

DIAMOND DRILLING REPORT

on the

LAIMAN PROPERTY
(CR 31-38, LD 1-11 and Laid 1-6 Claims)

Omineca Mining Division
British Columbia

NTS 93F/3
53° 10' North Latitude
125° 13' West Longitude

RECEIVED
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by

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

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Work Paid for by
PHELPS DODGE CORPORATION OF CANADA, LIMITED

January 23, 1998

25,380

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

TABLE OF CONTENTS

	Page
SUMMARY	i
INTRODUCTION	1
LOCATION ACCESS and PHYSIOGRAPHY	1
PROPERTY STATUS	1
PERMITS	5
HISTORY	5
REGIONAL GEOLOGY	5
PROPERTY GEOLOGY	7
MINERALIZATION	7
1995 WORK PROGRAM	8
RESULTS	8
CONCLUSIONS	9
DISBURSEMENTS	9
BIBLIOGRAPHY	10
CERTIFICATES	11

List of Tables

Table 1 - Claim Data	2
Table 2 - Drill Hole Data	8

List of Figures

Figure 1 - Location Map	3
Figure 2 - Claim Map	4
Figure 3 - Regional Geology	6
Figure 4 - Geology and Drill Sites	pocket
Figure 5 - 110 Zone Detailed Geology and Drill Sites	pocket
Figure 6a - Diamond Drill Section 97-1	pocket
Figure 6b - Diamond Drill Section 97-2, 97-3	pocket
Figure 6c - Diamond Drill Section 97-4	pocket
Figure 6d - Diamond Drill Section 97-5	pocket

Appendices

Appendix I - Diamond Drill Logs	13
Appendix II - Analytical Method and Certificates	14

SUMMARY

A diamond drill program was conducted on the Laidman gold prospect during August, 1998. The property is situated in the plateau region of central British Columbia, 155 kilometres southwest of Vanderhoof. The prospect lies in the Nechako Arch, part of the Intermontane accretionary belt of British Columbia, close to the easterly trending Top Lake Lineament. The western part of the property is underlain by Hazelton Group volcanic and sedimentary rocks of Jurassic age and the remainder by granitic rocks of the Cretaceous age Laidman Lake batholith. Extensive argillic alteration and quartz stockwork zones were discovered in 1996 along several logging roads and clear-cut blocks leading to the discovery of a zone of quartz veinlets bearing up to 19.6 gpt gold from bedrock and rubble crop exposures (Discovery zone). Further work in 1996 identified the 110 zone, a partially exposed quartz breccia zone which has returned up to 5640 ppb gold in soils and 1,440 ppb gold in rocks. A less well-defined zone of float and quartz rubble bearing up to 8 gpt gold is located 200 metres west of the Laid 1 corner post.

The 1997 diamond drill program consisted of five holes, totaling 1004.5 metres, drilled between August 10 and 26. Drill hole 97-1 was drilled to test mineralization in the original Discovery zone, holes 97-2 through 97-5 tested the 110 zone. Drilling in both zones intersected granite and diorite with lesser monzodiorite and several dacitic to rhyolitic dykes. These rocks are argillic and chlorite altered with local sericitization and silicification. Pyrite is common, occurring as disseminations, clots, fracture fillings and veinlets. Rare traces of chalcopyrite and arsenopyrite were also observed. Gold content was generally low, with only narrow intervals exceeding 100 ppb (up to 192 ppb). The best results were from DDH 97-5 where a heavily silicified interval between two dacite dykes averaged 643 ppb gold over 4.1-metres and DDH 97-4, which returned 18-metres of 116.7 ppb gold.

INTRODUCTION

This report describes a diamond drill program conducted on the Laidman gold prospect between August 10 and 26, 1997. Five holes were drilled for a total of 1004.5 metres. Method and results of this program are discussed herein.

LOCATION, ACCESS AND PHYSIOGRAPHY

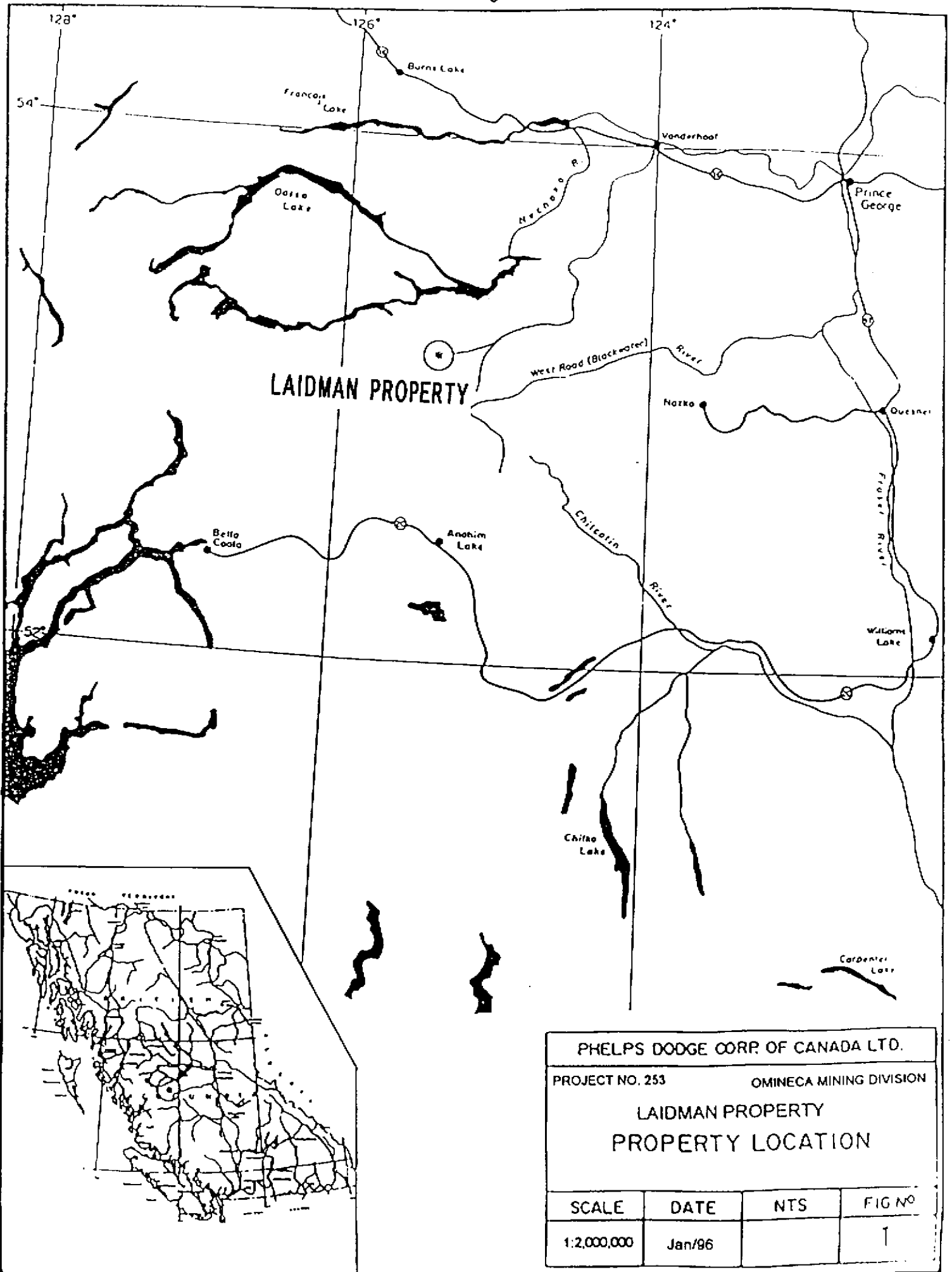
The Laidman property is situated on the south slopes of the Fawnie Range within the Nechako Plateau of British Columbia. Topography is gentle to moderate with elevations ranging from 1,000 to 1,500 metres. The property is located on NTS map sheet 93 F/3 (Figure 1), 155 road kilometres southwest of Vanderhoof.

Access to the claims from Vanderhoof is via the Kluskus-Ootsa Forest Service Road for approximately 140 kilometres and then southwest along the Kluskus-Malaput Forest Service road for 15 kilometres. Several short spur roads provide local access to the property. Forest cover is typical of the region, consisting of spruce and pine. Approximately half of the property has been logged by clear cut methods.

PROPERTY STATUS

The Laidman property consists of 14 two-post claims and 13 four-post claims, located in the Omineca Mining Division and shown on B.C. Ministry of Employment and Investment claim maps 93F/3E and 93F/3W (Figure 2). The claim block contains a total of 231 units, however, the effective claim area is somewhat less as the LD 3, 6 and 7 claims, staked during 1996 to cover possible gaps in the property, largely overstate pre-existing claims. Pertinent claim data is tabulated in Table 1 below. Expiry dates shown assume that the current work is accepted for assessment purposes.

Table I: CLAIM DATA			
Name	Tenure No.	Units	Expiry
CR 31	326633	1	June 3, 2001
CR 32	326634	1	June 3, 2001
CR 33	326635	1	June 3, 2001
CR 34	326636	1	June 3, 2001
CR 35	326637	1	June 3, 2001
CR 36	326638	1	June 3, 2001
CR 37	326639	1	June 3, 2001
CR 38	326640	1	June 3, 2001
LD-1	331898	18	October 18, 2000
LD-2	331899	18	October 20, 2000
LD 3	348120	20	June 30, 1999
LD-4	331900	20	October 19, 2000
LD-5	331901	20	October 19, 2000
LD-6	331914	1	October 20, 2000
LD-6	348114	5	June 30, 1999
LD-7	331915	1	October 20, 2000
LD-7	348115	5	June 30, 1999
LD-8	331916	1	October 20, 2000
LD-9	331917	1	October 20, 2000
LD-10	331918	1	October 20, 2000
LD-11	331919	1	October 20, 2000
Laid 1	326059	20	June 3, 1999
Laid 2	348118	20	June 30, 1999
Laid 3	348119	20	June 30, 1999
Laid 4	348116	20	June 30, 1999
Laid 5	348117	15	June 30, 1999
Laid 6	348121	16	June 28, 1999



PHELPS DODGE CORP. OF CANADA LTD.			
PROJECT NO. 253		OMINECA MINING DIVISION	
LAIMAN PROPERTY PROPERTY LOCATION			
SCALE	DATE	NTS	FIG NO
1:2,000,000	Jan/96		1

PERMITS

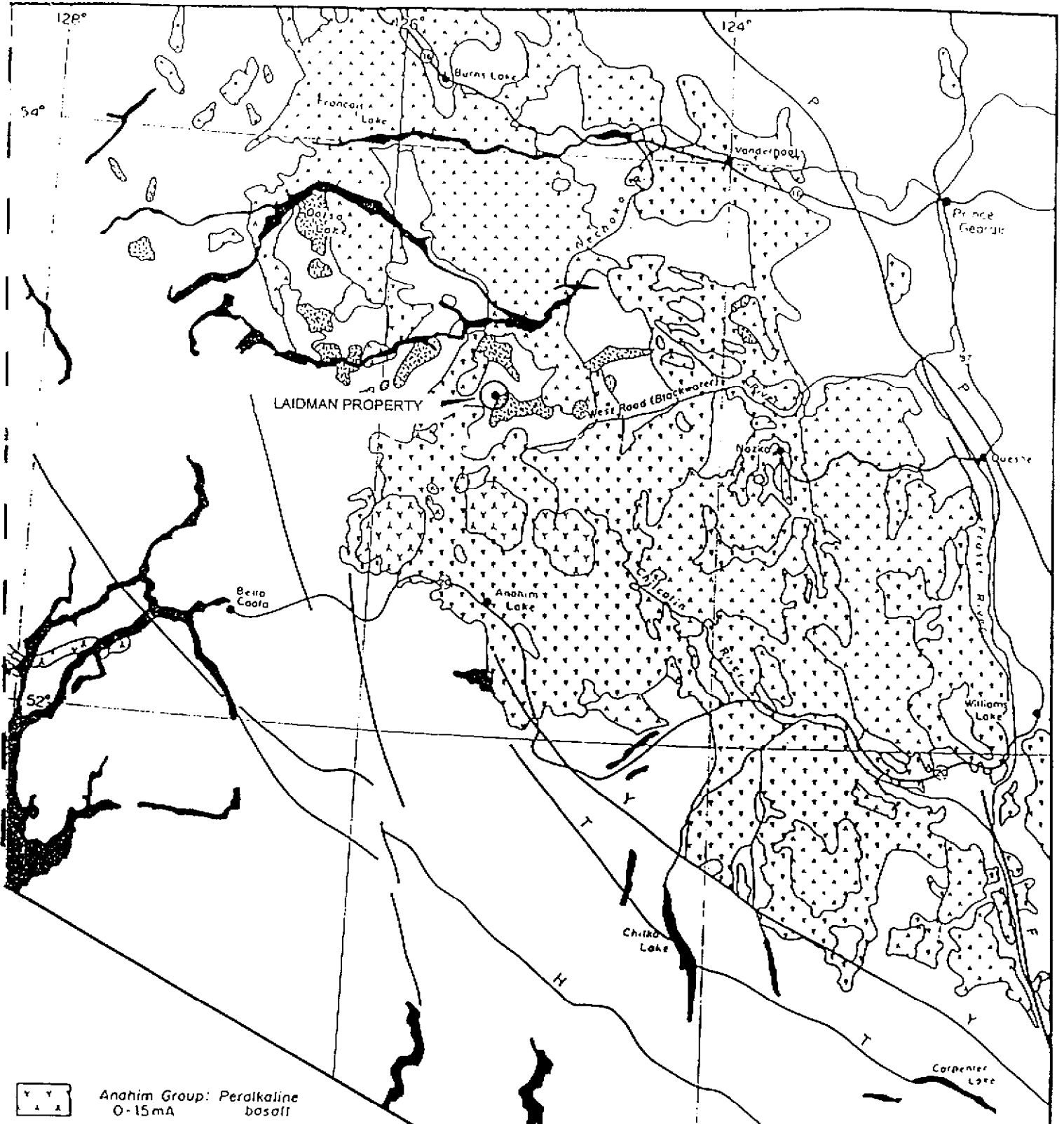
All work conducted on the Laidman Property during 1997 was performed under B.C. Ministry of Energy, Mines and Petroleum Resources Annual Work Approval Number PRG-1997-1000843-8579.






HISTORY

Most of the CR and LD claims were staked by Cogema Resources in 1994, when Phelps Dodge Corporation of Canada staked the Laid 1 claim. There is no recorded history of work prior to this time, however, claim posts dating from the 1970's have been found within the property boundaries. During 1994, Cogema and Phelps Dodge conducted geological mapping, prospecting, rock and reconnaissance style till/soil sampling on their respective claims. Cogema prospectors discovered mineralized rocks of the Laidman batholith on a logging road on the LD 4 claim and a zone of skarn mineralization on the western CR claims. Phelps Dodge acquired the Cogema claim block in 1995 and performed extensive mapping, prospecting, rock sampling and trenching over two seasons, identifying the Discovery and "110" mineralized zones.

REGIONAL GEOLOGY

The Laidman gold prospect lies in the Intermontane Belt of British Columbia, a collage of accretionary plates of the Stikinia, Cache Creek and Quesnellia Terranes. These terranes are composed of late Paleozoic to Mesozoic marine volcanic and sedimentary rocks and Mesozoic to late Tertiary marine and non-marine sedimentary and volcanic rocks. The Yalakom and Fraser Fault systems bound the plateau to the southwest and northeast (Figure 3). The claims lie in the Nechako Arch, which consists of several volcanic-stratigraphic groups ranging in age from Jurassic to Miocene. Pre-Tertiary rocks of the Nechako Arch include lower Cretaceous Skeena Group, an assemblage of easterly-derived clastic rocks, the middle Jurassic Hazelton Group, which is composed of arc-type calc-alkaline volcanic and volcanoclastic rocks, and granitic plutons of Cretaceous age. The plutons include the Laidman Lake body, which hosts the Laidman gold prospect, and the Capoose batholith to the north, which is associated with the Capoose Lake silver-gold prospect (28 million tonnes grading 36 gpt silver and 0.9 gpt gold). Tertiary and younger rocks comprise the Ootsa Lake Group, which consists of rhyolitic to dacitic tuff, flows and breccias, and Miocene Chilcotin group vesicular basalt flows.



-  Anahim Group: Peralkaline basalt
0-15m.a
 -  Chilcotin Group: Backarc alkaline/tholeiite basalt
2-10m.a
 -  Nanika, Quanchus Intrusives: Quartz monzonite, granite
60m.a
 -  Oatso Group: Calc-alkaline felsic volcanics
35-70m.a
 -  Pre-Tertiary rocks and Coast Intrusions
- H - Harrison F - Fraser
 Fault T - Tcharkazan P - Pinchi
 Y - Yalakom

PHELPS DODGE CORP. OF CANADA LTD.			
PROJECT NO. 253		OMINECA MINING DIVISION	
LAIMAN PROPERTY			
REGIONAL GEOLOGY			
Fox Geological Consultants Ltd			
SCALE	DATE	NTS	FIG NO
1:200,000	SEPT/95		3

PROPERTY GEOLOGY

The Laidman prospect is underlain largely by the multiphase Laidman Lake batholith of late Cretaceous age which has intruded southwest-dipping sediments and volcanoclastic rocks of the Hazelton Group. The claims lie along the Top Lake lineament which has formed a series of south-facing scarps believed to represent down faulted blocks within the Laidman batholith. Intrusive rocks consist of aplite, granite, quartz monzonite, monzodiorite and diorite. Detailed mapping in the 110 Zone (Figure 5) indicates that the bulk of the batholith consists of two phases of granite and a single phase of quartz monzonite. Granites may contain quartz phenocrysts or eutectic growth textures which are also present in quartz monzonite. The granite is cut by two generations of aplite dykes, a massive and a porphyritic phase bearing quartz phenocrysts. These rocks are, in turn, intruded by medium grained diorite with local fine-grained border phases, then by monzodiorite. The fine grained monzodiorite contains local breccia zones with clasts of all earlier phases.

Extensive argillic alteration and quartz vein stockworks have developed in east-northeast trending zones, several of which are exposed just north of the drill area. Rocks within these zones are foliated, brecciated and contain knots of quartz, chalcedony and clay-altered feldspar. Quartz veins are white to translucent, massive to vuggy and contain disseminated aggregates of sulphide minerals.

MINERALIZATION

Mineralized rocks of the Laidman batholith are poorly exposed in small road cuts, rubble crop and float blocks over an area as much as 300 metres wide (Figure 4). Both the Discovery and 110 zones consist of fine-grained, greyish green, foliated, sheared and brecciated quartz monzonite and granite containing east-striking quartz and chalcedony veins and quartz breccia. Where exposed, the veins form parallel sets of 2 centimeter veinlets consisting of fine-grained quartz and sulphides. Sulphide mineralization consists of fine-grained disseminated pyrite, arsenopyrite, galena, sphalerite and bismuthinite. Rusty weathering granitic rocks, bearing disseminated arsenopyrite and chalcedony veins, lie at the northeast corner of the Laid 1 claim and rusty weathering hornfels in the central part of the claim also contain easterly-trending quartz and chalcedony veinlets in a small body or off-shoot of the Laidman batholith. A third zone of float and bedrock rubble sampled last year lies just west of the legal claim post for the Laid 1 claim.

1996 WORK PROGRAM

The 1997 work program was conducted between August 10 and 26, 1997. Five holes of NQ sized core were drilled from five drill sites by L.D.S. Diamond Drilling Ltd. of Kamloops, B.C. Drill holes were each drilled to just over 200 metres depth, for a cumulative total of 1004.5 metres. Drill hole 97-1 was drilled to test mineralization in the original Discovery zone, holes 97-2 through 97-5 tested the 110 zone.

Drill core was logged on site, split and sampled, usually in 2-metre intervals. Samples were identified with unique numbers and sent to Acme Analytical Laboratories Ltd. of Vancouver, B.C. where they were evaluated by Ultratrace ICP and geochemical gold analysis. Samples from holes 97-1, 97-2, 97-3 and fourteen intervals in hole 97-5 were analyzed individually while samples from holes 97-4 and most of 97-5 were composited by the lab into 6-metre samples for analysis. Drill core was bundled and stored on the property. Drill hole locations and other pertinent data are tabulated below. Drill sites are plotted on Figure 4.

Table 2: DRILL HOLE DATA					
HOLE NUMBER	LOCATION		SURVEY DATA		TOTAL LENGTH (metres)
	Grid East	Grid North	Azimuth	Dip	
97-1	102+00	99+75	360	-55	203.3
97-2	110+00	108+10	356	-55	200.3
97-3	100+50	110+00	003	-50	200.3
97-4	112+10	107+25	350	-55	200.3
97-5	111+00	107+70	360	-55	200.3

RESULTS

Drill hole 97-1 (Figure 6a), which tested the Discovery zone, intersected granite and diorite, both containing traces of disseminated and fracture controlled pyrite throughout. The rocks display weak to moderate argillic alteration with local chloritization and sericitization. Gold content was low, generally less than 20 ppb, ranging up to 174 ppb over 2 metres.

Drill hole 97-2 (Figure 6b) was collared in polyolithic monzodiorite breccia with granite and minor diorite, rhyolite and dacite fragments. This unit is pyritic and chloritized. Below 85.7 metres, altered granite alternates with minor intervals of feldspar porphyry dacite. Gold concentrations are slightly elevated above background in this hole, ranging up to 192 ppb over 2 metres from a narrow rhyolite dyke with disseminated pyrite and arsenopyrite.

Hole 97-3 (Figure 6b) intersected predominantly sericitic granite with up to 5% disseminated and poddy pyrite. Below 116 metres, the granite contains dacitic inclusions and dacite dykes with granitic fragments. Pyrite content is less than 1% and gold is generally very low, increasing a bit toward the end of the hole to average 97 ppb over 6.3 metres.

Drill hole 97-4 (Figure 6c) intersected diorite to monzodiorite with a 15-metre section of granite and 35 metres of granite breccia. The diorite is chlorite and sericitic, with disseminated and veinlet pyrite. From 106 to 164.8 metres, the diorite is heavily cut by calcite-pyrite +/- chalcopyrite veins (5-10 veins per metre) and is locally brecciated. This hole returned sporadically elevated gold up to 127 ppb. An 18-metre intersection of altered diorite averaged 116.7 ppb gold (from 108 to 126 metres depth).

Hole 97-5 (Figure 6d) cut mildly sericitic granite and minor diorite. A heavily silicified interval between two dacite dykes averaged 643 ppb gold over 4.1-metres (from 137.9 to 142 metres). All other intervals returned less than 100 ppb gold.

CONCLUSIONS

The 1997 drill program intersected generally low gold tenors in all drill holes with a best intersection of 643 ppb gold over 4.1 metres in DDH 97-5.

DISBURSEMENTS

Expenditures for the 1997 work program on the Laidman property totals \$55,370.00, as tabulated below.

L.D.S. Diamond Drilling	1004 metres @ \$55.00/metre	55,220.00
	Mobilization and Demobilization	2,000.00
	2 hours Caterpillar @ \$75/hour	<u>150.00</u>
Total		<u>\$ 57,370.00</u>

Prepared by:



P.E. Fox, Ph.D., P. Eng.
January 23, 1998

REPORT DISTRIBUTION:

B.C. Mining Recorder	2
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Cogema Resources, Saskatchewan	1

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CERTIFICATE

I, Peter Edward Fox, certify to the following:

1. I am a consulting geologist residing at #902 - 2077 Nelson Street, Vancouver, B.C.
2. I am a Professional Engineer registered in the Association of Professional Engineers and Geoscientists of British Columbia.
3. My academic qualifications are:

B.Sc. and M.Sc., Queens University, Kingston, Ontario
Ph.D., Carleton University, Ottawa, Ontario
4. I have been engaged in geological work since graduation in 1966.

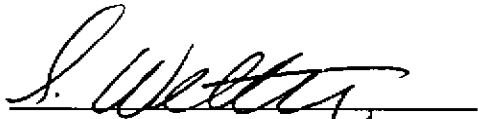


Peter E. Fox, Ph.D., P. Eng.
Vancouver, B.C.
January 23, 1998

CERTIFICATE

I, Stephen Wetherup, of the City of Winnipeg, Manitoba, do hereby certify that:

1. I am temporarily a consulting geologist working out of 1409-409 Granville Street, Vancouver, B.C., 669-5736, while completing a Master's Thesis at the University of Alberta in the Department of Geology.
2. I graduated (with Distinction) from the University of Manitoba in 1995 with a Bachelor of Science degree in geology.
3. I have worked summers with the Geological Survey of Canada since 1994.



Stephen Wetherup, B.Sc.

Winnipeg, Manitoba.

