

**DIAMOND DRILLING REPORT
on the
HIGHLAND VALLEY COPPER
GETTY COPPER OPTION**

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**KAMLOOPS MINING DIVISION
NTS 92I/11E**

Latitude 50° 35'

Longitude 121° 05'

For

**HIGHLAND VALLEY COPPER
BOX 1500
LOGAN LAKE, BC
V0K 1W0**

SURVEY BRANCH
REPORT

Report by

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661 GARNET ROAD,
KAMLOOPS, BC, V2B 6K2**

MINERAL TITLES BRANCH
Rec'd.
NOV 25 2005
L.I.#
File
VANCOUVER, B.C.

AND

**RON GRADEN, P. ENG.
HIGHLAND VALLEY COPPER
Box 1500
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August 11th, 2005

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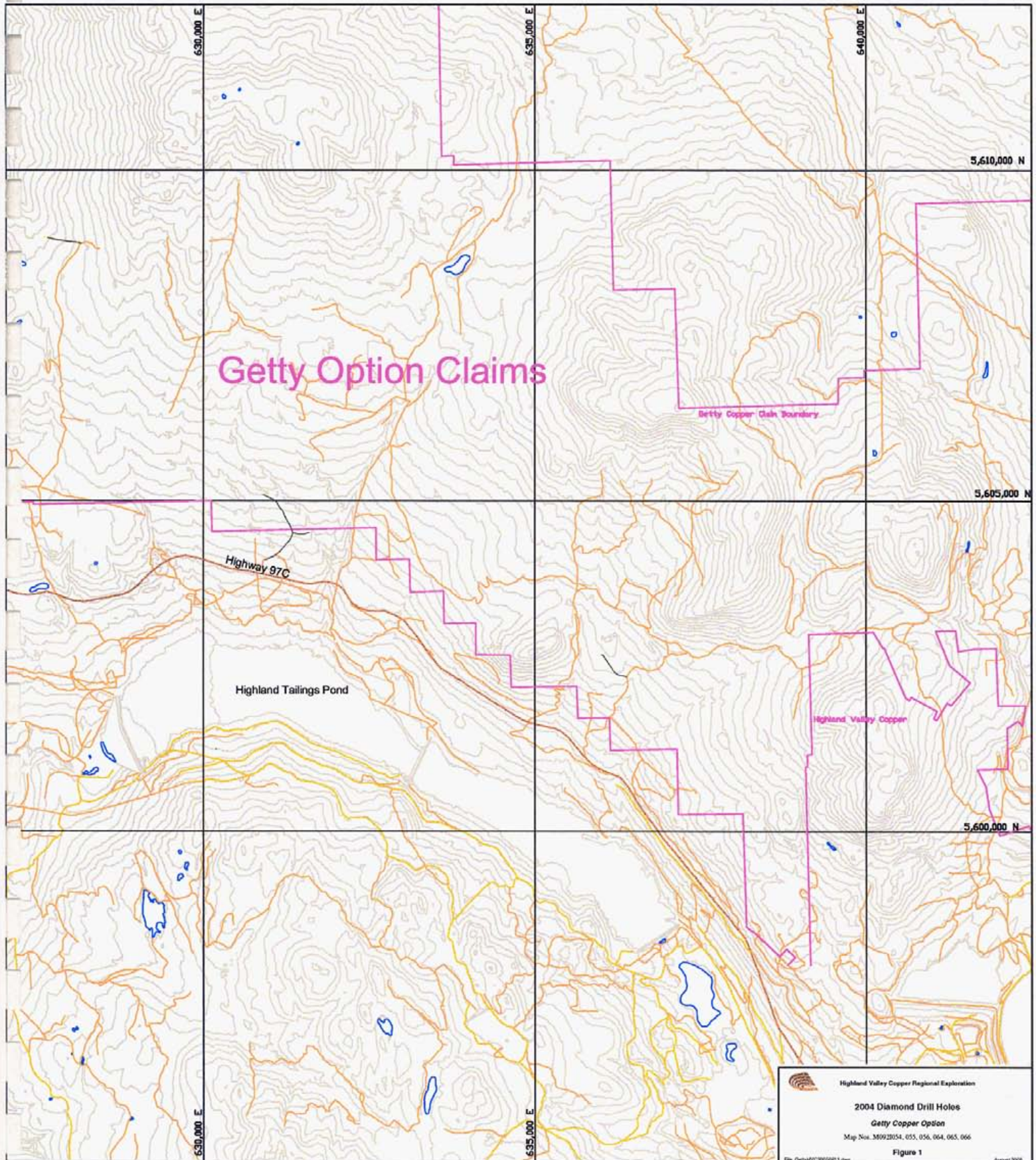
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1.0 INTRODUCTION

