11.8	2028	4.16	41.0	.3	329.5	1.3	103.5	.66	.47	.02	107	2.79	.080	5.4	6.6	.47	54.2	.007	7	1.13	.114	.08	.3	.02	9	.2	.04	3.8	.07
'050	15.54	1362.06	18.64	240.6	1088	5.8	25.7	1925	4.79	76.8	.4	525.7	1.5	88.3	1.71	.70	.02	97	2.10	.085	5.5	6.3	.47	87.3	.007	6	.90	.090	.08	.3	.03	21	.7	.06	3.1	.17
'051	10.91	1390.02	17.97	229.4	1052	4.9	25.1	1785	6.18	63.4	.5	543.1	1.0	80.6	2.04	.50	.02	118	2.91	.066	4.4	5.2	.51	248.5	.010	6	.88	.072	.12	.5	.04	7	.6	.07	3.4	.16
'052	8.79	910.99	11.60	223.8	722	2.7	21.8	1381	5.94	32.4	.2	345.7	1.0	127.2	.79	.35	<.02	144	1.43	.128	5.4	<.5	1.16	43.0	.030	8	1.89	.095	.21	<.2	.04	10	.6	.04	6.4	.12
'053	11.81	1495.81	9.26	155.9	1000	1.7	13.8	1600	5.40	24.4	.1	929.4	1.0	115.5	.66	.29	<.02	169	2.55	.135	4.4	<.5	.61	40.8	.022	5	1.31	.119	.07	<.2	.02	9	.4	.05	5.9	.12
054	9.26	1251.09	11.74	165.4	1031	4.0	19.3	1272	4.55	20.4	.2	567.2	1.3	91.0	1.21	.18	.02	149	1.68	.116	4.6	3.4	.44	50.3	.015	4	1.08	.101	.08	<.2	.02	8	.4	.05	4.8	.09
517054	9.17	1257.81	11.36	165.0	1005	4.2	19.3	1279	4.54	20.3	.2	623.0	1.2	91.0	1.24	.17	<.02	147	1.69	.116	4.6	5.8	.44	49.0	.014	5	1.06	.099	.08	<.2	.02	7	.4	.05	4.5	.05
517054	9.29	1329.45	12.26	174.6	1094	3.5	20.8	1354	4.79	22.2	.2	644.6	1.3	95.5	1.33	.16	.02	154	1.80	.122	4.9	2.8	.46	50.6	.014	5	1.11	.105	.09	<.2	.02	8	.3	.04	5.0	.08
055	10.34	1125.92	13.82	272.2	759	5.8	21.3	2630	6.05	42.1	1.3	831.5	1.2	102.1	1.39	.22	<.02	104	2.70	.083	6.1	3.3	.62	32.0	.007	5	.96	.080	.07	<.2	.02	7	.4	.09	3.3	.06
056	10.03	794.52	11.06	200.3	555	4.2	13.6	1703	4.84	14.4	.6	522.2	1.4	96.6	1.10	.30	<.02	130	1.95	.089	5.3	7.7	.46	41.3	.009	5	1.12	.109	.06	<.2	<.02	<5	.2	.04	4.0	.03
'057	10.59	886.80	7.01	175.4	612	5.6	15.3	1681	4.82	18.7	.3	429.5	1.1	95.2	.62	.49	<.02	128	2.76	.080	3.8	7.9	.70	140.2	.024	6	1.01	.097	.08	.8	.02	16	.5	.04	4.0	.10
'058	10.53	916.64	5.53	151.6	641	4.7	13.1	1524	4.29	15.5	.3	476.0	1.3	96.6	.61	.59	<.02	123	2.53	.084	4.3	8.8	.63	68.3	.026	5	1.09	.127	.06	.5	.02	18	.2	<.02	4.5	.08
'059	11.90	819.23	10.30	173.5	705	6.9	16.3	2159	4.75	35.1	.8	495.3	1.1	78.4	.83	3.07	.07	106	3.87	.077	4.3	7.6	.85	108.4	.009	5	.70	.075	.10	.3	.03	12	.4	.03	3.0	.54
'060	12.73	600.15	7.43	154.3	658	5.5	15.1	1651	4.94	22.5	.2	301.4	1.2	77.4	.43	1.51	.08	127	2.50	.088	4.9	10.0	.57	57.2	.014	5	.86	.092	.11	.4	.03	10	.3	.03	3.7	.27
'061	13.98	904.32	5.23	141.0	571	5.8	13.4	1336	4.30	10.1	.3	482.9	1.2	74.7	.34	.36	<.02	113	1.94	.083	3.2	15.7	.59	137.5	.053	5	.86	.088	.06	1.4	.02	5	.5	.02	4.3	.07
NDARD OS2	14.19	134.08	32.10	168.3	224	37.9	12.9	841	3.25	64.5	21.4	212.3	3.8	35.0	12.12	10.78	11.16	84	.57	.083	13.5	179.5	.62	148.2	.119	2	1.83	.034	.17	7.8	1.79	248	2.8	1.96	6.1	<.01

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

Data / FA ____

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	S %
17062	18.41	876.54	6.28	161.3	557	5.7	14.6	1504	4.63	11.9	.3	461.8	1.2	68.3	.50	.34	.11	123	2.36	.085	3.5	15.3	.75	101.4	.090	5	.94	.094	.06	2.4	<.02	9	.4	.02	5.0	.08
17063	16.30	810.28	8.03	169.2	600	6.9	14.6	1670	4.87	7.4	.3	459.9	1.2	80.0	.68	.20	.04	119	2.61	.081	3.5	15.2	.77	82.8	.061	5	.87	.084	.06	1.4	<.02	8	.4	.02	4.6	.07
17064	14.96	811.01	8.24	178.6	710	5.6	16.8	1107	4.64	5.5	.3	446.1	1.0	75.8	.91	.14	.03	133	1.66	.083	3.0	12.8	.88	161.9	.084	4	.96	.095	.06	2.8	<.02	6	.4	<.02	4.9	.09
17065	16.74	1014.50	15.86	270.0	1033	6.8	16.7	1480	4.42	6.4	.5	651.7	1.0	79.9	2.14	.16	.02	101	2.13	.077	3.4	15.6	.76	245.4	.056	4	1.00	.087	.05	2.1	<.02	8	.5	.03	4.8	.06
17066	14.88	1255.52	15.14	245.6	1082	5.3	16.5	1743	5.20	9.0	.5	737.1	1.1	98.1	1.45	.21	<.02	122	2.50	.080	3.7	13.6	.88	166.5	.057	4	1.20	.134	.06	2.1	<.02	12	.5	.03	5.0	.11
17067	15.81	1052.07	13.39	345.6	846	6.6	15.1	1140	4.41	7.7	.4	708.6	1.1	77.8	2.39	.18	.09	117	1.94	.083	3.4	14.0	.72	96.0	.068	4	1.11	.131	.07	2.1	.03	16	.5	.03	4.3	.14
17068	14.64	1007.09	11.59	349.0	734	6.2	18.5	1918	6.64	7.4	.4	564.7	1.3	94.6	1.67	.14	<.02	130	2.10	.080	4.4	8.8	.83	53.3	.033	5	.98	.129	.04	.6	<.02	7	.3	.02	3.8	.05
17069	17.49	1484.72	9.51	185.7	1062	6.5	15.6	1574	4.24	7.8	.5	779.1	1.0	87.1	1.18	.11	<.02	102	2.86	.081	3.6	12.0	.69	162.2	.072	3	1.05	.114	.05	1.5	<.02	10	.7	.03	4.4	.14
17070	17.20	1088.33	9.12	214.2	847	5.6	16.1	1543	4.56	8.1	.2	692.5	1.0	82.4	1.16	.09	<.02	117	2.36	.087	3.1	12.1	.90	128.4	.084	4	1.06	.093	.06	2.2	<.02	10	.5	.02	5.0	.09
17071	18.74	1184.29	8.61	214.6	892	6.3	18.1	1501	4.29	9.0	.3	780.5	1.0	76.0	1.45	.11	.12	103	2.48	.080	3.4	12.6	.77	100.2	.055	3	.89	.080	.05	1.3	.04	<5	.6	<.02	4.4	.08
17072	26.70	1241.61	8.88	198.4	941	5.1	17.8	1577	3.95	28.0	.5	770.5	1.2	78.4	1.15	.16	<.02	92	2.71	.087	3.4	8.8	.65	74.0	.027	4	.80	.083	.06	1.1	.02	14	.7	.03	3.9	.10
RE 517072	26.34	1194.51	8.17	192.9	933	4.7	17.3	1525	3.86	27.3	.5	865.4	1.3	78.8	1.17	.15	<.02	91	2.63	.083	3.5	9.1	.65	73.3	.027	4	.81	.084	.06	1.1	.02	12	.6	.02	3.9	.08
RRE 517072	25.14	1175.34	8.57	194.5	888	5.7	18.0	1536	3.87	26.7	.5	787.0	1.2	78.8	1.20	.16	<.02	93	2.68	.083	3.4	10.7	.64	74.2	.029	4	.83	.084	.06	.9	.02	16	.6	.02	3.9	.09
517073	21.96	812.11	10.44	236.8	698	5.1	19.3	1792	4.33	19.5	.3	452.0	1.2	92.3	1.35	.13	<.02	106	2.98	.084	4.0	6.7	.74	102.6	.024	5	.92	.080	.05	.8	.02	13	.2	.02	4.4	.06
517074	16.75	831.54	18.72	305.2	719	6.4	20.2	2249	5.03	18.1	.3	345.6	1.4	97.8	1.62	.14	<.02	110	3.02	.078	5.2	8.5	.98	35.8	.010	4	.95	.076	.04	<.2	<.02	15	.2	.02	4.6	.05
517075	19.75	702.57	20.72	266.9	662	5.2	17.8	2321	4.63	26.8	.5	360.2	1.0	102.0	1.26	.22	<.02	91	3.86	.072	4.6	8.4	1.38	138.6	.025	5	.87	.072	.05	.7	.03	26	.2	.02	4.0	.05
517076	22.88	688.64	12.39	266.8	785	8.2	21.6	1342	4.15	8.5	.3	337.5	1.0	95.1	1.15	.13	<.02	119	2.34	.086	3.6	14.6	1.04	86.0	.064	5	1.35	.090	.04	1.3	<.02	12	.4	.02	6.1	.07
517077	22.54	816.54	17.72	292.2	874	6.6	22.9	1935	5.22	13.7	.3	414.1	1.5	113.2	.88	.17	<.02	143	2.78	.089	6.3	9.7	1.13	394.4	.015	4	1.52	.084	.04	.2	<.02	17	.3	.02	7.4	.04
517078	22.77	617.01	12.10	231.1	793	7.0	19.4	1529	4.44	13.4	.4	380.8	1.6	99.7	.24	.18	<.02	134	2.82	.097	5.6	11.8	1.15	59.5	.018	5	1.61	.085	.06	<.2	<.02	15	.2	.02	7.4	.02
517079	21.63	708.01	5.45	191.2	822	6.0	18.6	1661	4.83	13.3	.3	325.9	1.5	84.5	.26	.12	<.02	147	3.96	.089	6.3	9.1	1.09	72.5	.011	4	1.38	.108	.09	.2	.02	15	.3	.02	5.9	.06
17080	36.43	783.08	12.87	206.1	779	6.6	22.5	1786	4.40	16.3	.6	346.8	1.1	73.2	.72	.21	<.02	102	3.60	.080	4.7	10.6	1.18	232.9	.049	5	1.14	.078	.10	1.2	.02	31	.6	.03	5.0	.34
STANDARD DS2	14.78	134.63	32.56	169.2	227	37.9	13.3	843	3.31	63.5	22.0	214.6	4.1	34.4	11.61	11.02	11.51	82	.58	.085	14.5	179.5	.62	150.0	.122	2	1.87	.034	.17	7.3	1.75	251	2.6	1.98	6.4	.01