September 23, 1997

APPENDIX I
Diamond Drill Logs

PHELPS DODGE CORPORATION OF CANADA, LIMITED

PROPERTY: Laidman
 PROJECT No: 253
 Location: L102E, 99+75N
 Azimuth: 360
 Dip: -55
 Start Date: August 11, 1997
 Complete Date: August 13, 1997

Length(m): 203.3
 Core Size: NQ
 Dip Tests: -53

DRILL HOLE NO. 97-1

Elevation:
 Claim No:
 Section:

Date Logged: August 13, 1997
 Logged by: Greg Kulia and Sean Boyd

Purpose: Test discovery showing

From (metres)	To (metres)	Description	Sample No	Colour	To (metres)	Length (metres)	Comments	Chl	Py	Clay	Au (ppb)
0	3.7	Casing									
3.7	38.2	Granite: Pink to pale green, medium grained, sub- to anhedral equigranular quartz and feldspar. Trace to 1% chlorite probably replacing biotite (<1mm) is commonly enclosed in plagioclase. Rare hematite usually with chlorite. Rare fine grained disseminated pyrite. Fracture surfaces are roughly 40 and 90 degrees to c/a. Surfaces are coated with pale green to brown chalky clay and are locally chloritic. Pyrite is more common on chloritic fractures. Hairline to 1cm wide veinlets are quartz rich with dark green selvages. (Prominent from 9.0-13.0m). 23.0-31.0 is pale green, sericite on fractures possibly replacing chlorite. Hairline fractures are offset and locally wall rock grain size is reduced. Entire unit is weakly argillically altered. Fracture surfaces show moderate argillic alteration. Core surfaces are chalky. Feldspars are clay altered around rims.	518001	pink	5.0	1.7		2	tr		1
			518002	pink	7.0	2.0		2	tr		1
			518003	pink	9.0	2.0	8.5-8.8 rubble	2	tr		1
			518004	pink	11.0	2.0	green hairline fractures	2	tr		1
			518005	pink	13.0	2.0	green hairline fractures	2	tr		1
			518006	pink	15.0	2.0		2	tr		1
			518007	pink	17.0	2.0		2	tr		1
			518008	pink	19.0	2.0		2	tr		1
			518009	pink	21.0	2.0		1	tr		1
			518010	pink	23.0	2.0		1	tr		1
			518011	pink	25.0	2.0		1	tr		1
			518012	pale green	27.0	2.0	sericite replacing chlorite?	1	tr		2
			518013	pale green	29.0	2.0	sericite replacing chlorite?	1	tr		2
			518014	pale green	31.0	2.0	sericite replacing chlorite?	1	tr		2
			518015	pink	33.0	2.0		1	tr		1
			518016	pink	35.0	2.0		1	tr		1
37.3	67	Diorite: Dark green, medium to fine grained. 70% white, 0.5-1mm subhedral plagioclase with 25% chlorite and up to 1% magnetite and trace biotite. Chlorite has probably replaced biotite. Local very fine grained areas with sharp contrasts (clasts). Upper contact is bleached with small quartz veinlets with local vugs over 1 metre. Fracture surfaces are rough, planar, chloritic and covered with a chalky clay. Some surfaces are red hematitic. Chlorite altered ground mass with chloritic/argillic fractures. Moderate to strongly magnetic. 42-51m fine grained clay rich, locally gouge, bleached non-magnetic zones. Fine grained bleached lower contact.	518017	pink	37.3	2.3		1		1	1
			518018	pink	38.2	0.9		3	tr		1
			518019	green	40.0	1.8		3	tr		1
			518020	green	42.0	2.0		3	tr		1
			518021	green	44.0	2.0	very broken	3	tr		2
			518022	green	46.0	2.0	clay gouge-green	2	tr		3
			518023	green	48.0	2.0	bleached- fine grained	1	tr		2
			518024	buff	50.0	2.0	bleached- fine grained	1	tr		3
			518025	red/green	52.0	2.0		1	tr		2
			518026	green	54.0	2.0	olive green fracture surfaces	3	tr		1
			518027	green	56.0	2.0		3	tr		1
			518028	green	58.0	2.0	two pink granitic veinlets (1cm)	3	tr		1
			518029	green	80.0	2.0		1	tr		1
			518030	buff	62.0	2.0		1	tr		1
			518031	buff	64.0	2.0		1	tr		1
67	76.5	Granite: Pink, medium grained, argillic. Chlorite hairline fracture stockwork. Rare vugs.	518032	buff	66.0	2.0		1	tr		1
							66.2m purple hematitic vein/shear				
			518033	buff	68.0	2.0		1	tr		1
			518034	pink	70.0	2.0		1	tr		2
			518035	pink	72.0	2.0	hairline stockwork	1	tr		2
			518036	pink	74.0	2.0	clast of magnetite at 74.3	1	tr		2
76.5	80	Diorite: Dark green medium to fine grained chloritic, magnetic. Chilled margins.	518037	pink	76.0	2.0		1	tr		2
			518038	green	78.0	2.0		3	tr		1
80	89	Granite: Pink medium grained argillic. Chloritic hairline fracture stockwork.	518039	pink	80.0	2.0	open vugs along fractures	3	tr		1
			518040	pink	82.0	2.0		3	tr		1
			518041	pink	84.0	2.0		3	tr		1
			518042	pink	86.0	2.0		3	tr		1
89	94	Diorite: Pink medium grained argillic. Chloritic hairline fracture stockwork.	518043	pink/white	88.0	3.0		3	tr		1

		Dark green, medium to fine grained magnetic. Chilled margins.	518044	green	91.0	2.0		3 tr	2	0
							93.6-95.3 diorite chill margin			
95.3	102.3	Granite:	518045	green/white	94.0	2.0	vague contact into granite	3 tr	2	0
		Bleached pink, medium grained, chloritic vein stockworks.	518046	buff	95.3	1.3		2 tr	3	17
			518047	pink	98.0	2.7		1 tr	1	14
			518048	pink	100.0	2.0		2 tr	1	1
102.3	127.5	Diorite:	518049	pink	102.3	2.3		1 tr	1	18
		Dark green to bleached green, medium to fine grained, chloritic alteration along fractures and breaks. Chilled margins at both upper and lower contacts.	518050	green	104.0	1.7		3 tr	1	1
			518051	green	106.0	2.0		3 tr	1	1
			518052	green	108.0	2.0	pyrite on face of fracture 109.1m	3 tr	1	16
			518053	green	110.0	2.0		3	1	2
			518054	green	112.0	2.0		3 tr	1	3
			518055	green	114.0	2.0	112.7 bleached green 5cm contact	3 tr	2	26
			518056	green	116.0	2.0		2 tr	2	13
			518057	green	118.0	2.0		2 tr	2	2
			518058	green	120.0	2.0	119.1 granitic 2cm dyke @ 30 degrees to c/a	2 tr	1	4
			518059	green	122.0	2.0		3 tr	1	3
			518060	green	124.0	2.0		2 tr	2	3
			518061	green	126.0	2.0		3 tr	2	4
127.5	132.2	Dacite Dyke:	518062	green	127.5	1.5		2 tr	3	4
		Light grey to buff, aphanitic, clay rich, chloritic alteration, clay and chlorite along fractures. Fragments of dacite occur within chilled diorite along contacts. Soft-waxy white clay inclusions also occur within the diorite along the dacite contacts.	518063	green	129.0	1.5		1	3	1
			518064	green	132.2	3.2		1	3	0
			518065	green	134.0	1.8		3 tr	1	1
			518066	green	136.0	2.0		2 tr	2	2
132.2	178.1	Diorite:	518067	green	138.0	2.0	136-139 fine grained	1 tr	2	3
		Dark green to pale green, medium to fine grained chloritic alteration, chlorite along fractures. 60% white subhedral plagioclase, 30% chlorite. Fine grained segments 0.7-1.3m. Slightly magnetic within harder-greener units, pinstripe chlorite-magnetite stockwork, fractures with rough surfaces and chlorite, pyrite and clay along them.	518068	green	140.0	2.0		3 tr	1	6
			518069	green	142.0	2.0		4 tr	1	3
			518070	green	144.0	2.0		3 tr	1	1
			518071	green	146.0	2.0		2 tr	2	2
			518072	green	148.0	2.0		2 tr	2	2
			518073	green	150.0	2.0	locally fine grained 149.5 (40cm)	1 tr	2	1
			518074	green	152.0	2.0		2 tr	3	4
			518075	green/white/blk	154.0	2.0	153.3-153.8 hbl porphyry dyke	2 tr	1	1
			518076	red/olive	156.0	2.0	.5-3mm hbl, fresh sharp contacts	2 tr	1	9
			518077	green	158.0	2.0	buff colour/heavy alteration	3 tr	1	2
			518078	green	160.0	2.0	159.4 (10cm) qtz vein with pyrite @ vein contacts	3 tr	1	2
			518079	green	162.0	2.0		3 tr	1	2
			518080	green	164.0	2.0		2 tr	1	0
			518081	green	166.0	2.0		2 tr	1	1
			518082	green	168.0	2.0	2-3cm qtz-feld dyke 90 degrees to c/a	2 tr	1	1
			518083	green	170.0	2.0		2 tr	1	2
			518084	green	172.0	2.0		2 tr	1	3
			518085	green	174.0	2.0		4 tr	1	5
			518086	green	176.0	2.0		4 tr	1	1
			518087	green	178.1	2.1	sharp contact	4 tr	1	1
178.1	203.3	Granite:	518088	pink	180.0	1.9		2 tr	1	1
		Pink to pale green, medium to fine grained, subhedral. Pervasive sericite alteration, feldspars are waxy (green) and soft. Trace disseminated pyrite. Fractures contain clay +/- chlorite and diss.	518089	light pink	182.0	2.0		2 tr	1	1
		pyrite. Gradual intercalated upper contact with diorite for approximately 3.2m. Diorite and dacite	518090	pink/green	184.0	2.0	183-188.2 border with diorite and granite (intercalated twice).	2 tr	1	9

inclusions are found within the granite as well as some mafic clasts/dykes?

518091	pale green	186.0	2.0	185-186.2 chlorite rich, no sericite, 1cm granitic veins	3 tr	1	1
518092	pale green	188.0	2.0	x-cutting granite diorite contact.	2 tr	1	39
518093	pale green	190.0	2.0		1 tr	2	3
518094	pale green	192.0	2.0	partially resorbed dacite and diorite inclusions	1 tr	1	4
518095	pale green	194.0	2.0		1 tr	2	1
518096	pale green	198.0	2.0	195.6-198 mafic unit @45 degrees to c/a.	1 tr	2	1
518097	pale green	198.0	2.0	197-197.2 mafic unit	1 tr	2	2
518098	pale green	200.0	2.0	198.2-198.4 mafic unit	1 tr	2	24
518099	pale green	202.0	2.0	7cm dacite dyke	2 tr	2	26
518100	pale green	203.3	1.3		2 tr	1	17

End of Hole

PHELPS DODGE CORPORATION OF CANADA, LIMITED

PROPERTY: Laidman

PROJECT No: 253

Location: L110E.108+10N

Azimuth: 358

Dip: -55

Start Date: August 13, 1997

Complete Date: August 15, 1997

Length(m): 200.3

Core Size: NQ

Dip Tests: -51

DRILL HOLE NO: 97-2

Elevation: 1405

Claim No:

Section:

Date Logged: August 17, 1997

Logged by: Stephen Wetherup

Purpose:

From (metres)	To (metres)	Description	Colour	Sample #	To (metres)	Length (metres)	Comments	Chl	Py	Clay	Cpy	Au (ppb)
0	4.3	Casing										
4.3	85.7	Polyolithic monzodiorite breccia: f.g. monzodiorite matrix comprises ~50% of the rock. Altered mostly to chlorite with 1% to trace pyrite within the matrix. Pyrite occurs adjacent to fragments as pods and lenses and along chlorite veinlets (~0.5mm wide). Fragments are mostly of granitic in composition with some diorite, bleached diorite, rhyolite, and aphyric dacite mixed in locally. Fragments are between 1 and 10 cm in size with some as large as 1m. These large clasts are typically granite. A few fresh monzonite dykes cross-cut this unit as well as minor carbonate veinlets.	grey	518101	6.0	1.7		3	2	2		6
			grey	518102	8.0	2.0		3	2	2		7
			grey	518103	10.0	2.0		3	2	2		3
			grey	518104	12.0	2.0		3	2	2		8
			grey	518105	14.0	2.0		3	2	2		10
			grey	518106	16.0	2.0		3	2	2		10
			grey	518107	18.0	2.0		3	2	2		107
			grey	518108	20.0	2.0	monzonite dyke between 19.6 and 20.0	3	2	2		13
			grey	518109	22.0	2.0		3	2	2		14
			dark grey	518110	24.0	2.0		3	2	2		10
			dark grey	518111	26.0	2.0		4	2	2		3
			grey	518112	28.0	2.0		4	2	2		2
			grey	518113	30.0	2.0		3	2	2		4
			grey	518114	32.0	2.0		3	2	2		2
			grey	518115	34.0	2.0		3	2	2		11
			grey	518116	36.0	2.0		3	2	2		18
			dark grey	518117	38.0	2.0		4	2	2		19
			dark grey	518118	40.0	2.0		4	2	2		12
			grey	518119	42.0	2.0		3	2	2		28
			grey	518120	44.0	2.0		3	2	3		74
			grey	518121	46.0	2.0		3	2	3		57
			grey	518122	48.0	2.0	granite clast 46.8-48.2 m	3	2	3		17
			grey	518123	50.0	2.0		3	2	3		9
			grey	518124	52.0	2.0	chalky blue dusting along fractures	3	2	3		34
			grey	518125	54.0	2.0		3	2	3 tr		52
			grey	518126	56.0	2.0		3	2	3 tr		10
			grey	518127	58.0	2.0		3	2	3 tr		9
			grey	518128	60.0	2.0	few dark grey siliceous veinlets b/n 59.0 and 59.3	2	2	3 tr		4
			grey	518129	62.0	2.0		2	2	3 tr		24
			grey	518130	64.0	2.0	Fresh monzonite dyke b/n 63.5 and 64.5	2	2	3 tr		9
			light grey	518131	66.0	2.0		2	2	3		43
			light grey	518132	68.0	2.0		2	2	3		12
			light grey	518133	70.0	2.0		2	2	3		14
			light grey	518134	72.0	2.0	nearly all granite	2	2	4 tr		152
			light grey	518135	74.0	2.0	nearly all granite 69.9-74.0	3	2	4 tr		26
			grey	518136	76.0	2.0		3	2	3 tr		14
			light grey	518137	78.0	2.0	mostly granite and rhyolite	2	2	4		3
			light grey	518138	80.0	2.0		2	2	4		8
			light grey	518139	82.0	2.0	mostly granite	2	2	4		29
			grey	518140	84.0	2.0	breccia material highly chloritized and almost black.	3	2	4		177

85.7	128 Granite: Mafic minerals (likely biotite) completely altered to chlorite ~1-3%. K-feldspar are untouched by alteration but plagioclase is completely altered to sericite except within their cores which have been altered to epidote. K-feldspar and plagioclase are anhedral and intergrown. Grain size is 2-4 mm. Pyrite blebs, stringers and finely disseminated grains are ubiquitous throughout. Locally sericite alteration grades into a pervasive argillic alteration which affects even the K-feldspar. Light olive, 1cm to 40 cm feldspar-porphry dacite dykes cross-cut the granite in several places.	grey	518141	86.0	2.0 breccia material highly chloritized and almost black.	3	2	4	24
		light grey	518142	88.0	2.0	1	2	4	52
		light grey	518143	90.0	2.0	1	2	4	49
		light grey	518144	92.0	2.0 argillic zone begins @ 91.6 m	1	2	4	49
		light grey	518145	94.0	2.0 argillic zone ends @ 93.0 m	1	2	4	103
		light grey	518146	96.0	2.0 cross-cutting buff rhyolite dyke with disseminated pyrite and arsenopyrite?	1	2	4	192
		light grey	518147	98.0	2.0 pyrite is podded and not disseminated in this zone	1	1	4	54
		light grey	518148	100.0	2.0	1	2	4	tr 32
		light grey	518149	102.0	2.0	1	2	4	84
		light grey	518150	104.0	2.0	1	1	4	79
		light grey	518151	106.0	2.0 a few grey veinlets accompany the pyrite	1	1	4	tr 48
		light grey	518152	108.0	2.0 slightly more chloritic	2	1	4	55
		light grey	518153	110.0	2.0	1	2	4	146
		light grey	518154	112.0	2.0	1	1	4	37
		128	135.7 Feldspar porphyry dacite: 25-30%, 1-4 mm feldspar phenocrysts within a greenish grey to grey aphanitic matrix. Feldspars altered to sericite (white) but locally to chlorite +/- smectite (green). Alteration, fracturing, and bleaching of the groundmass occurs predominantly near contacts with the granite. Abundant disseminated pyrite (0.5-1 mm) and pyrite veins (1 mm), up to 5% locally.	light grey	518155	114.0	2.0	1	1
light grey	518156			116.0	2.0	1	1	4	8
light grey	518157			118.0	2.0	1	1	4	7
light grey	518158			120.0	2.0 sericite alteration decreasing	1	1	3	10
light grey	518159			122.0	2.0 sericite alteration decreasing	1	1	3	22
light grey	518160			124.0	2.0 plagioclase partially sericitized	1	1	3	16
light grey	518161			126.0	2.0	1	1	3	26
light grey	518162			128.0	2.0	1	1	3	11
grey	518163			130.0	2.0 bleached and fractured	1	2	4	78
grey	518164			132.0	2.0 some bleached zones	2	2	3	16
grey	518165			134.0	2.0	2	2	3	11
grey	518166			135.7	1.7 last 40cm bleached and fractured	2	2	4	8
light grey	518167			138.0	2.3 a few chalcopyrite blebs ~ 1 cm	tr	2	2	1 33
light grey	518168			140.0	2.0 dacite dyke starts at 139.7	tr	2	2	tr 8
light grey	518169			142.0	2.0 ends at 140.5	tr	2	2	tr 9
light grey	518170	144.0	2.0	tr	2	2	tr 16		
135.7	190.4 Granite: Plagioclase only partially altered to sericite, pyrite and other sulphides occur mainly as blebs and pods near aphyric dacite fragments, colour varies from light grey to light pinkish grey.	light grey	518171	146.0	2.0 an aphanitic dark grey mafic fragment @ 145.3 with adjacent cpy. in the granite.	tr	2	2	tr 15
		light grey	518172	148.0	2.0 few cpy blebs	tr	1	2	1 61
		light grey	518173	150.0	2.0	tr	2	2	tr 21
		light grey	518174	152.0	2.0 fresh section of granite b/n 152.0 and 152.5	tr	1	1	20
		light grey	518175	154.0	2.0	tr	2	2	tr 32
		light grey	518176	156.0	2.0	tr	2	2	1 46
		light grey	518177	158.0	2.0	tr	2	2	tr 11
		light grey	518178	160.0	2.0	tr	2	2	tr 31
		light grey	518179	162.0	2.0	tr	1	2	11
		light grey	518180	164.0	2.0 fresh granite	tr	1	1	3
		light grey	518181	166.0	2.0 2-3 mm wide pyrite veinlets becoming prominent with some pods several cm's in size.		2	1	tr 0
		light grey	518182	168.0	2.0 2-3 mm wide pyrite veinlets becoming prominent with some pods several cm's in size.		2	1	tr 3
		light grey	518183	170.0	2.0 3cm qtz vein with ~30% pyrite cubes @ 168.5 m		2	1	20
		light grey	518184	172.0	2.0 few 2-3 cm nests and pods of pyrite		2	1	tr 34
		light grey	518185	174.0	2.0		2	tr	tr 4

		light grey	518186	176.0	2.0			2 tr	tr	4
		light grey	518187	178.0	2.0	mafic xenolith @ 176.3 with 2-3% pyrite within it.	tr	2 tr	tr	9
		light grey	518188	180.0	2.0			1 tr		4
		light grey	518189	182.0	2.0	4 cm wide pyrite vein @ 180.1		1 tr		3
		light grey	518190	184.0	2.0	pyrite pods have stopped occurring leaving only the disseminated pyrite	tr	tr		3
		light grey	518191	186.0	2.0			1 tr		3
		light pink	518192	188.0	2.0		tr	tr		4
		light pink	518193	190.4	2.4		tr	tr		6
190.4	200.3	Feldspar porphyry dacite:								
		0-2%, 1-3 mm, hornblende. Generally not altered except within 10-15 cm of granite contacts where feldspars are altered to sericite/smectite. Also, altered zones contain minor (<1%) pyrite veinlets (1-2 mm).								
		End of hole 200.3 m								
		greenish gre	518194	192.0	1.6	about 50% granite	tr	tr	tr	8
		grey/pink	518195	194.0	2.0		tr	tr	tr	3
		greenish gra	518196	196.0	2.0		tr	tr	tr	6
		greenish gre	518197	198.0	2.0		tr	tr	tr	6
		greenish gre	518198	200.3	2.3		tr	tr	tr	3
						end				

PHELPS DODGE CORPORATION OF CANADA, LIMITED

PROPERTY: Laidman

PROJECT No: 253

Location: L110+50E, 110+00N

Azimuth: 003

Dip: -50

Start Date: August 15, 1997 5PM

Complete Date: August 17, 1997 1:30 AM

Length(m): 200.3

Core Size: NQ

Dip Tests: -53

DRILL HOLE NO: 97-3

Elevation: 1425

Claim No:

Section:

Date Logged: August 19, 1997

Logged by: Wetherup

Purpose: Test quartz breccia in the 110 zone

From (metres)	To (metres)	Description	Colour	Sample #	To (metres)	Length (metres)	Comments	Py	Clay	Qtz	Au (ppb)
0	4.6	Casing									
4.6	23.7	Weathered Granite: Two Types: Red: Plagioclase sericitically altered and rusty red in colour. K-feldspar and quartz fresh Yellow: plagioclase altered to kaolinite stained yellow K-feldspar altered to sericite. Both units contain a few chalcadonic veins with ~5-10% pyrite, buff coloured rhyolite clasts localized within some zones. * A siliceous "chert" breccia cross-cuts the granite in the weathered zone. Its comprised of of a dark grey cherty matrix with aphanitic white siliceous angular fragments.	yellow yellow yellow orange red orange orange red	518199 518200 518201 518202 518203 518204 518205 518206	6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0	1.4 2.0 2.0 2.0 2.0 2.0 2.0 2.0		2 2 2 1 1 2 2 2	5 5 4 3 2 4 4 2	1 1 2 4 4 4 4 5	5 8 6 12 5 8 6 4
			dark grey grey and red	518207 518208	22.0 23.7	2.0 1.7	chert breccia with abundant rusty fractures and pyrite veins. up to 22.7m is chert breccia.	2 2	tr 1	5 5	19 10
23.7	69.9	Altered Granite: Alteration is mostly sericitic alteration of both feldspars. Few scattered quartz and/or pyrite pods and veins. These veins are up to 3 cm thick but usually 0.5 cm. Disseminated and pods of pyrite occur within the granite locally composing up to 5% of the rock. Quartz veining and silicification occur sporadically within broad 1 to 2 m zones with up to 5-10% qtz. There are also a few fresh sections of granite.	white white light pink light pink white white white white white white light pink light pink white white white white white white white light yellow white white white light grey light pink light pink light pink	518209 518210 518211 518212 518213 518214 518215 518216 518217 518218 518219 518220 518221 518222 518223 518224 518225 518226 518227 518228 518229 518230 518231	26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 52.0 54.0 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	1cm pyrite vein @ 24.0m and a 4 cm qtz/py pod/vein @ 24.4m fresh to weakly sericitic from 37.2-38.0 argillic alteration. minor argillic @39.6 m @ 44.8 m a qtz/py zone few qtz/py pods and veins within argillically altered granite. few qtz/py pods and veins within argillically altered granite. from 57.0-58.0 m several qtz and py pods. @ 64.2-64.3 a cherty dacitic dyke and @ 65.3 small 2-3cm shear zone	3 1 1 tr 1 1 2 2 2 2 2 1 2 2 1 2 2 tr tr	5 3 3 3 4 4 5 5 5 5 4 4 5 5 5 5 5 5 5	1 tr 1 tr 1 1 2 2 2 2 2 5 2 2 tr tr	6 4 4 6 5 21 4 7 5 3 4 17 13 19 15 8 20 15 14 11 9 7 8

69.9	72.2 Rhyolite dyke: Very light greenish grey, aphanitic, aphyric dyke with a few pyrite blebs (<1%); weakly altered.	greenish grey	518232	72.2	2.2		tr	1	tr	8
		light pink	518233	74.0	1.8		tr	5	tr	7
72.2	116 Altered Granite:	light pink	518234	76.0	2.0	small 1-3mm sulphide vein sub-parallel to c/a @75.0-75.4	1	5	1	6
		light pink	518235	78.0	2.0		1	5	tr	14
		light pink	518236	80.0	2.0	several grey veins with pyrite 0.5 to 2 cm wide	2	5	tr	8
		white	518237	82.0	2.0		tr	5	tr	7
		white	518238	84.0	2.0		1	5	1	4
		light pink	518239	86.0	2.0	sericitic alteration	1	5	1	9
		light pink	518240	88.0	2.0	qtz/py zone from 85.9 to 87.0	2	5	2	16
		light pink	518241	90.0	2.0		1	5	2	11
		light pink	518242	92.0	2.0	2 large qtz/py veins sub// to c/a	3	4	4	32
		light pink	518243	94.0	2.0		1	5	2	10
		light pink	518244	96.0	2.0	sulphide breccia vein 2cm wide	2	5	2	16
		light pink	518245	98.0	2.0	slightly argillic	tr	5	1	9
		light pink	518246	100.0	2.0	few qtz veins (minor py)	1	5	2	8
		light pink	518247	102.0	2.0	few qtz veins (minor py)	tr	5	2	8
		light pink	518248	104.0	2.0	trace of cpy in a pyrite bleb; @ 103.9 a chloritic slip surface.	tr	5	1	4
		light pink	518249	106.0	2.0	@ 105.0 a chloritic slip zone 2 mm wide 30-35 degrees from c/a.	tr	5	tr	9
		light pink	518250	108.0	2.0	small pyrite zone	1	5	tr	4
		light pink	518251	110.0	2.0	2 rhyolite dykes; 108.1-108.2 and 108.6-108.9.	tr	5	tr	7
		light pink	518252	112.0	2.0	chlorite slip zone sub// to c/a b/n 111.4-111.9	tr	5	1	6
		116	200.3 Granite with breccia units: Contact with the granite is a zone of very dark grey to black aphanitic matrix with small 1 mm to 1 cm comminuted and sheared fragments of bleached white granite. The overall unit is a mixture of (1) granite with brecciated fragments of aphanitic, aphyric light green dacite, and (2) green feldspar porphyry dacite dykes containing angular fragments of granite. These two units are cross-cut by qtz +/-py +/-dolomite +/-sphalerite veins. Alteration of the granite is either feldspar to epidote or smectite giving it a light apple green colour. Throughout is 0.5% disseminated pyrite. Some localized zones of fresh granite occur near the bottom of the hole.	light pink	518253	114.0	2.0	becoming argillic	tr	5
light pink	518254			116.0	2.0	mostly argillic	tr	5	tr	5
grey	518255			118.0	2.0		1	1	1	14
light green	518256			120.0	2.0		1	2	1	15
light green	518257			122.0	2.0		1	2	1	84
light green	518258			124.0	2.0		1	3	2	12
light green	518259			126.0	2.0	little matrix, mostly heavily silicified granite clasts.	1	3	3	23
light green	518260			128.0	2.0	qtz veins b/n 128 and 129.0	1	2	3	22
light pink	518261			130.0	2.0		1	2	4	13
light green	518262			132.0	2.0	diorite clast from 131.5-132.0	2	2	2	5
light green	518263			134.0	2.0	last 1m is rhyolite dyke	tr	1	1	13
light green	518264			136.0	2.0	almost all fresh granite with py veins and a 5cm qtz vein	1	1	3	15
light green	518265			138.0	2.0		tr	1	1	15
light green	518266			140.0	2.0		tr	2	1	34
light green	518267			142.0	2.0	several qtz veins minor sph.	1	2	3	26
light green	518268			144.0	2.0		1	2	2	18
light green	518269			146.0	2.0	epidote/smectite altered granite	1	4	1	16
light green	518270			148.0	2.0		1	4	2	27
light green	518271	150.0	2.0	minor dolomite in qtz/py veins	1	4	2	13		
light green	518272	152.0	2.0	numerous qtz-py-dol-sph veins	1	4	3	20		
light green	518273	154.0	2.0	feldspar-porphyry andesite dyke b/n 153.0 and 154.6	tr	3	1	7		
light green	518274	156.0	2.0		1	4	2	14		

200.3 End of Hole

light green	518275	158.0	2.0	from 158.0-158.3 dacite with granite fragments	1	4	1	20
light green	518276	160.0	2.0		1	4	1	21
light green	518277	162.0	2.0		tr	4	1	19
light green	518278	164.0	2.0	few pyrite zones	2	4	1	17
light green	518279	166.0	2.0		1	4	1	37
light green	518280	168.0	2.0	massive aphyric dacite from 167.6-168.1	1	4	1	16
light green	518281	170.0	2.0	several qtz-dol-py veins	1	3	2	32
light green	518282	172.0	2.0		1	3	1	22
light green	518283	174.0	2.0	large qtz-dol veins (10cm) @ 172.1 with 1cm blebs of cpy. and disseminated sph.	1	3	3	25
light green	518284	176.0	2.0	minor cpy. In veins	1	3	3	36
light green	518285	178.0	2.0	poss. malachite within a dacite fragment.	1	4	2	10
light green	518286	180.0	2.0	feldspar-porphry dacite dyke 178.1-179.0	tr	2	tr	1
light green	518287	182.0	2.0		tr	3	1	10
light green	518288	184.0	2.0	few chalcedonic veins.	tr	3	2	10
light pink	518289	186.0	2.0		1	3	3	4
light green	518290	188.0	2.0	few chalcedonic veins	1	3	3	3
light green	518291	190.0	2.0	few chalcedonic veins.	1	3	3	29
light green	518292	192.0	2.0		1	3	1	15
light green	518293	194.0	2.0		1	3	2	21
light green	518294	196.0	2.0		1	3	1	139
light green	518295	198.0	2.0		1	3	2	16
light green	518296	200.3	2.3		1	3	2	131

PHELPS DODGE CORPORATION OF CANADA, LIMITED

PROPERTY: Laidman
 PROJECT No: 253
 Location: L112+10E, 107+25N
 Azimuth: 350
 Dip: -55
 Start Date: August 17, 1997 5AM
 Complete Date: August 18, 1997 4PM

Length(m): 200.3
 Core Size: NQ
 Dip Tests: -54

DRILL HOLE NO: 97-4

Elevation: 1377
 Claim No:
 Section:

Date Logged: August 21, 1997
 Logged by: Wetherup

Purpose: To test Au soil anomaly at the 110 zone.