During the period July-December, 2004, a diamond drilling program and drill site remediation was carried out by Highland Valley Copper on mineral claims optioned from Getty Copper Inc. The mineral claims on which the diamond drilling program was carried out are situated approximately 10 to 21 kilometres Northwest of the Highland Valley Copper mill site. Access to the work area is from the Coldstream Creek and Cinder Hill forest service roads in addition to the Bose Lake access road, all of which proceed north from Hwy 97C between the minesite and Ashcroft. An extensive network of subsidiary logging roads and trails provided further access. The elevations on the property increase rapidly going north with most areas being between 1400 and 1800 metres above sea level. Tree cover consists mainly of lodgepole pine with increasing stands of spruce and fir at higher elevations. The area has been extensively logged with a good residual network of roads and trails to expedite access for mineral exploration. Figure 1 shows the general location of the Getty and Highland Valley Copper properties and Figure 2 shows the position of the drill holes relative to the claim boundaries.

The objective of the drilling program was to test for large tonnage, porphyry type, copper sulfide mineralization within the program area. The locations of the diamond drill holes were determined from analysis of earlier induced polarization geophysical surveys and property geology. Fourteen NQ diamond drill holes were completed for a total of 3984.13 metres of drilling. The work described in this technical report was applied to the Getty Copper mineral claims under Statement of Work No. 4035254, filed June 10th, 2005.



2.0 PROJECT DESCRIPTION AND FIELD WORK

Based on the analysis of induced polarization results from previous Getty Copper and new 2004 geophysical surveys, a number of locations were selected to test areas of higher IP response. The drill hole sites were located according to stations on the grid lines established for the IP surveys. These locations were then surveyed using global positioning equipment to obtain UTM northings and eastings on the NAD 83 datum. Drill hole numbers and coordinates are as follows:

<u>Drill Hole No.</u>	<u>Northing</u>	<u>Easting</u>
G2004-05A	5603364	640868
G2004-06	5602646	641175
G2004-07	5602642	641340
G2004-08	5601795	636600
G2004-09	5602690	635609
G2004-10	5602681	636003
G2004-11	5602600	636500
G2004-11A	5602600	636605
G2004-12	5602600	636945
G2004-14	5603300	636383
G2004-16	5604740	636905
G2004-18	5604521	631600
G2004-19	5605096	630896
G2004-20	5608987	627633

Some of the proposed drill sites were in forested areas somewhat removed from existing roads and trails. Cinder Mountain Contracting Ltd. of Lower Nicola, BC, was retained to reclaim the exploration access trails and drill pads. Reclamation of drill pads and access roads commenced November 17th and was completed by December 15th. A total of 4 pads were reclaimed, each approximately 20m by 30m. In addition, approximately 2.2 kilometres of access trail, 4 metres wide, was reclaimed heading to the four reclaimed drill site pads (G2004-17, G2004-18, G2004-19, & G2004-20). This work required the use of a tracked excavator to return the displaced material (dirt and stumps) over the cleared sections to allow for re-vegetation.