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

Data ___ FA ___

CHEMICAL ANALYSIS CERTIFICATE

Phelps Dodge Corp. PROJECT 244 File # 9902842 Page 3

1409 - 409 Granville St., Vancouver BC V6T 1T2 Submitted by: Greg Kulla

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	S %
517100/517101	.30	5.12	3.34	88.6	19	2.4	10.0	1461	3.59	2.5	.4	4.6	1.0	45.3	.15	.10	.07	80	2.11	.076	3.2	4.9	1.03	219.5	.012	2	1.28	.084	.10	.4	.02	7	.3	<.02	5.0	.01
517102/517103	.30	15.69	3.37	96.8	45	2.6	10.5	1416	3.30	4.2	.4	5.8	.9	59.0	.13	.16	.04	76	2.68	.076	4.8	5.1	.97	139.1	.005	3	1.29	.062	.10	.3	.02	<5	.5	<.02	5.1	<.01
517104/517105	.27	18.03	2.96	92.5	55	3.5	11.7	1345	3.68	3.3	.3	6.3	.9	45.1	.11	.10	.03	85	2.41	.079	4.5	7.9	1.00	182.3	.008	3	1.25	.081	.11	.5	.02	7	.4	<.02	5.1	.01
517106/517107	.31	39.18	3.20	122.2	99	3.2	11.3	1310	3.62	2.9	.3	9.6	.9	53.8	.11	.08	.03	83	2.73	.078	4.9	5.4	.98	252.5	.007	2	1.37	.082	.13	.5	.03	<5	.1	<.02	5.4	.01
517108/517109	.25	32.16	3.06	105.0	54	2.9	10.6	1312	3.63	2.9	.4	15.2	.8	58.3	.10	.07	.02	88	2.71	.074	4.0	5.4	1.03	422.5	.022	2	1.56	.104	.14	.6	.04	8	.6	.02	5.2	.01
517110/517111	.28	5.63	2.83	112.3	23	3.1	11.2	1471	3.53	3.6	.4	16.1	.8	58.3	.08	.09	<.02	87	2.46	.074	3.2	6.3	1.05	379.9	.037	3	1.70	.131	.15	.6	.05	11	.6	<.02	5.8	.01
517112/517113	.59	44.61	6.08	99.6	30	7.0	15.8	1571	4.20	3.7	.4	6.7	.9	66.8	.10	.12	.02	134	2.38	.086	3.6	17.1	1.45	267.8	.077	4	2.06	.138	.11	.6	.04	11	.7	.04	7.6	.03
517114/517115	1.10	38.47	7.18	106.9	58	4.2	13.8	1452	3.82	3.8	.4	.6	.8	70.4	.10	.22	.02	109	2.41	.080	3.4	6.8	1.45	193.0	.060	1	2.03	.113	.09	.4	.03	16	.6	.03	8.0	.04
517116/517117	.23	3.81	3.54	93.7	21	3.8	14.2	1266	3.92	4.8	.5	1.0	.8	67.9	.10	.31	<.02	108	2.25	.085	3.4	8.6	1.24	414.2	.089	4	1.66	.105	.09	.6	.03	12	.4	<.02	6.4	<.01
517118/517119	.27	5.18	4.11	82.2	29	3.4	12.4	1226	3.34	5.0	.5	3.3	.9	60.3	.15	.27	.10	88	2.40	.078	3.0	8.3	1.18	278.2	.069	2	1.53	.099	.13	.9	.05	9	.5	<.02	5.8	<.01
517120/517121	.25	15.88	2.81	68.8	36	3.2	11.5	1184	3.27	5.0	.5	2.8	.8	59.7	.10	.18	.02	91	3.13	.081	3.8	6.9	1.04	185.4	.042	2	1.46	.076	.18	.8	.04	11	.4	<.02	5.1	.01
517122/517123	.28	29.40	3.65	83.9	83	3.3	12.7	1253	3.49	6.3	.5	12.0	.8	65.0	.10	.24	<.02	114	3.01	.081	4.4	5.4	1.21	160.9	.035	3	1.53	.085	.15	.6	.04	16	.4	<.02	5.6	.02
517124/517125	.28	17.68	2.85	85.8	41	3.9	13.5	1279	3.56	5.6	.5	9.9	.9	58.3	.08	.65	<.02	98	2.74	.082	3.5	7.1	1.18	184.8	.076	3	1.41	.071	.14	1.1	.04	12	.3	.02	5.5	<.01
517126/517127	.36	3.26	2.70	75.3	31	7.3	16.1	1335	4.44	4.6	.4	3.2	.7	51.6	.09	.39	<.02	144	2.83	.086	3.3	11.0	1.34	162.3	.102	2	1.55	.079	.14	1.2	.04	5	.3	<.02	6.3	.01
517128/517129	.34	4.40	2.69	70.7	23	6.3	15.6	1417	4.19	4.3	.4	3.1	.7	46.5	.08	.24	<.02	120	3.18	.086	3.9	8.7	1.22	159.2	.060	4	1.58	.104	.17	1.0	.04	12	.3	<.02	5.5	.01
517130/517131	.29	6.34	3.75	87.1	27	4.3	14.3	1355	4.12	3.1	.3	2.5	.7	48.3	.07	.16	.15	108	3.11	.084	4.0	7.2	1.15	210.8	.033	3	1.70	.099	.18	.4	.08	6	.3	.02	5.2	<.01
517132/517133	.23	20.14	5.53	118.7	38	3.1	12.5	1495	3.54	3.0	.2	5.7	.7	41.6	.09	.19	.03	79	3.83	.082	5.2	6.0	.94	247.0	.018	4	1.70	.083	.22	.4	.07	9	<.1	<.02	4.3	.01
517134/517135	7.60	138.99	9.63	161.4	312	3.6	15.9	1441	4.15	21.8	.3	18.4	.7	65.4	.28	1.43	.13	83	3.41	.086	5.0	7.0	1.03	483.3	.015	3	1.68	.049	.18	.5	.06	19	.5	.02	5.1	.15
517136/517137	.25	57.64	5.12	101.0	67	5.4	18.0	1538	4.34	3.7	.3	1.9	.6	71.2	.14	.50	.02	127	3.62	.087	4.9	11.1	1.49	199.5	.012	4	1.87	.049	.20	.4	.07	9	.1	<.02	6.1	<.01
RE 517136/517137	.25	54.49	5.34	97.4	65	5.3	16.3	1490	4.20	3.7	.2	.6	.6	66.7	.15	.48	.02	122	3.49	.084	4.6	11.3	1.40	189.8	.013	2	1.78	.046	.20	.3	.07	8	.1	<.02	5.8	<.01
517138/517139	.50	54.47	2.72	86.0	61	5.4	16.7	1369	4.23	3.3	.3	4.7	.6	87.4	.11	.11	<.02	129	3.28	.084	4.3	10.5	1.55	356.0	.044	1	2.02	.089	.17	.3	.07	7	.5	.03	6.7	.01
517140/517141	1.10	49.69	3.83	76.5	33	5.9	17.1	1332	4.41	3.1	.3	.7	.5	74.7	.09	.07	.03	146	2.82	.082	3.2	13.2	1.48	459.6	.095	1	2.13	.128	.14	.5	.05	14	2.5	.11	6.7	.39
517142/517143	.29	18.35	2.90	81.3	32	4.9	16.5	1368	4.04	3.5	.3	.5	.6	92.2	.10	10	<.02	128	2.93	.082	3.5	10.8	1.42	772.4	.067	2	2.03	.123	.16	.4	.06	<5	.4	.03	6.1	<.01
517144/517145	.14	3.68	5.97	98.2	23	4.6	16.1	1286	4.01	7.6	.3	3.2	.7	73.4	.18	10	<.02	104	3.63	.085	4.9	10.9	1.31	297.1	.026	3	1.92	.101	.19	.3	.07	<5	<.1	<.02	5.4	<.01
517146/517147	.17	4.73	7.47	119.8	27	4.9	18.0	1414	3.98	88.7	.4	10.9	.8	73.3	.21	.16	<.02	108	4.02	.087	5.1	10.4	1.67	280.4	.012	3	2.20	.082	.23	.2	.08	5	<.1	<.02	6.2	<.01
517148/517149	7.58	646.17	17.43	183.9	482	5.4	21.4	1479	3.93	71.2	.3	16.1	.7	73.7	.94	2.45	.20	97	4.49	.084	5.3	8.6	1.23	200.0	.014	4	2.17	.060	.22	.4	.07	9	.4	.04	4.9	.13
517150/517151	.60	125.01	12.33	137.1	89	5.1	16.3	1452	3.90	14.3	.2	44.1	.6	63.4	.27	.33	.04	86	4.28	.081	5.0	9.5	1.27	243.4	.016	4	2.18	.074	.23	.4	.06	7	.4	<.02	5.2	.05
517152/517153	.16	4.45	11.07	151.9	132	5.1	17.3	1379	4.05	4.8	.3	13.6	.8	75.4	.25	1.39	<.02	97	4.04	.086	5.1	12.4	1.44	137.4	.012	5	1.61	.050	.18	.3	.06	10	<.1	<.02	5.2	<.01
517154/517155	.74	172.67	5.99	169.8	97	5.1	16.9	1798	3.90	10.1	.3	.7	.7	70.9	.20	.64	<.02	99	4.45	.085	5.4	10 2	1.60	687.1	.028	5	2.61	.133	.23	.3	.06	<5	<.1	<.02	6.3	.03
STANDARD DS2	13.91	130.15	33.02	173.3	237	38.0	12 9	858	3.30	68.5	21.0	198.4	3.7	35.4	11.47	10.18	11.97	86	57	.086	13.9	181.8	.62	149.1	.118	1	1.81	.040	.17	6.6	1.97	271	2.7	1.93	6.2	.02

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
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.
- SAMPLE TYPE: P1 TO P2 CPRE P3 COMPOSITE Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 12 1999 DATE REPORT MAILED: Aug 24/99 SIGNED BY: D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604) 253 1716 TO 6813920
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Phelps Dodge Corp. PROJECT 244 File # 9902841

1409 - 409 Granville St., Vancouver BC V6T 1T2 Submitted by: Greg Kulla

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	S %
517081	36.33	734.02	10.04	190.3	827	4.3	18.1	1891	4.46	14.5	.5	378.2	1.0	80.9	.61	.27	.10	125	3.89	.081	5.2	13.7	1.04	78.6	.019	3	1.18	.101	.09	.3	.02	15	.2	<.02	6.0	.31
517082	18.70	684.07	7.66	150.9	795	4.9	19.5	1396	4.46	8.9	.4	366.2	1.0	89.3	.38	.21	.04	123	2.64	.085	3.7	10.4	1.15	84.7	.048	5	1.42	.146	.07	.6	.02	14	.4	<.02	6.6	.07
517083	20.19	758.08	7.78	186.6	931	5.5	21.5	2005	4.31	28.9	.5	356.6	1.0	84.4	.40	.30	.05	108	4.42	.079	4.5	12.1	.96	127.1	.007	6	1.16	.085	.09	.2	.03	21	.2	.04	5.4	.64
517084	31.80	447.49	5.80	404.4	731	4.9	19.2	1528	3.61	11.5	.4	224.5	.9	89.2	1.16	.11	.04	107	3.58	.081	4.3	11.5	1.04	126.2	.002	7	1.42	.094	.10	.2	.03	24	.4	.02	5.7	.36
517085	47.53	1389.04	29.13	707.5	2575	5.3	34.0	1592	4.72	19.9	.6	1122.9	.9	84.2	2.32	.25	.31	95	3.98	.075	4.9	11.4	1.12	106.5	.003	6	1.53	.102	.09	.3	.03	39	.9	.05	6.1	1.79
517086	147.25	203.43	16.26	711.4	690	5.6	28.8	1379	4.31	8.7	.4	120.4	.9	87.8	1.65	.20	.30	127	3.06	.084	5.2	11.0	1.44	91.4	.005	6	1.80	.138	.06	<.2	.03	96	.2	.02	7.6	.66
517087	14.38	110.09	8.25	1114.7	757	6.7	16.4	1400	4.35	5.1	.3	69.0	.9	86.5	2.13	.12	.05	158	3.03	.081	5.1	10.6	1.46	89.4	.006	5	1.76	.152	.03	<.2	.02	22	<.1	<.02	8.1	.11
517088	15.32	157.54	30.45	1213.3	1319	5.9	25.7	1562	4.54	4.7	.3	98.2	1.0	85.0	2.66	.28	.09	135	3.09	.085	5.0	12.6	1.48	82.8	.003	5	1.77	.117	.08	<.2	.02	39	.1	<.02	7.9	.52
517089	6.56	83.29	34.47	1082.7	2148	4.9	20.1	1327	4.45	12.0	1.4	64.5	.9	83.5	3.51	5.70	.56	85	3.55	.081	5.9	9.0	1.24	50.1	.001	10	1.40	.068	.13	.3	.08	30	.9	.07	5.6	2.80
517090	5.58	68.55	26.79	696.7	2125	4.9	17.2	1170	4.08	6.3	.5	34.8	.8	79.6	1.77	.21	.28	105	3.61	.080	4.5	11.2	1.31	35.1	.002	9	1.53	.083	.09	.2	.04	28	1.2	.12	6.0	2.40
RE 517090	5.44	69.45	27.69	705.7	2130	4.7	18.0	1183	4.13	6.2	.6	35.6	.8	79.2	1.74	.25	.28	106	3.66	.081	4.5	9.2	1.32	35.1	.002	10	1.52	.082	.09	.2	.04	25	1.2	.11	6.0	2.43
RRE 517090	6.22	72.00	28.85	708.3	2309	4.9	19.0	1199	4.23	7.3	.6	39.5	.9	90.6	2.00	.26	.31	106	3.72	.082	5.1	9.4	1.44	36.2	.002	10	1.61	.089	.09	.2	.04	33	1.4	.14	6.1	2.50
517091	1.90	66.28	8.72	461.7	2306	5.6	14.9	1667	4.24	3.1	.3	15.8	1.1	95.3	1.33	.07	.16	148	2.55	.085	5.0	10.6	1.78	81.2	.005	8	2.09	.139	.05	<.2	.02	17	.4	.04	8.0	.92
517092	2.35	57.06	8.07	414.8	5128	5.5	17.6	1746	4.39	2.9	.2	16.9	.9	85.7	1.32	.08	.28	127	2.52	.079	4.6	13.3	1.59	49.5	.004	6	1.99	.142	.07	<.2	.02	12	.6	.05	7.8	1.87
517093	3.29	60.39	9.80	486.9	7188	4.9	21.5	1588	4.66	4.5	.3	25.7	.9	78.3	2.20	.11	.16	127	2.56	.080	5.4	8.5	1.42	84.1	.003	6	1.70	.103	.07	.2	.02	22	.2	.03	7.0	1.22
517094	1.90	43.09	9.02	527.0	6514	6.6	16.8	1502	3.93	3.3	.2	18.2	1.0	75.5	2.42	.10	.09	123	2.18	.081	4.7	11.4	1.61	59.4	.004	5	1.91	.109	.06	<.2	.02	27	.4	.02	7.8	.54
517095	1.43	43.54	22.13	425.8	1247	6.0	16.8	1636	4.15	7.4	.5	27.0	.9	83.1	1.51	3.68	.16	128	3.18	.070	5.6	11.8	1.52	168.5	.003	4	1.79	.096	.05	<.2	.02	26	.2	.03	7.6	.84
517096	6.78	57.61	13.25	337.7	638	5.5	20.9	1233	4.26	2.8	.3	56.1	.9	71.2	1.34	.09	.15	127	2.25	.078	5.1	10.5	1.54	102.3	.003	4	1.71	.096	.05	<.2	.02	24	.4	.02	7.9	.97
517097	12.22	98.45	8.25	377.9	487	6 5	22.0	1362	4.62	3.8	.4	58.4	.9	75.3	1.77	.13	.07	146	2.90	.078	4.9	11.5	1.53	119.0	.004	4	1.68	.095	.04	<.2	<.02	18	.1	.02	8.2	.40
517098	5.54	93.71	13.20	654.5	683	6.4	20.1	1217	4.36	6.6	.5	115.4	.9	86.0	3.14	2.63	.20	117	3.14	.078	5.4	10.4	1.46	90.2	.001	7	1.80	.080	.11	.2	.03	34	.3	.03	7.5	1.80
517099	4.36	40.33	33.57	704.8	525	6.1	20.5	1423	4.72	4.7	.7	39.7	.9	89.6	2.46	.47	.25	125	3.55	.080	4.9	11.1	1.58	79.7	.003	5	1.70	.079	.09	<.2	.03	30	.3	.03	7.2	2.06
STANDARD D	15.18	134.27	31.10	167.1	238	37.6	13.4	821	3.20	65.8	21.0	210.7	3.5	34.7	10.64	9.69	10.47	83	.56	.082	13.3	175.1	.62	148.3	.117	3	1.83	.040	.15	7.4	1.95	243	2.5	1.84	6.3	.01