From (metres)	To (metres)	Description	Colour	Sample #	To (metres)	Length (metres)	Comments	Chl	Clay	Py	Cpy	Au (ppb)
0	7.3	Casing										
7.3	65.1	Diorite to Monzodiorite: medium grained, hornblende ~20%, biotite ~5-10%, mafic minerals are fresh to chlorite altered. Feldspars altered to sericite locally. Disseminated pyrite and pyrite along veinlets is common.	grey	518297	10.0	2.7		4	1	tr		0
			grey	518298	12.0	2.0		3	1	tr		
			grey	518299	14.0	2.0		3	1	1		
		Few buff rhyolite dykes and 1-3mm calcite veins with chlorite selvages cross-cut the unit. Bleached diorite zones accompanied by an increase in disseminated pyrite occur throughout. Trace epidote.	grey	518300	16.0	2.0		3	1	1	tr	1
			grey	518301	18.0	2.0	rhyolite dyke from 17.6-19.2	3	1	1		
			grey	518302	20.0	2.0		2	1	1		
			grey	518303	22.0	2.0	1m bleached diorite zone	2	2	2		4
			grey	518304	24.0	2.0	bleached diorite	2	2	2		
			grey	518305	26.0	2.0		2	2	1		
			grey	518306	28.0	2.0	small pink granitic dyke at 27.6 large cal-py vein @ 28.4 m. From 28.4-29.5 sub// to c/a granitic dyke (1cm)	2	tr		1	2
			grey	518307	30.0	2.0		2	1	1		
			grey	518308	32.0	2.0		2	1	tr		
			grey	518309	34.0	2.0		3	1	tr		1
			grey	518310	36.0	2.0		3	1	tr		
			grey	518311	38.0	2.0	argillic vein (1cm) sub// to c/a running from 38.5-38.9	3	1	tr		
			grey	518312	40.0	2.0	2 argillic veins @ 45 degrees to c/a	3	1	tr		2
			grey	518313	42.0	2.0		3	1	tr		
			grey	518314	44.0	2.0	few cal-py veins	3	1	1		
			grey	518315	46.0	2.0	few cal-py veins @ 30 degrees to c/a	3	1	1		3
			grey	518316	48.0	2.0		2	tr	1		
			grey	518317	50.0	2.0	~20-25 cal-py veins over 2m	3	2	1		
			grey	518319	52.0	2.0	bleached zone from 51.7-53.0	3	3	1		12
			grey	518320	54.0	2.0	poss. shear zone within bleached diorite zone @ 52.7-52.9 m	3	4	1		
			grey	518321	56.0	2.0	partially assimilated granite fragments within diorite.	3	3	tr		
			grey	518322	58.0	2.0	assimilated granite fragments to 57.0m then monzodiorite with diorite rounded fragments	2	1	tr		2
			grey	518323	60.0	2.0	rounded diorite clasts within a monzodiorite matrix	2	1	1		
			grey	518324	62.0	2.0	diorite with granite fragments in various stages of assimilation	3	1	1		

		grey	518325	64.0	2.0	diorite with granite fragments in various stages of assimilation	3	2	1	6
		grey	518326	65.1	1.1	diorite with granite fragments in various stages of assimilation	3	2	1	
65.1	84.4 Granite:	grey	518327	67.0	1.9	~1m of altered diorite and 0.9m granite	2	3	1	
		light pink	518328	69.0	2.0			1	tr	12
		light pink	518329	71.0	2.0			1	1	
		light pink	518330	73.0	2.0	qtz vein @71.5		1	1	
		light pink	518331	75.0	2.0			1	1	6
		light pink	518332	77.0	2.0	few diorite clasts	1	1	1	
		light pink	518333	79.0	2.0			1	1	
		light pink	518334	81.0	2.0			1	1	2
		light pink	518335	83.0	2.0			1	1	
		light pink	518336	84.4	1.4		1	1	1	
						bleached zone to 84.7 with bleached veinlets diminishing to				
84.4	106 Diorite:	grey	518337	86.0	1.6	86.0	4	1	1	6
		grey	518338	88.0	2.0		4	1	1	
		grey	518339	90.0	2.0	olive dacite dyke with a 4cm qtz vein runs from 89.2-89.6	4	1	1	
						bleaching and cal-py veins increasing in volume and number				
		grey	518340	92.0	2.0		4	3	2	34
		grey	518341	94.0	2.0		4	3	2	
		grey	518342	96.0	2.0		4	3	2	
		grey	518343	98.0	2.0		4	2	1	20
		grey	518344	100.0	2.0		4	2	1	
		grey	518345	102.0	2.0		4	2	1	
		grey	518346	104.0	2.0	3cm qtz vein with py at 103.2	4	2	1	24
106	164.8 Altered Diorite:	olive grey	518347	106.0	2.0	highly bleached with granite dyke from 105.8-106.0	4	3	3	
						granite dyke runs from				
		olive grey	518348	108.0	2.0	107.6-108.1	4	3	3	
		olive grey	518349	110.0	2.0	granite dyke from 109.2-110.2	4	3	3	121
		olive grey	518350	112.0	2.0	2 small granitic dykes.	4	3	3	
						diorite cross-cut by multitude of veins.				
		olive grey	518351	114.0	2.0		4	3	3	
		olive grey	518352	116.0	2.0		4	3	3	127
		olive grey	518353	118.0	2.0		4	3	3	
		olive grey	518354	120.0	2.0		4	3	3	
		olive grey	518355	122.0	2.0		4	3	3	102
		grey	518356	124.0	2.0		4	3	3	
		grey	518357	126.0	2.0		4	3	3	
		grey	518358	128.0	2.0		3	3	3	17
		grey	518359	130.0	2.0		3	3	3	
		grey	518360	132.0	2.0		3	3	3	
		grey	518361	134.0	2.0		3	3	3 tr	14
		grey	518362	136.0	2.0		3	2	1 tr	
		grey	518363	138.0	2.0		3	2	1 tr	
		grey	518364	140.0	2.0	silicified	3	2	3 tr	35
						sub// shear zone from 141.2-144.0, mineralized with calcite, py and a v.f.g grey mineral.				
		grey	518365	142.0	2.0		3	3	3 tr	
		grey	518366	144.0	2.0		3	3	3 tr	
		grey	518367	146.0	2.0	few silicified zones	3	3	3	103

		grey	518368	148.0	2.0	few silicified zones	3	3	3	
		grey	518369	150.0	2.0	few silicified zones	4	3	2	
		grey	518370	152.0	2.0		4	3	2	9
		grey	518371	154.0	2.0		4	3	2	
		grey	518372	156.0	2.0		4	3	2	
		grey	518373	158.0	2.0		4	3	3	5
		grey	518374	160.0	2.0		4	3	3	
		grey	518375	162.0	2.0		4	3	3	
164.8	200.3	grey	518376	164.8	2.8		3	3	3 tr	5
		light pink	518377	168.0	1.2			tr	2 tr	
		light pink	518378	170.0	2.0			tr	1	
		light pink	518379	172.0	2.0	cal-py pod from 170.3-170.4		tr	1	11
		light pink	518380	174.0	2.0			tr	1	
		light pink	518381	176.0	2.0			tr	2	
		light plnk	518382	178.0	2.0			tr	2	13
		light pink	518383	180.0	2.0			tr	1 tr	
		light pink	518384	182.0	2.0			tr	1	
		light pink	518385	184.0	2.0			tr	1	4
		light pink	518386	186.0	2.0			tr	1 tr	
		light pink	518387	188.0	2.0		tr	tr	1 tr	
		light pink	518388	190.0	2.0		tr	tr	1 tr	9
		light pink	518389	192.0	2.0		tr		1 tr	
		light pink	518390	194.0	2.0		tr		1 tr	
		light pink	518391	196.0	2.0		1		1 tr	8
		light pink	518392	198.0	2.0				1 tr	
200.3	End of Hole	light pink	518393	200.3	2.3				1 tr	

PHELPS DODGE CORPORATION OF CANADA, LIMITED

PROPERTY: Laidman
 PROJECT No: 253
 Location: L111+00E, 107+70N
 Azimuth: 360
 Dip: -55
 Start Date: August 18, 1997 11AM
 Complete Date: August 20, 1997 10:45AM

DRILL HOLE NO. 97-5

Length(m): 200.3
 Core Size: NQ
 Dip Tests: -54.5

Elevation: 1397
 Claim No:
 Section:

Date Logged: August 22, 1997
 Logged by: Wetherup

Purpose: Test Au and Ag soil anomaly south of 110 zone

From (metres)	To (metres)	Description	Colour	Sample #	To (metres)	Length (metres)	Comments	Chl	Clay	Py	Au (ppb)
0	4	Casing									
4	23.8	Granite: mg.-cg., fresh to mildly sericitic. Aphanitic, aphyric rhyolite/dacite xenoliths common. Rare sulphide (py) veins and trace disseminated py. where altered. Rare argillic zones with sericitic alteration enveloping them (0.5m wide).	light grey	518394	6.0	2.0	very mildly weathered		2	1	2
			light grey	518395	8.0	2.0	very mildly weathered		2	1	
			light grey	518396	10.0	2.0	very mildly weathered		2	1	
			light grey	518397	12.0	2.0	a small argillic zone @ 11.5 m with sericite alteration envelope		4	1	20
			light grey	518398	14.0	2.0			3	1	
			light grey	518399	16.0	2.0			4	tr	
			light grey	518400	18.0	2.0			3	tr	6
			light grey	518401	20.0	2.0			3	tr	
							small black shear zone with py. b/n 21.3 and 21.4 (~30 deg. to c/a)				
23.8	30.6	Altered Diorite.	light grey	518402	22.0	2.0			3	1	
			light grey	518403	23.8	1.8	argillic zone @ 23.3		3	1	4
							dark grey shear zone @ 25.7-26.1, ~20% py and 30% enargite +/or bornite.				
			light green	518404	26.0	2.2		3	4	3	27
			light green	518405	28.0	2.0		3	5	2	13
			dark green	518406	30.6	2.6		5	3	1	
							several py veins within the vicinity of the diorite contact.	1	5	2	
30.6	200.3	Granite: Some zones are dark green and altered to chlorite with magnetite still present but little to no pyrite as before except local zones with very light green aphanitic aphyric rhyolite clasts and the odd diorite clast. A few 0.5-1m olive coloured dacite and dark green mafic dykes.	light grey	518407	32.0	1.4		1	5	2	18
			light grey	518408	34.0	2.0	few py veins and diss. py.	2	4	2	
			light grey	518409	36.0	2.0	few diorite clasts and py. veins	2	3	2	
			light grey	518410	38.0	2.0	few diorite clasts and py. veins	2	3	2	
			light grey	518411	40.0	2.0		1	3	2	34
							few dark grey veins with minor py.				
			light grey	518412	42.0	2.0		tr	3	2	
			light grey	518413	44.0	2.0			3	1	
			light grey	518414	46.0	2.0	diss. py.		3	2	45
			light grey	518415	48.0	2.0	diss. py.		3	2	
							diss. py. and grey veins with py pods and stringers @ 49.5		3	2	
			light grey	518416	50.0	2.0			3	2	6
			light grey	518417	52.0	2.0	diss. py and stringers		3	2	
			light grey	518418	54.0	2.0	few rhyolite clasts		3	2	
							silicified zone with py stringers and dark grey veinlets.		3	2	
			light grey	518419	56.0	2.0			3	1	0
			light grey	518420	58.0	2.0	minor epidote		2	1	
			light grey	518421	60.0	2.0	unaltered granite		2	1	
			light grey	518422	62.0	2.0	py vein @61.2	tr	2	1	
			light grey	518423	64.0	2.0			3	1	11
			light grey	518424	66.0	2.0	fresh granite		2	tr	
			light grey	518425	68.0	2.0	few thin py veins		2	1	
			light grey	518426	70.0	2.0	few argillic zones and py veins		4	2	9
			light grey	518427	72.0	2.0	10cm pyrite zone @70.8		2	2	

light grey	518428	74.0	2.0 fg. mafic clast with reaction rim and pyrite adjacent to it	1	3	1
light grey	518429	76.0	2.0 pyrite diss., in blebs and stringers		3	2
light grey	518430	78.0	2.0 1cm py vein at 77.2		3	2
light grey	518431	80.0	2.0 few py blebs and sericitic alteration		3	2
light grey	518432	82.0	2.0 small shear zone @81.3 with py mineralization		4	2
light grey	518433	84.0	2.0 few soft steel grey veinlets and argillic zones		4	1
light grey	518434	86.0	2.0 couple of slip surfaces with fg. dark grey mineral displaying slicks		4	1
light grey	518435	88.0	2.0 shear zones @87.4 and 87.6 with chl., py., and mo?		4	1
light grey	518436	90.0	2.0		3	1
light grey	518437	92.0	2.0	tr	2	tr
light grey	518438	94.0	2.0 rhyolite clasts		2	tr
light grey	518439	96.0	2.0		2	tr
light grey	518440	98.0	2.0 2 argillic zones		4	1
light grey	518441	100.0	2.0		3	1
light grey	518442	102.0	2.0		3	1
light grey	518443	104.0	2.0		3	tr
light grey	518444	106.0	2.0 few py pods		3	1
light grey	518445	108.0	2.0 few mo. ? veinlets		2	1
light grey	518446	110.0	2.0 mo? veinlets from 108.8 to 109.3		2	1
light grey	518447	112.0	2.0 few argillic zones		4	1
light grey	518448	114.0	2.0		2	tr
light grey	518449	116.0	2.0		3	tr
light grey	518450	118.0	2.0 few argillic zones		4	1
light grey	518451	120.0	2.0 rhyolite dyke 119.2-120.5 with sericitic granite adjacent		4	2
light grey	518452	122.0	2.0 several large py pods		3	2
light grey	518453	124.0	2.0		3	1
light grey	518454	126.0	2.0 heavily fractured and silicified zone with py and enargite		3	1
light grey	518455	128.0	2.0 silicified granite with tr. cpy		1	1
light grey	518456	130.0	2.0 from 128.8-130.2 dacite dyke	3	3	tr
light grey	518457	132.0	2.0 trace chlorite along fractures	tr	3	1
light grey	518458	134.0	2.0 2 silicified zones @ 132.4 and 133.3-133.4 with enargite		3	1
light grey	518459	136.0	2.0 shear zone @134.2 to 134.6 some silicification		4	1
light grey	518460	137.9	1.9 dacite dyke 136.3-137.9	1	4	tr
light grey	518461	140.0	2.1 heavily silicified from dacite contact to 141	tr		3
light grey	518462	142.0	2.0 mostly silicified		1	3
light grey	518463	144.0	2.0 1m dacite dyke		2	1
light grey	518464	146.0	2.0 fg. mafic dyke 1.6m	2	3	2
light grey	518465	148.0	2.0		1	2
light grey	518466	150.0	2.0		1	tr
light grey	518467	152.0	2.0		1	1
light grey	518468	154.0	2.0		3	1
light grey	518469	156.0	2.0		3	2
light grey	518470	158.0	2.0		3	2
light grey	518471	160.0	2.0		3	2
light grey	518472	162.0	2.0		3	2

light grey	518473	164.0	2.0		3	2	
light grey	518474	166.0	2.0	black specks within pyrite blebs	3	2	25
light grey	518475	168.0	2.0		3	1	
light grey	518476	170.0	2.0	few grey and chalcedony veins	3	1	
light grey	518477	172.0	2.0		3	tr	19
light grey	518478	174.0	2.0	silicified zone 173.6-173.8	2	1	
				sulphide bleb 174.8-174.9 and flow banded rhyolite dyke			
light grey	518479	176.0	2.0	175.1-176.9	2	2	
light grey	518480	178.0	2.0		3	1	19
light grey	518481	180.0	2.0	diorite dyke from 179.3-181.0	3	3	1
light grey	518482	182.0	2.0		3	1	tr
light grey	518483	184.0	2.0		tr		1
light grey	518484	186.0	2.0		tr	tr	32
light grey	518485	188.0	2.0		3		1
light grey	518486	190.0	2.0		tr		1
light grey	518487	192.0	2.0		tr		2
light grey	518488	194.0	2.0		tr		2
light grey	518489	196.0	2.0		tr		2
light grey	518490	198.0	2.0		tr		2
light grey	518491	200.3	2.3		tr		2

200.3 End of Hole

APPENDIX II

Analytical Method and Certificates

Core Samples

ICP A 30 gram sample is digested with 180 millilitres 3-1-2 HCL-HNO₃-H₂O at 95° C for one hour and is diluted to 600 millilitres with water. This each is partial for Mn, Fe, Sr, Ca, P, La, Cr, Mg, Ba, Ti, B, W and limited for Na, K, Ga and Al. The solution is analysed directly by ICP. Mo, Cu, Pb, Zn, Ag, As, Au, Cd, Sb, Bi, Tl, Hg, Se, Te and Ga are extracted with MIBK-Aliquat 336 and analysed by ICP. Elevated detection limits for samples contain Cu, Pb, Zn, As>1500 ppm, Fe>20%.

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



GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE

Phelps Dodge Corp. PROJECT 253 File # 97-4596 Page 1

1409 - 409 Granville St., Vancouver BC V6T 1T2 Submitted by: Steve Wetherup

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg % ppm	Ba % ppm	Ti % ppm	B %	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
518185	6.4	15.0	15.0	8.8	780	4	2	201	1.55	4.2	<5	6	18	.11	.3	.8	2	.47	.016	5	15	.02	27<.01	<3	.19	.05	.14	6	<2	22	<.3	.2	.9	4	
518186	3.5	11.2	13.9	8.4	611	3	2	235	1.38	5.4	<5	7	19	.14	.4	.5	2	.52	.016	9	15	.06	26<.01	<3	.18	.05	.13	7	<2	<10	<.3	.3	.8	4	
518187	5.2	11.4	15.1	11.5	618	5	2	333	2.00	5.3	<5	7	24	.10	.4	.7	9	.73	.030	10	18	.20	36<.01	<3	.34	.04	.20	6	<2	19	<.3	<2	1.4	9	
518188	3.2	23.1	11.9	5.9	630	3	1	498	1.39	7.2	<5	6	21	.11	1.5	.4	2	.92	.019	5	15	.04	25<.01	<3	.23	.03	.17	7	<2	<10	<.3	.2	.9	4	
518189	4.2	14.3	6.7	4.8	516	3	1	429	1.56	4.9	<5	6	19	.06	1.6	.4	2	.88	.018	10	15	.10	25<.01	<3	.22	.04	.13	6	<2	<10	<.3	<2	.6	3	
518190	3.2	9.5	8.9	<1	429	3	1	243	1.31	3.1	<5	7	17	.03	.5	.5	1	.56	.018	8	17	.04	25<.01	<3	.24	.04	.16	9	<2	<10	<.3	.2	.7	3	
518191	4.1	10.7	7.5	<1	322	4	1	233	1.24	2.8	<5	8	17	<.01	.3	.4	1	.53	.020	8	16	.05	38<.01	<3	.22	.04	.16	6	<2	<10	<.3	.2	.6	3	
518192	7.9	9.3	8.7	4.6	575	5	4	395	1.93	3.6	<5	8	39	.04	.7	.7	9	1.08	.032	9	16	.25	50.01	<3	.38	.04	.23	8	<2	<10	<.3	.4	1.4	4	
518193	3.2	17.0	5.2	5.5	119	4	2	196	1.12	2.3	<5	8	15	.03	.3	.3	6	.45	.019	16	16	.15	49.02	<3	.28	.06	.14	6	<2	<10	<.3	<2	1.6	6	
518194	1.6	459.0	5.0	31.3	608	7	2	478	3.62	4.7	6	4	39	.08	.3	<.1	57	1.45	.079	12	21	1.04	84.11	<3	1.19	.05	.22	6	<2	68	<.3	.4	7.1	8	
RE 518194	1.5	449.2	4.5	30.8	556	7	2	466	3.53	4.4	<5	4	38	.07	.2	.1	57	1.41	.077	11	20	1.01	82.11	<3	1.16	.05	.21	7	<2	58	<.3	.3	6.5	9	
RRE 518194	1.9	463.1	4.4	31.3	549	8	2	479	3.62	4.5	8	4	39	.04	.2	<.1	60	1.44	.080	12	21	1.05	93.11	<3	1.20	.06	.22	5	<2	53	<.3	.2	7.0	10	
518195	2.0	63.2	5.5	11.6	338	4	1	361	1.53	3.8	6	7	26	.03	1.4	.1	17	1.12	.022	17	16	.41	54.03	<3	.53	.06	.25	7	.2	<10	<.3	<2	3.0	3	
518196	5.7	295.2	4.9	35.3	329	8	3	462	3.88	2.9	5	5	45	.08	.2	.4	62	.98	.086	9	21	1.12	146.13	<3	1.24	.07	.29	9	<2	36	<.3	.2	6.7	6	
518197	3.8	291.2	6.4	42.7	738	8	8	536	3.86	6.3	<5	4	50	.06	1.7	.4	60	1.15	.088	9	21	1.06	122.13	<3	1.23	.06	.14	58	<2	56	<.3	.4	5.7	8	
518198	4.2	260.0	2.7	39.3	292	7	5	482	3.51	1.7	<5	5	47	.03	<.2	.1	64	1.00	.092	9	21	1.04	200.14	<3	1.21	.07	.12	23	<2	18	<.3	.2	6.1	3	
518199	17.3	32.4	51.5	65.7	1172	3	1	43	2.71	25.2	<5	8	5	.03	16.6	1.1	4	.02	.020	6	12	.03	89<.01	<3	.59	.01	.23	6	<2	36	1.4	1.1	2.1	5	
518200	13.7	44.4	88.0	58.8	751	3	1	36	2.86	30.7	<5	8	4	.02	11.1	1.0	2	.01	.033	7	11	.02	59<.01	<3	.53	<.01	.16	4	<2	33	1.1	1.0	1.8	9	
518201	15.4	23.7	56.9	10.8	1246	2	3	24	1.61	21.9	<5	5	4	.05	11.2	.5	2	<.01	.010	5	10	.02	73<.01	<3	.47	.01	.14	5	<2	49	1.3	.3	1.2	5	
518202	21.9	54.4	349.4	45.1	951	2	1	38	2.18	42.4	<5	8	4	.04	13.1	2.1	7	.01	.032	9	8	.04	99<.01	<3	.55	<.01	.26	2	<2	70	8	.8	2.0	12	
518203	15.8	39.7	107.9	28.8	574	1	1	29	1.44	13.9	<5	8	3	.01	5.3	1.0	2	<.01	.018	10	9	.01	206<.01	<3	.47	<.01	.12	4	<2	15	.5	.3	1.3	5	
518204	27.9	74.1	130.3	53.6	683	2	1	31	2.30	16.3	<5	8	3	.03	3.3	.9	2	<.01	.036	8	8	.01	220<.01	<3	.49	<.01	.12	3	<2	37	.6	.2	1.7	8	
518205	30.5	62.1	47.9	60.6	506	2	1	32	1.70	8.6	<5	8	4	.02	2.9	1.2	2	.01	.022	8	9	.01	101<.01	<3	.50	<.01	.13	4	<2	20	.3	.2	1.1	6	
518206	24.8	39.8	41.1	33.9	874	2	2	22	1.78	7.3	<5	7	2	.01	1.9	.5	1	<.01	.012	5	10	.02	112<.01	<3	.45	<.01	.14	3	<2	37	.4	<2	1.2	4	
RE 518206	25.0	39.8	40.4	33.4	931	3	2	25	1.83	7.6	<5	8	2	<.01	1.8	.4	1	<.01	.012	5	10	.02	111<.01	<3	.45	<.01	.14	3	<2	26	.4	<2	1.1	3	
RRE 518206	26.0	44.4	44.3	37.4	1103	2	2	28	1.86	7.8	<5	8	2	.01	2.0	.5	1	<.01	.013	4	10	.02	105<.01	<3	.49	.01	.16	5	<2	46	.4	.2	1.0	2	
518207	385.5	737.3	144.8	159.1	7643	6	33	35	4.57	19.1	<5	7	4	2.57	6.0	<1.3	3	<.01	.023	4	15	.01	13<.01	<3	.25	<.01	.11	5	<2.6	317	<.3	9	<2.6	9.4	19
518208	66.8	472.1	63.7	74.4	2682	9	78	28	5.43	11.3	<5	6	2	.38	6.6	.4	3	<.01	.017	7	13	.01	15<.01	<3	.39	<.01	.14	6	.3	145	2.2	.5	2.0	10	
518209	36.3	88.0	86.2	83.4	1127	6	48	23	4.38	3.4	<5	6	5	1.47	2.4	.4	2	<.01	.006	11	12	.01	24<.01	<3	.40	<.01	.12	4	.2	70	1.7	<2	1.3	6	
518210	7.7	31.9	27.2	47.6	497	3	2	43	.90	1.5	<5	8	6	1.81	1.2	.4	2	.01	.009	17	13	.02	55<.01	<3	.45	.02	.12	6	<2	11	.3	<2	1.0	4	
518211	18.8	13.2	20.4	88.6	549	4	3	428	1.08	1.5	<5	7	7	2.17	1.2	.4	2	.03	.012	14	13	.03	77<.01	<3	.32	.03	.12	5	<2	<10	<.3	<2	.6	4	
518212	31.0	12.8	41.6	244.9	638	4	7	46	1.37	1.7	<5	7	8	3.09	1.4	.4	1	.01	.012	12	16	.04	58<.01	<3	.38	.02	.14	7	.2	<10	.4	<2	.9	6	
518213	53.9	11.3	52.2	118.5	818	4	12	35	1.59	2.0	<5	7	5	2.44	1.5	.7	2	.01	.006	14	15	.03	39<.01	<3	.41	.01	.13	5	.3	<10	<.3	<2	.9	5	
518214	39.9	2586.2	252.5	538.6	25901	3	13	31	1.96	88.5	<5	6	5	6.99	171.8	2.3	1	.01	.005	10	15	.01	33<.01	<3	.33	.01	.16	7	<6	1045	<.9	1.1	2.6	21	
STANDARD DZ/HG-500/AU-R	25.7	129.9	107.1	271.8	2140	33	17	1081	4.86	74.5	19	22	58	2.19	9.6	21.3	78	.72	.114	19	60	1.29	264.15	23	2.45	.05	.73	23	2.3	446	3	2.1	7.5	528	

ICP - 30 GRAM SAMPLE IS DIGESTED WITH 180 ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL. SOLUTION ANALYSED DIRECTLY BY ICP. MO CU PB ZN AG AS AU CD SB BI TL HG SE TE AND GA ARE EXTRACTED WITH MIBK-ALIQUOT 336 AND ANALYSED BY ICP. ELEVATED DETECTION LIMITS FOR SAMPLES CONTAIN CU,PB,ZN,AS>1500 PPM,Fe>20%.