3.0 DIAMOND DRILLING PROGRAM

A Boyles 56 skid mounted diamond drill operated by Leclerc Drilling Ltd. of Cranbrook, BC, started hole G2004-5A on June 15th and completed the hole on the Getty claims by June 21 (invoiced to Highland Valley Copper in early July). Leclerc then provided a Longyear 38 skid mounted diamond drill for phase II of the Getty Copper option program on August 25, 2004. An additional 13 holes were drilled, completing the program and the drill was removed from the Getty Copper claim area by November 23, 2004. Drilling operations were carried out utilizing two 10 hour shifts per day with the crews residing in Logan Lake. A total of 3984 metres of drilling was completed in fourteen holes.

Drill holes completed were;

DDH	Length(m)	Dip(°)	Az(°)
G2004-05A	347.77	-50	270
G2004-06	300.84	-49	090
G2004-07	280.72	-50	090
G2004-08	300.84	-70	090
G2004-09	300.53	-70	090
G2004-10	300.84	-70	090
G2004-11	76.22	-70	090
G2004-11A	322.17	-90	
G2004-12	300.84	-70	090
G2004-14	295.66	-70	090
G2004-16	300.84	-70	090
G2004-18	306.02	-70	090
G2004-19	252.20	-70	090
G2004-20	298.64	-50	270

Holes drilled in chronological order are: G2004-05A, G2004-09, G2004-16, G2004-14, G2004-11, G2004-12, G2004-11A, G2004-08, G2004-06, G2004-07, G2004-10, G2004-18, G2004-19, G2004-20. Diamond drill hole G2004-11, collared on September 11th, 2004 could not be completed to designed depth due to difficulties associated with deep overburden and water. Consequently a vertical hole (G2004-11A) was collared close to the same site and completed to a depth of 322.17 metres. All core was delivered to the Highland Valley Copper mine site for analysis and sampling.

4.0 ANALYTICAL PROCEDURES

All core with sulfide content or notable alteration features was split at the Highland Valley Copper logging facility. Half the core was returned to the labelled core boxes for storage. The remaining split core was bagged in three metre sample lengths of approximately 7 kg each and shipped to the TeckCominco Global Discovery Laboratory in Vancouver for analysis.

At the lab, the sample core was dried, then coarse crushed to minus 6mm and fine crushed to minus 2mm size. The samples were then split in a Jones Riffler to produce a subsample of 250-300g. This split fraction was then run in a Rock Labs ring and puck mill until a final product was produced with 95% minus 150 mesh (100 microns). The reject was stored and the pulp archived.

For the ICP analysis, a 5g sample of the pulp was digested in aqua regia on a sand bath at 95 C for 3 hours, shaking every 20-30 minutes. The sample was then diluted and mixed on a vortex. The resulting analyte was then analyzed on a L.C.P. unit to produce a 28 multi-element package. Standard quality control procedures were followed.

For the gold analysis, each 5g sample was roasted for 1 hour at 625 C. The sample was then digested in aqua regia followed by solvent extraction of the gold in 2, 6-Dimethyl-4-heptanone (DIBK). This sample was then analyzed by Atomic Absorption. For quality control purposes, every 25 samples included 3 sample repeats and 2 in-house and/or commercial standards.

The results were reported to Highland Valley Copper. Analytical values from the lab for all sampled drill holes in this program are included in Appendix B of this report.

5.0 DISCUSSION OF DRILLING RESULTS AND CONCLUSIONS

Fourteen NQ diamond drill holes were completed in three main areas in this phase of the program. The holes were drilled to test induced polarization chargeability anomalies obtained in previous exploration programs and from targets generated from the 2004 induced polarization surveys and field mapping. Triassic age intrusive rocks of the Guichon Batholith underlie much of the area (McMillan, 1985). To the north and east overlapping Eocene volcanics and sediments of the Kamloops Group are exposed. To the west and northwest, late Triassic Nicola Group volcanics outcrop in a northerly trending belt (Monger, 1989). The drilling program intersected all of these rock types or their intensely altered equivalents.