Standard is STANDARD DS2.
30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
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.
- SAMPLE TYPE: CORE Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 12 1999 DATE REPORT MAILED: Aug 24/99 SIGNED BY: C. Leong .D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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GEOCHEMICAL ANAL .S CERTIFICATE

Phelps Dodge Corp. PROJECT 244 File # 9902940 Page 5

1409 - 409 Granville St., Vancouver BC V6T 1Z2 Submitted by: Greg Kulla

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	S %
517156/517157	.40	3.28	11.23	172.2	80	[illegible]	17.2	1677	4.20	9.0	.3	5.0	.7	97.6	.22	.19	.08	104	4.39	.097	5.1	10.7	1.29	406.9	.005	5	1.67	.049	.23	.5	.06	<5	<.1	<.02	5.7	.11
517158/517159	.33	3.55	3.45	141.2	15	6.2	17.8	1537	4.56	1.8	.4	3.2	.8	83.0	.18	.14	.04	111	4.38	.096	4.6	11.7	1.58	221.9	.027	5	1.85	.057	.23	.5	.06	<5	<.1	.02	6.4	<.01
517160/517161	.64	3.68	7.03	181.1	26	6.6	19.3	1676	4.96	1.8	.4	2.5	.8	87.9	.20	.12	.02	135	4.55	.088	4.6	12.5	1.76	223.1	.009	5	2.03	.060	.23	.3	.06	<5	<.1	.02	7.2	.01
517162/517163	2.51	32.75	6.91	177.3	110	6.3	17.8	1711	4.17	10.2	.2	10.3	.7	97.1	.22	.21	.03	99	4.69	.081	5.4	10.2	1.51	457.5	.003	5	1.98	.040	.25	.7	.07	<5	<.1	.02	6.5	.09
517164/517165	.58	[illegible]	1.82	191.1	73	6.2	15.5	1625	2.39	6.5	.3	10.2	.5	88.2	.15	.29	<.02	88	4.51	.082	5.4	11.2	1.35	280.7	.003	6	1.80	.043	.22	.9	.07	<5	.1	<.02	6.9	.05
517166/517167	.66	39.23	1.94	101.6	54	4.7	17.0	1615	2.96	6.4	.4	2.1	.3	96.5	.06	.35	.04	115	2.81	.097	2.0	9.0	1.69	616.2	.140	5	2.16	.161	.15	.5	.03	<5	.2	.02	6.8	.02
517168/517169	.78	100.22	2.30	102.3	171	6.4	17.6	1434	3.74	8.4	.5	2.5	.8	115.9	.06	.33	.03	141	2.63	.091	2.2	9.9	1.64	884.5	.171	4	2.34	.165	.13	.9	.02	<5	.2	.04	7.5	.03
517170/517171	.57	37.47	2.05	111.1	57	6.6	17.9	1520	4.03	5.4	.3	1.9	.7	100.3	.05	.37	.03	126	2.75	.097	2.3	12.9	1.71	343.1	.088	3	2.01	.095	.11	.6	.02	<5	.3	.03	7.3	.02
517172/517173	.63	50.08	2.04	106.7	65	5.5	18.1	1391	4.24	6.4	.4	2.1	.7	114.5	.05	.50	.04	124	2.94	.092	2.7	8.8	1.68	204.7	.070	5	2.07	.073	.11	.3	.02	<5	.1	.04	7.2	<.01
517174/517175	.59	58.04	1.30	98.1	60	5.7	17.0	1255	4.16	5.8	.4	2.0	.7	126.4	.05	.47	.18	128	2.69	.084	2.4	10.8	1.63	501.6	.106	4	2.08	.094	.12	.4	.04	<5	.3	.04	7.1	.01
517176/517177	.68	69.29	1.52	95.1	52	6.0	17.9	1181	4.02	5.9	.5	2.1	.8	120.7	.05	.37	.04	132	2.59	.061	1.9	11.8	1.61	918.5	.146	5	2.25	.167	.13	.5	.03	<5	.2	.03	7.1	.01
517178/517179	.50	68.17	1.54	95.1	14	5.5	17.8	1186	4.21	5.6	.4	2.3	.7	117.1	.04	.31	.03	124	2.86	.084	2.1	10.0	1.66	589.0	.110	4	2.05	.112	.13	.5	.03	<5	.2	.03	7.3	.02
517180/517181	.74	101.94	1.70	95.1	108	6.3	19.5	1245	4.74	5.8	.4	1.8	.7	99.0	.07	.39	.04	159	3.00	.089	2.3	13.2	1.64	353.8	.132	4	1.97	.083	.13	.4	.02	<5	.3	.03	7.5	.01
517182/517183	.56	206.14	1.54	95.0	209	5.9	19.2	1248	4.51	5.1	.4	4.5	.7	119.7	.05	.29	.03	148	2.90	.087	2.5	9.6	1.81	376.5	.146	3	2.06	.094	.11	.6	.02	<5	.4	.03	8.1	.01
517184/517185	.61	56.99	1.71	86.9	65	6.3	18.8	1270	4.60	4.9	.4	1.6	.7	115.9	.03	.32	.04	135	3.29	.083	2.7	12.2	1.76	189.3	.099	3	2.03	.088	.12	.5	.02	<5	.3	.03	7.9	.01
517186/517187	.43	43.59	1.82	87.4	54	5.4	18.6	1282	4.52	4.5	.4	1.7	.8	97.3	.07	.27	.03	131	2.96	.086	2.8	11.6	1.79	194.0	.101	3	2.04	.098	.12	.5	.02	<5	.2	.02	7.8	.01
517188/517189	.53	41.35	1.72	85.6	49	6.5	19.1	1337	4.66	4.9	.4	.6	.8	119.5	.06	.32	.28	144	3.04	.086	3.1	13.8	1.76	382.5	.120	3	1.99	.094	.13	.5	.05	<5	.3	.03	8.8	.02
517190/517191	.45	37.42	1.69	80.2	48	5.9	18.4	1335	4.39	4.2	.3	2.3	.7	91.4	.05	.40	.06	118	3.45	.089	3.3	10.2	1.69	737.3	.074	3	1.88	.074	.16	.3	.03	5	.3	.03	7.3	.02
517192/517193	.53	135.59	2.00	78.4	266	6.3	19.2	1235	4.49	4.5	.5	3.7	.6	88.1	.04	.41	.10	94	3.74	.096	4.5	8.8	1.69	220.5	.009	5	2.08	.056	.24	.2	.05	<5	.3	.04	7.6	.02
517194/517195	.53	59.52	2.07	63.3	112	6.1	17.7	1368	4.18	3.5	.4	2.5	.8	76.5	.04	.52	.09	86	4.33	.092	5.9	9.4	1.27	253.7	.012	6	1.78	.042	.29	.4	.06	<5	<.1	.03	5.9	.03
517196/517197	.46	54.35	1.33	73.5	65	6.2	18.3	1235	4.36	3.9	.4	1.9	.7	83.1	.05	.34	.04	93	3.58	.095	5.1	11.1	1.59	229.2	.014	4	1.83	.055	.21	.3	.04	<5	<.1	.03	7.1	.01
517198/517199	.37	53.22	1.66	84.3	63	5.3	18.0	1215	4.18	3.7	.4	2.2	.8	96.6	.03	.30	.04	95	2.97	.088	4.5	9.4	1.70	235.6	.013	3	1.95	.066	.20	<.2	.04	<5	.3	.02	7.4	.02
RE 517198/517199	.30	53.48	1.76	83.9	65	5.6	17.9	1253	4.14	3.9	.4	2.2	.8	91.9	.01	.29	.04	94	2.97	.090	4.6	8.7	1.71	236.8	.012	3	1.96	.067	.20	<.2	.03	<5	.3	.02	7.1	.02
517200/517201	.44	96.81	1.51	83.6	96	5.4	17.2	1027	4.29	1.6	.3	4.0	.3	97.2	.06	.28	.04	101	3.53	.093	4.8	10.2	1.59	434.9	.017	3	1.85	.074	.16	.2	.03	<5	<.1	.05	6.9	.02
517202/517203	.35	35.71	1.17	85.3	17	6.1	18.9	1310	4.45	3.9	.4	1.9	.8	99.2	.05	.30	.05	104	3.51	.087	5.5	11.5	1.68	207.3	.025	3	1.94	.088	.16	2	.03	<5	<.1	.03	7.3	.02
517204/517205	.39	67.41	1.50	93.8	73	6.8	20.3	1401	4.84	4.2	.3	1.2	.9	129.8	.04	.27	.06	116	4.01	.092	5.4	11.8	1.82	712.2	.018	4	2.06	.080	.19	<.2	.03	<5	<.1	.06	7.7	.02
517206/517207	.30	68.37	1.19	72.0	58	[illegible]	19.9	1274	4.27	3.5	.4	2.4	.8	121.7	.03	.17	.07	95	3.81	.087	5.9	9.3	1.60	728.3	.009	4	1.79	.063	.18	<.2	.03	<5	<.1	.05	6.9	.02
517208/517209	.28	60.01	1.49	65.4	65	5.6	19.7	1220	4.13	3.6	.3	2.8	.8	121.0	.05	.14	.07	89	3.82	.086	5.8	10.6	1.58	402.8	.010	3	1.80	.061	.15	<.2	.03	<5	.1	.05	6.8	.01
517210/517211	.32	47.21	1.06	67.8	52	7.4	21.9	1266	4.80	4.1	.3	2.2	.9	136.1	.05	.13	.06	120	3.97	.089	6.0	12.0	1.82	582.9	.010	3	1.97	.067	.17	<.2	.03	<5	<.1	.05	7.2	.03
517212/517213	1.04	124.47	6.10	51.4	509	[illegible]	21.3	1684	5.45	24.6	.3	54.5	.8	143.2	.06	.29	.10	90	2.50	.097	6.7	2.6	1.21	122.1	.004	5	1.19	.059	.23	.3	.04	<5	.2	.07	3.5	.22
517214/517215	1.52	307.52	3.53	75.0	192	5.1	20.2	2051	5.38	11.5	.3	6.3	.7	75.9	.09	.38	.21	76	1.48	.100	7.1	7.2	.52	552.3	.003	6	.74	.037	.23	1.1	.05	6	.4	.09	1.6	.10
517216/517217	2.31	127.90	4.54	99.3	288	5.6	26.6	2001	6.00	21.3	.5	5.0	.8	107.4	.12	.27	.22	89	2.14	.093	5.7	5.9	1.23	323.4	.002	5	.81	.052	.19	.5	.04	<5	<.1	.05	2.4	.33
517218/517219	.53	23.84	1.08	55.0	21	5.9	18.4	1229	4.50	1.4	.4	.5	.9	150.2	.05	.06	.10	87	2.65	.090	6.9	8.3	1.53	669.0	.004	4	1.49	.067	.17	.2	.03	<5	.1	.04	4.2	.22
517220/517221	1.08	80.10	1.45	61.0	44	6.5	20.8	1130	4.75	3.0	.3	<.2	.9	166.0	.06	.09	.15	95	2.69	.098	6.9	4.4	1.71	593.3	.005	3	1.52	.070	.15	.2	.03	<5	<.1	.06	5.1	.28
STANDARD DS2	14.41	124.51	30.66	171.6	248	38.5	13.2	863	3.36	67.4	22.3	211.7	3.7	30.9	11.12	10.98	11.68	86	.58	.086	14.0	188.6	.66	156.6	.121	4	1.91	.039	.17	7.7	1.95	262	2.8	1.98	6.5	.03