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

DATE RECEIVED: AUG 22 1997 DATE REPORT MAILED: Aug 28/97 SIGNED BY: C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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

Data FA



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb	
518215	70.0	26.9	148.7	341.3	1287	4	11	25	1.98	3.4	<5	6	4	3.83	2.8	.6	1<.01	.004	8	14<.01	41<.01	<3	.23<.01	.13	6	.4	55	.9	<.2	.9	.4					
518216	44.4	64.1	188.9	526.3	5488	3	16	29	2.73	6.0	<5	6	4	4.53	15.2	1.1	1<.01	.004	9	14<.01	30<.01	<3	.27<.01	.13	7	.3	67	1.3	.4	.8	.7					
518217	43.2	13.8	126.7	203.3	1504	3	12	20	2.02	2.2	<5	5	3	1.74	2.2	.9	1<.01	.002	7	13<.01	32<.01	<3	.23<.01	.13	4	.3	19	1.0	.2	.8	.5					
518218	66.3	12.8	99.7	357.3	1553	3	10	27	2.00	1.3	<5	6	4	2.74	1.4	.8	2<.01	.004	8	15<.01	50<.01	<3	.25	.01	.15	7	.3	34	1.0	<.2	.5	.3				
518219	73.0	12.5	120.9	580.1	1769	4	9	35	1.99	1.3	5	5	4	4.09	1.1	.8	1	.02	.007	8	14<.01	58<.01	<3	.26<.01	.15	5	.4	46	1.0	<.2	.7	.4				
RE 518219	70.9	11.6	118.9	560.1	1808	4	9	32	1.93	1.1	6	5	4	4.11	1.3	.9	1	.02	.007	8	14<.01	58<.01	<3	.25<.01	.15	5	.3	34	.9	<.2	<.5	.5				
RRE 518219	76.0	12.7	109.2	497.6	1755	4	9	37	1.91	1.3	<5	5	4	3.60	1.1	.7	<1	.02	.007	8	14<.01	60<.01	<3	.26<.01	.15	8	.2	45	.9	<.2	<.5	.4				

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



GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE
Phelps Dodge Corp. PROJECT 253 File # 97-4676 Page 1
 1409 - 409 Granville St., Vancouver BC V6T 1T2 Submitted by: Stephen Wetherup



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	Au+
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	
518220	54.1	21.1	160.4	363.8	3242	2	11	27	2.15	2.9	<5	5	3	2.97	6.8	1.1	1	.03	.012	6	8	.01	34<.01	<3	.18<.01	.11	2	.4	156	1.2	.2	.7	17		
518221	36.2	10.1	115.0	165.3	1946	1	5	21	1.23	1.2	<5	7	4	1.36	2.2	1.0	1	.03	.012	8	7	.01	57<.01	<3	.24	.01	.11	2	.4	73	.7	<.2	.6	13	
518222	37.0	28.2	261.2	881.2	4983	3	17	23	3.46	6.5	<5	6	3	7.86	9.9	1.6	1	.04	.015	6	8	.01	14<.01	3	.23<.01	.15	2	.4	267	1.9	<.2	.5	19		
518223	56.0	18.9	382.0	1152.8	3381	1	11	30	2.08	2.5	<5	4	3	8.86	6.0	2.0	1	.06	.020	7	7	.02	37<.01	6	.25<.01	.17	2	.5	154	1.1	<.2	.8	15		
518224	44.7	14.6	280.7	262.1	1743	1	9	26	1.71	2.2	<5	5	3	2.21	3.9	1.3	1	.05	.019	6	7	.01	34<.01	<3	.24<.01	.16	2	.5	82	.9	.2	.7	8		
518225	26.2	19.3	208.9	490.6	1809	<1	7	28	1.55	2.6	<5	5	3	4.27	6.2	1.2	2	.06	.022	7	7	.02	43<.01	4	.32<.01	.19	2	.4	65	.8	<.2	.7	20		
518226	42.5	22.0	265.8	425.9	2202	2	11	26	1.89	3.2	<5	5	2	3.89	6.9	1.3	1	.05	.018	6	8	.01	46<.01	6	.25<.01	.17	<2	.4	84	1.1	<.2	.7	15		
518227	19.4	39.2	324.9	447.7	4252	2	11	21	1.60	4.8	<5	4	2	4.06	16.2	1.2	1	.05	.016	6	7	.02	17<.01	4	.24<.01	.17	<2	.4	117	.9	<.2	.6	14		
518228	6.1	17.7	60.3	73.0	1070	4	7	26	.77	4.5	<5	4	3	.63	5.2	.5	1	.04	.012	11	7	.01	17<.01	4	.28<.01	.10	4	.2	47	.4	<.2	.6	11		
518229	7.0	25.3	21.9	60.4	580	2	3	91	.81	3.3	<5	7	4	.28	5.0	.3	2	.06	.017	14	8	.02	78<.01	3	.36<.01	.12	4	.3	35	.4	<.2	.7	9		
518230	5.0	17.7	9.6	58.9	472	3	3	279	.83	2.4	<5	7	5	.25	3.5	.3	1	.10	.015	13	8	.03	77<.01	<3	.34<.01	.12	3	.3	30	.3	<.2	.7	7		
RE 518230	4.2	17.1	9.0	57.7	463	3	4	275	.81	1.8	<5	6	5	.20	3.6	.3	1	.09	.014	12	7	.03	83<.01	<3	.32<.01	.12	3	.3	25	.3	<.2	.7	6		
RRE 518230	4.0	16.9	6.3	58.1	441	2	4	286	.85	2.1	<5	7	6	.19	3.2	.3	1	.10	.016	13	8	.03	74<.01	3	.35<.01	.12	4	.2	33	.3	<.2	.7	7		
518231	11.0	17.6	105.2	144.2	858	3	4	61	.91	3.3	<5	7	4	1.25	3.4	.5	1	.05	.014	10	8	.02	95<.01	<3	.34	.01	.15	3	.3	52	.3	<.2	.7	8	
518232	16.6	10.0	173.3	281.8	756	2	3	19	.71	5.2	<5	6	4	2.70	2.3	.4	1	.04	.012	7	5	.02	28<.01	<3	.30	.01	.19	<2	.3	103	.3	<.2	.6	8	
518233	10.1	40.2	38.8	68.1	990	2	1	477	.70	6.8	<5	6	4	.76	9.4	.4	1	.05	.015	12	6	.02	31<.01	4	.34	.01	.12	4	.2	71	.3	<.2	.7	7	
518234	9.8	18.1	32.5	20.3	552	2	3	97	1.16	4.6	<5	10	4	.22	3.6	.4	1	.08	.012	12	7	.03	68<.01	<3	.37	.01	.14	3	.2	38	.4	<.2	.7	6	
518235	16.9	25.2	24.7	24.3	612	3	5	102	.89	5.0	<5	7	4	.25	5.4	.3	1	.08	.012	16	7	.03	95<.01	3	.33	.01	.13	5	.2	33	.3	.2	.6	14	
518236	68.3	24.1	55.4	98.8	927	1	6	51	1.96	7.7	<5	7	4	.91	4.4	.6	1	.05	.011	23	9	.02	39<.01	<3	.33<.01	.14	3	.5	62	.9	.3	.8	8		
518237	37.2	14.9	48.5	57.0	542	3	4	134	.83	3.4	<5	5	5	.42	3.0	.3	1	.14	.010	10	7	.05	109<.01	<3	.27<.01	.11	4	.4	17	.4	<.2	.8	7		
518238	24.2	19.1	13.7	32.7	485	2	3	463	.81	3.0	<5	6	9	.29	3.3	.4	2	.31	.014	10	8	.11	150<.01	<3	.33<.01	.13	4	.3	31	<.3	<.2	.6	4		
518239	17.7	23.7	55.3	188.7	873	3	4	731	1.39	8.5	<5	5	9	1.60	2.6	.6	2	.35	.018	8	6	.12	66<.01	<3	.37<.01	.14	<2	.2	68	.5	<.2	.5	9		
518240	16.4	250.3	94.3	240.6	3236	1	12	316	2.22	40.6	<5	6	6	2.74	47.8	3.2	2	.24	.014	9	7	.08	33<.01	<3	.33<.01	.13	<2	.3	206	1.6	1.3	.7	16		
RE 518240	16.6	258.1	97.4	246.1	3282	1	14	322	2.28	44.3	<5	6	6	2.74	49.7	3.4	2	.24	.014	9	8	.08	30<.01	<3	.34<.01	.14	2	.2	210	1.7	1.3	.8	19		
RRE 518240	16.9	271.3	102.8	252.7	3140	3	13	323	2.16	45.5	<5	5	6	2.75	52.5	3.2	2	.24	.014	9	7	.08	31<.01	4	.29<.01	.11	2	.3	239	1.6	1.3	.7	21		
518241	10.5	43.5	36.4	21.1	949	2	14	472	1.68	10.4	<5	6	7	.32	8.2	.7	1	.23	.012	9	9	.10	54<.01	<3	.38	.01	.12	4	.2	46	1.2	1.1	.7	11	
518242	38.5	62.2	189.4	29.5	2921	2	55	539	9.69	20.6	<5	5	3	.65	10.2	2.7	1	.11	.008	3	7	.03	<1<.01	3	.18<.01	.08	4	.2	112	9.4	6.0	<.5	32		
518243	76.7	21.0	52.3	34.4	741	3	9	271	1.19	5.2	<5	5	6	.32	4.0	.7	1	.18	.014	10	9	.06	54<.01	<3	.31<.01	.12	4	.5	15	.8	.3	.8	10		
518244	17.3	867.3	108.7	163.1	2724	3	7	337	1.80	176.0	<5	6	7	3.46	143.9	<.1	1	.33	.013	8	8	.09	39<.01	<3	.29<.01	.11	2	.2	472	1.5	.9	.6	16		
518245	26.7	15.5	31.3	59.8	408	1	4	307	.83	2.9	<5	5	8	.50	1.9	.4	2	.31	.013	10	6	.09	100<.01	<3	.33	.01	.11	3	.2	41	.4	.2	.9	9	
518246	34.4	74.7	31.2	40.9	960	2	4	356	1.21	14.2	<5	6	7	.46	10.2	.3	1	.32	.012	10	7	.09	74<.01	<3	.31<.01	.11	4	.3	70	.5	.3	.9	8		
518247	29.2	143.0	56.3	40.4	1464	1	5	359	.98	38.0	<5	6	9	.52	17.5	.5	1	.38	.012	12	7	.11	109<.01	4	.37	.01	.13	4	.3	126	.4	.3	.9	8	
518248	14.0	208.9	3.4	33.9	363	2	3	733	.88	10.0	<5	6	11	.22	12.7	<.1	3	.59	.018	11	7	.16	89<.01	<3	.37<.01	.12	4	.2	65	<.3	.2	.8	4		
518249	6.6	12.2	2.4	22.9	198	1	3	625	.90	1.1	<5	7	9	.11	1.1	.2	3	.46	.013	11	9	.13	24<.01	<3	.41<.01	.13	4	.2	35	<.3	<.2	.8	9		
STANDARD D	26.7	134.3	102.9	278.7	2137	33	17	1065	4.70	75.9	24	20	60	2.37	9.9	22.6	77	.71	.106	18	60	1.28	268	.15	29	2.38	.05	.75	23	2.8	453	.5	2.3	7.4	511

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

ICP - 30 GRAM SAMPLE IS DIGESTED WITH 180 ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL. SOLUTION ANALYSED DIRECTLY BY ICP. MD CU PB ZN AG AS AU CD SB BI TL HG SE TE AND GA ARE EXTRACTED WITH MIBK-ALIQUAT 336 AND ANALYSED BY ICP. ELEVATED DETECTION LIMITS FOR SAMPLES CONTAIN CU,PB,ZN,AS>1500 PPM,Fe>20%.

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

DATE RECEIVED: AUG 25 1997 DATE REPORT MAILED: *Aug 29/97* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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

Data FA



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
518250	27.9	669.0	9.9	123.0	23272	4	8	374	1.32	148.7	<5	5	6	3.12	168.6	.6	1	.23	.013	11	7	.07	24<.01	<3	.36<.01	.12	<2	.3	2666	1.1	.8	1.3	4		
518251	10.7	17.3	46.1	96.2	730	3	3	189	.82	3.4	<5	5	5	.88	3.6	.5	1	.15	.012	8	6	.05	21<.01	<3	.36<.01	.14	2	.3	57	<.3	<.2	.8	7		
518252	32.9	22.6	19.9	13.2	592	3	7	181	.98	3.6	5	5	6	.15	4.4	.5	1	.15	.013	7	6	.05	16<.01	<3	.32<.01	.11	4	.4	38	.3	<.2	1.0	6		
518253	4.6	199.9	20.2	33.5	2291	3	1	156	.67	18.7	<5	6	5	.81	44.4	.1	1	.13	.008	7	6	.05	16<.01	3	.38<.01	.12	3	<.2	111	<.3	.2	.7	10		
518254	4.6	29.4	22.4	20.9	693	3	4	136	.78	5.2	<5	7	3	.16	6.8	.4	1	.07	.010	7	5	.03	7<.01	3	.33<.01	.11	3	.2	32	<.3	<.2	.8	5		
518255	22.5	65.8	85.4	60.8	1982	9	7	356	.93	19.1	<5	2	6	.68	20.3	1.1	1	.13	.015	6	6	.04	28<.01	<3	.31<.01	.12	2	.6	120	.5	.2	.9	14		
518256	35.3	70.7	90.7	86.3	1348	3	7	367	1.15	13.4	<5	4	6	.88	18.3	.9	2	.25	.025	7	6	.07	22<.01	<3	.23	.01	.13	3	.4	47	.6	.2	.5	15	
518257	70.1	197.7	124.0	304.9	3960	2	6	431	1.35	19.5	<5	4	6	3.10	25.4	6.9	2	.27	.021	5	7	.06	20<.01	3	.24<.01	.14	<2	.6	113	.6	1.6	1.1	84		
518258	14.2	136.6	218.3	461.0	2439	4	8	733	1.56	16.0	8	4	9	5.29	32.1	.8	5	.49	.047	9	5	.13	61<.01	<3	.30<.01	.16	<2	.3	173	.8	<.2	.9	12		
518259	13.7	20.2	287.0	493.4	1277	3	3	438	1.02	25.9	6	4	5	5.15	5.2	1.0	1	.29	.024	5	7	.08	23<.01	3	.31<.01	.17	<2	.4	144	.5	<.2	1.0	23		
518260	25.2	79.4	171.3	444.9	1864	3	6	539	1.52	22.6	10	5	7	4.65	9.0	1.7	1	.39	.016	5	8	.10	20<.01	<3	.25<.01	.19	3	.4	103	1.0	<.2	.9	22		
RE 518260	25.6	77.3	168.4	438.5	1849	2	5	534	1.51	23.6	<5	4	7	4.58	8.9	1.8	1	.38	.017	5	8	.10	23<.01	4	.25<.01	.20	2	.4	87	.9	<.2	.9	26		
RRE 518260	21.3	73.2	169.9	443.1	1878	1	6	526	1.53	21.4	6	5	7	4.61	9.0	1.6	1	.38	.017	5	8	.10	17<.01	3	.26<.01	.19	<2	.4	102	.9	.3	.8	26		
518261	56.4	16.6	110.0	278.7	1504	4	3	542	1.25	9.3	<5	5	10	2.64	2.8	1.2	1	.47	.021	8	7	.14	56<.01	3	.25<.01	.16	<2	.5	122	.4	<.2	.8	13		
518262	159.0	48.4	106.6	271.5	1005	1	6	715	1.59	7.5	<5	4	15	2.06	5.9	.6	10	.71	.039	8	9	.25	79<.01	<3	.37	.01	.17	2	1.5	101	<.5	<.2	5	5	
518263	26.7	194.6	51.6	261.9	1269	3	4	702	1.65	19.5	<5	4	19	2.11	6.1	.4	9	.78	.039	6	6	.33	91<.01	<3	.53	.01	.17	<2	.4	119	.5	<.2	1.6	13	
518264	16.4	77.4	89.0	269.1	1506	1	6	697	1.42	13.7	<5	5	12	2.25	4.7	1.2	1	.49	.028	7	8	.15	56<.01	3	.29	.01	.15	2	.3	83	.8	.3	.8	15	
518265	17.0	40.1	116.8	335.9	1725	3	5	1099	1.78	17.6	<5	3	21	3.17	3.9	1.4	2	.96	.029	5	7	.30	94<.01	<3	.36	.01	.17	<2	.3	73	.7	.2	1.0	15	
518266	20.4	174.6	104.5	193.1	1890	3	11	1801	2.01	17.5	<5	3	18	2.13	11.8	1.6	7	1.07	.052	7	6	.29	33<.01	<3	.35<.01	.20	<2	.3	88	.8	.3	1.0	34		
518267	31.7	196.2	360.9	1835.0	3250	5	13	1103	2.20	27.7	<5	3	7	15.86	13.3	2.6	2	.51	.031	5	9	.12	48<.01	<3	.21<.01	.19	3	.4	240	1.4	<.2	1.0	26		
518268	16.1	244.8	79.3	294.5	1625	4	7	1578	2.72	8.5	<5	2	20	2.58	12.0	2.6	18	.84	.065	8	8	.57	42	.01	<3	.53	.01	.20	<2	.3	90	1.1	.4	1.8	18
518269	31.0	564.7	150.3	659.2	2316	3	2	1175	1.84	13.8	<5	2	19	5.56	28.5	.6	14	.75	.052	9	7	.35	72	.01	<3	.55	.01	.17	<2	.4	151	.4	<.2	2.1	16
518270	30.3	23.7	210.5	672.2	1483	3	2	682	.82	7.0	8	3	8	7.22	5.0	1.0	1	.45	.030	9	8	.12	60<.01	4	.26<.01	.17	<2	.4	104	.3	<.2	.8	27		
RE 518270	29.1	23.6	208.3	656.9	1307	3	2	665	.80	5.3	<5	4	8	6.76	4.6	.9	1	.44	.029	10	7	.12	62<.01	<3	.26<.01	.17	2	.4	126	<.3	<.2	.7	122		
RRE 518270	31.3	23.5	225.0	849.3	1576	4	2	687	.83	6.6	<5	3	8	8.53	5.0	1.1	1	.44	.028	11	8	.12	66<.01	3	.28<.01	.18	<2	.4	146	.3	<.2	.9	18		
518271	19.2	56.8	170.8	863.4	1731	2	6	1387	1.40	8.6	<5	4	11	8.47	6.8	1.3	1	.75	.036	6	7	.19	45<.01	3	.24<.01	.19	<2	.4	205	.5	<.2	.7	13		
518272	13.6	448.8	331.9	4074.0	38242	3	6	4193	2.00	58.8	<5	4	12	41.34	198.1	2.9	1	1.25	.028	6	8	.24	48<.01	<3	.22<.01	.21	4	1.3	2141	<.8	<.2	<.3	20		
518273	77.1	101.1	56.8	213.4	1251	3	8	1493	1.76	8.2	<5	4	27	2.68	10.3	.5	11	1.30	.050	7	7	.40	52<.01	<3	.52	.01	.18	2	.6	93	.3	<.2	1.4	7	
518274	21.5	69.4	329.5	385.2	2233	3	8	997	1.76	12.8	7	3	13	4.48	16.1	1.7	6	.85	.044	11	7	.22	47<.01	<3	.31<.01	.17	<2	.5	143	.7	<.2	1.3	14		
518275	20.2	149.7	54.4	90.0	2110	3	5	806	1.37	22.7	5	4	16	1.20	8.0	1.7	2	.78	.034	6	7	.22	87<.01	<3	.31<.01	.16	3	.4	94	.5	.3	1.0	20		
518276	28.7	49.2	33.4	66.7	1104	3	4	774	1.01	17.7	<5	5	14	.76	5.7	.9	1	.75	.020	7	7	.21	31<.01	3	.29<.01	.14	3	.4	51	.4	<.2	.8	21		
518277	33.4	45.5	50.6	143.7	1436	2	6	636	1.02	9.1	<5	4	9	1.53	7.9	1.1	1	.52	.022	8	7	.14	40<.01	4	.24<.01	.13	2	.5	54	.6	.3	.9	19		
518278	164.4	2918.3	57.8	190.9	6152	8	20	764	2.12	147.4	<5	7	12	1.77	41.7	<.6	1	.62	.017	5	6	.19	35<.01	<3	.23<.01	.12	<2	2.0	406	<.8	1.2	3.1	17		
518279	36.6	150.4	76.2	200.8	2287	3	5	1041	1.24	34.5	<5	5	14	1.72	23.5	1.5	1	.90	.026	7	8	.24	55<.01	<3	.27<.01	.15	2	.5	82	.4	.2	1.0	37		
518280	22.3	26.5	39.1	118.1	1221	8	6	1835	1.54	7.2	<5	3	29	1.28	4.9	1.4	4	1.64	.070	6	5	.42	29<.01	<3	.30<.01	.19	<2	.4	60	.3	.2	.9	16		
STANDARD D2/HG-500/AU-R	24.6	123.5	102.2	256.4	1957	32	16	998	4.41	72.4	19	17	56	2.39	9.8	23.7	72	.66	.101	17	55	1.19	261	.14	24	2.28	.05	.70	21	2.7	481	.8	2.3	7.0	509

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



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
518281	24.7	211.6	88.0	284.8	3519	1	8	1082	1.57	49.2	<5	3	13	4.15	44.2	4.5	4	.97	.059	6	6	.25	32<.01	<3	.30	.01	.17	<2	.3	173	<.3	<.2	1.3	32	
518282	41.5	121.4	113.7	443.1	2029	3	6	452	1.31	28.9	<5	3	4	4.82	20.9	1.5	2	.32	.025	5	9	.08	26<.01	<3	.23<.01	.17	2	.3	182	<.3	<.2	1.0	22		
518283	17.0	375.6	103.5	533.3	1840	4	4	7154	2.37	28.0	<5	5	13	5.52	17.0	1.6	2	.92	.025	7	7	.31	76<.01	<3	.24<.01	.15	2	.2	191	<.3	<.2	.9	25		
518284	57.1	1022.9	53.6	86.7	3514	3	13	801	2.23	68.5	7	3	10	1.07	18.5	.9	1	.65	.020	4	8	.18	24<.01	<3	.24<.01	.13	3	.5	87	2.0	1.5	2.0	36		
518285	52.4	153.7	53.2	99.7	1597	3	6	993	1.40	24.3	<5	2	15	1.02	12.8	1.0	3	1.06	.118	4	8	.24	29<.01	<3	.31<.01	.14	3	.4	45	<.3	.3	1.7	10		
518286	18.9	132.2	44.9	181.5	713	4	5	1258	1.59	14.9	<5	2	16	1.70	12.8	.3	15	1.04	.090	9	7	.28	21<.01	<3	.46<.01	.13	<2	.3	63	<.3	<.2	1.4	1		
518287	35.2	138.8	23.4	58.9	936	4	6	586	.98	24.4	<5	4	13	.46	8.4	.5	2	.63	.023	5	7	.19	117<.01	<3	.26	.01	.13	3	.3	36	<.3	.2	1.2	10	
518288	48.2	220.6	23.2	52.8	810	1	3	479	.83	21.5	6	4	8	.58	8.1	.3	1	.41	.015	5	8	.12	26<.01	<3	.25	.01	.12	4	.3	38	<.3	<.2	1.2	10	
518289	17.4	53.1	23.5	53.1	777	2	3	530	.93	11.6	8	3	9	.87	12.6	.6	1	.50	.020	8	7	.15	26<.01	<3	.26<.01	.11	2	.2	33	.3	<.2	.6	4		
518290	17.4	109.5	71.6	217.0	1109	2	5	1009	1.32	16.2	<5	<2	12	3.73	23.3	.5	6	.93	.041	20	6	.24	20<.01	<3	.34	.01	.13	<2	.3	145	<.3	<.2	.8	3	
RE 518290	17.3	111.9	71.8	220.8	1169	4	5	1016	1.33	15.7	<5	<2	13	3.96	22.9	.5	6	.94	.041	20	7	.24	24<.01	<3	.35<.01	.14	<2	.2	144	<.3	<.2	1.0	5		
RRE 518290	18.3	113.9	70.6	220.9	1210	<1	5	1027	1.33	19.8	<5	<2	12	4.23	25.5	.6	6	.95	.041	20	6	.24	20<.01	<3	.34<.01	.13	<2	.4	154	<.3	<.2	1.1	4		
518291	41.9	99.7	49.3	207.2	1463	2	7	820	1.33	30.3	<5	2	14	2.50	18.0	1.0	3	.84	.042	12	6	.23	28<.01	<3	.24<.01	.15	<2	.4	67	<.3	<.2	1.0	29		
518292	14.8	612.2	54.7	186.4	2360	1	6	998	1.44	39.0	<5	<2	13	2.71	53.2	1.9	6	.90	.048	10	6	.24	18<.01	<3	.32<.01	.15	<2	.3	153	<.3	.3	1.1	15		
518293	53.7	126.2	114.6	348.3	2149	4	15	1240	1.91	33.3	<5	<2	15	4.65	27.3	2.0	4	1.19	.059	9	6	.30	25<.01	<3	.24	.01	.19	<2	.4	96	<.3	<.2	1.4	21	
518294	92.0	151.8	514.6	753.5	1274	2	8	1662	2.17	71.5	<5	2	30	9.20	5.7	.7	9	1.46	.063	6	7	.41	69<.01	<3	.34	.01	.22	<2	.4	69	<.3	<.2	1.4	139	
518295	57.2	46.0	57.6	149.3	932	1	5	775	.84	14.8	5	<2	24	1.15	4.3	.6	2	1.14	.029	8	6	.21	155<.01	<3	.26	.01	.14	<2	.4	38	<.3	<.2	.7	16	
518296	29.1	63.2	88.2	81.7	1723	3	8	1998	1.92	42.0	<5	2	42	.64	3.2	1.6	6	2.36	.057	7	7	.41	88<.01	<3	.30<.01	.20	<2	.3	69	.3	.3	1.0	131		
STANDARD D	25.7	130.8	99.5	263.7	2023	32	16	1025	4.47	72.3	21	16	57	2.27	9.0	22.5	74	.68	.106	17	57	1.21	263	.14	25	2.28	.06	.72	21	2.7	436	.7	2.8	7.6	546

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

Handwritten notes: "0 H", "Y", "17", "17"



GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE
Phelps Dodge Corp. PROJECT 253 File # 97-4843 Page 4
 1409 - 409 Granville St., Vancouver BC V6T 1T2 Submitted by: Stephen Wetherup