Diamond drill holes G2004-08, -09, -10, -11, -11A, -12, -14, and -16 tested a broad IP target located mainly east of the Cinder Hill road in the central part of the property. Drill hole G2004-11 was abandoned in deep overburden at 76.2 m. The other holes were completed to their planned depths. DDH G2004-16 was drilled to the north of the other holes, but along the same northerly structural trend.

The predominant geological feature encountered in this area was a deep basin infilled with material from Tertiary and Triassic sources, possibly related to a Tertiary explosive event with subsequent collapse. There is evidence of a Tertiary volcanic centre in the area (Oliver, 2001). This deep graben or basin is bracketed by DDH G2004-09 on the west and DDH G2004-12 on the east. DDH G2004-08 lies outside the feature on the Southeast. Drill hole G2004-16, located some 2 kilometres north of the other holes, was not in this collapse feature but instead cut 130 metres of Tertiary sediments and volcanic flows underlain by massive Guichon quartz diorite. The most unique feature in this hole was the presence of pyritic or marcasitic sulfides found within the Tertiary volcanics from 95 to 130 metres down the hole. Within the graben/collapse feature, interlayered Tertiary volcanic flows and Tertiary sediments were situated above a Tertiary volcanic breccia/conglomerate. The breccia consists of Tertiary and Triassic fragments in a fine-grained clay bearing matrix with some intervals of greywacke type sediments. The Triassic fragments tend to be larger and sometimes more angular while the Tertiary

fragments are generally smaller and more rounded. Lithologies of the fragments are quite mixed. The proportion of Triassic fragments to Tertiary increases to depth becoming predominantly coarse angular Triassic fragments of mixed intrusive lithologies. Drill holes G2004-10, -11A, and -14 are situated in the centre of this feature with G2004-14 still within the breccia at the end of the hole at 295.7 m. In the north part of this area, the underlying Triassic bedrock consists of Guichon granodiorite cut by feldspar porphyry dykes related to the Bethlehem phase. DDH G2004-09 has a number of these porphyry dykes. DDH G2004-12 was completed in Guichon granodiorite with a short interval of altered Bethlehem granodiorite intersected from 190.5 to 206 m. Drill hole G2004-10 encountered Bethlehem granodiorite under the Tertiary and G2004-08 was drilled in Bethlehem granodiorite entirely. None of the intrusive rocks in the lower portions of the drill holes had significant sulfide mineralization. Hydrothermal alteration was mainly propylitic, characterized by a chlorite-calcite-epidote assemblage. Clay-rich material within the graben feature may account for the local IP response.

Diamond drill holes G2004-5A, -06, and -07 were drilled in the Forge Mountain area to test locations around old trenches and other workings which also had some induced polarization response. DDH G2004-5A was drilled from east to west to test an area north of the Getty West workings. This hole cut predominantly Guichon granodiorite with steeply dipping structures and intersections of feldspar porphyry and crowded feldspar porphyry related to the Bethlehem phase. The drill hole finished in a Tertiary felsic stock from 340.5 m to the end of the hole. Low grade copper mineralization tended to be found within the Guichon granodiorite unit adjacent to the porphyry dykes. Secondary copper minerals, such as malachite and chrysocolla, were encountered in the upper part of the hole with chalcopyrite noted after 243 m. Drill holes G2004-06 and -07 were located on the east flank of Forge Mountain in an area of old trenches and some 2004 IP survey lines. The upper section of G2004-06 was in Guichon granodiorite cut by some Bethlehem porphyry dykes. Below a strong fault at 167 m, the hole remained in Bethlehem granodiorite and porphyries. Weak copper mineralization was noted in both Guichon and Bethlehem rocks. Overall copper grade was low, with the exception of the interval from 224.6 – 226.3 m where strong chalcopyrite-pyrite mineralization was

associated with quartz-epidote-chlorite-calcite veining in a sheared zone. DDH G2004-07 was collared to the east of G2004-06 to test the area immediately east of the old trenches. The hole was collared in Guichon granodiorite but encountered Bethlehem related rocks after 110 m. Sporadic low grade copper mineralization was noted in this hole with the strongest mineralized interval occurring from 225 to 250 m with disseminated chalcopyrite present. All the drill holes cut rocks with strong propylitic alteration.