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
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.
- SAMPLE TYPE: P1 TO P4 CORE P5 TO P6 COMPOSITE   Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 18 1999   DATE REPORT MAILED: Aug 27/99   SIGNED BY. ....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	S %
517222/517223	78	46.17	93	60.6	33	7.1	22.1	1241	4.93	1.4	.2	1.3	.9	93.4	.05	.08	.29	107	3.97	.088	6.5	13.6	1.71	348.0	.030	3	2.25	.069	.18	.2	.03	<5	<.1	.07	8.5	56
517224/517225	.69	53.19	1.22	61.6	32	6.5	18.9	1164	4.33	1.5	.4	1	.9	90.0	.05	.08	.15	99	3.62	.086	6.3	11.1	1.56	462.7	.010	3	2.06	.067	.17	.2	.03	<5	.2	.03	8.2	.36
517226/517227	.76	57.79	1.29	59.3	33	5.9	17.9	1215	4.35	1.9	.3	.5	.8	95.5	.07	.07	.13	114	3.46	.083	5.9	11.6	1.61	481.0	.011	2	2.04	.063	.16	.3	.02	<5	.2	.05	8.5	.33
517228/517229	.69	63.88	1.45	55.1	32	5.7	19.7	1148	4.54	2.9	.3	.5	.8	84.4	.09	.09	.11	110	3.48	.084	5.7	13.3	1.58	225.5	.011	2	1.99	.062	.17	.2	.03	5	<.1	.02	8.7	.26
517230/517231	.84	66.41	1.86	60.9	35	6.2	20.1	1350	4.64	2.2	.3	.5	.8	93.8	.04	.08	.08	116	3.35	.094	6.0	9.3	1.70	492.5	.010	2	2.06	.065	.16	.3	.02	<5	.2	.02	8.8	.27
517232/517233	.67	116.93	3.17	67.4	162	6.4	17.9	1228	4.06	23.2	.8	145.3	.8	113.0	.19	.36	.08	101	3.74	.079	7.1	11.8	1.35	817.7	.006	3	1.77	.059	.15	.3	.07	23	<.1	.02	7.6	.32
517234/517235	.93	59.64	2.19	56.1	23	6.7	17.6	1207	4.06	4.9	.7	1.1	.9	93.7	.04	.19	.04	103	2.94	.082	6.7	11.5	1.63	169.2	.009	2	1.84	.067	.15	.4	.04	8	<.1	.03	7.9	.21
517236/517237	1.19	66.23	3.66	49.7	39	7.0	19.0	1107	4.31	7.0	.3	.9	1.0	81.3	.08	.20	.23	102	3.02	.083	6.1	15.7	2.41	199.6	.009	3	1.73	.047	.23	.6	.05	10	.2	.05	5.5	.05
517238/517239	1.95	60.93	2.88	65.9	65	7.1	18.3	1331	4.27	11.5	.3	4.3	.8	83.5	.08	.25	.07	76	3.07	.080	6.4	13.6	1.15	197.9	.005	4	1.83	.042	.24	1.4	.05	<5	.1	<.02	5.1	.08
517240/517241	1.21	53.20	2.53	97.8	72	6.7	19.1	1618	5.67	23.4	.3	3.5	.8	56.4	.07	.35	.05	70	1.06	.082	6.1	12.1	1.10	142.7	.006	4	1.83	.042	.24	1.4	.05	<5	.1	<.02	5.1	.08
517242/517243	.59	11.15	2.51	49.1	34	5.6	15.6	906	3.47	10.6	.3	2.1	1.0	87.7	.03	.24	.03	68	1.52	.090	6.6	9.0	1.00	183.5	.004	3	1.44	.058	.21	.6	.06	<5	<.1	.02	4.6	.02
517244/517245	.51	8.50	1.97	46.8	15	4.8	13.1	1179	2.98	7.6	.2	4.0	1.0	86.9	.01	.39	.03	49	2.87	.073	6.1	9.4	.93	1143.7	.005	3	1.35	.058	.20	.7	.04	<5	.1	<.02	5.9	.03
517246/517247	.70	13.77	1.92	58.3	27	5.0	12.6	1146	2.92	7.6	.2	1.2	.9	80.7	.01	.09	.28	47	2.93	.075	5.8	5.3	.84	722.5	.004	3	1.25	.055	.20	.6	.06	<5	.2	<.02	5.4	.02
517248/517249	1.33	85.81	2.84	46.2	78	4.3	13.8	891	3.08	9.0	.2	1.7	.9	70.8	.04	.23	.13	51	1.89	.079	5.8	7.0	.81	358.6	.005	3	1.35	.067	.19	1.0	.04	<5	.2	.14	5.4	.09
517250/517251	1.10	35.12	1.68	53.3	22	8.6	12.2	1029	3.12	5.9	.2	.5	.9	69.8	.04	.23	.04	51	2.21	.075	5.7	7.9	1.16	707.4	.006	2	1.61	.069	.16	.6	.03	<5	.1	.04	7.1	.08
RE 517250/517251	1.15	36.11	2.09	54.8	26	4.8	12.7	1044	3.17	5.9	.2	<.2	.8	70.0	.06	.23	.03	51	2.23	.075	5.9	7.5	1.20	719.6	.006	3	1.65	.070	.16	.6	.03	<5	.2	.03	7.4	.10
517252/517253	1.02	58.82	2.10	42.0	49	4.2	12.0	913	3.05	6.8	.2	9	.8	66.2	.06	.32	.04	43	2.55	.073	5.7	9.0	.98	451.7	.006	3	1.50	.068	.18	.8	.03	<5	.1	.05	6.4	.12
517254/517255	1.25	54.01	1.83	38.9	41	4.1	12.0	829	2.94	6.5	.2	.7	.8	63.6	.06	.29	.05	57	2.81	.072	5.1	7.0	.92	314.4	.006	2	1.43	.063	.17	.4	.03	<5	.1	.04	5.7	.21
517256/517257	1.17	19.99	2.75	44.8	66	4.6	14.1	789	3.28	6.6	.2	4.0	9	74.4	.12	.22	.05	71	2.79	.078	5.7	5.5	1.07	137.3	.005	2	1.57	.069	.16	.7	.03	<5	.1	.12	6.5	.46
517258/517259	1.36	64.25	4.58	60.8	71	5.8	13.4	932	3.57	6.1	.3	1.9	1.0	74.1	.07	.18	.04	64	2.25	.080	6.4	9.7	1.35	282.7	.006	3	1.79	.073	.13	.6	.03	5	.2	.07	8.0	.33
517260/517261	.98	73.34	4.51	70.1	72	5.1	14.2	839	3.32	7.4	.5	2.3	.9	67.5	.08	.18	.05	62	1.93	.081	6.2	5.7	.92	234.5	.005	3	1.32	.062	.14	1.0	.03	<5	.2	.14	5.6	.76
517262/517263	1.19	54.51	4.68	59.4	100	5.2	16.6	839	3.69	9.4	.3	3.1	.9	71.9	.08	.12	.06	75	2.49	.079	6.4	8.4	1.09	182.3	.005	3	1.47	.066	.13	1.0	.03	<5	<.1	.30	6.5	1.07
STANDARD DS2	14.07	135.97	31.21	174.6	240	39.0	13.8	865	3.34	67.0	23.5	212.2	3.9	31.5	13.17	10.55	11.41	85	.57	.088	14.9	181.5	.64	151.9	.118	4	1.88	.039	.17	8.0	1.97	249	2.6	1.98	6.6	.03

Sample Type: COMPOSITE. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data 4 FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604) -1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Phelps Dodge Corp. PROJECT 244 File # 9903018 Page 4

1409 - 409 Granville St., Vancouver BC V6T 1T2 Submitted by: Greg Kulla

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	S %
517264/517265	.63	3.32	2.87	62.0	151	14.6	23.2	779	3.79	7.7	.4	8.4	.7	60.4	.06	4.58	.08	103	1.28	.088	2.1	12.1	2.74	42.6	.118	6	2.43	.037	.02	.7	<.02	6	.1	.02	8.2	<.01
517266/517267	.75	3.92	2.30	51.7	49	15.0	25.7	824	3.39	9.5	.6	3.5	.7	76.8	.04	3.85	.05	100	1.63	.089	2.1	16.2	2.48	50.1	.122	6	2.17	.048	.02	.9	<.02	<5	.2	.03	7.6	<.01
517268/517269	.83	4.89	2.29	59.8	60	16.1	29.0	878	3.74	7.6	.5	5.2	.7	65.4	.06	3.78	.05	105	1.12	.090	1.9	15.7	2.67	74.1	.140	6	2.23	.057	.02	.9	<.02	<5	.2	.02	7.5	<.01
517270/517271	.79	5.55	2.26	58.6	47	13.4	26.5	860	3.31	10.4	.4	4.9	.6	68.0	.04	3.94	.03	92	1.04	.088	1.7	14.4	2.54	54.1	.155	6	2.16	.064	.02	1.2	<.02	<5	.2	.02	7.3	<.01
517272/517273	.76	4.49	2.05	56.3	27	12.2	24.6	851	3.26	9.3	.4	6.1	.6	65.8	.03	3.32	.03	92	1.03	.082	1.7	13.4	2.35	81.6	.142	6	2.07	.058	.02	1.1	<.02	<5	.3	.03	7.1	<.01
517274/517275	.59	48.53	11.01	49.1	80	11.5	19.3	842	4.38	9.4	.4	4.7	.7	81.7	.43	2.89	.23	109	1.31	.080	2.1	13.3	2.06	105.6	.132	6	2.31	.030	.05	.8	<.02	<5	.1	.11	8.1	<.01
517276/517277	.69	4.69	2.14	52.3	25	12.8	22.9	819	3.18	8.5	.4	4.4	.7	77.8	.03	2.62	.04	87	1.10	.084	1.7	12.4	2.52	54.0	.165	6	2.30	.076	.02	.9	<.02	<5	.1	.03	7.5	<.01
517278/517279	.66	5.46	2.18	65.2	28	14.1	29.7	941	3.75	8.7	.4	3.2	.7	70.3	.05	2.23	.03	104	1.08	.085	1.8	13.4	2.80	62.8	.172	6	2.32	.061	.02	1.0	<.02	<5	.1	.02	8.0	<.01
517280/517281	.75	3.76	2.05	60.6	24	13.0	26.4	859	3.55	7.6	.4	4.1	.7	69.6	.03	2.50	.02	105	.98	.080	1.8	12.1	2.62	89.1	.147	5	2.19	.059	.03	.9	<.02	<5	.1	.03	7.7	<.01
517282/517283	.66	4.81	2.12	57.5	17	13.4	25.1	816	2.85	8.9	.3	3.5	.7	84.8	.02	2.02	.03	98	1.18	.082	1.8	11.7	2.47	92.2	.132	7	2.15	.055	.02	1.1	<.02	<5	.1	.03	7.3	<.01
517284/517285	.71	3.48	2.87	62.5	13	13.6	26.9	984	4.33	11.7	.6	3.8	.9	54.8	.04	2.12	.10	165	1.90	.080	2.5	12.3	2.20	151.2	.191	9	1.87	.065	.06	1.5	.03	<5	.2	.03	8.3	<.01
517286/517287	.67	3.35	2.95	54.4	16	12.7	23.5	935	4.29	12.8	.5	5.0	1.0	62.7	.04	2.25	.05	144	2.12	.079	2.3	14.2	2.01	124.2	.195	7	1.71	.047	.06	1.7	.02	<5	.2	.03	8.2	.01
517288/517289	.77	3.53	3.89	61.8	40	12.9	23.0	850	3.67	10.3	.4	3.3	.8	75.0	.10	1.98	.04	120	1.65	.079	2.0	9.5	2.04	124.7	.181	8	1.88	.051	.05	1.6	<.02	5	.1	.03	7.5	.01
517290/517291	.61	3.11	2.59	70.4	13	12.0	29.8	1029	4.14	7.4	.4	3.4	.8	63.8	.06	1.58	.03	126	1.69	.079	2.2	12.4	2.50	128.4	.163	7	2.15	.054	.04	1.0	<.02	<5	.2	.03	9.0	<.01
517292/517293	.66	2.78	1.82	64.8	21	13.7	28.9	968	3.82	6.2	.3	5.1	.7	69.4	.02	1.69	.04	110	1.16	.083	1.8	12.3	2.73	114.4	.148	5	2.42	.074	.04	3.1	<.02	<5	.1	.03	8.2	<.01
517294/517295	.55	8.43	2.37	71.4	25	12.8	28.6	1079	4.03	6.8	.4	2.2	.8	63.0	.07	1.37	.05	135	1.24	.080	1.9	11.2	2.72	141.4	.150	5	2.43	.083	.05	.9	<.02	<5	.3	.04	8.3	<.01
517296/517297	.84	3.85	2.74	71.7	19	13.8	26.0	1068	3.78	7.9	.4	4.5	.8	78.6	.02	1.66	.17	161	1.61	.083	2.1	13.5	2.38	135.4	.205	8	2.24	.097	.04	1.4	.04	<5	.2	.03	8.3	<.01
517298/517299	.68	4.99	2.75	76.0	13	12.0	26.2	1065	4.15	7.6	.4	3.1	.8	69.5	.03	1.19	.05	175	1.67	.078	2.2	10.0	2.33	163.6	.205	7	2.07	.103	.04	1.1	.02	<5	.4	.03	8.0	<.01
517300/517301	.92	5.32	2.90	69.4	9	11.3	24.0	1032	4.19	8.3	.5	3.6	.9	71.4	.04	1.17	.04	144	1.80	.078	2.4	13.0	2.23	171.9	.208	7	2.06	.114	.04	1.2	<.02	<5	.3	.04	8.1	<.01
517302/517303	.85	6.65	2.73	79.4	13	12.3	25.5	1042	4.15	9.7	.5	2.4	.8	68.8	.03	1.37	.03	181	1.64	.080	2.2	12.2	2.28	172.1	.254	7	2.06	.113	.04	1.3	.02	<5	.3	.03	7.9	.01
517304/517305	.99	166.29	11.05	68.1	120	11.3	22.8	895	3.27	8.0	.6	4.8	.8	81.2	.07	1.12	.03	113	1.37	.078	1.8	11.2	2.21	152.8	.242	8	2.13	.093	.04	1.0	<.02	<5	.4	.04	7.1	.02
517306/517307	.87	266.28	2.55	67.1	195	11.6	24.2	846	3.32	7.0	.6	3.1	.8	87.6	.04	1.22	.02	108	1.27	.080	1.8	11.1	2.25	144.1	.256	8	2.15	.092	.02	1.3	<.02	<5	.2	.03	6.8	.01
RE 517306/517307	.87	258.15	2.48	63.8	193	11.0	24.2	819	3.22	7.1	.6	3.7	.8	87.5	.05	1.19	.02	104	1.21	.077	1.7	12.2	2.25	143.5	.254	8	2.16	.092	.03	1.3	<.02	5	.2	.03	6.7	.01
517308/517309	.89	206.31	2.86	71.2	152	12.7	25.8	831	3.37	6.0	.6	3.3	.8	67.8	.05	.87	.03	104	1.00	.080	1.7	14.7	2.51	202.2	.282	7	2.25	.115	.03	1.3	<.02	<5	.1	.04	7.0	.01
517310/517311	.84	61.00	2.47	57.3	42	11.6	22.5	729	3.01	5.5	.6	.8	.8	72.0	.03	.81	.02	98	1.06	.076	1.8	13.4	2.16	318.9	.263	6	2.07	.093	.04	1.3	<.02	<5	.4	.03	6.2	<.01
517312/517313	.74	124.26	2.54	58.8	94	11.9	24.8	761	3.22	5.3	.6	2.1	.8	74.5	.05	.94	.02	107	1.09	.076	1.9	14.8	2.33	225.4	.261	6	2.13	.080	.03	1.2	<.02	7	.9	.04	6.6	<.01
517314/517315	.95	314.23	2.05	63.6	244	12.6	25.9	788	3.33	4.4	.6	8.8	.7	59.7	.04	.74	.03	101	.96	.077	1.7	13.7	2.50	167.3	.262	5	2.11	.076	.03	1.0	<.02	6	.3	.05	6.7	.01
517316/517317	.85	312.87	1.91	57.6	259	11.1	23.8	733	3.07	4.5	.6	6.6	.7	60.3	.03	.97	.02	91	.99	.077	1.7	11.8	2.32	180.7	.266	5	2.05	.088	.03	1.2	<.02	<5	.2	.04	6.5	.02
517318/517319	.80	167.96	1.76	59.1	143	12.2	25.0	763	3.29	5.0	.6	3.5	.8	62.3	.02	.73	.02	100	.94	.078	1.8	12.1	2.52	156.2	.272	5	2.09	.057	.03	1.2	<.02	<5	.3	.03	6.7	<.01
517320/517321	.67	22.10	2.38	51.5	23	11.3	22.4	682	2.88	5.3	.5	1.7	.9	74.2	.03	.96	.02	91	1.08	.076	1.8	12.0	2.21	174.6	.276	5	2.04	.062	.04	1.5	<.02	<5	.5	.04	6.0	.01
517322/517323	.88	9.99	2.41	57.2	19	13.7	26.6	731	3.22	5.0	.4	2.5	.7	64.3	.03	.82	.02	99	1.00	.076	1.6	15.8	2.49	148.7	.260	5	2.07	.076	.03	1.2	<.02	5	.6	.04	5.8	<.01
517324/517325	.67	9.86	2.12	53.6	18	12.3	25.3	725	3.03	5.0	.5	1.6	.7	69.2	.03	1.07	.02	94	1.11	.080	1.7	9.0	2.52	142.4	.258	5	2.08	.054	.03	1.2	<.02	<5	.3	.04	6.6	.01
517326/517327	.81	10.77	1.80	59.8	13	13.2	26.4	791	3.43	5.0	.5	1.7	.7	67.6	.03	.68	.02	107	1.09	.078	1.7	13.3	2.58	177.2	.252	6	2.12	.068	.03	.8	<.02	<5	.3	.03	6.6	<.01
517328/517329	.73	23.40	3.06	64.1	73	12.3	27.6	894	3.68	5.7	.6	3.7	.7	68.3	.08	.80	.02	104	1.16	.080	1.8	12.5	2.58	164.2	.209	7	2.05	.062	.02	.6	<.02	<5	.8	.07	7.0	.01
STANDARD DS2	14.15	129.21	31.22	169.3	245	37.0	12.9	825	3.19	64.2	21.8	207.8	3.5	33.3	11.84	10.29	11.10	82	.55	.082	13.0	172.7	.62	146.1	.116	2	1.80	.033	.17	7.3	1.71	258	2.8	1.91	6.2	.02