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B %	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
518297/518298/518299	1.5	34.6	1.7	85.5	59	15	13	574	4.03	3.9	<5	4	53	.52	.2	.2	110	1.33	.159	16	33	1.33	407	.25	<3	1.58	.09	.65	4	<2	23	<3	<2	7.1	<1
518300/518301/518302	1.8	47.5	2.5	118.8	135	12	11	476	3.65	4.5	<5	4	73	1.47	.4	1.5	80	1.22	.122	14	29	1.00	107	.13	<3	1.32	.07	.39	6	<2	<10	<3	<2	6.1	1
518303/518304/518305	2.0	68.8	2.6	64.0	117	12	12	528	3.56	3.7	<5	3	55	.24	.4	.4	86	1.95	.134	16	28	.96	109	.13	<3	1.37	.06	.39	6	<2	<10	<3	<2	6.8	4
518306/518307/518308	1.7	27.7	1.7	55.4	93	11	12	515	3.57	5.0	<5	3	57	.24	.2	4.4	93	1.49	.142	16	28	.92	146	.19	<3	1.15	.10	.41	4	<2	<10	<3	4.0	5.4	2
518309/518310/518311	1.3	17.7	1.4	45.6	36	12	11	494	3.95	2.8	<5	3	93	.04	<2	2.7	114	1.17	.170	14	27	1.13	258	.25	<3	1.34	.11	.53	6	<2	<10	<3	2.3	6.5	1
518312/518313/518314	.9	37.1	1.2	63.4	46	13	13	604	4.54	3.4	<5	2	129	.13	<2	.2	123	1.58	.168	15	27	1.76	370	.29	<3	2.08	.08	1.04	5	.3	<10	<3	<2	8.6	2
518315/518316/518317	1.5	100.0	1.7	96.8	149	16	14	730	4.55	5.5	<5	2	57	.37	.2	.1	128	1.67	.167	16	35	1.76	198	.30	<3	1.94	.07	1.04	3	.3	<10	.3	<2	8.7	3
518319/518320/518321	1.3	111.4	6.5	66.7	368	13	13	724	4.35	15.0	<5	2	53	.18	.6	.3	84	1.99	.140	16	25	1.27	85	.19	<3	1.55	.05	.78	4	<2	<10	<3	<2	7.2	12
518322/518323/518324	1.8	54.7	1.9	52.4	80	17	13	623	4.15	4.2	<5	5	49	.05	.2	.3	118	1.43	.148	19	42	1.53	244	.28	<3	1.75	.08	.86	4	.3	<10	<3	<2	7.9	2
518325/518326/518327	8.3	96.1	23.9	57.6	612	13	10	557	2.78	8.2	<5	5	40	.29	.9	.3	63	1.48	.082	15	28	.85	88	.15	<3	1.16	.06	.55	5	<2	<10	.5	<2	4.5	6
518328/518329/518330	3.8	23.9	38.3	16.1	1016	6	2	315	.87	7.3	<5	6	28	.14	.7	.8	8	.91	.025	13	23	.14	109	.01	<3	.36	.05	.21	7	<2	<10	<3	.2	1.3	12
518331/518332/518333	11.4	39.1	33.0	21.3	728	6	5	385	1.24	13.2	<5	6	36	.22	.9	.6	7	.91	.033	13	21	.20	94	.01	<3	.35	.05	.22	8	<2	<10	.3	<2	1.2	6
518334/518335/518336	6.8	69.3	19.4	20.8	621	7	3	238	.99	4.6	<5	6	33	.23	1.7	.1	10	.72	.026	14	20	.20	133	.01	<3	.35	.05	.22	7	<2	<10	<3	<2	1.2	2
518337/518338/518339	1.7	84.6	3.1	54.4	211	54	18	1011	4.15	5.1	<5	3	108	.01	.3	<1	138	2.32	.156	16	92	2.40	334	.31	<3	2.30	.08	1.37	4	.4	<10	.3	<2	9.2	6
518340/518341/518342	1.7	44.2	5.3	60.6	583	39	19	1851	5.78	41.1	<5	2	84	.09	.3	1.2	120	2.55	.176	10	66	2.16	46	.16	<3	2.36	.06	.75	2	.3	<10	.4	.4	10.5	34
518343/518344/518345	3.5	133.9	1.9	49.9	234	29	17	1063	4.50	8.1	<5	2	117	.02	<2	.2	156	2.09	.162	14	58	2.19	109	.32	<3	2.46	.08	1.04	7	.4	<10	.6	<2	9.2	20
518346/518347/518348	4.2	199.4	13.1	76.1	1574	31	24	2121	7.12	49.6	<5	<2	76	.12	.3	1.4	144	1.88	.162	9	66	2.66	41	.16	<3	2.78	.05	.72	2	.4	16	1.2	.2	11.7	24
518349/518350/518351	2.5	55.9	25.4	46.8	1101	15	18	1658	4.86	64.9	<5	4	60	.22	.5	1.1	41	1.72	.113	6	18	1.25	32	.05	<3	.99	.03	.47	4	<2	<10	.7	.3	3.7	121
518352/518353/518354	3.4	45.0	28.5	53.4	1426	21	24	2268	6.77	56.9	<5	2	76	.08	.2	1.5	59	2.37	.165	6	24	1.85	26	.06	<3	1.46	.03	.59	3	.2	18	1.8	.3	6.2	127
518355/518356/518357	5.7	34.0	9.8	60.7	1208	23	28	2167	7.91	116.5	<5	<2	51	.06	.2	2.1	81	1.77	.167	8	31	2.04	31	.03	<3	2.10	.05	.48	2	<2	<10	2.1	.6	10.2	102
518358/518359/518360	2.1	60.1	8.6	46.2	751	20	19	1459	5.67	43.4	<5	3	55	<.01	<2	1.9	82	1.60	.123	9	34	1.56	36	.11	<3	1.75	.06	.64	4	<2	<10	1.7	.3	8.3	17
518361/518362/518363	2.0	133.6	11.3	57.7	1026	24	22	1786	6.29	27.4	<5	2	98	.02	.3	1.7	107	2.59	.149	11	35	1.78	30	.21	<3	1.97	.05	1.10	3	.4	<10	2.2	.3	9.3	14
518364/518365/518366	3.5	53.3	80.9	75.7	3125	17	15	2149	4.97	42.1	<5	2	78	.66	4.5	2.4	39	6.53	.111	8	18	.68	44	.04	<3	.84	.03	.42	4	<2	18	1.9	.3	3.4	35
RE 518364/518365/518366	3.6	51.3	79.4	73.1	3077	16	15	2093	4.83	40.1	<5	2	76	.65	4.3	2.4	38	6.38	.108	8	17	.66	43	.04	<3	.82	.03	.41	4	<2	12	1.9	.3	3.4	24
518367/518368/518369	1.9	35.7	89.2	42.6	1906	21	30	1341	8.90	70.8	8	2	83	.19	.9	2.9	64	3.02	.130	6	27	1.00	17	.06	<3	1.21	.02	.58	4	.3	21	3.3	.4	5.2	103
518370/518371/518372	1.6	112.6	7.6	60.7	378	26	22	1657	6.53	14.4	<5	<2	150	<.01	.7	1.1	139	3.89	.157	11	50	2.21	45	.20	<3	2.81	.04	1.11	3	.5	14	2.1	<2	9.5	9
518373/518374/518375	1.5	92.1	5.4	34.4	290	18	17	1093	5.29	11.8	<5	2	108	<.01	.3	1.2	69	2.57	.135	10	25	1.31	29	.12	<3	1.33	.06	.64	3	<2	<10	1.8	.3	5.7	5
518376/518377/518378	19.0	18.6	35.0	44.7	493	10	10	769	3.66	6.3	<5	4	56	.45	.3	1.0	31	1.96	.095	14	17	.65	30	.05	<3	.78	.06	.35	5	<2	11	1.4	.3	3.1	5
518379/518380/518381	10.0	13.5	51.1	154.9	1196	7	10	541	4.75	21.6	<5	6	31	1.99	.4	1.8	7	.84	.051	5	15	.18	19	<.01	<3	.32	.05	.21	7	<2	<10	1.6	<2	1.4	11
518382/518383/518384	8.8	12.4	54.1	36.3	997	7	7	621	3.23	13.8	6	6	33	.51	.5	1.3	9	.84	.056	6	15	.29	31	<.01	<3	.42	.04	.25	7	<2	<10	1.0	.2	1.4	13
518385/518386/518387	11.0	13.1	9.0	14.9	467	6	5	375	1.86	6.3	<5	7	26	.16	.3	.5	5	.64	.030	8	16	.20	29	<.01	<3	.26	.06	.16	7	<2	<10	.8	<2	1.1	4
518388/518389/518390	9.6	14.2	6.9	10.0	712	7	8	471	2.91	9.7	<5	6	26	.05	.5	.8	5	.67	.039	7	15	.21	27	<.01	<3	.27	.05	.17	7	<2	<10	.8	.2	.9	9
518391/518392/518393	10.8	12.6	11.2	34.9	934	9	7	674	2.90	10.0	<5	5	28	.37	.8	1.0	10	.92	.052	7	16	.32	33	.01	<3	.44	.04	.21	7	<2	10	.9	.3	1.6	8
STANDARD 02/HG-500/AU-R	24.9	130.0	100.8	259.1	2135	32	16	1015	4.51	70.2	18	20	59	2.16	10.1	22.5	78	.71	.118	18	58	1.21	263	.14	26	2.41	.05	.72	20	2.7	494	.7	1.9	7.8	521

ICP - 30 GRAM SAMPLE IS DIGESTED WITH 180 ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL. SOLUTION ANALYSED DIRECTLY BY ICP. MO CU PB ZN AG AS AU CO SB BI TL HG SE TE AND GA ARE EXTRACTED WITH MIBK-ALIQAT 336 AND ANALYSED BY ICP. ELEVATED DETECTION LIMITS FOR SAMPLES CONTAIN CU,PB,ZN,AS>1500 PPM,Fe>20%.
 - SAMPLE TYPE: P1 TO P3 CORE P4 COMPOSITE AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.
 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 28 1997 DATE REPORT MAILED: *Sept 4/97* SIGNED BY: *C. Leong* .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE

Phelps Dodge Corp. PROJECT 253 File # 97-4841 Page 4

1409 - 409 Granville St., Vancouver BC V6T 1T2 Submitted by: Stephen Wetherup

Table with columns: SAMPLE#, Mo ppm, Cu ppm, Pb ppm, Zn ppm, Ag ppb, Ni ppm, Co ppm, Mn ppm, Fe %, As ppm, U ppm, Th ppm, Sr ppm, Cd ppm, Sb ppm, Bi ppm, V ppm, Ca %, P %, La ppm, Cr ppm, Mg %, Ba ppm, Tl %, B %, Al %, Na %, K %, W ppm, Tl ppm, Hg ppb, Se ppm, Te ppm, Ga ppm, Au+ ppb. Rows include sample IDs like 518394/518395/518396 and 518426/518427/518428.

ICP - 30 GRAM SAMPLE IS DIGESTED WITH 180 ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL. SOLUTION ANALYSED DIRECTLY BY ICP. MO CU PB ZN AG AS AU CD SB BI TL HG SE TE AND GA ARE EXTRACTED WITH MIBK-ALIQAT 336 AND ANALYSED BY ICP. ELEVATED DETECTION LIMITS FOR SAMPLES CONTAIN CU,PB,ZN,AS>1500 PPM,Fe>20%. - SAMPLE TYPE: P1 TO P3 CORE P4 COMPOSITE AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 27 1997 DATE REPORT MAILED: Sep 5/97 SIGNED BY: [Signature] D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE

Phelps Dodge Corp. PROJECT 253 File # 97-4842
 1409 - 409 Granville St., Vancouver BC V6T 1T2 Submitted by: Stephen Wetherup



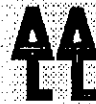
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B %	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
518403	7.0	293.8	74.8	89.9	293	4	3	145	1.33	7.5	<5	7	10	.76	.6	.8	5	.15	.016	9	11	.12	27	<.01	<3	.53	.04	.13	4	<.2	29	.5	<.2	.6	4
518404	8.2	2145.1	580.9	1180.5	1192	35	42	2206	6.34	47.5	27	3	121	18.34	3.7	2.1	38	1.87	.224	13	20	.68	27	.02	10	1.39	.01	.42	<.2	.7	57	2.5	<.2	2.4	27
518453	6.2	24.4	31.6	36.9	1273	3	2	753	.65	8.9	<5	3	14	.51	2.5	.2	1	.45	.018	5	13	.12	23	<.01	3	.29	.01	.18	4	<.2	11	<.3	<.2	.6	12
518454	2.7	32.0	28.1	90.0	958	2	7	1195	2.16	11.5	<5	4	132	.83	2.6	.1	14	3.09	.099	18	6	.86	88	<.01	5	.71	.01	.40	2	.2	78	<.3	<.2	1.1	9
518455	6.2	21.6	19.9	69.7	722	2	2	310	.54	12.1	<5	5	11	.94	1.8	.1	<1	.26	.010	6	13	.07	26	<.01	<3	.20	.04	.12	5	<.2	11	<.3	<.2	<.5	13
518456	7.9	68.7	394.4	947.3	4562	3	2	182	.55	23.6	<5	2	6	12.33	6.1	1.2	1	.15	.013	3	13	.03	26	<.01	<3	.22	.02	.15	5	<.2	54	<.3	<.2	<.5	56
518457	8.4	19.7	57.5	71.0	1065	3	7	416	.95	35.2	<5	10	32	1.36	1.8	.4	4	.85	.048	10	9	.24	33	<.01	<3	.41	.01	.19	3	<.2	22	<.3	<.2	.6	44
518458	8.8	28.8	120.3	208.6	848	3	2	214	.55	16.8	<5	<2	7	3.20	2.5	.3	<1	.22	.016	3	14	.05	24	<.01	<3	.34	.02	.13	6	<.2	11	<.3	<.2	.5	30
518459	26.3	28.2	155.1	359.3	1572	3	2	36	.44	21.8	<5	2	5	4.81	4.8	.1	1	.09	.018	3	12	.03	19	<.01	<3	.28	.01	.14	3	<.2	53	<.3	<.2	.6	33
518460	6.5	32.8	112.9	162.1	2054	3	10	1441	1.97	22.2	<5	3	95	1.88	7.0	.2	21	2.90	.101	15	5	.81	82	.01	3	.66	.01	.30	<.2	1.0	79	<.3	<.2	1.6	12
RE 518460	6.4	31.9	110.6	161.4	2110	3	10	1442	1.98	21.9	<5	2	95	1.86	7.1	.1	22	2.90	.100	15	6	.82	86	.01	3	.74	.01	.32	2	1.1	78	<.3	<.2	1.5	9
RRE 518460	6.9	32.5	103.3	193.3	2020	3	9	1431	1.94	21.3	<5	2	93	2.20	6.8	.1	21	2.86	.099	15	5	.80	83	.01	3	.69	.01	.31	<.2	1.0	81	<.3	<.2	1.3	11
518461	24.3	493.5	1501.2	2659.7	75483	3	17	188	3.38	358.2	<5	<2	9	34.69	204.2	2.0	2	.26	.020	2	11	.04	24	<.01	<3	.29	.01	.24	6	.2	1185	.9	<.2	1.1	904
518462	20.6	95.2	291.4	218.1	10907	2	14	295	3.09	213.4	<5	2	18	2.95	20.8	.7	3	.61	.033	4	10	.09	29	<.01	<3	.30	.02	.20	2	.2	51	1.1	<.2	.9	371
518463	7.0	13.1	27.6	29.7	725	5	6	1000	2.48	9.0	<5	2	52	.21	1.8	.2	14	2.15	.090	12	11	.45	70	.01	3	.73	.02	.27	4	<.2	16	.4	<.2	1.7	11
518464	13.2	12.8	10.5	26.7	5309	11	6	656	3.39	3.9	<5	2	53	.11	.8	4.1	42	1.66	.110	9	22	.75	32	.08	<3	1.04	.05	.40	3	.3	<10	.4	3.1	4.3	16
STANDARD D2/HG-500/AU-R	25.5	131.9	102.1	266.4	2108	32	17	1040	4.48	71.0	20	20	59	2.15	9.3	22.8	79	.72	.117	19	60	1.21	262	.15	25	2.39	.05	.72	20	2.5	452	.5	1.6	7.1	545

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

DATE RECEIVED: AUG 27 1997 DATE REPORT MAILED: *Sep 8/97* SIGNED BY: *J.W. Toy*...D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE



Phelps Dodge Corp. PROJECT 253 File # 97-4397 Page 1

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	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
518001	2.4	2.7	2.6	11.3	34	<1	1	275	.80	.8	<5	7	5	.01	.2	<.1	4	.06	.016	21	12	.05	60<.01	<3	.17	.04	.08	4	<.2	30	<.3	<.2	1.1	1	
518002	2.8	2.5	2.7	13.5	<30	<1	1	320	.83	<.5	<5	6	4	<.01	<.2	<.1	5	.07	.018	20	11	.07	46<.01	<3	.21	.04	.08	3	<.2	18	<.3	<.2	1.5	1	
518003	4.8	7.1	4.0	16.2	70	<1	2	472	.98	1.6	<5	8	4	.02	.2	<.1	4	.07	.019	18	10	.07	57<.01	<3	.21	.04	.09	3	<.2	19	<.3	<.2	1.1	2	
518004	6.7	35.6	2.7	13.0	274	<1	2	232	.77	1.5	<5	7	4	.01	.2	<.1	4	.07	.018	22	11	.10	44<.01	<3	.25	.04	.08	3	<.2	13	<.3	<.2	1.9	2	
518005	19.7	22.0	2.3	12.9	279	<1	2	176	.75	4.5	<5	7	4	<.01	<.2	<.1	3	.05	.016	17	12	.09	66<.01	<3	.28	.04	.09	4	.2	10	<.3	<.2	1.8	5	
518006	2.4	3.9	2.6	12.3	64	<1	1	150	.74	1.8	<5	7	4	<.01	.2	<.1	4	.06	.017	18	11	.09	33<.01	<3	.27	.04	.08	3	<.2	18	<.3	<.2	1.7	8	
518007	11.3	2.2	2.3	12.3	<30	<1	1	178	.70	.7	<5	6	4	<.01	<.2	<.1	4	.06	.017	20	9	.09	34<.01	<3	.21	.03	.06	<2	<.2	<10	<.3	<.2	1.5	1	
518008	3.7	15.3	2.5	12.3	98	<1	2	351	.84	3.2	<5	7	4	<.01	.2	<.1	3	.07	.016	17	11	.06	70<.01	<3	.17	.03	.08	2	<.2	<10	<.3	<.2	1.1	4	
518009	7.7	3.1	3.1	12.3	105	<1	2	425	.93	2.6	<5	7	4	.02	<.2	.1	2	.07	.016	12	11	.05	61<.01	<3	.18	.03	.11	3	.2	<10	<.3	<.2	1.0	5	
518010	2.9	2.3	2.3	9.8	<30	<1	1	296	.77	.5	<5	8	5	<.01	<.2	<.1	3	.07	.016	23	10	.05	36<.01	<3	.18	.03	.09	3	.2	14	<.3	<.2	1.1	1	
RE 518010	3.2	2.2	2.3	9.9	<30	<1	1	298	.77	.5	<5	8	5	<.01	<.2	<.1	3	.07	.016	23	10	.05	36<.01	<3	.19	.03	.09	3	<.2	21	<.3	<.2	.9	1	
RRE 518010	2.5	2.4	2.3	10.4	30	<1	1	304	.81	.5	<5	7	5	<.01	.2	<.1	3	.07	.016	21	11	.05	37<.01	<3	.19	.04	.10	3	<.2	14	<.3	<.2	.9	<1	
518011	2.5	2.4	1.9	10.9	50	<1	2	465	.83	2.4	<5	7	5	.02	.2	<.1	1	.07	.016	14	9	.04	70<.01	<3	.18	.02	.11	4	<.2	15	<.3	<.2	1.0	4	
518012	1.4	7.2	8.4	20.0	550	<1	2	573	.90	10.9	<5	5	4	.10	1.8	<.1	1	.07	.016	14	10	.03	37<.01	<3	.27	.02	.16	5	<.2	17	<.3	<.2	.9	6	
518013	2.4	13.7	43.5	73.7	1454	4	5	1235	1.64	20.6	<5	7	4	.54	2.7	<.1	2	.09	.015	12	7	.06	63<.01	<3	.30	.01	.15	2	<.2	37	<.3	<.2	.9	22	
518014	2.9	2.6	5.5	20.0	195	<1	2	474	.95	14.6	<5	8	4	.09	.4	<.1	2	.07	.015	19	8	.05	55<.01	<3	.22	.02	.15	2	<.2	14	<.3	<.2	1.1	5	
518015	14.9	2.0	3.0	12.5	101	<1	2	365	.83	36.9	<5	7	5	.01	.2	<.1	2	.06	.015	15	9	.05	98<.01	<3	.15	.03	.08	2	<.2	<10	<.3	<.2	1.0	2	
518016	2.0	2.4	3.1	15.5	75	<1	3	468	.99	2.2	<5	7	5	.03	.2	<.1	3	.07	.017	18	10	.05	56<.01	<3	.16	.03	.09	3	<.2	18	<.3	<.2	1.0	4	
518017	1.9	2.7	2.8	22.4	142	3	5	834	1.35	3.4	<5	8	5	.04	.3	<.1	3	.08	.014	16	8	.06	28<.01	<3	.22	.02	.10	3	<.2	13	<.3	<.2	1.0	11	
518018	1.6	22.2	14.8	105.5	1106	28	25	3352	6.36	17.9	<5	4	11	.40	2.9	<.1	41	.46	.123	17	22	.35	48<.01	<3	.54	.01	.28	<2	.5	110	<.3	<.2	1.7	11	
518019	1.2	53.7	2.8	72.8	486	56	29	683	4.96	5.7	<5	<2	33	.03	.4	<.1	110	.53	.142	16	80	2.70	119	.01	<3	2.86	.02	.14	<2	<.2	38	<.3	<.2	9.3	4
518020	1.5	45.5	1.9	62.2	105	45	23	696	4.90	1.7	<5	<2	45	<.01	.3	<.1	137	.60	.159	20	76	2.74	215	.02	<3	2.78	.02	.14	<2	<.2	40	<.3	<.2	9.8	1
518021	1.3	30.4	1.3	49.9	76	32	19	902	4.21	1.2	<5	<2	19	.01	.2	<.1	107	.49	.150	18	55	1.84	39	.01	<3	1.92	.02	.11	<2	<.2	22	<.3	<.2	7.1	1
518022	1.1	83.7	2.6	106.9	151	53	37	3688	8.73	1.7	<5	4	24	.15	.4	<.1	116	.74	.162	20	64	1.10	104	.01	<3	1.46	.02	.16	<2	.2	58	<.3	<.2	5.5	2
RE 518022	1.2	88.6	2.7	112.7	205	56	40	3878	9.05	1.9	<5	5	25	.17	.4	<.1	124	.78	.169	22	67	1.14	107	.01	<3	1.51	.02	.17	<2	.2	69	<.3	<.2	5.7	6
RRE 518022	1.5	88.0	2.5	111.9	156	54	38	3923	9.11	1.8	<5	5	24	.16	.4	<.1	117	.76	.166	22	65	1.12	109	.01	<3	1.41	.02	.15	<2	.2	67	<.3	<.2	5.5	2
518023	1.2	17.9	2.6	109.3	84	25	24	3279	6.68	3.3	<5	5	18	.14	.2	<.1	63	.47	.119	20	22	.49	30	.01	<3	.76	.03	.14	<2	.2	44	<.3	<.2	3.2	4
518024	1.4	80.4	10.8	162.3	1059	45	36	4907	9.35	11.6	<5	5	22	.50	4.8	<.1	87	.63	.148	12	38	.46	29<.01	<3	.69	.01	.26	<2	.5	102	<.3	<.2	1.9	5	
518025	.8	81.3	5.0	97.1	337	55	34	2035	7.10	7.6	<5	<2	55	.16	6.3	<.1	156	.60	.104	10	75	2.18	1102	.02	<3	2.39	.02	.16	<2	.4	30	<.3	<.2	7.4	2
518026	1.1	97.8	1.5	88.7	347	60	36	930	6.30	2.6	<5	<2	43	.02	.3	<.1	179	.55	.124	10	120	3.93	365	.03	<3	3.80	.02	.08	<2	<.2	44	<.3	<.2	11.0	5
518027	.7	48.0	1.6	62.3	146	37	26	661	4.67	3.2	<5	<2	80	.01	.3	<.1	151	.79	.128	8	87	2.34	68	.16	<3	2.48	.04	.07	<2	<.2	37	<.3	<.2	8.2	3
518028	1.1	62.0	1.1	43.7	64	33	21	571	4.31	2.8	<5	<2	44	.03	<.2	<.1	146	.74	.143	8	71	1.74	43	.16	<3	1.78	.04	.05	<2	<.2	26	<.3	<.2	6.7	3
518029	.8	65.1	1.0	42.8	102	32	22	556	4.51	2.1	<5	<2	35	<.01	.2	<.1	160	.73	.160	8	79	1.65	274	.13	<3	1.76	.04	.08	<2	<.2	34	<.3	<.2	7.3	3
518030	1.0	35.1	2.4	129.3	<30	52	39	4415	9.78	3.6	<5	5	22	.15	1.5	<.1	135	.81	.196	13	60	.64	64	.01	<3	.82	.01	.18	2	.3	52	<.3	<.2	2.8	1
STANDARD D	27.3	137.2	102.8	287.1	2090	33	18	1095	4.66	77.6	19	20	60	2.13	9.9	22.0	80	.71	.109	18	59	1.20	264	.15	25	2.44	.05	.72	20	3.0	452	.6	2.1	7.8	472

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

ICP - 30 GRAM SAMPLE IS DIGESTED WITH 180 ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL. SOLUTION ANALYSED DIRECTLY BY ICP. MO CU PB ZN AG AS AU CD SB BI TL HG SE TE AND GA ARE EXTRACTED WITH MIBK-ALIQUAT 336 AND ANALYSED BY ICP. ELEVATED DETECTION LIMITS FOR SAMPLES CONTAIN CU,PB,ZN,AS>1500 PPM,Fe>20%.