Diamond drill holes G2004-18, -19, and -20 were drilled in the western portion of the property west of Woods Creek. The holes were designed to test extensions of the North Valley IP anomalies developed from the 2004 induced polarization geophysical surveys. The holes were drilled in an area of Nicola volcanic and sedimentary rocks that have undergone varying degrees of hornfels metasomatism and silicification. Drill holes G2004-18 and -19, drilled in the southern portion of the area, cut grey-green altered and metasomatized volcanics. Some short intervals of felsic, quartz-rich rock, such as the 121-132.7 m interval in G2004-18, may or may not be related to some felsic outcrops in the area. Diamond drill hole G2004-19 had sections of less altered volcanics with significant magnetite content. The drill core from G2004-18 was more intensely metasomatized but still had segments with strong residual magnetite. Both holes had ubiquitous pyrite mineralization in the 1-3% range. Drill hole G2004-20 was drilled to the west in the Coldstream Creek area and intersected mostly intensely altered rock with strong hornfels metasomatism. The metasomatized intervals were silicified consisting mainly of fine grained grey quartz and brown biotite. Some shorter intervals of grey-green less altered volcanics were also encountered. Pyrite content averaged 1-3% throughout this hole. Analytical results indicate that significant copper sulfides were not present in these drill holes. The widespread pyrite mineralization encountered in these drill holes, and possibly the magnetite content as well, likely accounts for the IP response in this area.

Sections of all drill holes are illustrated in Appendix C.

6.0

STATEMENT OF COSTS

Highland Valley Copper
 Getty Copper Option
 Diamond Drilling Program

Site Re-mediation Cinder Mountain Contracting Ltd.	\$ 20,681
Diamond Drilling - 3984 metres Leclerc Drilling Ltd.	\$ 487,398
Assaying Teck-Cominco Global Discovery Labs	\$ 15,073
Contract Geologist - Lorne Bond Program supervision, drill core logging, report preparation	\$ 59,683
TOTAL	<u>\$ 582,835</u>

7.0 STATEMENT OF QUALIFICATIONS - Lorne Allan Bond

I, Lorne Allan Bond, of the city of Kamloops, British Columbia, do hereby certify that

- 1/ I am a graduate of Loyola College (Concordia University) with a B.Sc. (1967) in Geotechnical Sciences.
- 2/ I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
- 3/ I have practiced my profession continuously since 1967 while employed with Sherritt Gordon Mines Ltd., Cominco Ltd., Afton Operating Corporation, Highland Valley Copper and as an independent practitioner.
- 4/ During the period July - December, 2004, I supervised site clearing and trail building operations and logged diamond drill core from the program.
- 5/ I have no material interest in the property under consideration on this report.


Lorne A. Bond, P.Geo.
Kamloops, BC

7.0 STATEMENT OF QUALIFICATIONS - Ron Graden

I, Ronald Wayne Graden, of the city of Kamloops, British Columbia, do hereby certify that

- 1/ I am a graduate of the University of Alberta with a B.Sc. (1990) specializing in Geology.
- 2/ I am a graduate of the University of Alberta with a B.Sc. (1994) in Mining Engineering.
- 3/ I am a graduate of Simon Fraser University with a General Diploma (2005) in Business Administration
- 4/ I am a member of the Association of Professional Engineers & Geoscientists of the Province of British Columbia.
- 5/ I have practiced my professions continuously since 1994 and sporadically from (1991-1994), while employed with Equity Silver Mines Ltd., Syncrude Canada, Smoky River Coal Ltd., Gibraltar Mines Ltd., and Highland Valley Copper.
- 6/ During the period July - December 2004, I have supervised all exploration activities including planning and picking up DDH; supervised contractors, monitored and updated claims.
- 7/ I have no material interest in the property under consideration in this report.