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
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.
- SAMPLE TYPE: P1 TO P3 CORE P4 TO P5 COMPOSITE Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 23 1999 DATE REPORT MAILED: Sept 1/99 SIGNED BY: D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	S %
517330/517331	.77	11.42	3.01	62.7	71	12.9	26.6	893	3.59	5.9	.6	4.9	.8	77.9	.08	.68	.07	112	1.38	.078	2.0	10.8	2.46	78.0	.186	9	1.87	.045	.03	.3	<.02	<5	1.1	.08	6.9	<.01
517332/517333	.60	6.53	2.77	62.8	62	11.0	25.0	818	2.93	8.4	.9	5.7	.9	94.9	.09	.93	.04	134	1.42	.077	2.3	11.4	2.41	66.6	.148	10	1.84	.038	.03	.3	<.02	<5	.4	.04	7.0	<.01
517334/517335	.67	2.86	4.54	55.5	24	11.2	21.7	645	4.38	18.6	1.7	2.0	1.1	66.5	.03	1.85	.05	113	1.05	.075	2.6	10.6	1.86	126.8	.262	9	1.36	.037	.06	.5	<.02	<5	.2	.04	6.6	<.01
517336/517337	.61	3.39	4.02	67.9	25	13.3	27.0	767	4.81	19.2	1.9	1.5	1.2	68.9	.03	1.40	.04	155	1.02	.085	2.7	13.8	2.50	143.7	.334	9	1.71	.049	.05	.7	<.02	<5	.2	.02	7.6	<.01
517338/517339	.72	2.97	3.94	70.0	19	13.1	27.7	785	4.40	18.6	1.0	.7	1.0	59.6	.04	1.08	.12	159	1.13	.083	2.5	13.6	2.48	119.9	.374	8	1.64	.047	.05	1.2	.02	<5	.1	.04	7.3	<.01
517340/517341	.59	2.85	4.15	66.8	17	11.8	26.7	819	4.47	18.3	.8	.7	1.0	59.8	.02	1.01	.05	168	1.42	.077	2.4	13.0	2.22	113.6	.386	8	1.50	.055	.05	1.6	<.02	<5	.1	.03	6.9	<.01
517342	.61	3.78	4.37	69.2	19	11.9	25.0	818	4.58	21.5	.8	<.2	1.1	62.5	.03	.80	.17	181	1.35	.081	2.3	9.9	2.30	104.3	.415	7	1.52	.056	.05	1.5	.03	<5	.2	.03	7.2	<.01
RE 517342	.64	4.13	4.46	70.0	24	12.1	25.9	817	4.59	20.8	.7	<.2	1.0	60.7	.04	.88	.06	180	1.34	.081	2.4	11.3	2.31	101.6	.408	7	1.52	.053	.05	1.5	<.02	<5	.1	.04	7.2	<.01
STANDARD OS2	14.00	132.59	33.15	170.1	258	37.9	13.3	845	3.23	65.7	20.6	202.2	3.3	30.9	11.60	10.67	11.09	83	.56	.085	13.4	180.0	.64	150.9	.120	2	1.76	.034	.17	7.2	1.95	272	2.8	1.90	6.4	.02

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

APPENDIX II

Drill Hole Logs

Phelps Dodge Corporation of Canada Ltd.

Woodjam Property - Drill Hole Record

Drill Hole Number: 99-20
Location: 100+05N, 100+15E
Azimuth: 0
Dip: -90
Purpose: To test the depth extent of mineralization documented in holes 74-01 and 74-02.

Length (m): 200.3
Core Size: NQ
Dip Test: Yes
Started: August 4, 2000
Completed: August 7, 2000

Elevation: GPS 787 m
Logged: Aug. 4-7, 99
Logged by: Kulla

Drill Hole: 99-20

from	to	Rock Description	from	to	Sample	qtz	cal	ept	mgt	hmt	cpy	py	Au (ppb)	Cu (ppm)
0	2.4	*Casing*												
2.4	31.5	*Volcanic breccia*	2.4	4.0	517001	1	1	1	2	0	1	0	1072	1490
		10 to 15%, 2-5cm rounded feldspar porphyry clasts in a feldspar phyric groundmass. Irregular quartz and calcite vienlets throughout. Chalcopyrite content is from trace to 1% and occurs as irregular stringers and finely disseminated wihin veins. 1 to 3% magnetite disseminated as 1mm blebs throughout. Mottled pale green and pink-brown.	4.0	6.0	517002	1	1	1	2	0	1	0	783	1039
			6.0	8.0	517003	1	1	1	2	0	1	0	882	1348
			8.0	10.0	517004	1	1	1	2	0	1	0	764	1047
			10.0	12.0	517005	1	1	1	2	0	1	0	912	1239
			12.0	14.0	517006	1	1	1	2	0	1	0	985	1306
			14.0	16.0	517007	1	1	1	2	0	1	0	1059	1451
			16.0	18.0	517008	1	1	1	2	0	1	0	646	917
			18.0	20.0	517009	1	1	1	2	0	1	0	750	1089
			20.0	22.0	517010	1	1	1	2	0	1	0	1650	1722
			22.0	24.0	517011	1	1	1	2	0	1	0	1024	1350
			24.0	26.0	517012	1	1	1	2	0	1	0	1862	1642
			26.0	28.0	517013	1	1	1	2	0	1	0	808	1198
			28.0	30.0	517014	1	1	1	2	0	1	0	870	1315
			30.0	32.0	517015	1	1	0	2	0	1	0	1213	1738
31.5	44.8	*Volcaniclastic*	32.0	34.0	517016	1	2	0	2	0	1	0	1031	1761
		Gray, fine grained, massive, locally bedded. Irregular quartz and calcite veinlets throughout. Quartz veins have narrow pink alteration envelopes. Trace chalcopyrite to 1% occurring as irregular stringers and finely disseminated throughout veins. Chalcopyrite is medial in quartz veins.1 to 3% magnetite disseminated as 1mm blebs throughout.	34.0	36.0	517017	1	2	0	2	0	1	0	923	1507
			36.0	38.0	517018	1	2	0	2	0	1	0	643	1024
			38.0	40.0	517019	1	2	0	2	0	1	0	716	1195
			40.0	42.0	517020	1	2	0	2	0	1	0	680	1187
			42.0	44.0	517021	1	2	0	2	0	1	0	1407	1313
44.8	51.9	*Polymictic volcanic breccia*	44.0	46.0	517022	1	1	2	2	0	1	0	782	1517
		10 to 15%, 2-5cm sub angular fine grained feldspar phyric clasts in a feldspar phyric groundmass. Irregular quartz and calcite vienlets throughout. Trace disseminated chalcopyrite and locally medial in quartz veins. 1% magnetite disseminated as 1mm blebs throughout.	46.0	48.0	517023	1	1	1	2	0	1	0	562	924
			48.0	50.0	517024	1	1	1	2	0	1	0	726	1340
			50.0	52.0	517025	1	1	1	2	0	1	0	835	1573
			52.0	54.0	517026	1	2	1	0	2	1	0	906	1604
51.9	92	*Sericitic volcanic breccia/volcanic grit*	54.0	56.0	517027	1	2	0	0	2	1	0	842	1355

Drill Hole: 99-20

from	to	Rock Description	from	to	Sample	qtz	cal	ept	mgt	hmt	cpy	py	Au (ppb)	Cu (ppm)
		Pale green-grey and bleached. Textures variably destroyed due to sericitic	56.0	58.0	517028	1	2	0	0	2	1	0	763	1297
		alteration. Bedded to fragmental. Abundant sericite on fracture surfaces.	58.0	60.0	517029	1	2	0	0	2	1	0	806	1254
		Chalcopyrite content is trace to 0.5% and medial within quartz veinlets.	60.0	62.0	517030	2	2	0	0	2	1	0	930	1805
		Disseminated hematite after magnetite 1 to 3%	62.0	64.0	517031	2	2	0	0	2	1	0	644	1032
			64.0	66.0	517032	1	2	0	0	2	1	0	586	1162
			66.0	68.0	517033	1	2	0	0	2	1	0	742	1315
			68.0	70.0	517034	2	1	0	0	2	1	0	655	1336
			70.0	72.0	517035	2	1	0	0	2	1	0	578	1136
			72.0	74.0	517036	1	1	0	0	1	1	0	587	1017
			74.0	76.0	517037	1	1	0	0	1	1	0	721	1150
			76.0	78.0	517038	1	1	0	0	1	1	0	603	1064
			78.0	80.0	517039	1	1	0	0	2	1	0	521	784
			80.0	82.0	517040	1	1	0	0	2	1	0	446	1032
			82.0	84.0	517041	1	1	0	0	2	1	0	675	1217
			84.0	86.0	517042	1	1	0	0	2	1	0	401	774
			86.0	88.0	517043	1	1	0	0	2	1	0	517	953
			88.0	90.0	517044	1	1	1	0	2	0	0	549	953
			90.0	92.0	517045	1	1	0	0	2	1	0	554	1045
92	*106.2*	*Intense sericitic volcanic*	92.0	94.0	517046	1	1	0	0	2	1	0	602	933
		textures completely destroyed. Massive waxy green.	94.0	96.0	517047	1	1	0	0	2	1	0	428	685
			96.0	98.0	517048	0	1	0	0	1	0	0	440	744
			98.0	100.0	517049	0	1	0	0	2	0	0	330	784
			100.0	102.0	517050	0	1	0	0	2	0	0	526	1362
			102.0	104.0	517051	0	1	0	0	2	0	0	543	1390
			104.0	106.0	517052	0	1	0	0	2	0	0	346	911
106.2	*122*	*Sericitic volcanic breccia/volcanic grit*	106.0	108.0	517053	0	1	0	1	2	1	0	929	1496
		Pale green-grey, bleached, bedded, and fragmental. Textures variably	108.0	110.0	517054	0	1	0	1	1	0	0	567	1251
		destroyed due to sericitic alteration. Sericite on fracture surfaces.	110.0	112.0	517055	0	1	0	0	2	0	0	832	1126
		Chalcopyrite is trace to 0.5% and medial in quartz veinlets. Disseminated	112.0	114.0	517056	1	1	0	0	2	0	0	522	795
		magnetite with hematitic rims 1 to 3%. Red hematitic selvage on some	114.0	116.0	517057	1	1	0	1	1	1	0	430	887
		quartz veins. Local disseminated pyrite.	116.0	118.0	517058	1	1	0	1	0	1	0	476	917
			118.0	120.0	517059	1	1	0	1	1	1	0	495	819
			120.0	122.0	517060	1	1	0	2	1	1	0	301	600
122	*133*	*Volcanic breccia*	122.0	124.0	517061	1	1	0	2	1	1	0	483	904
		10 to 15%, 2-5cm rounded feldspar porphyry clasts in a feldspar phyric,	124.0	126.0	517062	1	1	0	2	1	1	0	462	877
		gray glassy groundmass. Irregular quartz and calcite vienlets throughout.	126.0	128.0	517063	1	1	0	2	1	1	0	460	810
		Trace chalcopyrite as irregular stringers and finely disseminated throughout.	128.0	130.0	517064	1	0	0	2	1	1	0	446	811

Drill Hole: 99-20

from	to	Rock Description	from	to	Sample	qtz	cal	ept	mgt	hmt	cpy	py	Au (ppb)	Cu (ppm)
		1 to 3% magnetite with hematitic rims disseminated as 1mm blebs	130.0	132.0	517065	1	1	0	2	1	1	0	652	1015
		throughout. Mottled pale green and pink-brown.	132.0	134.0	517066	1	1	0	2	0	1	0	737	1256
133	200.3	*Monzonite*	134.0	136.0	517067	1	1	0	2	0	1	0	709	1052
		Green-gray, medium grained, feldspar and hornblende bearing. Generally	136.0	138.0	517068	1	1	0	2	0	1	0	565	1007
		massive with local feldspar rich clasts and local grit like textures. Fine	138.0	140.0	517069	1	1	1	2	0	1	0	779	1485
		grained pyrite, magnetite(hematitic rims) disseminated throughout. Patches	140.0	142.0	517070	1	1	0	2	1	1	0	693	1088
		of wispy, fine grained pale green epidote? and pink-brown potassic feldspar	142.0	144.0	517071	1	1	0	2	0	1	0	781	1184
			144.0	146.0	517072	1	1	1	0	1	1	0	771	1242
			146.0	148.0	517073	0	1	1	0	1	1	0	452	812
			148.0	150.0	517074	0	1	1	0	1	0	0	346	832
			150.0	152.0	517075	0	1	1	0	1	0	0	360	703
			152.0	154.0	517076	0	1	1	0	1	0	0	338	689
			154.0	156.0	517077	0	1	1	0	1	0	0	414	817
			156.0	158.0	517078	0	1	1	1	1	0	0	381	617
			158.0	160.0	517079	0	1	0	1	1	0	0	326	708
			160.0	162.0	517080	0	1	0	1	1	0	0	347	783
			162.0	164.0	517081	0	1	0	1	0	0	0	378	734
			164.0	166.0	517082	0	1	0	2	0	0	0	366	684
			166.0	168.0	517083	0	1	1	1	0	0	0	357	758
			168.0	170.0	517084	0	1	0	0	0	0	0	225	447
			170.0	172.0	517085	0	2	0	1	1	0	0	1123	1389
			172.0	174.0	517086	0	1	0	1	0	0	0	120	203
			174.0	176.0	517087	0	1	0	1	1	0	0	69	110
			176.0	178.0	517088	0	1	0	1	1	0	0	98	158
			178.0	180.0	517089	0	1	0	1	1	0	0	65	83
			180.0	182.0	517090	0	1	0	1	0	0	0	35	69
			182.0	184.0	517091	0	1	0	1	0	0	0	16	66
			184.0	186.0	517092	0	1	0	1	0	0	0	17	57
			186.0	188.0	517093	0	1	0	1	0	0	0	26	60
			188.0	190.0	517094	0	1	0	1	0	0	0	18	43
			190.0	192.0	517095	0	1	0	1	0	0	0	27	44
			192.0	194.0	517096	0	1	0	1	0	0	0	56	58
			194.0	196.0	517097	0	1	0	1	0	0	0	58	98
			196.0	198.0	517098	0	1	0	1	0	0	0	115	94
			198.0	200.3	517099	0	1	0	1	0	0	0	40	40

Phelps Dodge Corporation of Canada Ltd.