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

DATE RECEIVED: AUG 15 1997 DATE REPORT MAILED: Aug 22/97 SIGNED BY: C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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

Data FA

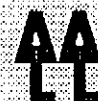


SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
518031	.8	80.7	3.0	106.2	274	40	32	3373	7.63	5.4	<5	2	19	.21	2.2	<.1	114	.81	.203	10	57	.46	17	<.01	<3	.83	.01	.21	4	.2	29	<.3	<.2	2.5	<1
518032	1.2	35.2	3.2	84.0	79	32	27	3041	6.99	4.4	<5	3	19	.15	3.1	<.1	118	.74	.197	12	53	.40	17	<.01	3	.76	.01	.17	4	.2	12	<.3	<.2	2.2	5
518033	1.7	36.9	3.5	83.7	100	21	21	2420	5.47	2.1	<5	5	18	.19	2.8	<.1	73	.54	.141	17	24	.37	35	.01	<3	.93	.02	.17	<2	.3	13	<.3	<.2	3.2	174
518034	1.7	2.6	2.6	18.6	129	3	5	928	1.38	1.6	<5	7	5	.03	<.2	<.1	5	.09	.018	18	6	.06	24	<.01	<3	.23	.02	.12	2	<.2	16	<.3	<.2	.9	11
518035	2.3	7.7	2.8	20.0	117	2	3	896	1.40	1.1	<5	6	5	.04	<.2	.1	4	.08	.016	17	8	.07	20	<.01	<3	.23	.02	.10	3	<.2	15	<.3	<.2	1.1	1
518036	1.8	2.9	4.5	34.8	218	7	7	1740	2.26	4.6	<5	10	5	.07	<.2	<.1	6	.11	.015	15	7	.08	18	<.01	<3	.24	.02	.12	3	<.2	16	<.3	<.2	.9	46
RE 518036	1.8	2.7	4.6	33.0	239	7	6	1652	2.15	4.3	<5	10	5	.07	<.2	<.1	6	.10	.014	15	8	.08	17	<.01	<3	.23	.01	.11	3	<.2	15	<.3	<.2	1.0	7
RRE 518036	1.4	2.9	4.1	33.3	225	6	7	1694	2.24	3.9	<5	9	5	.07	<.2	<.1	7	.11	.015	16	9	.08	20	<.01	<3	.26	.02	.12	5	<.2	<10	<.3	<.2	1.0	11
518037	1.2	2.5	2.3	18.5	121	2	4	943	1.36	.9	<5	7	5	.05	<.2	<.1	4	.08	.017	20	10	.06	22	<.01	<3	.20	.03	.11	3	<.2	<10	<.3	<.2	1.2	5

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



GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE



Phelps Dodge Corp. PROJECT 253 File # 97-4423 Page 1
 1409 - 409 Granville St., Vancouver BC V6T 1T2 Submitted by: Steve Wetherup

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B %	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppm
518038	.9	32.2	2.5	36.8	79	12	12	718	3.28	1.8	<5	3	19	.03	<.2	<.1	83	.47	.132	16	28	.75	53	.08	<3	1.13	.04	.21	<2	.2	<10	<.3	<.2	4.7	2
518039	1.6	54.8	2.6	51.7	98	22	18	758	4.25	2.2	<5	<2	21	.04	.2	<.1	127	.60	.172	12	52	1.25	193	.11	<3	1.58	.04	.26	<2	.3	<10	<.3	<.2	6.5	3
518040	1.1	5.1	1.7	11.0	39	<1	3	399	1.01	.5	<5	9	6	.01	<.2	<.1	7	.08	.021	21	9	.07	23	<.01	<3	.22	.03	.09	3	<.2	<10	<.3	<.2	.9	1
518041	3.9	3.8	2.0	8.7	94	<1	2	368	.92	.9	<5	9	5	.01	.2	<.1	3	.07	.015	26	11	.05	21	<.01	<3	.17	.04	.09	3	<.2	<10	<.3	<.2	.8	<1
518042	2.1	2.4	1.7	14.0	100	2	4	686	1.25	2.2	<5	9	5	.01	<.2	<.1	2	.08	.015	17	9	.06	20	<.01	<3	.27	.02	.12	2	.2	<10	<.3	<.2	.8	4
518043	3.2	3.7	1.7	15.3	97	4	5	625	1.29	1.1	<5	9	8	.02	.2	<.1	7	.10	.023	21	13	.06	296	<.01	<3	.24	.03	.12	3	.2	<10	<.3	<.2	.7	3
518044	1.6	37.1	2.6	66.0	82	34	20	1039	4.28	1.7	<5	<2	34	.02	.4	<.1	97	.67	.160	17	79	1.69	76	.04	<3	2.11	.03	.14	<2	<.2	<10	<.3	<.2	7.5	<1
518045	1.8	54.8	3.8	60.2	151	29	19	1386	4.62	2.0	<5	<2	34	.06	.6	<.1	89	.74	.168	15	54	1.13	63	.04	<3	1.83	.02	.25	<2	.2	<10	<.3	<.2	5.8	<1
518046	1.2	5.3	4.6	16.3	176	6	7	637	1.28	3.7	<5	8	9	.04	.2	<.1	7	.14	.019	16	10	.09	24	<.01	3	.36	.01	.14	3	.3	10	<.3	<.2	1.2	17
518047	1.0	2.6	2.5	32.1	114	5	7	1170	1.79	3.1	<5	8	6	.09	.2	<.1	6	.11	.013	16	6	.08	17	<.01	<3	.27	.01	.11	3	.2	15	<.3	<.2	.8	14
518048	.7	1.7	2.1	30.7	55	6	7	1078	1.82	1.2	<5	10	9	.08	<.2	<.1	6	.14	.012	20	7	.10	22	<.01	<3	.34	.01	.15	2	.2	<10	<.3	<.2	.9	1
RE 518048	.7	1.6	2.1	30.4	72	6	7	1060	1.78	1.1	<5	9	9	.08	<.2	<.1	6	.14	.012	20	7	.09	22	<.01	3	.34	.01	.15	2	<.2	14	<.3	<.2	.9	<1
RRE 518048	.9	1.6	2.1	29.0	85	7	7	1062	1.77	1.1	<5	10	9	.07	<.2	<.1	6	.14	.012	19	6	.09	21	<.01	<3	.31	.01	.14	3	.2	12	<.3	<.2	.9	<1
518049	1.6	4.4	2.7	16.0	360	2	5	512	1.05	4.9	<5	7	7	.04	.3	<.1	3	.14	.018	17	9	.06	26	<.01	<3	.26	.02	.15	3	<.2	<10	<.3	<.2	.8	18
518050	.7	69.3	3.0	66.3	132	33	23	1278	4.94	2.3	<5	<2	48	.05	1.9	<.1	98	1.38	.154	13	61	1.39	125	.02	<3	1.78	.02	.14	<2	.2	<10	<.3	<.2	6.0	1
518051	1.7	63.1	2.2	62.1	188	32	22	1111	4.69	2.9	<5	<2	71	.05	.5	<.1	106	1.12	.166	13	57	1.17	227	.12	<3	1.56	.03	.18	<2	<.2	<10	<.3	<.2	5.9	1
518052	.7	45.2	2.9	68.9	176	26	22	1436	5.61	2.9	<5	2	28	.06	.3	<.1	112	.70	.173	19	45	1.35	99	.03	<3	1.73	.02	.16	<2	<.2	<10	<.3	<.2	6.4	16
518053	.8	60.3	6.1	65.6	415	31	24	1006	4.71	9.2	<5	<2	32	.06	.6	<.1	96	.89	.162	21	46	1.50	68	.02	<3	1.79	.03	.19	<2	.2	<10	<.3	<.2	6.0	13
518054	.7	37.4	2.6	55.6	167	25	20	645	4.10	3.9	<5	<2	35	.01	<.2	<.1	114	.74	.167	14	48	1.72	133	.07	<3	1.94	.03	.12	<2	<.2	<10	<.3	<.2	7.1	3
518055	1.2	65.2	4.2	67.7	482	39	22	1609	4.40	3.8	<5	<2	40	.19	1.8	<.1	63	1.83	.154	14	68	1.25	167	.01	<3	1.19	.01	.27	2	.5	61	<.3	<.2	4.1	26
518056	1.2	42.3	10.0	91.7	836	28	23	2179	5.20	10.7	<5	<2	40	.22	1.0	<.1	62	1.70	.166	10	35	.83	197	<.01	<3	.67	.01	.27	2	.4	55	<.3	<.2	1.8	13
518057	1.0	22.9	5.8	71.1	202	24	20	1873	4.88	2.4	<5	4	61	.14	.9	<.1	77	2.30	.158	10	29	.99	270	<.01	<3	.75	.01	.27	3	.2	12	<.3	<.2	2.0	2
518058	3.1	46.7	4.2	43.3	246	19	15	765	3.24	3.1	<5	2	40	.05	.4	<.1	87	1.17	.138	18	42	.82	83	.05	<3	.97	.03	.19	<2	.2	<10	<.3	<.2	3.7	4
518059	1.2	53.2	12.5	102.8	426	27	20	1519	4.91	4.7	<5	3	30	.24	.8	<.1	100	.81	.162	16	37	.89	111	.05	<3	1.07	.04	.24	<2	.2	<10	<.3	<.2	3.6	3
518060	1.2	58.5	8.5	162.2	198	47	35	4628	10.05	3.0	<5	6	37	.34	.4	<.1	108	1.08	.169	20	60	.67	762	.02	<3	.89	.01	.25	<2	.3	<10	<.3	<.2	3.1	3
RE 518060	1.0	57.7	8.1	160.5	398	47	34	4575	9.89	2.3	<5	7	37	.33	.4	<.1	107	1.07	.168	20	57	.66	751	.02	<3	.87	.01	.24	<2	.2	10	<.3	<.2	2.8	98
RRE 518060	1.0	57.1	8.3	161.6	178	47	35	4621	9.91	2.2	<5	6	36	.33	.4	<.1	104	1.07	.168	20	56	.66	696	.02	<3	.79	.01	.23	2	.2	14	<.3	<.2	2.8	5
518061	1.0	49.1	8.2	78.5	105	24	20	1977	5.11	2.3	<5	3	35	.21	.6	<.1	84	.97	.191	22	30	.40	80	<.01	<3	.75	.02	.20	<2	.3	<10	<.3	<.2	2.0	4
518062	.9	40.8	8.6	64.7	194	21	16	1268	4.40	3.2	<5	3	42	.12	1.3	<.1	83	.95	.198	21	30	.35	27	.01	<3	1.00	.01	.20	<2	.3	14	<.3	<.2	3.0	4
518063	.5	3.1	2.8	21.7	45	5	8	502	1.21	.6	<5	5	34	.02	.2	<.1	11	.65	.070	16	6	.20	676	<.01	3	.41	.01	.19	<2	.3	34	<.3	<.2	1.0	1
518064	.2	4.9	3.7	32.8	37	4	8	802	2.03	.9	6	3	47	.08	.2	<.1	20	1.39	.110	17	3	.39	101	<.01	3	.47	.01	.24	<2	<.2	29	<.3	<.2	1.1	<1
518065	1.4	50.2	3.0	95.9	68	32	25	2208	6.64	1.4	<5	3	36	.11	.5	<.1	103	.87	.189	18	50	.61	58	.02	<3	1.32	.02	.23	<2	.2	33	<.3	<.2	4.1	1
518066	1.2	81.1	3.3	86.2	160	34	28	2056	5.90	2.7	<5	2	30	.08	.6	<.1	113	.77	.199	19	54	.81	118	.02	<3	1.23	.02	.20	<2	<.2	27	<.3	<.2	4.4	2
518067	1.9	59.5	3.8	92.3	761	35	28	3017	6.35	6.6	<5	3	17	.15	2.0	<.1	83	.70	.174	21	33	.42	85	<.01	<3	.68	.01	.23	3	.3	34	<.3	<.2	1.8	3
STANDARD D	25.5	131.0	99.2	278.9	1978	31	17	1045	4.52	70.7	22	19	65	2.01	8.8	21.6	77	.74	.106	17	57	1.16	262	.15	27	2.43	.06	.71	21	2.7	459	.6	1.8	7.3	540

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

ICP - 30 GRAM SAMPLE IS DIGESTED WITH 180ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL. SOLUTION ANALYSED DIRECTLY BY ICP. MO CU PB ZN AG AS AU CD SB BI TL HG SE TE AND GA ARE EXTRACTED WITH MIBK-ALIQAT 336 AND ANALYSED BY ICP. ELEVATED DETECTION LIMITS FOR SAMPLES CONTAIN CU,PB,ZN,AS>1500 PPM,Fe>20%.
 - SAMPLE TYPE: CORE AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 18 1997 DATE REPORT MAILED: Aug 22/97 SIGNED BY: [Signature] .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

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

Data FA



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
518068	1.9	112.0	3.6	93.8	296	51	37	2123	6.39	3.0	<5	3	31	.12	.5	<.1	127	.77	.192	14	96	1.07	39	.03	<3	1.65	.03	.21	<2	.3	<10	<.3	<.2	5.2	6
518069	1.9	81.0	2.7	95.6	128	59	27	665	4.25	1.9	<5	<2	35	.05	1.5	<.1	119	.79	.149	8	162	1.57	111	.13	<3	1.90	.03	.10	<2	<.2	<10	<.3	<.2	6.0	3
518070	1.6	74.3	1.6	48.2	60	59	22	442	3.34	1.6	<5	<2	35	.03	<.2	<.1	102	.81	.138	6	167	1.37	79	.16	<3	1.65	.05	.13	<2	.2	<10	<.3	<.2	5.4	1
518071	2.0	99.8	4.0	118.9	427	67	37	2489	7.64	2.5	<5	3	38	.11	.9	<.1	150	.90	.149	13	101	1.29	61	.08	<3	1.61	.03	.17	<2	.2	<10	<.3	<.2	5.7	2
518072	1.7	87.9	5.0	61.3	537	45	26	1163	4.53	3.4	6	<2	34	.05	1.6	<.1	121	.68	.145	11	97	.71	30	.02	<3	1.39	.02	.17	<2	.4	<10	<.3	<.2	4.6	2
518073	2.6	73.2	8.6	144.9	1196	80	39	4203	7.32	2.2	<5	5	28	.13	.7	<.1	81	.61	.144	13	173	1.01	22	.01	<3	1.13	.01	.11	<2	.2	<10	<.3	<.2	3.4	1
518074	1.7	73.5	4.1	59.9	216	53	25	1113	3.95	2.1	<5	<2	38	.05	.5	<.1	113	.68	.150	11	166	1.20	29	.02	<3	2.04	.02	.15	<2	.2	<10	<.3	<.2	5.6	4
518075	1.6	43.7	4.0	97.8	308	59	27	2189	5.00	3.0	<5	3	35	.08	.5	<.1	77	.70	.157	11	124	1.32	25	.02	<3	1.67	.03	.13	<2	.2	<10	<.3	<.2	4.3	1
518076	1.0	70.7	13.3	121.1	1277	80	42	2493	6.45	14.2	<5	3	57	.37	6.8	<.1	114	.75	.139	11	101	.71	20	.01	<3	1.35	.01	.19	<2	.8	110	<.3	<.2	3.6	9
518077	1.4	78.2	4.6	95.5	198	77	33	1600	4.99	3.2	<5	2	28	.09	2.4	<.1	90	.70	.141	9	181	1.30	23	.09	<3	1.54	.03	.16	2	.2	<10	<.3	<.2	4.5	2
518078	.8	72.2	2.4	79.4	257	51	26	1531	4.96	3.1	<5	2	38	.08	.3	<.1	111	.78	.151	10	120	1.24	62	.07	<3	1.66	.03	.12	<2	<.2	<10	<.3	<.2	5.2	2
518079	1.1	93.6	1.9	94.6	89	66	37	1672	7.04	2.5	<5	<2	38	.07	1.2	<.1	165	.81	.167	16	178	1.76	22	.05	<3	2.22	.04	.16	<2	.2	<10	<.3	<.2	7.2	2
518080	.9	81.2	1.3	101.9	71	47	33	2127	7.54	1.6	<5	2	40	.09	.2	<.1	182	.84	.146	11	88	1.15	30	.08	<3	1.63	.05	.12	<2	<.2	<10	<.3	<.2	6.2	<1
RE 518080	.8	71.1	1.3	90.3	56	41	29	1882	6.57	1.2	<5	<2	35	.08	.2	<.1	160	.74	.130	9	76	1.02	26	.07	<3	1.43	.04	.10	<2	<.2	11	<.3	<.2	5.5	1
RRE 518080	.9	75.7	1.1	92.8	59	44	30	1960	6.93	1.8	<5	2	37	.08	<.2	<.1	168	.78	.139	10	84	1.09	26	.07	<3	1.52	.04	.11	<2	<.2	<10	<.3	<.2	5.8	1
518081	1.0	94.2	1.1	51.7	60	43	24	637	4.30	1.5	<5	<2	48	.03	<.2	<.1	124	.94	.139	6	104	1.45	28	.17	<3	1.70	.05	.08	<2	<.2	<10	<.3	<.2	5.5	1
518082	1.6	70.8	1.2	48.2	51	54	22	527	3.20	1.6	<5	2	37	.04	<.2	<.1	74	.83	.134	6	145	1.51	26	.16	<3	1.62	.04	.07	2	<.2	<10	<.3	<.2	4.5	1
518083	1.0	117.7	1.8	79.8	111	45	30	1391	5.93	2.8	<5	<2	45	.10	.4	<.1	139	.91	.151	10	71	1.22	62	.14	<3	1.60	.04	.14	2	.2	<10	.3	<.2	5.5	2
518084	1.0	63.1	2.3	185.5	162	69	43	4395	10.43	2.9	<5	4	46	.23	.3	<.1	143	.90	.129	14	106	1.54	288	.02	<3	1.88	.03	.11	<2	.2	<10	<.3	<.2	5.7	3
518085	1.0	87.8	2.2	66.0	151	54	27	1214	4.98	4.4	<5	<2	28	.06	<.2	<.1	122	.72	.154	7	122	1.20	87	.09	<3	1.50	.05	.16	<2	<.2	<10	<.3	<.2	5.5	5
518086	1.3	63.9	1.2	42.8	33	47	20	635	3.61	1.4	<5	<2	30	.02	<.2	<.1	91	.75	.146	6	116	1.04	156	.13	<3	1.27	.05	.18	2	<.2	<10	<.3	<.2	4.4	1
STANDARD D	26.3	132.5	100.4	283.4	1928	33	18	1004	4.61	72.3	24	20	59	1.97	8.8	23.9	76	.69	.108	17	57	1.16	264	.15	24	2.44	.05	.73	22	2.7	477	.7	2.0	7.1	465

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



GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE

Phelps Dodge Corp. PROJECT 253 File # 97-4571 Page 1
 1409 - 409 Granville St., Vancouver BC V6T 1T2 Submitted by: Stephen Wetherup



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
518087	1.2	66.0	1.4	47.0	57	37	17	712	3.75	2.3	<5	3	34	.04	.2	<.1	112	.83	.164	11	99	.91	190	.12	<3	1.11	.06	.10	<2	<.2	39	<.3	<.2	3.9	1
518088	3.1	10.1	1.9	19.5	39	10	5	455	1.81	1.0	<5	5	18	.03	.3	<.1	24	.22	.057	17	19	.14	138	.02	<3	.39	.04	.10	<2	<.2	23	<.3	<.2	1.6	1
518089	3.0	5.3	2.2	46.0	62	9	7	1173	2.27	2.0	<5	4	8	.09	.3	<.1	10	.15	.029	12	8	.05	174	<.01	<3	.35	.01	.12	3	.5	86	<.3	<.2	.9	1
518090	2.0	4.7	2.2	25.5	93	4	4	838	1.51	2.1	<5	6	6	.08	.3	<.1	8	.13	.030	15	8	.04	34	<.01	<3	.33	.02	.12	2	.3	39	<.3	<.2	.7	9
518091	1.9	38.2	2.7	31.3	60	10	8	581	2.34	1.2	<5	5	28	.05	.5	<.1	58	.42	.111	18	33	.35	66	.03	<3	.85	.04	.16	<2	.2	20	<.3	<.2	3.1	1
518092	1.4	23.4	8.0	91.3	828	11	11	2040	3.49	9.0	<5	4	11	.64	3.9	<.1	30	.35	.097	16	13	.13	268	<.01	<3	.56	.01	.17	2	.5	145	<.3	<.2	1.0	39
518093	3.0	33.5	5.9	61.4	200	19	14	1465	4.06	10.5	5	4	13	.31	4.3	<.1	55	.50	.134	14	29	.27	159	<.01	<3	.49	.01	.11	<2	2.3	511	<.3	<.2	1.2	3
518094	2.6	32.3	8.9	99.5	395	27	25	2056	5.25	8.7	5	3	13	.38	4.1	.2	69	.47	.117	12	22	.46	208	<.01	<3	.60	.01	.17	<2	1.4	245	<.3	<.2	1.7	4
518095	1.7	14.1	5.1	101.5	263	19	18	2774	5.79	4.7	<5	3	11	.20	1.5	.1	35	.43	.099	15	8	.24	287	<.01	<3	.55	.01	.18	2	1.2	229	<.3	<.2	1.3	1
518096	2.0	2.4	1.7	11.4	57	2	3	469	.85	1.2	<5	5	9	.02	.3	<.1	7	.11	.029	13	6	.04	85	<.01	<3	.34	.01	.12	2	.3	59	<.3	<.2	.5	1
RE 518096	2.0	2.4	1.6	12.8	40	3	3	471	.85	1.1	<5	4	9	.07	.3	<.1	7	.11	.029	13	6	.04	86	<.01	<3	.34	.01	.12	2	.4	63	<.3	<.2	.8	1
RRE 518096	2.5	2.2	1.7	13.2	97	3	2	445	.80	1.1	<5	5	9	.05	.3	.1	7	.10	.029	13	6	.04	82	<.01	<3	.32	.01	.11	<2	.4	68	<.3	<.2	.6	1
518097	2.1	2.8	2.5	25.4	110	3	3	940	1.47	2.4	<5	5	9	.07	.4	<.1	10	.13	.030	13	7	.05	201	<.01	<3	.34	.01	.10	3	.7	106	<.3	<.2	1.0	2
518098	3.6	2.7	1.9	15.6	83	3	3	635	1.24	1.2	<5	6	8	.05	.2	<.1	6	.12	.034	15	8	.04	376	<.01	<3	.28	.02	.12	3	<.2	18	<.3	<.2	.7	24
518099	3.1	6.6	4.0	38.2	311	4	5	1351	1.87	6.9	<5	6	6	.19	.9	<.1	12	.16	.041	13	6	.08	86	<.01	<3	.39	<.01	.13	<2	.2	56	<.3	<.2	.6	26
518100	3.1	5.3	2.9	43.9	184	4	4	1697	1.99	4.9	<5	5	6	.17	.7	<.1	5	.13	.030	13	5	.05	94	<.01	<3	.32	<.01	.12	2	.2	32	<.3	<.2	.7	17
518101	3.8	89.9	11.3	114.9	1102	6	7	917	2.69	115.9	<5	5	46	1.57	1.7	.2	6	.86	.049	6	7	.50	29	<.01	<3	.30	.03	.15	2	<.2	19	.5	<.2	.7	6
518102	4.5	71.5	14.7	127.8	1489	7	7	1378	3.78	106.2	<5	4	56	1.44	3.5	.1	7	1.08	.084	6	6	.74	24	<.01	<3	.33	.03	.16	2	.3	10	.6	<.2	.9	7
518103	3.1	68.1	11.1	103.0	1076	9	7	1590	3.77	161.0	<5	3	81	1.32	2.4	.1	15	1.45	.096	7	7	.97	44	<.01	<3	.43	.03	.18	2	<.2	<10	.3	<.2	1.2	3
518104	6.3	46.4	14.9	62.8	946	7	7	1094	2.89	98.8	<5	4	59	.68	1.2	.3	18	1.05	.068	7	8	.77	27	<.01	<3	.42	.03	.14	2	.2	<10	.4	<.2	1.7	8
518105	2.4	59.6	19.6	78.3	1264	6	9	1348	3.30	109.9	<5	4	73	1.14	1.4	.2	8	1.30	.067	6	7	.75	26	<.01	<3	.28	.03	.16	3	.2	<10	.6	<.2	1.0	10
518106	3.9	63.1	19.0	70.9	1708	7	11	1096	3.61	92.3	<5	4	61	.72	1.4	.6	10	1.10	.071	7	10	.61	36	<.01	<3	.38	.03	.17	3	<.2	16	.7	.3	.9	10
518107	3.8	191.5	27.7	125.4	3080	9	22	1387	5.67	655.2	<5	4	47	1.14	2.0	.4	8	.99	.079	5	8	.55	25	<.01	<3	.39	.03	.17	2	<.2	22	1.7	.2	.6	107
518108	3.2	37.0	6.5	42.6	513	10	12	1091	4.62	89.7	<5	3	65	.20	.5	.5	64	1.50	.131	8	14	1.01	52	.05	<3	.83	.05	.24	2	.2	13	.5	.4	3.8	13
RE 518108	2.9	37.0	6.1	42.3	475	9	12	1091	4.62	86.8	<5	3	65	.19	.5	.5	64	1.50	.131	8	14	1.01	54	.05	<3	.84	.05	.24	2	<.2	<10	.5	.4	3.8	13
RRE 518108	2.9	40.5	6.4	44.5	508	10	13	1111	4.76	79.6	<5	3	67	.19	.5	.5	64	1.54	.134	7	14	1.02	56	.05	<3	.87	.06	.26	<2	.2	13	.5	.4	3.8	15
518109	3.3	77.4	23.0	88.1	1650	8	14	1571	4.18	147.4	<5	3	68	.80	2.5	.3	31	1.42	.098	6	8	.85	40	.01	<3	.57	.03	.16	2	.3	19	.6	.2	2.3	14
518110	3.1	61.1	10.5	106.3	852	12	15	1637	5.09	89.6	<5	3	60	.49	2.5	.4	77	1.36	.137	9	19	1.24	77	.04	<3	1.23	.05	.24	<2	.2	<10	.5	.2	6.7	10
518111	7.2	195.6	17.2	120.4	2562	9	11	1619	3.98	147.7	<5	4	70	.92	2.5	<.1	30	1.40	.089	7	9	.85	25	<.01	<3	.77	.03	.17	2	.2	16	.4	<.2	2.9	3
518112	4.7	319.8	7.7	218.4	2638	5	6	1054	2.12	23.5	<5	5	51	2.07	2.1	<.1	15	1.11	.068	9	9	.51	43	.01	<3	.46	.04	.17	2	.3	<10	.4	<.2	1.9	2
518113	9.3	751.2	8.3	195.3	4640	8	10	1052	2.72	18.8	5	5	53	1.90	3.0	<.1	18	1.34	.078	11	9	.67	33	<.01	<3	.51	.04	.15	2	.2	18	.4	.2	2.4	4
518114	5.6	135.4	6.4	63.7	930	4	5	708	1.93	10.4	<5	5	35	.70	1.0	<.1	8	.75	.046	10	9	.34	42	.01	<3	.35	.04	.14	2	.2	<10	.3	<.2	1.3	2
518115	7.9	120.0	11.7	80.0	1320	7	9	1404	3.17	153.3	<5	4	41	.65	1.2	.1	33	.94	.075	10	12	.74	110	.04	<3	.70	.04	.24	2	.2	<10	.3	.2	2.7	11
518116	3.1	114.5	16.0	80.0	1694	8	17	1583	4.55	137.6	<5	3	41	.46	1.6	.3	40	1.07	.112	8	9	.84	42	.01	<3	.90	.04	.19	<2	.2	10	.6	.2	3.4	18
STANDARD D	25.4	131.8	103.1	269.1	2110	32	17	1047	4.77	70.3	20	21	57	2.06	9.3	21.9	77	.71	.111	18	58	1.25	261	.14	25	2.42	.05	.71	22	2.5	420	.5	2.7	6.9	470

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

ICP - 30 GRAM SAMPLE IS DIGESTED WITH 180 ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL. SOLUTION ANALYSED DIRECTLY BY ICP. MO CU PB ZN AG AS AU CD SB BI TL HG SE TE AND GA ARE EXTRACTED WITH MIBK-ALIQUOT 336 AND ANALYSED BY ICP. ELEVATED DETECTION LIMITS FOR SAMPLES CONTAIN CU,PB,ZN,AS>1500 PPM,Fe>20%.
 - SAMPLE TYPE: CORE AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 21 1997 DATE REPORT MAILED: *Aug 27 1997* SIGNED BY: *[Signature]* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