Ron Graden, P.Eng
Kamloops, BC

8.0 REFERENCES

- McMillan, W.J., 1985. Geology and Ore Deposits of the Highland Valley Camp. *In* Mineral Deposits Division Field Guide and Reference Manual Series, Number 1. Edited by A.J. Sinclair, Geological Association of Canada, 121 pp.
- Monger, J.W.H., 1989. Geology of the Hope and Ashcroft Map Areas, British Columbia – Maps 41-1989 and 42-1989. Geological Survey of Canada. Energy, Mines and Resources Canada.
- Oliver, Jim, 2001. Report on the Geology of the North Valley and Glossic Mineral Occurrences, Getty Copper's Highland Valley Project, 35pp. Assessment Report No. 26763.

9.0 APPENDIX A

Highland Valley Copper

08:21:33 03-02-2005

Geological Log

Hole: G200405A
Page: 1

Section:	Core Size: NQ	Remarks: DDH completed on the Getty property
X (Easting, Dep.): 640868.000	Length: 347.770	to test the area north of the Getty
Y (Northing, Lat.): 5603364.000	Collar Azimuth: 270.000	West workings.
Z (Elevation): 0.000	Collar Dip: -50.000	
Date Collared: June 16, 2004	OB Depth: 15.240	
Date Completed: June 22, 2004	Logged By: L. Bond	
Date Logged: July 9, 2004		

From	To	Unit	Description	From	To	ARG	SER	KPR	Bn/Cp	Recov	% RQD	Hard	RkStr
0	.1	NOTE	Note; Intensity of alteration will be recorded as 0 = none, 1 = weak, 2 = moderate, and 3 = intense or pervasive. ARG column is argillic(kaolinite sericite alt. of plagioclase; KPR is potassic(K-spar or biotite); and propylitic alt. will be noted under the SER heading.										
0	15.24	CAS	Casing through overburden and broken rock.										
15.24	23.5	GUIC	M.g. Guichon granodiorite w/ weak propylitic alt. primarily as epidote w/ minor sec. albite.										
23.5	26.5	FX	Intense fault, mostly clay gouge w/ ground rock at a very low angle to C.A., approx. 10 deg.										
26.5	29.87	GUIC	M.g. Guichon granodiorite; mostly rubble w/ low core recovery; casing came loose, had to reset.										
29.87	36.58	CAS	Triconed and set casing.										
36.58	43.3	GUIC	M.g. Guichon granodiorite w/ two narrow intersections of breccia from 40.6-41.3m and 42.4-42.8m w/ some milled fragments and v.f.g. dark matrix.										
43.3	45	FX	Intensely faulted section w/ orientation at 10-15 deg. to C.A.; mostly clay-rich gouge and crushed rock.										
45	50.5	BX	Explosive or hydrothermal breccia developed in Guichon granodiorite. Fragments are mostly Guichon w/ some dyke fragments; breccia is fairly tight, mostly clast supported w/ some milling or rounding of fragments; 10-15% dark to black matrix. Core has mod. propylitic alt.	15.24	18.00	0	1	0	0.000	97	52.000	0	4
				18.00	21.00	0	1	0	0.000	94	9.000	0	3
				21.00	24.00	0	2	0	0.000	90	8.000	0	3