Woodjam Property - Drill Hole Record

Drill Hole Number: 99-21
Location: 97+95N, 100+60E
Azimuth: 123
Dip: -72
Purpose: To test magnetic high delineated by ground mag survey.

Length (m): 160.6
Core Size: NQ
Dip Test: Yes
Started: August 8, 1999
Completed: August 10, 1999

Elevation:
Logged: Aug. 8-10, 99
Logged by: Kulla

(even numbered samples combined with lower odd numbered sample for geochemical analysis)

Drill Hole: 99-21

from	to	Rock Description	from	to	Sample	qtz	cal	ept	mgt	hmt	cpy	py	Au (ppb)	Cu (ppm)
0	25.9	*Casing*												
25.9	97.2	*Monzonite*	25.9	28.0	517100	0	1	0	2	0	0	0	5	5
			28.0	30.0	517101	0	1	0	2	0	0	0		
		Gray-green, medium to fine grained, with 20-40% feldspars, 5-15% green	30.0	32.0	517102	0	1	0	2	1	0	0	6	16
		amphibole, euhedral to anhedral; 1-3% disseminated magnetite blebs, 1 mm	32.0	34.0	517103	0	1	0	2	1	0	0		
		in diameter;green glassy groundmass; massive with minor, angular, feldspar	34.0	36.0	517104	0	1	0	2	1	0	0	6	18
		porphyry clasts 1-3 cm in size; Fragments have gray-pink glassy matrices;	36.0	38.0	517105	0	1	0	2	0	0	1		
		joints are rough, planar to irregular, with calcareous, clay rich infillings; minor	38.0	40.0	517106	0	1	0	2	0	0	1	10	39
		pyrite on some joint surfaces. Unit becomes less homogenous after 52 m	40.0	42.0	517107	0	1	0	2	0	0	0		
		with an increasing clast component from 5-10%; clasts are generally 0.5-5cm	42.0	44.0	517108	0	1	0	2	0	0	0	15	32
		in size at this point and the matrix is equigranular, fine grained and either	44.0	46.0	517109	0	1	0	2	0	0	0		
		contains feldspar crystals or is aphyric.	46.0	48.0	517110	0	1	0	2	0	0	0	16	6
			48.0	50.0	517111	0	1	0	2	0	0	0		
			50.0	52.0	517112	0	1	0	2	0	0	0	7	45
			52.0	54.0	517113	0	1	0	2	0	0	0		
			54.0	56.0	517114	0	1	0	2	0	0	0	1	38
			56.0	58.0	517115	0	1	0	2	0	0	0		
			58.0	60.0	517116	0	1	0	2	0	0	0	1	4
			60.0	62.0	517117	0	1	0	2	0	0	0		
			62.0	64.0	517118	0	1	0	2	0	0	0	3	5
			64.0	66.0	517119	0	1	0	2	0	0	0		
			66.0	68.0	517120	0	1	0	2	0	0	0	3	16
			68.0	70.0	517121	0	1	0	2	0	0	0		
			70.0	72.0	517122	0	1	0	2	0	0	0	12	29
			72.0	74.0	517123	0	1	0	2	0	0	0		
			74.0	76.0	517124	0	1	0	2	0	0	0	10	18
			76.0	78.0	517125	0	1	0	2	0	0	0		
			78.0	80.0	517126	0	1	0	2	0	0	0	3	3

(even numbered samples combined with lower odd numbered sample for geochemical analysis)

Drill Hole: 99-21

from	to	Rock Description	from	to	Sample	qtz	cal	ept	mgt	hmt	cpy	py	Au (ppb)	Cu (ppm)
			80.0	82.0	517127	0	1	0	2	0	0	0		
			82.0	84.0	517128	0	1	0	2	0	0	0	3	4
			84.0	86.0	517129	0	1	0	2	0	0	0		
			86.0	88.0	517130	0	1	0	1	0	0	0	3	6
			88.0	90.0	517131	0	2	0	1	0	0	0		
			90.0	92.0	517132	0	2	0	1	0	0	0	6	20
			92.0	94.0	517133	0	2	0	2	0	0	0		
			94.0	97.2	517134	0	1	0	2	0	0	0	18	139
97.2	*160.6*	*Monzonite*	97.2	99.0	517135	0	1	0	2	0	0	0		
		Weakly sericitized?, moderately broken.	99.0	102.0	517136	0	1	0	2	0	0	0	2	58
		similar to previous unit but moderately to intensely broken with abundant	102.0	104.0	517137	0	1	0	2	0	0	1		
		calcareous/clay-rich gouge zones containing "milled" and angular fragments;	104.0	106.0	517138	0	1	0	2	0	0	0	5	54
		These gouge zones vary from thin surfaces to 3-10 cm wide and locally >1 m.	106.0	108.0	517139	0	1	0	2	0	0	0		
		This interval is gray-green and varies from medium grained, equigranular to	108.0	110.0	517140	0	1	0	2	0	0	1	1	50
		feldspar porphyritic to fine grained and grit like. 1-10 cm clasts with variable	110.0	112.0	517141	0	1	0	2	0	0	1		
		igneous textures can compose up to 10% of the rock and are present in all	112.0	114.0	517142	0	1	0	1	0	0	0	1	18
		phases. Magnetite varies from finely disseminated grains to 1 mm blebs and	114.0	116.0	517143	0	1	0	1	0	0	0		
		comprise up to 2 % of the rock. Fine grained pyrite is rare. Magnetite is	116.0	118.0	517144	0	1	0	1	1	0	0	3	4
		moderately hematized between 120-127 m. Minor amorphous gray-brown	118.0	120.0	517145	0	1	0	1	1	0	0		
		sericite zones occur below 116 m and are coincident with the presence of	120.0	122.0	517146	0	1	0	1	1	0	0	11	5
		hematite. A weak sericitic or possibly chloritic alteration is pervasive	122.0	124.0	517147	0	1	0	1	1	0	0		
		throughout and is more intense locally, enough to destroy primary textures.	124.0	126.0	517148	0	1	0	1	1	0	0	16	646
		154-160.6 is intrusion breccia with hematite on fractures with pink/orange	126.0	128.0	517149	0	1	0	1	0	0	0		
		feldspar porphyritic clasts and matirx. Drilling terminated due to tightening of	128.0	130.0	517150	0	1	0	1	0	0	0	44	125
		hole.	130.0	132.0	517151	0	1	0	1	0	0	0		
			132.0	134.0	517152	0	1	0	1	0	0	0	14	4
			134.0	136.0	517153	0	1	0	1	0	0	0		
			136.0	138.0	517154	0	1	0	1	1	0	0	1	173
			138.0	140.0	517155	0	1	0	1	0	0	0		
			140.0	142.0	517156	0	1	0	1	0	0	0	5	3
			142.0	144.0	517157	0	1	0	1	0	0	0		
			144.0	146.0	517158	0	1	0	1	0	0	0	3	4
			146.0	148.0	517159	0	1	0	1	0	0	0		
			148.0	150.0	517160	0	1	0	1	0	0	0	3	4
			150.0	152.0	517161	0	1	0	1	0	0	0		
			152.0	154.0	517162	0	1	0	1	0	0	0	10	33
			154.0	156.0	517163	0	1	0	1	0	0	0		

(even numbered samples combined with lower odd numbered sample for geochemical analysis) Drill Hole: 99-21

from	to	Rock Description	from	to	Sample	qtz	cal	ept	mgt	hmt	cpy	py	Au (ppb)	Cu (ppm)
			156.0	158.0	517164	0	1	0	1	1	0	0	10	8
			158.0	160.6	517165	0	1	0	1	1	0	0		

Phelps Dodge Corporation of Canada Ltd.

Woodjam Property - Drill Hole Record

Drill Hole Number: 99-22
Location:
Azimuth: 305
Dip: -72
Purpose: To test magnetic high delineated by ground mag survey.

Length (m): 227.4
Core Size: NQ
Dip Test: Yes
Started: August 11, 1999
Completed: August 14, 1999

Elevation:
Logged: Aug. 12-14, 99
Logged by: Kulla

(even numbered samples combined with lower odd numbered sample for geochemical analysis)

Drill Hole: 99-22

from	to	Rock Description	from	to	Sample	qtz	cal	ept	mgt	hmt	cpy	py	Au (ppb)	Cu (ppm)
0	31.1	*Casing*												
31.1	69	*Volcaniclastic Grit*	31.1	33.0	517166	0	1	0	0	2	0	0	2.1	39.23
		Gray-green, massive to weakly bedded (~50° to core axis), medium grained,	33.0	35.0	517167	0	1	0	0	2	0	0		
		"grit-like" texture with 0.1-1 mm angular crystal fragments of	35.0	37.0	517168	0	1	0	0	2	0	0	2.5	100.22
		feldspars>amphibole>quartz. Bedding is outlined by disseminated red-	37.0	39.0	517169	0	1	0	0	2	0	0		
		brown hematite along bedding planes. Hematite is also locally pervasive	39.0	41.0	517170	0	1	0	0	2	0	0	1.9	37.47
		and can occur as envelopes adjacent to joints and as spotty replacement of	41.0	43.0	517171	0	1	0	0	2	0	0		
		clasts. Volcanic clasts occur locally within this unit as do feldspar prophyry	43.0	45.0	517172	0	1	0	0	2	0	0	2.1	50.08
		flows which are intercalated with the grit. Calcite veins are widely spaced,	45.0	47.0	517173	0	1	0	0	1	0	0		
		occurring throughout. The unit is weakly to moderately magnetic. Magnetite	47.0	49.0	517174	0	1	0	0	1	0	0	2.0	58.07
		blebs are visible and occur within feldspar porphyry zones which increase in	49.0	51.0	517175	0	1	0	0	1	0	0		
		abundance with proximity to 69 m.	51.0	53.0	517176	0	1	0	0	1	0	0	2.1	69.29
			53.0	55.0	517177	0	1	0	0	1	0	0		
			55.0	57.0	517178	0	1	0	0	1	0	0	2.3	68.17
			57.0	59.0	517179	0	1	0	0	1	0	0		
			59.0	61.0	517180	0	1	0	0	1	0	0	1.8	101.94
			61.0	63.0	517181	0	1	0	0	1	0	0		
			63.0	65.0	517182	0	1	0	0	1	0	0	4.5	206.14
			65.0	67.0	517183	0	1	0	1	1	0	0		
			67.0	69.0	517184	0	1	0	1	1	0	0	1.6	56.99
69	97	*Volcanic Breccia*	69.0	71.0	517185	0	1	0	1	1	0	0		
			71.0	73.0	517186	0	1	0	1	1	0	0	1.7	43.59
		Gray-green, medium grained, equigranular monzonite to diorite matrix	73.0	75.0	517187	0	1	0	1	1	0	0		
		hosting rounded, 1-20 cm volcanic feldspar porphyry clasts with 5% dark	75.0	77.0	517188	0	1	0	1	1	0	0	0.6	41.35
		green amphibole and 20-40% feldspar phenocrysts. Moderately magnetic	77.0	79.0	517189	0	1	0	1	1	0	0		
		with trace to 1%, 1 mm magnetite blebs. Minor calcite on fractures and	79.0	81.0	517190	0	1	0	1	1	0	0	2.9	47.42
		weakly calcareous both matrix and clasts; probably an alteration product of	81.0	83.0	517191	0	1	0	1	1	0	0		
		the feldspars. Very fine grained brown alteration described as hematite in	83.0	85.0	517192	0	1	0	1	1	0	0	3.7	135.59