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

Data FA



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
518117	5.9	160.2	21.4	103.8	3162	9	18	1289	4.27	508.7	<5	4	53	1.00	1.3	.3	24	1.23	.093	7	12	.69	26<.01	<3	.70	.03	.17	4	.2	12	1.0	.4	2.4	19	
518118	5.9	115.3	8.3	33.5	1519	7	19	1244	4.21	73.9	<5	4	44	.18	1.2	.2	22	1.08	.082	9	11	.73	26<.01	<3	.62	.03	.16	3	.2	<10	.7	.3	2.8	12	
518119	4.7	98.9	12.4	28.5	1906	6	12	1050	3.60	484.6	<5	4	46	.16	1.6	.3	20	1.07	.078	8	9	.66	26<.01	<3	.53	.03	.15	2	.2	<10	.7	.4	2.2	28	
518120	3.0	115.4	17.2	44.1	2875	8	13	1332	4.81	906.5	<5	3	76	.29	1.9	.2	46	1.54	.129	8	11	.86	32.01	<3	.55	.04	.22	<2	.2	<10	.6	.6	1.9	74	
518121	5.7	48.7	13.5	16.0	1363	5	9	1169	3.13	1608.7	<5	4	65	<.06	1.4	<.6	6	1.33	.090	5	6	.58	20<.01	<3	.25	.03	.16	2<.1.2	12<.1.8	1.2	<3	57			
518122	5.0	95.4	10.8	35.6	1801	5	6	1213	2.55	559.6	<5	4	83	.35	1.0	<.1	9	1.54	.076	8	6	.71	25<.01	<3	.28	.03	.16	2	<.2	<10	<.3	.2	<.5	17	
518123	6.3	53.4	10.2	38.6	745	5	5	1124	2.56	395.2	<5	6	86	.36	.5	.2	16	1.64	.056	10	9	.75	26<.01	<3	.46	.04	.13	3	.2	<10	<.3	<.2	2.0	9	
518124	6.2	136.6	12.1	59.3	1573	6	9	1118	3.18	50.0	<5	4	77	.33	1.8	<.1	27	1.59	.093	9	10	.81	85.02	<3	.65	.04	.21	2	<.2	<10	.4	<.2	3.1	34	
518125	8.2	423.0	6.7	59.7	2690	9	11	873	4.09	72.7	<5	4	71	.31	3.0	.5	36	1.48	.101	9	11	.84	69.02	<3	.74	.04	.20	3	.2	13	.7	.4	3.6	52	
518126	6.6	73.8	9.4	43.5	878	7	8	920	3.44	69.1	<5	5	69	.23	.8	.6	14	1.30	.079	12	9	.61	33<.01	<3	.52	.03	.19	3	<.2	13	.4	.3	1.6	10	
518127	5.7	101.4	13.0	27.9	1378	7	8	983	3.93	130.5	<5	4	93	.19	.6	.4	11	1.63	.079	9	8	.76	26<.01	<3	.29	.03	.16	3	<.2	11	.7	.3	1.1	9	
518128	5.2	145.2	11.5	30.3	2135	5	7	847	2.97	158.1	<5	4	91	.25	1.3	.3	7	1.54	.066	8	7	.69	29<.01	<3	.25	.03	.17	3	<.2	10	.6	.3	.7	4	
518129	4.8	556.3	16.3	60.9	5205	9	9	1264	4.28	673.8	<5	3	112	.45	.7	.7	24	2.05	.103	8	9	1.01	32<.01	<3	.41	.03	.19	2	<.2	16	.6	.8	1.4	24	
518130	4.2	255.8	13.1	47.6	2909	9	8	777	3.53	196.2	<5	4	77	.35	.4	.6	49	1.55	.120	11	15	.93	176.09	<3	.66	.05	.30	2	.2	<10	.3	.4	3.3	9	
RE 518130	4.1	240.1	12.6	44.7	2673	8	8	726	3.26	183.7	<5	4	71	.34	.4	1.2	45	1.46	.113	10	13	.87	154.09	<3	.61	.05	.28	2	.2	<10	.3	.4	3.2	6	
RRE 518130	4.9	257.4	13.5	42.8	3027	8	8	778	3.49	183.1	<5	4	75	.33	.4	<.1	47	1.54	.120	11	14	.92	155.09	<3	.62	.05	.28	2	<.2	10	.5	.5	3.3	7	
518131	5.8	423.8	52.0	49.1	7452	6	4	1194	2.80	922.1	<5	4	81	.41	1.0	1.0	27	1.77	.096	8	10	.61	93.02	<3	.41	.03	.17	2	<.2	23	.4	.9	1.5	43	
518132	6.8	415.7	17.0	322.6	6093	4	2	1090	1.49	671.0	<5	5	65	3.68	.9	.2	4	1.58	.054	8	7	.49	22<.01	<3	.21	.03	.14	2	<.2	25	.4	<.2	1.0	12	
518133	9.0	338.7	22.9	50.5	5392	3	4	924	1.72	567.8	<5	4	60	.61	.8	<.1	3	1.32	.046	8	8	.41	23<.01	<3	.22	.03	.14	3	<.2	15	.3	.3	<.5	14	
518134	9.6	135.2	36.8	72.0	2563	6	5	1136	2.21	3520.6	<5	5	56	.75	1.6	<.8	3	1.36	.052	9	7	.44	18<.01	<3	.20	.03	.14	3<.1.6	<10	<.2	<.4	<.6	<.4	152	
518135	3.9	41.6	9.9	22.6	731	2	2	719	1.21	612.4	<5	6	38	.21	.7	.1	3	.86	.031	11	8	.30	20<.01	<3	.22	.03	.13	3	<.2	<10	.3	<.2	.7	26	
518136	3.4	74.7	17.9	51.3	1181	6	5	1264	3.28	777.0	<5	4	79	.42	1.0	.1	8	1.84	.092	13	7	.76	27<.01	<3	.35	.03	.17	2	<.2	<10	.6	<.2	1.0	14	
518137	3.2	53.4	11.4	35.7	564	6	4	1019	2.97	80.9	<5	5	53	.21	.9	.3	28	1.38	.080	14	11	.81	36.01	<3	.63	.04	.18	3	<.2	<10	.3	.2	2.9	3	
518138	5.9	20.8	26.4	40.7	722	3	2	680	1.04	66.3	<5	6	25	.45	1.2	.1	2	.76	.031	8	8	.25	22<.01	<3	.22	.02	.12	3	<.2	<10	<.3	<.2	.5	8	
518139	7.8	56.3	25.5	60.4	1449	5	8	1089	2.18	1139.7	<5	5	44	.78	<.2	<.6	3	1.33	.047	10	7	.48	18<.01	<3	.26	.03	.15	3<.1.2	<10	<.1.8	1.2	<3	29		
518140	5.3	380.4	128.9	517.2	3717	18	18	2411	5.51	4116.2	<5	3	74	6.03	4.6	<.1	67	2.62	.139	12	22	1.65	44.02	<3	1.19	.03	.29	<2	<.2	10	<.3	<.2	5.1	177	
RE 518140	5.0	363.2	122.2	498.0	3443	18	18	2301	5.26	3926.1	<5	3	70	5.60	4.1	<.1	64	2.51	.133	12	22	1.58	43.02	<3	1.15	.03	.27	<2	<.2	17	<.3	<.2	<.5	184	
RRE 518140	6.2	343.7	90.5	364.9	3516	16	17	2142	5.04	2631.2	<5	3	66	4.63	3.6	<.2	65	2.36	.130	11	22	1.55	44.02	<3	1.18	.03	.28	<2	<.2	15	<.3	<.6	<.2	<.4	119
518141	5.0	118.8	20.4	59.6	1609	15	18	1641	5.68	590.9	<5	3	52	.30	2.9	.5	53	1.77	.116	10	20	1.20	49.03	<3	1.19	.03	.31	<2	.3	<10	.7	.3	4.3	24	
518142	7.3	49.8	26.4	102.3	687	2	7	802	1.30	708.7	<5	6	21	1.15	1.0	.1	1	.70	.014	6	10	.16	20<.01	<3	.19	.02	.16	3	<.2	<10	<.3	<.2	<.5	52	
518143	14.6	65.6	33.9	98.0	644	3	5	751	1.11	838.4	<5	7	20	1.11	1.7	<.1	2	.66	.015	9	10	.17	21<.01	<3	.22	.02	.14	3	<.2	12	<.3	<.2	.8	49	
518144	10.9	41.1	15.3	59.8	697	2	6	684	1.20	598.3	<5	7	20	.75	2.0	<.1	1	.64	.015	6	9	.16	19<.01	<3	.20	.03	.13	3	<.2	<10	.4	<.2	.6	49	
518145	5.8	80.4	14.6	26.5	1376	3	13	624	2.30	1681.1	<5	7	16	.28	6.4	<.6	1	.56	.015	4	9	.15	18<.01	<3	.24	.02	.14	4	<.2	12	<.1.8	<.2	<.3	103	
518146	4.3	50.8	21.1	42.0	1192	2	13	372	2.22	617.1	<5	7	12	.58	4.3	.1	<.1	.35	.014	3	8	.08	20<.01	<3	.20	.02	.14	4	<.2	<10	1.0	.3	<.5	192	
518147	6.9	71.3	17.7	104.5	1069	3	6	506	1.16	412.4	<5	7	17	1.18	2.4	<.1	1	.51	.016	10	10	.14	19<.01	3	.23	.03	.11	4	<.2	<10	.5	<.2	<.5	54	
STANDARD D	26.1	132.6	101.8	270.9	2044	32	17	1055	4.75	78.5	17	21	57	2.47	9.7	23.3	77	.71	.111	19	58	1.25	259.14	25	2.42	.05	.70	23	2.7	425	.6	2.1	7.6	457	

Standard is STANDARD 02/HG-500/AU-R. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



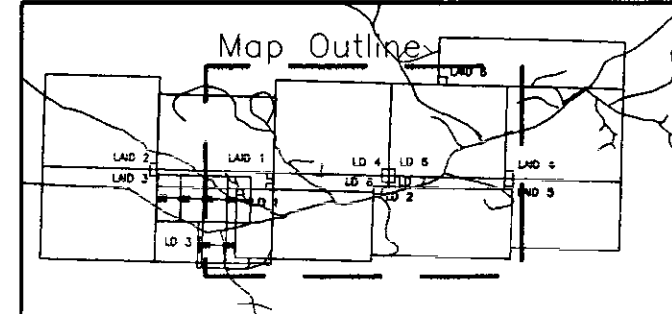
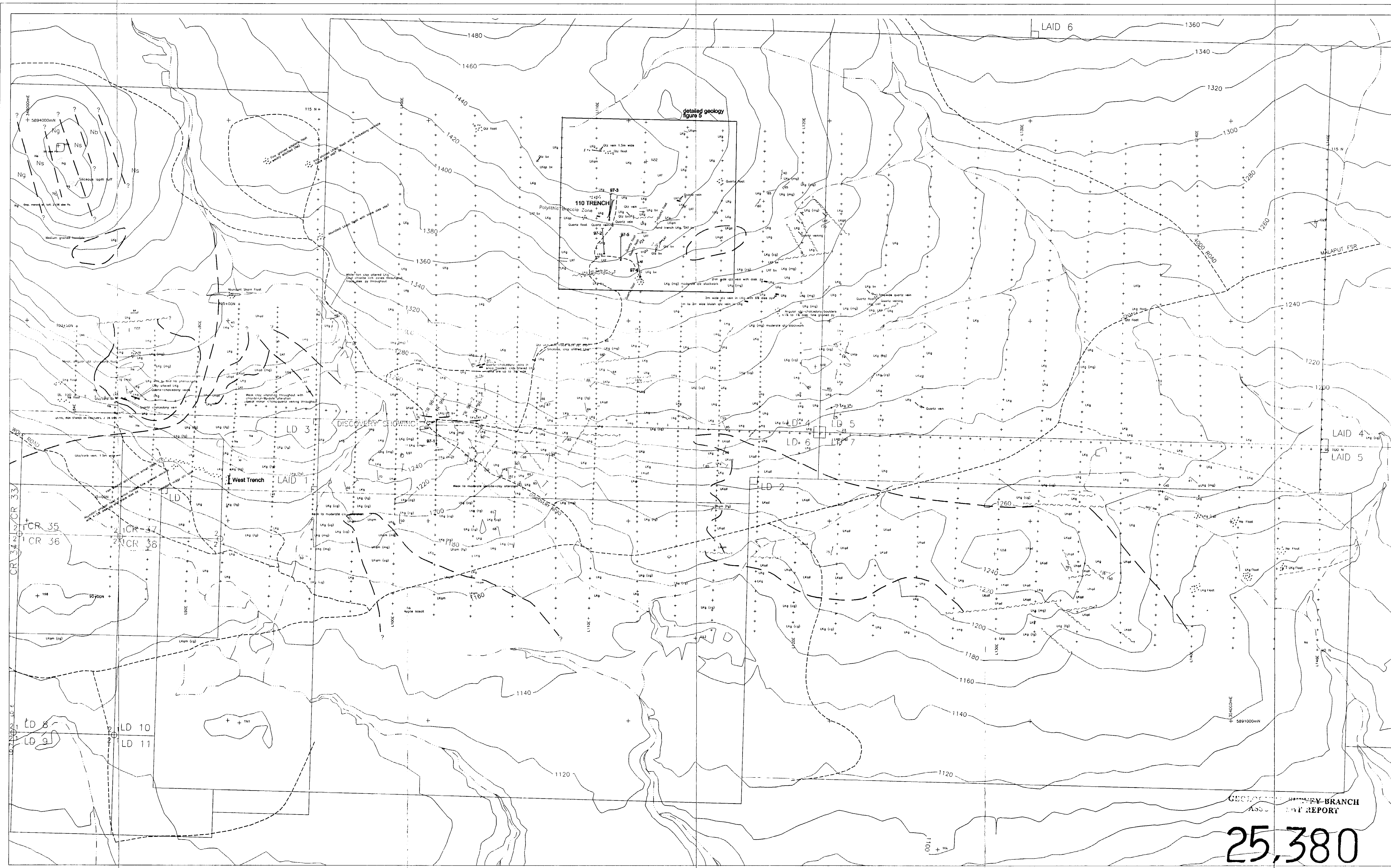
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
518148	4.4	21.1	42.6	99.2	570	3	6	871	1.60	95.4	<5	6	82	1.08	1.5	.3	9	1.73	.058	14	11	.49	177<.01	3	.42	.03	.23	3	.2	20	<.3	<.2	1.2	32	
518149	13.5	76.6	27.0	68.2	870	3	11	627	1.73	135.6	<5	6	52	.77	1.2	<.1	5	1.14	.030	9	15	.23	99<.01	4	.32	.04	.21	5	<.2	11	.3	.2	.7	84	
518150	14.2	58.3	34.9	78.4	806	4	7	576	.87	116.3	<5	7	33	1.00	.7	.1	1	.89	.011	5	18	.03	29<.01	<3	.25	.02	.20	5	.2	<10	<.3	<.2	.5	79	
518151	11.5	21.8	21.4	39.9	635	4	4	576	.87	58.1	<5	6	26	.53	.7	.1	1	.70	.017	10	22	.12	30<.01	<3	.30	.05	.20	7	.2	<10	<.3	<.2	1.2	48	
518152	12.1	105.6	36.5	103.2	915	4	13	525	1.28	105.0	<5	8	24	1.35	1.4	<.1	3	.69	.019	13	19	.14	41<.01	<3	.29	.05	.16	5	<.2	<10	.4	<.2	1.2	55	
518153	10.8	117.1	34.2	66.3	1175	6	18	1140	1.85	1080.3	<5	6	37	.92	1.4	<.5	3	1.14	.053	8	16	.27	26<.01	<3	.29	.04	.20	5	<.1	10<1.5	<1<2.5	1.46	146		
518154	18.1	34.0	5.9	19.5	352	3	3	635	.60	25.8	<5	7	22	.23	1.1	<.1	1	.66	.015	6	18	.11	24<.01	<3	.20	.04	.15	4	<.2	<10	<.3	<.2	<.5	37	
518155	10.9	11.3	7.0	31.1	179	3	2	494	.49	22.5	<5	7	23	.39	.5	<.1	1	.66	.013	11	19	.08	28<.01	<3	.24	.05	.17	6	.2	10	<.3	<.2	.8	22	
518156	5.1	11.9	5.9	27.6	139	3	1	733	.42	15.3	<5	8	28	.39	.3	.3	1	.84	.013	7	20	.08	27<.01	<3	.22	.03	.18	4	<.2	<10	<.3	<.2	.7	8	
518157	11.7	11.8	5.2	25.7	156	3	1	576	.52	10.6	<5	7	23	.33	.3	.2	1	.64	.016	8	20	.09	33<.01	<3	.26	.06	.20	7	<.2	<10	<.3	<.2	.5	7	
518158	10.2	15.0	5.5	16.0	109	2	1	545	.47	11.7	<5	8	20	.16	.3	.1	1	.59	.016	8	18	.10	27<.01	<3	.19	.05	.14	4	<.2	<10	<.3	<.2	.8	10	
518159	5.4	17.1	17.6	31.2	267	2	3	582	.62	32.1	<5	7	20	.40	.4	.1	1	.59	.016	7	15	.10	27<.01	<3	.17	.04	.15	6	<.2	<10	<.3	<.2	<.5	22	
518160	6.0	11.9	7.7	33.6	191	3	2	391	.52	56.8	<5	7	16	.42	.7	.1	2	.50	.017	10	14	.08	26<.01	<3	.19	.05	.13	4	<.2	<10	<.3	<.2	.7	16	
RE 518160	5.2	12.0	6.8	34.5	159	3	2	397	.54	59.9	<5	7	17	.39	.6	<.1	1	.51	.017	11	15	.08	27<.01	<3	.19	.05	.14	5	<.2	<10	<.3	<.2	<.5	16	
RRE 518160	5.7	13.4	7.4	31.2	183	3	2	393	.59	57.5	<5	7	17	.38	.6	<.1	1	.49	.016	11	17	.08	31<.01	<3	.22	.06	.15	7	<.2	10	<.3	<.2	.8	15	
518161	16.6	52.3	35.2	34.8	440	3	3	504	.51	53.3	<5	7	24	.39	.7	.1	<.1	.69	.017	7	15	.05	28<.01	<3	.18	.04	.15	5	<.2	<10	<.3	<.2	.5	26	
518162	11.3	16.2	29.3	81.9	241	2	2	537	.50	31.1	<5	8	18	.92	.5	.1	1	.56	.017	4	16	.06	28<.01	<3	.21	.04	.16	6	<.2	13	<.3	<.2	<.5	11	
518163	23.8	38.0	67.4	144.5	966	5	11	1232	2.49	590.6	<5	4	46	1.55	.9	.8	5	1.41	.086	5	10	.39	33<.01	<3	.34	.02	.22	4	<.2	<10	.4	<.2	.8	78	
518164	6.7	218.5	12.0	28.5	1970	6	9	755	2.63	14.1	<5	4	53	.16	7.1	1.5	21	1.47	.082	9	15	.64	74	.02	<3	.72	.04	.27	7	.2	<10	.7	.6	3.3	16
518165	5.0	164.1	7.8	29.5	1732	7	7	636	2.85	12.4	<5	4	40	.24	14.5	.9	18	1.44	.069	10	13	.52	60	.02	<3	.65	.04	.22	5	<.2	<10	1.0	.9	2.7	11
518166	4.3	344.4	17.6	43.7	2788	5	8	736	2.75	2.9	<5	4	47	.35	2.1	1.3	20	1.69	.077	13	12	.66	66	.02	<3	.78	.04	.29	6	.3	<10	1.2	.8	3.2	8
518167	10.9	682.9	9.6	39.2	10207	3	5	247	.97	13.0	<5	7	24	.66	13.2	4.0	2	.61	.020	7	14	.09	29<.01	<3	.19	.04	.14	4	.2	<10	.6	3.2	1.3	33	
518168	10.6	274.7	3.7	29.7	1928	5	9	322	2.26	12.3	<5	6	30	.23	3.4	.8	17	.81	.042	8	16	.36	54	.02	<3	.45	.05	.16	7	<.2	<10	1.1	.6	2.9	8
518169	7.2	508.3	5.3	87.4	3830	5	5	351	1.49	18.0	<5	6	34	.88	4.4	2.3	9	.90	.036	8	15	.26	112	.01	<3	.34	.05	.15	4	<.2	<10	.7	1.1	1.9	9
518170	4.1	332.1	14.8	94.6	4088	3	2	409	.58	7.2	<5	7	24	.95	4.6	.5	2	.67	.021	11	15	.12	58<.01	<3	.21	.04	.14	6	<.2	<10	.3	.5	.7	16	
RE 518170	4.6	326.2	16.0	93.2	4390	2	2	399	.56	6.7	<5	6	24	1.01	5.2	.3	2	.65	.020	11	15	.12	57<.01	<3	.21	.04	.14	6	<.2	<10	.3	.4	.8	14	
RRE 518170	4.8	325.5	15.3	102.4	4245	3	2	412	.55	7.0	<5	7	25	1.03	5.1	.2	2	.69	.021	12	15	.12	54<.01	<3	.22	.04	.14	5	<.2	<10	<.3	.5	.6	18	
518171	9.9	236.9	16.5	93.2	4250	5	4	421	.94	15.2	<5	5	33	1.00	1.7	3.1	18	.84	.048	8	20	.24	46	.04	<3	.63	.06	.29	7	.3	<10	<.3	1.6	2.3	15
518172	15.0	183.0	25.7	7.5	12278	3	1	239	.35	4.7	<5	6	20	.11	1.2	7.4	1	.57	.016	6	15	.02	30<.01	<3	.16	.04	.13	4	<.2	<10	<.3	5.1	.6	61	
518173	7.3	103.6	5.7	50.9	1749	3	3	256	.83	14.3	<5	7	18	.45	.9	.4	3	.50	.016	11	17	.09	34<.01	<3	.25	.06	.15	6	<.2	<10	<.3	.5	1.0	21	
518174	4.9	120.8	5.2	64.3	1474	3	2	222	.84	137.9	<5	8	17	.56	1.3	.1	3	.46	.015	8	15	.07	32	.01	<3	.23	.05	.15	5	<.2	<10	<.3	.2	1.0	20
518175	5.1	228.1	8.8	58.1	2304	3	3	264	1.01	72.5	<5	6	20	.54	.6	1.4	2	.54	.015	7	15	.05	28<.01	<3	.19	.05	.14	6	<.2	<10	.3	.7	.6	32	
518176	4.4	258.0	9.1	34.6	2954	3	2	249	.64	395.9	<5	6	21	.35	.6	.7	1	.59	.019	4	13	.02	27<.01	<3	.18	.04	.15	4	<.2	<10	<.3	.7	.7	46	
518177	3.8	59.9	4.4	19.2	453	3	1	264	.86	22.4	<5	8	17	.14	.5	.1	5	.49	.016	16	17	.12	32	.01	<3	.28	.06	.13	7	<.2	<10	<.3	<.2	1.6	11
518178	3.9	245.8	20.1	107.2	5549	3	1	277	.57	14.0	<5	6	21	.97	14.1	1.8	3	.57	.017	7	14	.07	36<.01	<3	.21	.05	.12	4	<.2	<10	<.3	1.2	.9	31	
STANDARD D	26.5	133.8	101.8	281.1	2187	33	18	1071	4.47	78.0	17	22	59	2.35	9.7	21.5	78	.72	.116	19	60	1.27	269	.15	25	2.48	.05	.74	20	2.7	450	<.3	2.4	7.9	531

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

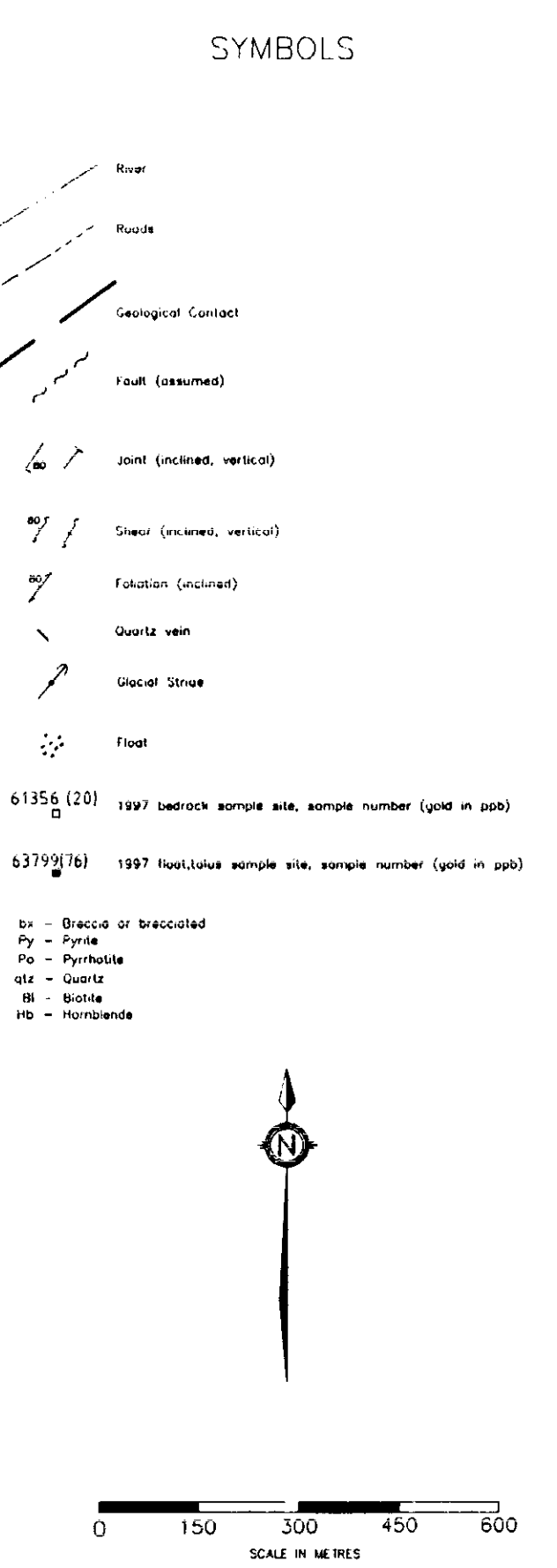


SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B %	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
518179	3.3	163.2	6.7	62.0	2882	2	2	367	.78	20.4	<5	8	26	.78	15.0	.2	1	.71	.019	8	14	.07	26	<.01	<3	.19	.05	.13	7	<.2	14	.3	.4	.9	11
518180	4.1	29.8	6.6	10.8	1078	4	1	309	1.10	8.9	<5	8	21	.14	2.2	.6	2	.55	.017	9	15	.10	31	<.01	<3	.23	.05	.14	5	<.2	<10	<.3	.3	<.5	3
518181	8.2	22.7	5.1	5.5	736	3	2	262	.97	5.9	<5	6	25	.10	2.1	.4	1	.59	.016	6	15	.06	83	<.01	<3	.18	.05	.14	8	.2	<10	<.3	.2	.8	<1
518182	6.0	17.2	11.5	8.9	1141	3	1	279	2.28	7.5	<5	7	23	.12	1.3	.9	2	.58	.018	7	15	.08	37	<.01	<3	.18	.05	.12	7	<.2	<10	.3	.5	.9	3
518183	3.3	50.6	38.7	13.5	4411	3	5	492	3.62	16.2	<5	6	29	.23	1.8	3.0	3	.95	.027	6	14	.09	28	<.01	<3	.20	.04	.15	10	.2	<10	.6	1.9	1.0	20
RE 518183	3.0	50.3	38.0	13.6	4814	3	5	487	3.63	14.0	<5	6	29	.19	1.7	2.8	3	.95	.027	7	14	.09	29	<.01	<3	.20	.04	.15	10	<.2	<10	.6	2.0	.7	20
RRE 518183	3.3	59.2	44.5	16.8	5620	4	6	535	4.09	14.5	<5	6	30	.23	1.5	4.0	3	1.05	.026	6	14	.09	26	<.01	<3	.19	.04	.13	8	<.2	<10	.8	2.5	.5	25
518184	4.3	16.7	67.5	33.2	6351	2	3	256	1.48	9.1	<5	7	21	.46	2.5	3.6	3	.45	.017	9	14	.07	58	<.01	<3	.22	.05	.13	8	<.2	<10	.3	2.7	.8	34