DIAMOND DRILL HOLE: G200405A

Highland Valley Copper

08:21:33 03-02-2005

Geological Log

Hole: G200405A
Page: 2

From	To	Unit	Description	From	To	ARG	SER	KPR	Bn/Cp	Recov	% RQD	Hard	RxStr
			w/ some limonitic staining on fractures. No obvious sulfides noted.	24.00	27.00	0	0	0	0.000	67	0.000	0	1
				27.00	29.87	0	0	0	0.000	16	0.000	0	3
				36.58	39.00	0	2	2	0.000	69	0.000	0	2
				39.00	42.00	0	2	2	0.000	87	0.000	0	2
				42.00	45.00	0	2	2	0.000	80	0.000	0	1
				45.00	48.00	0	2	1	0.000	85	20.000	0	2
				48.00	51.00	0	2	1	0.000	93	16.000	0	2
				51.00	54.00	0	2	1	0.000	87	5.000	0	3
				54.00	57.00	0	2	1	0.000	93	24.000	0	3
				57.00	60.00	0	2	1	0.000	95	16.000	0	3
50.5	61	GUIC	M.g. Guichon granodiorite; wk propylitic alt. as epidote-calcite-chlorite and some sec. albite alteration; weak potassic alt. as K-spar. Rock is well-jointed with Fe-staining on joints and epidote-calcite fillings. No apparent sulfides.										
61	73.2	GUIC	Intensely alt'd and broken up section of Guichon granodiorite. Core is cut by numerous small faults recovered as mostly rubble and gouge. The rock has been strongly albitized and is largely sec. plagioclase w/ white/cream to pinkish coloration. Also strong propylitic alt. as epidote-calcite-chlorite.										
73.2	76.5	FX	Fault zone in Guichon granodiorite. Several faults w/ reddish hematitic gouge, varying in width from 2-12cm, cut the core at 70 deg. to C.A. Rock is soft and alt'd w/ intense propylitic alt. as epidote-calcite-hematite; plagioclase is going to clay(kaolinite).										
76.5	125.9	GUIC	M.g. Guichon granodiorite w/ strong epidote-calcite-hematite min. and sign. albitization as creamy-white secondary plag. developed outward from fractures. Minor sec. K-spar is present. After 84m rock is cut by albite-epidote veining w/ poss. tourmaline and minor albite-epidote-chlorite-quartz-hematite-tourmaline veining. Veining is most abundant to 96.7m, then less frequent to 125.9m. Some small aplitic dykelets (2-10cm wide) cut between 92.5 and 93.5m. No apparent sulfides present. Small shear w/ hematitic gouge, 6cm wide,	60.00	63.00	0	3	0	0.000	31	0.000	0	2
				63.00	66.00	0	3	0	0.000	90	5.000	0	2
				66.00	69.00	0	3	0	0.000	82	22.000	0	3
				69.00	72.00	0	3	0	0.000	95	30.000	0	2
				72.00	75.00	2	3	1	0.000	97	0.000	0	2
				75.00	78.00	2	3	1	0.000	95	20.000	0	2
				78.00	81.00	0	3	1	0.000	94	16.000	0	3