(even numbered samples combined with lower odd numbered sample for geochemical analysis) Drill Hole: 99-22

from	to	Rock Description	from	to	Sample	qtz	cal	ept	mgt	hmt	cpy	py	Au (ppb)	Cu (ppm)
		overlying unit may be biotite (i.e. potassic alteration) occurs throughout.	85.0	87.0	517193	0	1	0	1	1	0	0		
			87.0	89.0	517194	0	1	0	1	1	0	0	2.5	58.52
			89.0	91.0	517195	0	1	0	1	1	0	0		
			91.0	93.0	517196	0	1	0	1	1	0	0	1.9	54.35
			93.0	95.0	517197	0	1	0	1	1	0	0		
			95.0	97.0	517198	0	1	0	1	1	0	0	2.2	53.22
97	109	*Volcaniclastic Grit*	97.0	99.0	517199	0	1	0	1	1	0	0		
		Similar unit to 31.1 to 69 m. Dominantly fine to medium grained grit with	99.0	101.0	517200	0	1	0	1	1	0	0	4.0	96.81
		banding (bedding) at 50° to core axis and very fine grained red-brown	101.0	103.0	517201	0	1	0	1	1	0	0		
		alteration parallel to bedding, diffusing out from joints. Alteration may be	103.0	105.0	517202	0	1	0	1	1	0	0	1.9	39.71
		due to hematite or biotite. Unit is intercalated with feldspar porphyry flows	105.0	107.0	517203	0	1	0	1	1	0	0		
		and fragmental units. Non- to weakly magnetic with calcareous	107.0	109.0	517204	0	1	0	1	1	0	0	1.2	67.44
109	124	*Volcanic Fragmental*	109.0	111.0	517205	0	1	0	1	1	0	0		
			111.0	113.0	517206	0	1	0	1	1	0	0	3.4	68.37
		1-15 cm, rounded feldspar porphyry clasts occur within a feldspar rich,	113.0	115.0	517207	0	1	0	1	1	0	0		
		amphibole bearing volcanic matrix. Matrix has a pervasive red-brown colour	115.0	117.0	517208	0	1	0	1	1	0	0	2.8	60.01
		possibly due to biotite alteration or hematite. Weak to moderate magnetism	117.0	119.0	517209	0	1	0	1	1	0	0		
		with trace magnetite blebs with feldspar porphyry clasts. Weakly calcareous	119.0	121.0	517210	0	1	0	1	1	0	0	2.2	47.21
		groundmass and fracture surfaces. 118-123 m dominantly grit.	121.0	123.0	517211	0	1	0	1	1	0	0		
124	142	*Sericitic Volcanic Breccia*	123.0	125.0	517212	0	0	0	0	1	0	0	54.5	124.47
		Intensely bleached/sericitic matrix with pale green 1-20 cm clasts and minor	125.0	127.0	517213	0	0	0	0	1	0	0		
		intermixed grit units. Apparent bedding is 50° to core axis. Clasts are	127.0	129.0	517214	0	0	0	0	1	0	0	6.0	307.52
		rounded to angular and intensely sericitized. Matrix is more competent and	129.0	131.0	517215	0	0	0	0	1	0	0		
		red-brown in colour. No magnetite and generally non calcareous, except	131.0	133.0	517216	0	0	0	0	1	0	0	5.0	127.90
		along fractures. Fractures are perpedicular to the core axis and have pale	133.0	135.0	517217	0	0	0	0	1	0	1		
		brownish orange alteration envelopes (limonitic). Hematite comprising 1%	135.0	137.0	517218	0	0	0	0	1	0	1	0.5	23.84
		of the rock is disseminated throughout and up to 1% fine grained pyrite	137.0	139.0	517219	0	0	0	0	1	0	1		
		occurs within feldspar porphyry clasts.	139.0	141.0	517220	0	0	0	0	1	0	1	0.2	80.10
			141.0	143.0	517221	0	0	0	1	1	0	1		
142	227	*Volcanic Breccia*	143.0	145.0	517222	0	1	0	1	1	0	1	1.3	46.17
			145.0	147.0	517223	0	1	0	1	1	0	1		
		Gray-green, medium grained equigranular to feldspar porphyritic volcanic	147.0	149.0	517224	0	1	0	1	1	0	1	0.8	53.19
		breccia. Feldspar porphyry clasts are 1-15cm, rounded and comprise	149.0	151.0	517225	0	1	0	1	1	0	1		
		between 20 to 50% of the rock. Local grit layers with bedding at 50° to core	151.0	153.0	517226	0	1	0	1	1	1	1	0.5	57.79
		axis. Rock is weakly to moderately magnetic and weakly calcareous with	153.0	155.0	517227	0	1	0	1	1	1	1		
		minor calcite along fractures. Trace to 1% magnetite occur in porphyritic	155.0	157.0	517228	0	1	0	1	1	1	1	0.8	63.88
		clasts. Trace to 1% fine grained pyrite is disseminated throughout with rare	157.0	159.0	517229	0	1	0	1	1	1	1		

(even numbered samples combined with lower odd numbered sample for geochemical analysis) Drill Hole: 99-22

from	to	Rock Description	from	to	Sample	qtz	cal	ept	mgt	hmt	cpy	py	Au (ppb)	Cu (ppm)
		traces of chalcopyrite. An amorphous red-brown alteration is pervasive to	159.0	161.0	517230	0	1	0	1	1	1	1	0.5	65.91
		patchy, rimming and locally replacing clasts. In bedded zones this biotite?	161.0	163.0	517231	0	1	0	1	1	1	1		
		alteration occurs primarily along bedding planes. Local sericitic zones	163.0	165.0	517232	0	1	0	1	1	1	1	145.3	116.93
		occur. @ 179.5 1 cm wide specular hematite vein with pyrite. Below 169 m,	165.0	167.0	517233	0	1	0	1	0	1	1		
		moderate to strong sericitic alteration with pervasive green chalky feldspars	167.0	169.0	517234	0	1	0	1	0	0	1	1.1	59.64
		and clay rich gouge zones. This appears to overprint the biotite alteration.	169.0	171.0	517235	0	1	0	1	0	1	1		
		More variety of volcanic textures occurs within the clasts from 219-227.4 in	171.0	173.0	517236	0	1	0	1	0	1	1	0.9	66.23
		a gray, green, and brown glassy/hypidiomorphic groundmass.	173.0	175.0	517237	0	1	0	1	0	0	1		
			175.0	177.0	517238	0	1	0	1	0	0	1	4.3	60.93
			177.0	179.0	517239	0	1	0	0	1	0	1		
			179.0	181.0	517240	0	1	0	0	1	0	1	3.5	53.20
			181.0	183.0	517241	0	1	0	0	1	0	1		
			183.0	185.0	517242	0	1	0	0	0	1	1	2.1	11.15
			185.0	187.0	517243	0	1	0	0	0	1	1		
			187.0	189.0	517244	0	1	0	0	0	1	1	4.0	8.50
			189.0	191.0	517245	0	1	0	0	0	1	1		
			191.0	193.0	517246	0	1	0	0	0	1	1	1.2	13.77
			193.0	195.0	517247	0	1	0	0	0	1	1		
			195.0	197.0	517248	0	1	0	0	0	1	1	1.7	85.81
			197.0	199.0	517249	0	1	0	0	0	1	1		
			199.0	201.0	517250	0	1	0	0	0	1	1	0.5	35.12
			201.0	203.0	517251	0	1	0	1	0	1	1		
			203.0	205.0	517252	0	1	0	1	0	1	1	0.9	58.82
			205.0	207.0	517253	0	1	0	1	0	1	1		
			207.0	209.0	517254	0	1	0	1	0	1	1	0.7	54.01
			209.0	211.0	517255	0	1	0	1	0	1	1		
			211.0	213.0	517256	0	1	0	1	0	1	1	4.0	49.99
			213.0	215.0	517257	0	1	0	1	0	1	1		
			215.0	217.0	517258	0	1	0	1	0	1	1	1.9	64.25
			217.0	219.0	517259	0	1	0	1	0	1	1		
			219.0	221.0	517260	0	1	0	0	0	1	1	2.3	73.34
			221.0	223.0	517261	0	1	0	0	0	1	1		
			223.0	225.0	517262	0	1	0	0	0	1	1	3.1	54.51
			225.0	227.0	517263	0	1	0	0	0	1	1		

Phelps Dodge Corporation of Canada Ltd.

Woodjam Property - Drill Hole Record

Drill Hole Number: 99-23
Location: 95+35N, 108+50E
Azimuth: 35
Dip: -54
Purpose: To test magnetic high delineated by ground mag survey.

Length (m): 178.6
Core Size: NQ
Dip Test: Yes
Started: August 15, 1999
Completed: August 16, 1999

Elevation:
Logged: Aug. 16, 99
Logged by: Kulla

(even numbered samples combined with lower odd numbered sample for geochemical analysis)

Drill Hole: 99-23

from	to	Rock Description	from	to	Sample	qtz	cal	ept	mgt	hmt	cpy	py	Au (ppb)	Cu (ppm)
0	19.5	*Casing*												
19.5	160	*Green Siltstone/tuff*	19.5	22.0	517264								8.4	3.32
		Medium grained, massive, competent, and poorly sorted. Trace to 2% magnetite, 0.1 mm in diameter. Trace to 5% 0.1 mm epidote (possibly replacing a mafic component). Trace to 5% red-brown specks. Otherwise, the rock is probably composed of quartz and feldspar. Fractures vary from 15 to 40° to core axis. Fracture surfaces are infilled with calcite and a soft, white, somewhat translucent material. Epidote occurs as patches and in veinlets of calcite and locally local granular pods consisting of 90% epidote and a red granular mineral (garnet).	22.0	24.0	517265									
			24.0	26.0	517266								3.5	3.92
			26.0	28.0	517267									
			28.0	30.0	517268								5.2	4.89
			30.0	32.0	517269									
			32.0	34.0	517270								4.9	5.55
			34.0	36.0	517271									
			36.0	38.0	517272								6.1	4.49
			38.0	40.0	517273									
			40.0	42.0	517274								4.7	48.53
			42.0	44.0	517275									
			44.0	46.0	517276								4.4	4.69
			46.0	48.0	517277									
			48.0	50.0	517278								3.2	5.46
			50.0	52.0	517279									
			52.0	54.0	517280								4.1	3.76
			54.0	56.0	517281									
			56.0	58.0	517282								3.5	4.81
			58.0	60.0	517283									
			60.0	62.0	517284								3.8	3.48
			62.0	64.0	517285									
			64.0	66.0	517286								5.0	3.35
			66.0	68.0	517287									
			68.0	70.0	517288								3.3	3.53
			70.0	72.0	517289									
			72.0	74.0	517290								3.4	3.11

			74.0	76.0	517291												
			76.0	78.0	517292											5.1	2.78
			78.0	80.0	517293												
			80.0	82.0	517294											2.2	8.43
			82.0	84.0	517295												
			84.0	86.0	517296											4.5	3.85
			86.0	88.0	517297												
			88.0	90.0	517298											3.1	4.99
			90.0	92.0	517299												
			92.0	94.0	517300											3.6	5.32
			94.0	96.0	517301												
			96.0	98.0	517302											2.4	6.65
			98.0	100.0	517303												
			100.0	102.0	517304											4.8	166.29
			102.0	104.0	517305												
			104.0	106.0	517306											3.1	266.28
			106.0	108.0	517307												
			108.0	110.0	517308											3.3	206.31
			110.0	112.0	517309												
			112.0	114.0	517310											0.8	61.00
			114.0	116.0	517311												
			116.0	118.0	517312											2.1	124.26
			118.0	120.0	517313												
			120.0	122.0	517314											8.8	314.23
			122.0	124.0	517315												
			124.0	126.0	517316											6.6	312.87
			126.0	128.0	517317												
			128.0	130.0	517318											3.5	167.96
			130.0	132.0	517319												
			132.0	134.0	517320											1.7	22.10
			134.0	136.0	517321												
			136.0	138.0	517322											2.5	9.99
			138.0	140.0	517323												
			140.0	142.0	517324											1.6	9.86
			142.0	144.0	517325												
			144.0	146.0	517326											1.7	10.77
			146.0	148.0	517327												
			148.0	150.0	517328											3.7	23.40
			150.0	152.0	517329												

			152.0	154.0	517330								4.9	11.42
			154.0	156.0	517331									
			156.0	158.0	517332								5.7	6.53
			158.0	160.0	517333									
160	*178.6*	*Maroon Siltstone/tuff*	160.0	162.0	517334								2.0	2.86
		Medium grained, massive, poorly sorted, maroon (red-brown). Trace to 1%	162.0	164.0	517335									
		0.1-1 mm black hematite. 1-5% euhedral feldspar crystals and crystal	164.0	166.0	517336								1.5	3.39
		fragments (0.1-1 mm laths). Trace to 3% epidote as individual crystals or	166.0	168.0	517337									
		crystal fragments occur locally as granular nodules 1-2 cm in diameter. The	168.0	170.0	517338								0.7	2.97
		rock is non-magnetic and contains minor amounts of calcite veinlets. This	170.0	172.0	517339									
		unit may be a crystal tuff instead of a siltstone, oweing to the amount of	172.0	174.0	517340								0.7	2.85
		crystal fragment seen thorughout.	174.0	176.0	517341									
			176.0	178.6	517342								0.2	3.78

APPENDIX III

Authors' Certificates

CERTIFICATE

I, Gregory Kenneth Kulla, certify to the following:

1. I am a geologist residing at 9756 Crown Crescent, Surrey, B.C. Canada

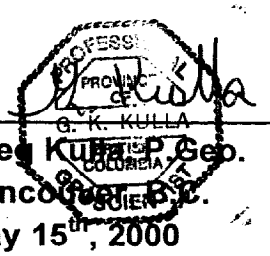
2. I am a Professional Geoscientist registered in the Association of Professional Engineers and Geoscientists of British Columbia.

3. My academic qualifications are:

   B.Sc., 1988, University of British Columbia, Vancouver, B.C.

4. I have been engaged in geological work since graduation in 1988.

5. I logged and sampled the core drilled in August 1999 and described in this report



Greg Kulla, P.Geo.
Vancouver, B.C.
May 15th, 2000

CERTIFICATE

I, Stephen William Wetherup, certify to the following:

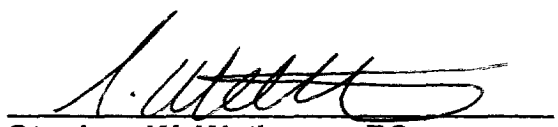
1. I am a consulting geologist currently residing at #307–1106 Pacific Street, Vancouver, B.C.

2. I am a Geoscientist in Training (G.I.T.) in the Association of Professional Engineers and Geoscientists of British Columbia.

3. My academic qualifications are:

   B.Sc.(Geology Honours.), University of Manitoba, Winnipeg, Manitoba.

4. I have been engaged in geological work since graduation in 1995.



Stephen W. Wetherup, BSc.
Vancouver, B.C.
May 15, 2000

610000 E.

5790000 N.

Woodjam #7 (367884)
Woodjam #6 (367883)
Woodjam #8 (367882)
Woodjam #5 (367190)
Woodjam #11 (367888)
Woodjam #9 (367886)
Woodjam #10 (367887)

Megabuck Zone

Spellbound Zone

Takom Zone

Geological Units

Tertiary basalts

Intrusive Units

Syenite

Bladed feldspar porphyry

Monzodiorite

Diorite

Quartz monzonite to granite

Quesnel Volcanic Rocks

Siliceous conglomerate and greywacke

Feldspar lithic tuff/tuffite

Green, andesitic greywacke and lithic tuffite

Maroon, andestic flows, tuffite, and greywacke

Geological Symbols

Bedding; strike and dip

Geological contact; observed

inferred

Outcrop outline

Resistivity lineament

Magnetic lineament

T Tourmaline veins/breccia

Symbols

Rivers and creeks

Lakes

UTM grid (NAD 83, zone 10)

Road

Drill road/trail

Claim boundary and LCP

Geophysical grid lines

Diamond drill hole: Pre-1999, 1999

Scale

0 500 1000
metres

Phelps Dodge Corporation of Canada Ltd.