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



- LEGEND**
- LATE CRETACEOUS OR YOUNGER ?**
 - LD1** FELDSPAR PORPHYRY DIKE: Light grey to cream, very fine grained rock with rounded to subangular felsic phenocrysts to 5mm.
 - LD2** QUARTZ PORPHYRY DIKE: Up to 5mm rounded quartz phenocrysts set in a very fine grained light grey to cream fine grained matrix.
 - LD3** FELSIC DIKE: Grey to cream, fine grained locally siliceous and locally brecciated.
 - LD4** MAFIC DIKE: Dark grey to greenish black, coarse to fine locally with angular $1-5\text{mm}$ porphyroclasts. Rock is nearly chloritic.
 - LATE CRETACEOUS**
 - LAGANAN BATHOLITH**
 - LD5** GRANITE: Fine to grey fine to coarse grained, locally with up to 5% biotite. Fine grained orthoclase are porphyroclasts.
 - LD6** GRANODIORITE: Fine to medium grained, grey with biotite and hornblende phenocrysts set in a fine grained matrix. Locally the biotite and hornblende are weakly to moderately chloritic.
 - LD7** QUARTZ MONZONITE: Fine to medium grained pink to cream to grey felsic and quartz phenocrysts set in a pink fine grained matrix.
 - NEOTENE**
 - LD8** DIORITE: Moderately to coarse grained, locally with hornblende and quartz phenocrysts.
 - LD9** QUARTZ MONZONITE: Orange to black locally, intensely fractured, medium grained.
 - LD10** GABBRO: Dark grey to black, coarse grained, locally with hornblende and quartz phenocrysts.
 - LD11** ANDESITE: Cream to grey, fine grained, locally with porphyroclasts.
- SYMBOLS**
- Flow
 - Road
 - Geological Contact
 - Fault (assumed)
 - Joint (exposed, vertical)
 - Shear (exposed, vertical)
 - Foliation (exposed)
 - Quartz vein
 - Diapiric dike
 - Flood
- 6155 (20) 1997 barrock sample site, sample number (gold in g)
 6379 (76) 1997 faultline sample site, sample number (gold in g)
- by - Breccia or brecciated
 py - Pyrite
 qz - Quartz
 bt - Biotite
 hb - Hornblende



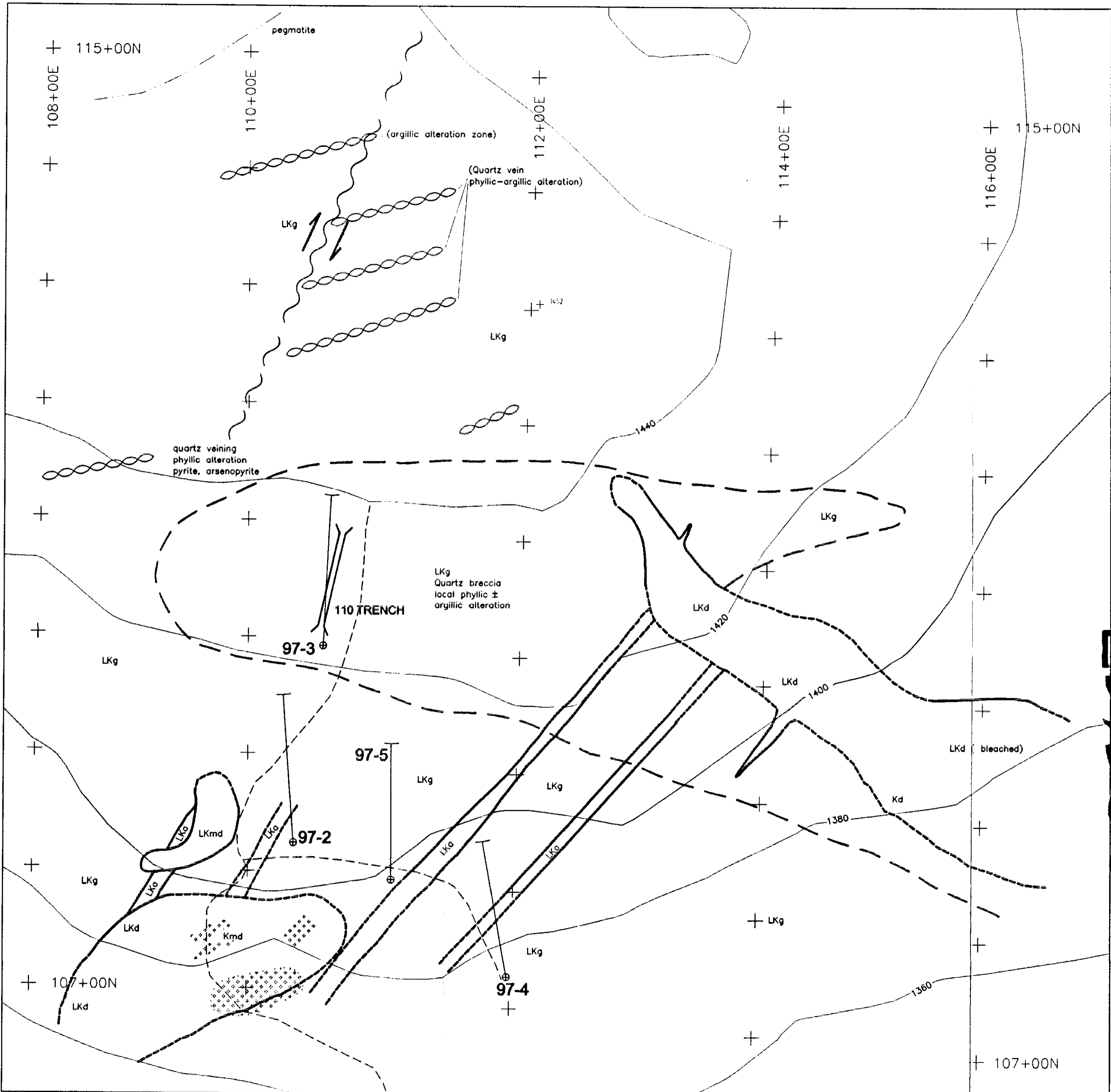
To Accompany 1998 Report on the Lachlan Gold Prospect
PHELPS DODGE CORP. OF CANADA LIMITED
 PROJECT NO. 253 (LAGANAN PROPERTY) ONDICA MINING DIVISION

GEOLGY, 1997 DRILL HOLE AND TRENCH LOCATIONS

SCALE	DATE	BY	NIS NO.	FIGURE
1:7500	FEB/98	CWP	93 F/3	4

FOR GEOLOGICAL SERVICES INC.

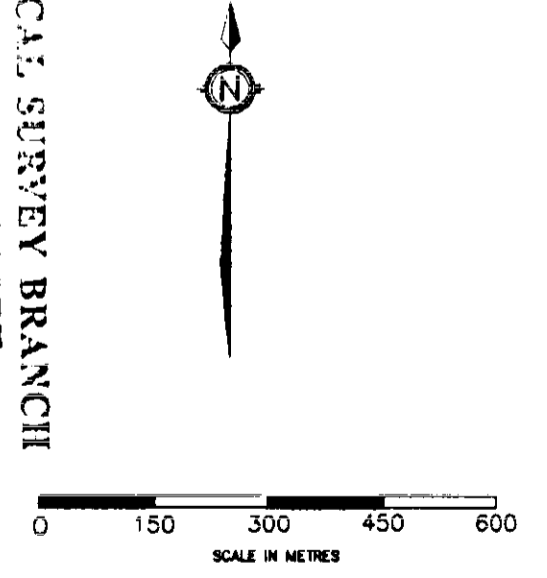
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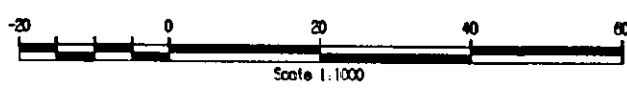
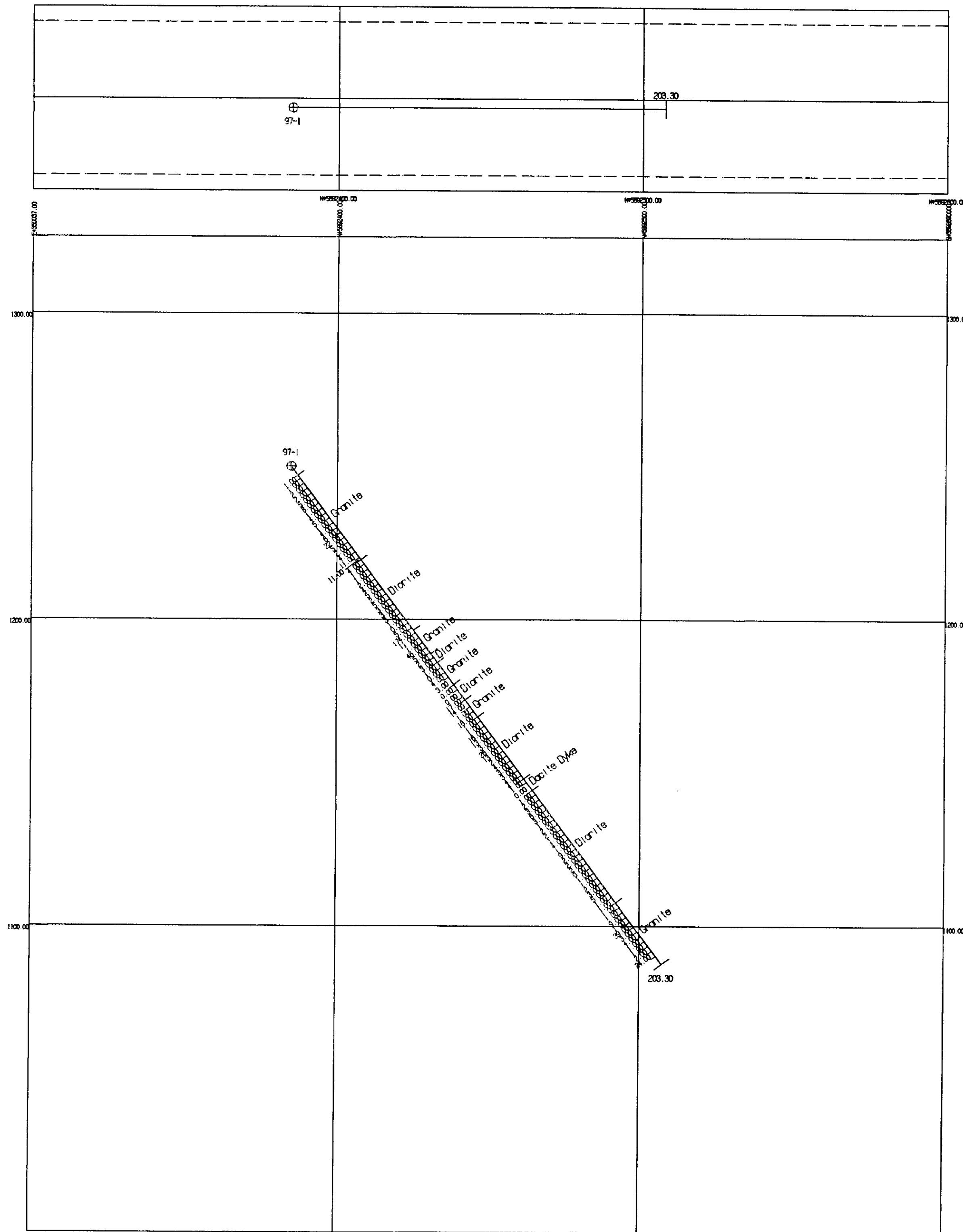
- Late Cretaceous or Younger**
- LKmd** → monzodiorite: f.g. olive coloured
0-10% disseminated pyrite
brecciated zones with Kmd for matrix: clasts of LKd, LKg, LKa
 - LKd** → diorite: m.g., salt + pepper
local f.g. border phases
and carbonate/quartz veins
- Late Cretaceous**
Laidman Batholith
- LKa** → aplite dykes: light pink, grey, cream,
two generations ① An aphyric phase
② qtz eye phase with 5-10%, euhedral qtz phenocrysts, local pyrite up to 5%
 - LKg** → granite to qtz monzonite: greyish pink to pink; local phyllic to weak argillic alteration and silification, three phases:
① qtz eye granite with 2-4mm qtz agglomerocrysts, quartz eyes
② granite with eutectic growth textures
③ qtz monzonite with similar eutectic textures as granite phase.
- qtz breccia boundary
 - geological contact
 - - - - - inferred geological contact
 - ∞ qtz veining with alteration envelope
 - ↔ fault, inferred fault, relative motion indicated

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**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**

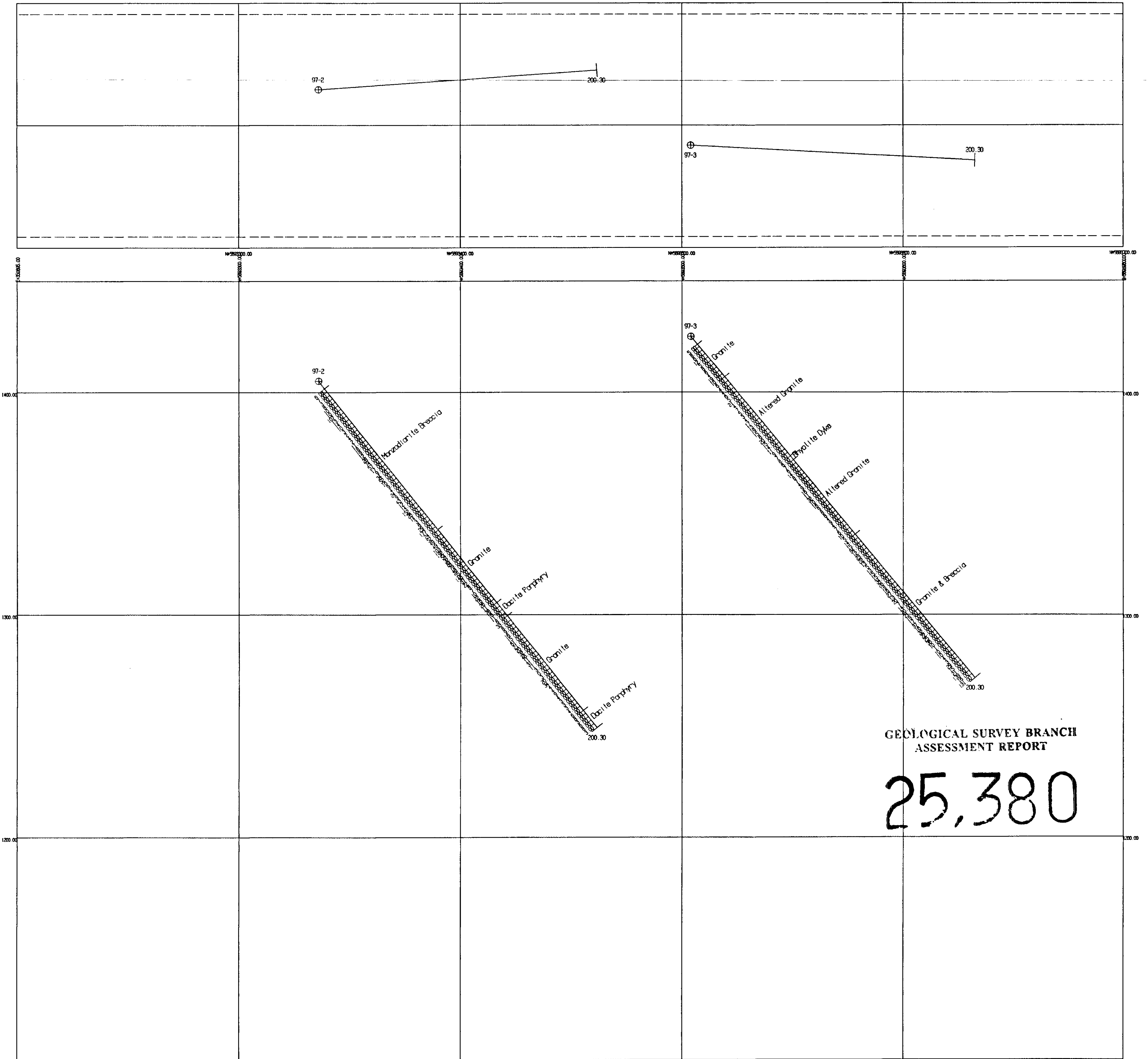


PHELPS DODGE CORP. OF CANADA LIMITED				
PROJECT NO.: 253 (LAIDMAN PROPERTY)			OMENCA MINING DIVISION	
DETAILED GEOLOGY 110 ZONE				
SCALE	DATE	BY	NTS NO.	FIGURE
1:2500	JAN/98	SW	93 F/3	5
FOX GEOLOGICAL SERVICES INC.				



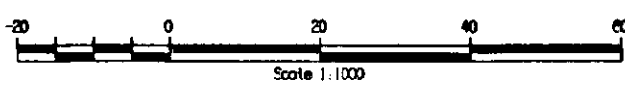
Vancouver Office
 1409 - 409 Granville Street
 Vancouver, BC
 V6C 1T8
 UNITS : METRES DATE: 98/01/28 TIME: 14:04:44
 Drawn By :

Fox Geological Consultants Ltd.
 PHELPS DODGE CORPORATION OF CANADA LIMITED
 Geology and Gold Results in ppb
 CROSS-SECTION 97-1 25320
 LAIDMAN PROPERTY, BRITISH COLOMBIA FIG 6a

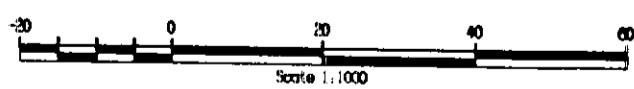
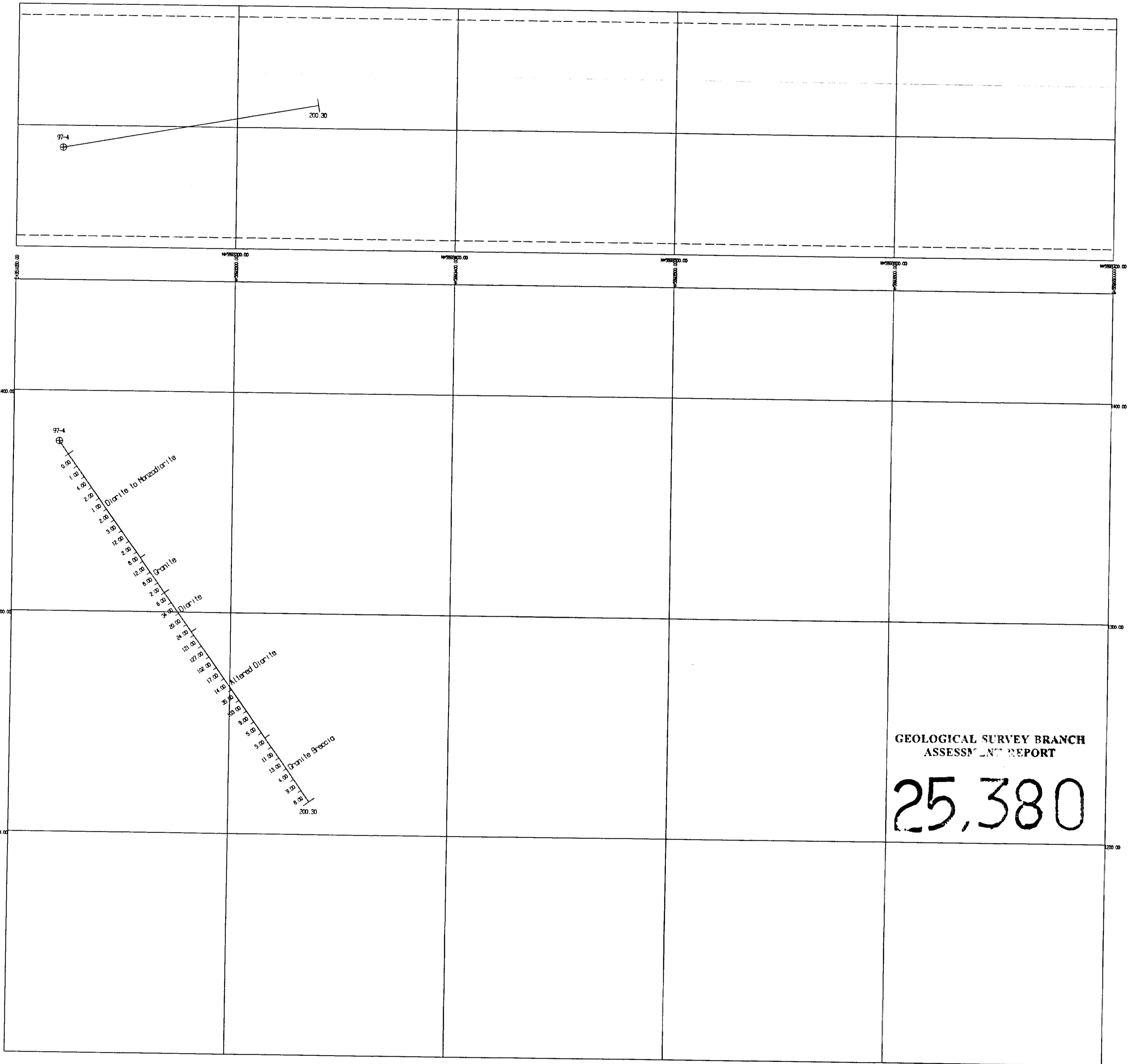


GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

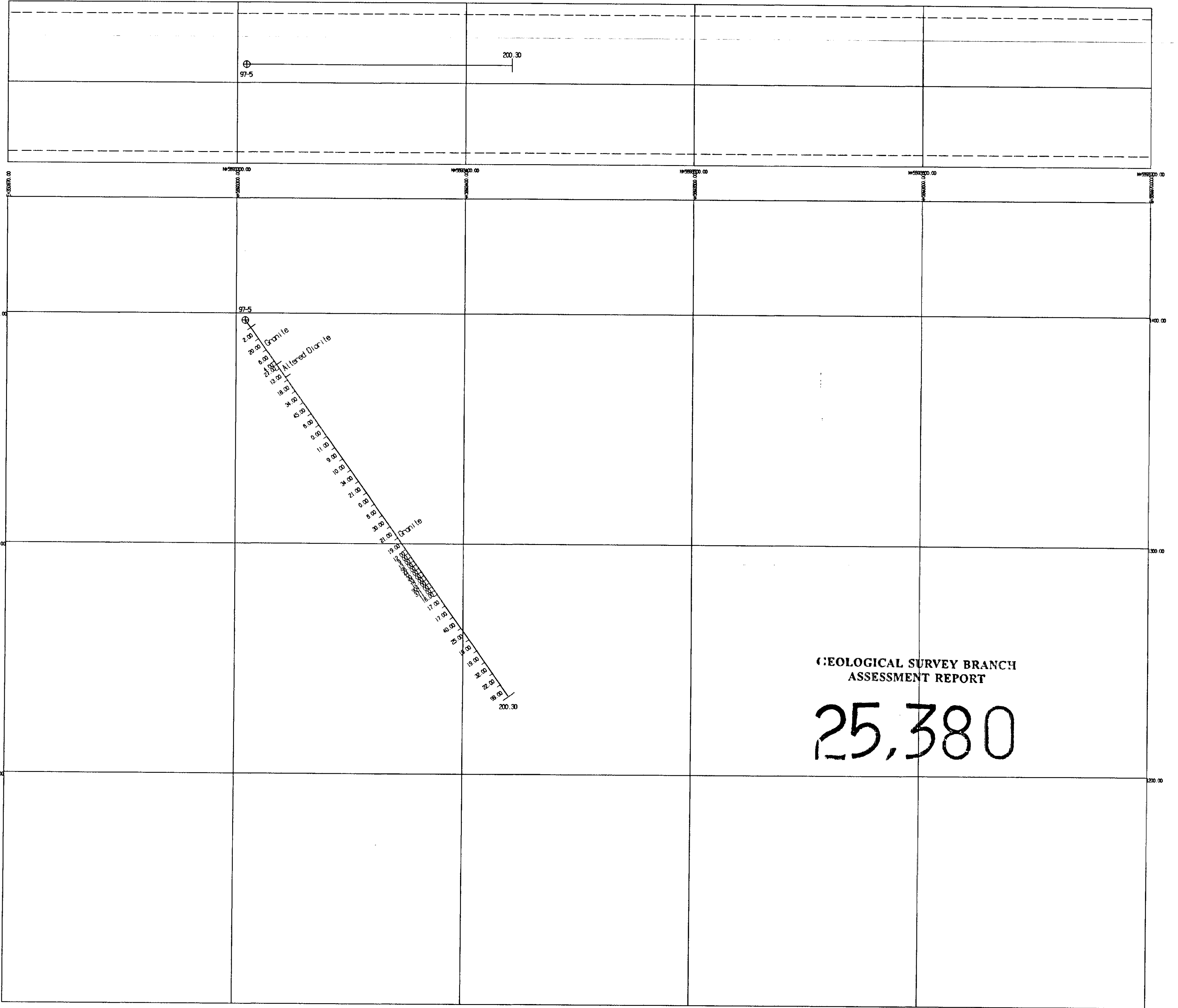
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Vancouver Office 1409 - 409 Granville Street Vancouver, BC V6C 1T8	Fox Geological Consultants Ltd.
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	Geology and Gold Results in ppb
	CROSS-SECTION 97-2, 97-3 25380
	LAIMAN PROPERTY, BRITISH COLOMBIA FIG 6b

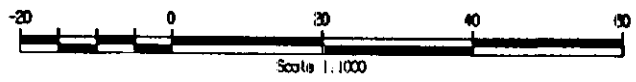


Vancouver Office 1409 - 409 Granville Street Vancouver, BC V6C 1T8	Fox Geological Consultants Ltd.
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Drawn By :	Geology and Gold Results in ppb
	CROSS-SECTION 97-4 25380
	LAIMAN PROPERTY, BRITISH COLOMBIA FIG 6c



GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

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Vancouver Office 1409 - 409 Granville Street Vancouver, BC V6C 1T8		Fox Geological Consultants Ltd. PHELPS DODGE CORPORATION OF CANADA LIMITED Geology and Gold Results in ppb CROSS-SECTION 97-5 25380 LAIDMAN PROPERTY, BRITISH COLUMBIA FIG 6d	
UNITS - METRES	DATE: 98/01/28	TIME: 14:34:22	
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