Property: Woodjam — Cariboo Mining Division

Geology

Woodjam Property

Scale	Date	Drafted by	Figure
1 : 20,000	May 2000	Wetherup	3

11200.0 N

11000.0 N

10800.0 N

10600.0 N

10400.0 N

10200.0 N

10000.0 N

9800.0 N

10000.0 E

11000.0 E

11200.0 E

11400.0 E

11600.0 E

83-11

74-01

83-06

83-10

84-18

83-03

83-08

99-20

83-07

83-04

83-13

84-17

83-12

83-09

84-15

74-02

84-19

84-16

83-05

99-21

99-22

99-23

A

B

C

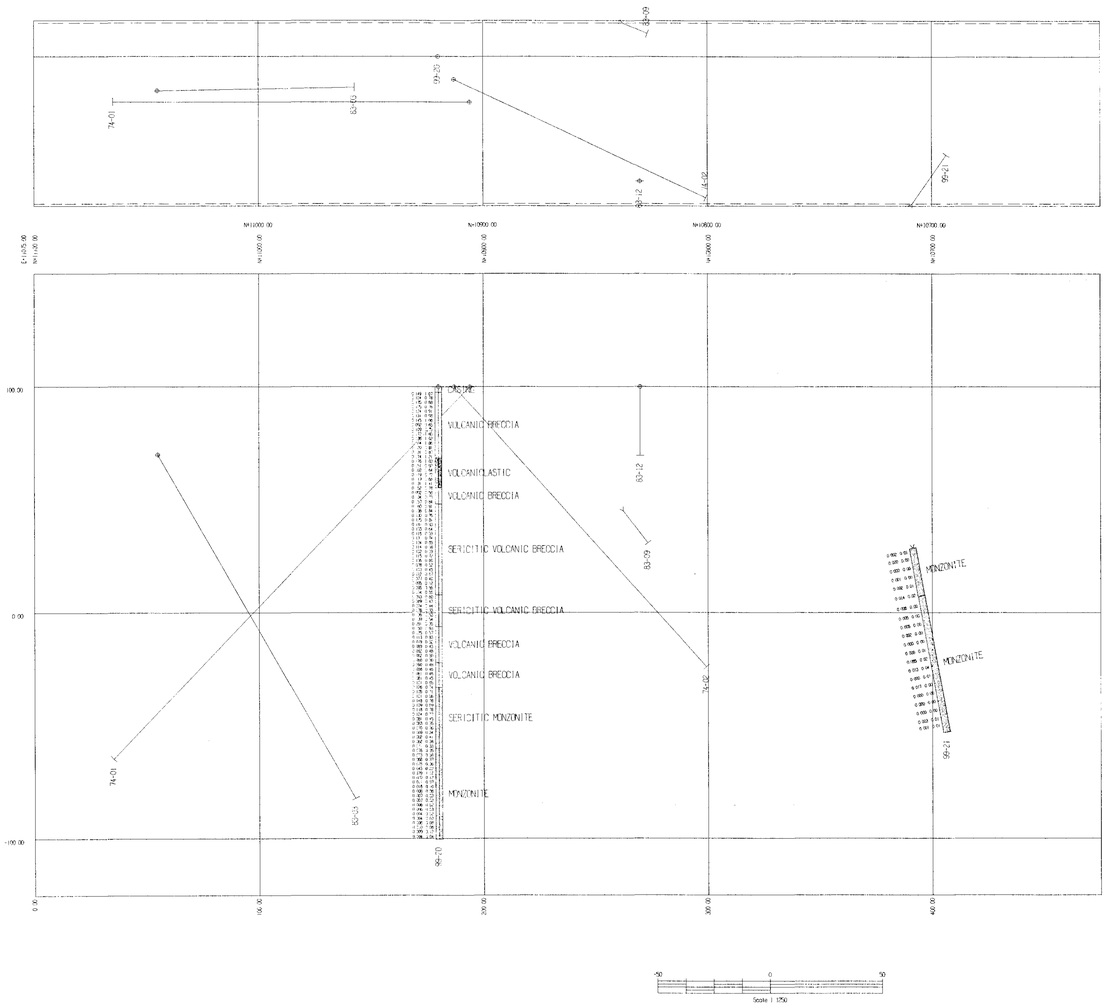
D

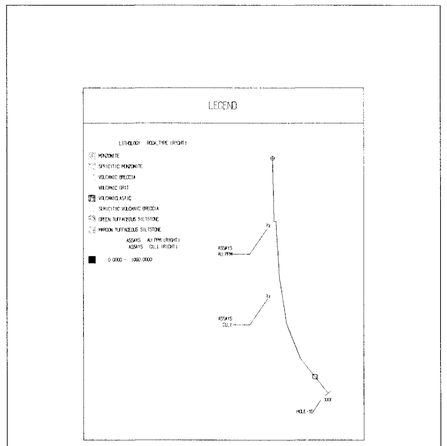
E

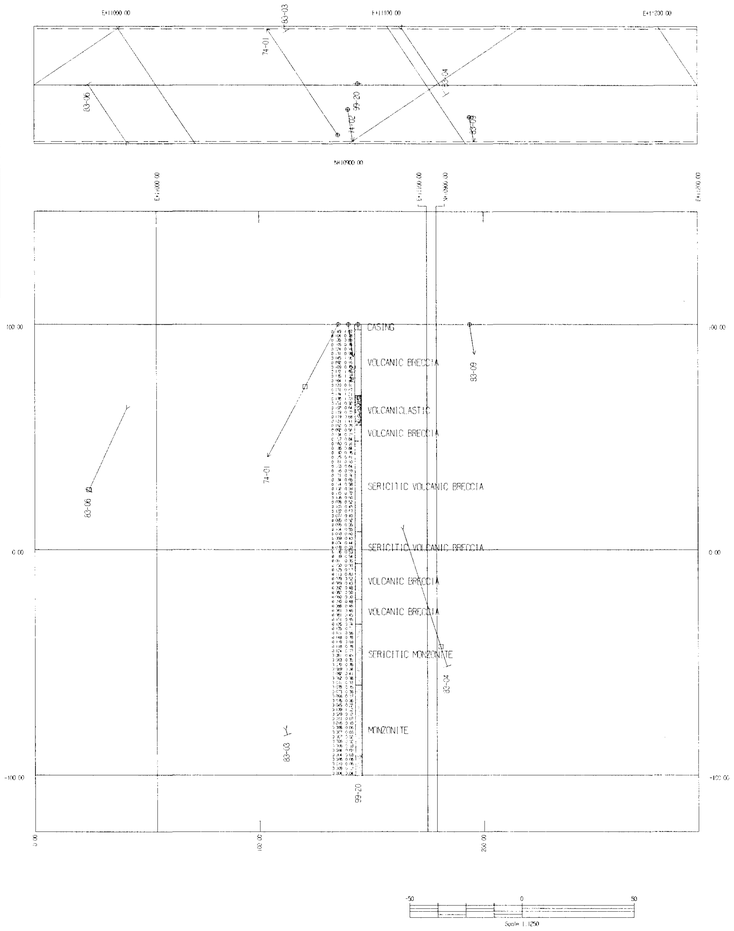
-50 0 50

Scale 1:2000

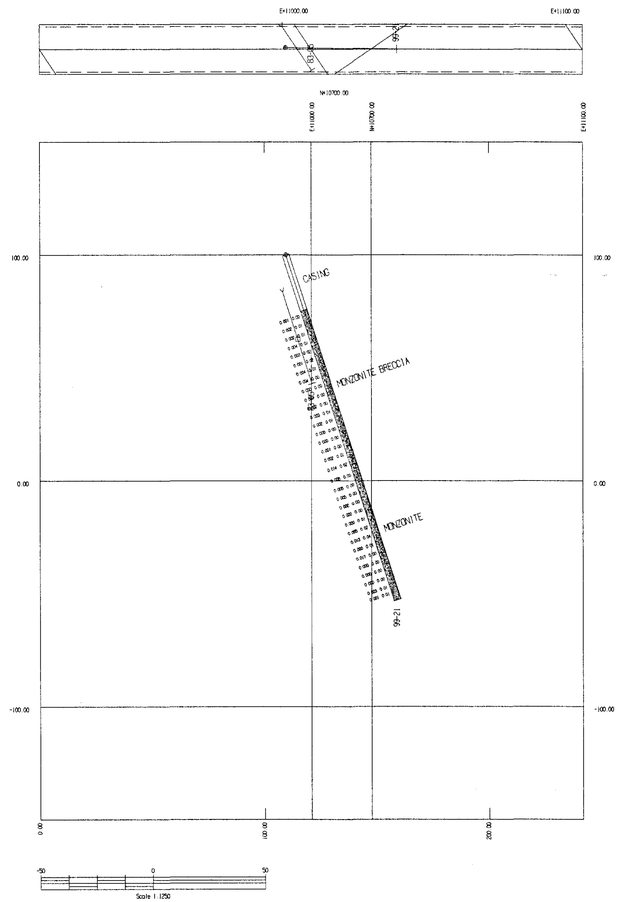
Phelps Dodge Corp. of Canada Ltd Vancouver Office Suite 1409, 409 Granville St. Vancouver, BC V6C 1T8	Plan view of Drill Hole Cross-Sections
UNITS : METRES DATE: 00/05/18 TIME: 14:27:54	Figure 4: Plan view of drill hole traces and the cross-sections A,B,C,D, and E.

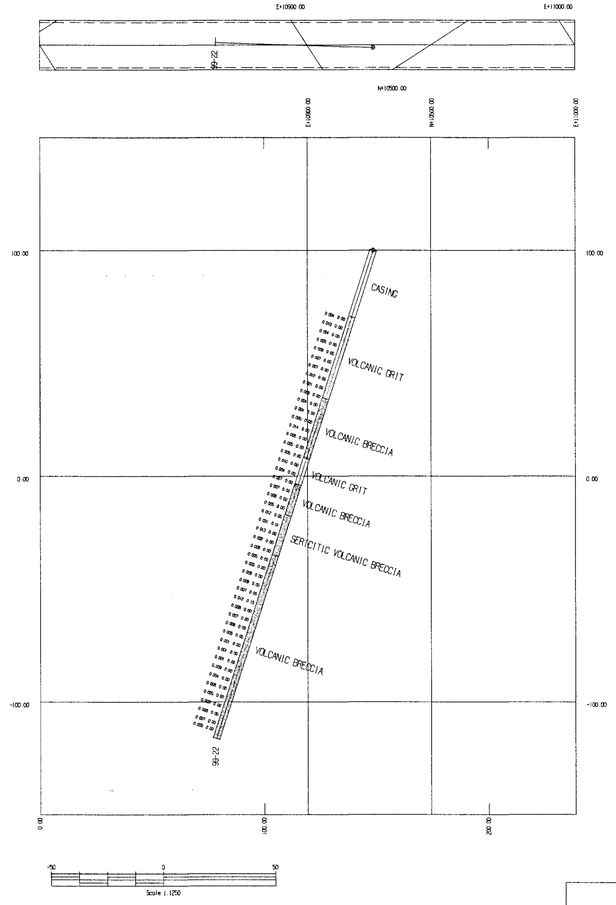


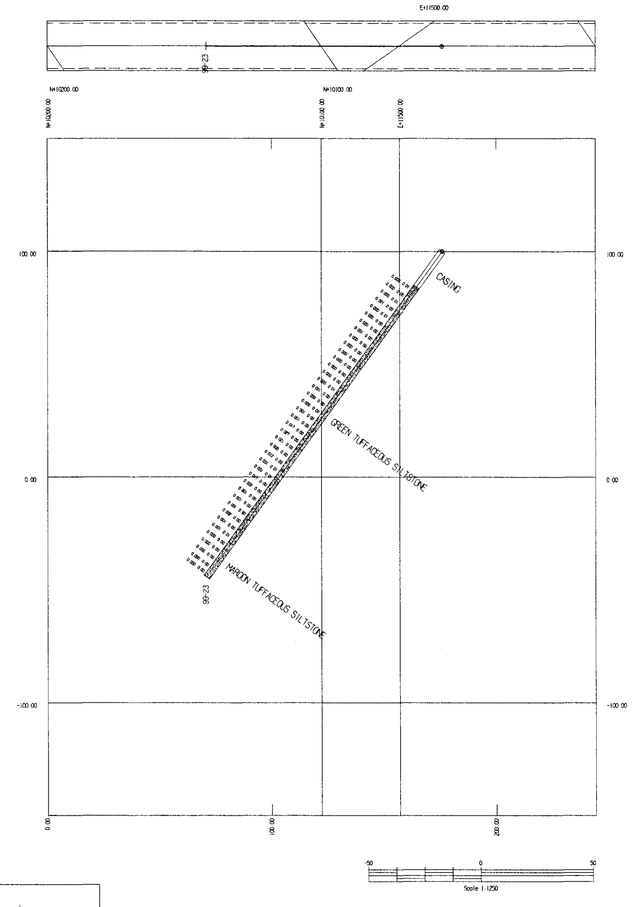


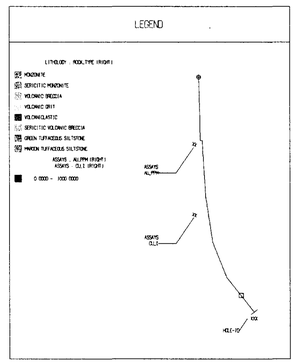


Phelps Dodge Corp. of Canada Ltd Vancouver Office Suite 1409, 409 Granville St. Vancouver, BC V6C 1T2	Drill Hole 99-20 Cross-sections Figure 5: Cu (%) and Au (ppm) assays plotted with rock types.
UNITS : METRES DATE: 00/05/18 TIME: 10:45:34	Software by Geosoft Inc. (www.geosoft.com)









Phelps Dodge Corp. of Canada Ltd Vancouver Office Suite 1409, 409 Granville St. Vancouver, BC V6C 1T8	Cross-Sections of Holes 99-21, 22, and 23 Figure 6 a,b,c: Drill hole vertical sections C,D and E through 99-21, 22, and 23 respectively.
UNITS : METRES DATE: 00/05/18 TIME: 16.17.35	Software by Geosoft Software International