Geological Log

From	To	Unit	Description	From	To	ARG	SER	KPR	Bu/Cp	Recov	% RQD	Hard	RkStr
216.5	221.4	FDPH	Feldspar Porphyry Dyke; v.f.g.-f.g. greyish dyke, slightly porphyritic w. r.t. plagioclase; some reddish colored sections due to poss. K-spar enrichment or Fe-staining; lots of white calcite fracture fillings. Sheared lower contact from 221.1-221.4m at 30 deg. to C.A.										
221.4	241	CFPH	Crowded Feldspar Porphyry; variable texture and fabric but is predominantly plag. porphyritic dyke w/ v.f.g.-f.g matrix. Color is variable from grey-brown to reddish brown. Some sections are more like f.g.-m.g. granodiorite; other intervals are only weakly porphyritic. Plagioclase crystals are green to beige in color due to sericite-kaolinite alteration(arginization). Epidote stringers and sec. K-spar are common. Flecks of specular hematite are present throughout. The occ. mafic phenos are chloritized. No apparent sulfides.	219.00	222.00	0	1	1	0.000	99	6.000	0	3
				222.00	225.00	2	2	1	0.000	99	17.000	0	4
				225.00	228.00	2	2	1	0.000	99	33.000	0	3
				228.00	231.00	2	2	1	0.000	99	25.000	0	4
				231.00	234.00	2	2	1	0.000	97	8.000	0	4
				234.00	237.00	2	2	1	0.000	94	9.000	0	3
				237.00	240.00	2	2	1	0.000	99	18.000	0	3
				240.00	243.00	2	2	1	0.000	99	9.000	0	1
				243.00	246.00	1	1	1	0.000	99	30.000	0	3
241	243	FX	Fault/Shear Zone @ 20 deg. to C.A. w/ hematitic clay gouge and reddish Fe-stained altered rock.										
243	249.7	GDIO	F.g.-M.g. granodiorite; less alt'd sections are grey-green; alt'd sections are reddish Fe-stained w/ epidote and calcite veining. From 246.1 to lower contact at 249.7m, section is shr'd and alt'd w/ slips generally at 45 deg. to C.A.. Intensely alt'd intervals have reddish hematitic color and abundant carbonate. Tiny flecks of cpy and some pyrite stringers assoc. w/ K-spar alt. are present towards bottom of section.										
249.7	267.4	CFPH	Crowded Feldspar Porphyry; grey-green to Fe-stained orangish-red plagioclase phyrlic(2-4mm) w/ v.f.g. matrix; occ. mafic phenos(chloritized). Rock is sheared and fault brecciated to 252m. The entire interval is alt'd and soft and is saturated w/ calcite. As well, there is sign. calcite-chlorite-quartz-tourmaline veinlets. Also propylitic alt. as epidote and chlorite and some sec. K-spar. Faulting occurs throughout; espec. prominent faults are 255.9-257.6m at 60 deg. to C.A. and 265.8-267.4m at 60 deg. to C.A.(lower ct).	246.00	249.00	1	2	1	0.000	99	9.000	0	2
				249.00	252.00	1	2	1	0.000	98	5.000	0	2
				252.00	255.00	1	2	1	0.000	90	0.000	0	2
				255.00	258.00	1	2	1	0.000	93	0.000	0	1
				258.00	261.00	1	2	1	0.000	94	0.000	0	2
				261.00	264.00	1	2	1	0.000	96	0.000	0	2

Highland Valley Copper

08 21:33 03-02-2005

Geological Log

Hole: G200405A
Page: 6

From	To	Unit	Description	From	To	ARG	SER	KPR	Sn/Cp	Recov	% RQD	Hard	RkStr
				264.00	267.00	1	2	1	0.000	90	0.000	0	2
				267.00	270.00	1	2	1	0.000	95	15.000	0	2
				270.00	273.00	1	3	1	0.000	94	0.000	0	2
				273.00	276.00	1	3	1	0.000	78	10.000	0	2
267.4	270.4	GUIC	Guichon granodiorite; m.g. granodiorite w/ chlorite-epidote-calcite jt fillings; some sec. K-spar. Lower contact is a 7cm fault w/ hematitic clay gouge at 55 deg. to C.A.										
270.4	286.9	CPPH	Crowded Feldspar Porphyry w/ variable plag. phenocryst content; grey-green to reddish Fe-stained in color; mod. propylitic alt. as epidote-chlorite-calcite-hematite. Trace diss. sulfides present w/ rare fleck of cpy in alt'd mafics. Fairly sharp ct w/ lower Guichon unit at 286.9m w/ 2cm altered margin.										
286.9	296	GUIC	M.g. Guichon granodiorite w/ mod. alt of plagioclase in places(kaolinite); mod. to strong propylitic alt. as epidote-calcite-chlorite-hematite; wk potassic alt. as K-spar envelopes on fractures. Very weak py and cpy min. mostly as diss and on some fracture surfaces assoc. w/ epidote. Local narrow shearing w/ 1-2cm gouge generally at 60 deg. to C.A. At 296m is 8cm shear w/ some hematitic gouge and minor epidote-qz-calcite veining w/ cpy and py; angle of shr to C.A. is 50-60 deg.	276.00	279.00	1	2	1	0.000	85	0.000	0	2
				279.00	282.00	1	2	1	0.000	95	12.000	0	3
				282.00	285.00	1	2	1	0.000	77	10.000	0	3
				285.00	288.00	2	2	1	0.000	92	7.000	0	3
				288.00	291.00	2	3	1	0.000	99	3.000	0	2
				291.00	294.00	0	2	1	0.000	99	42.000	0	4
				294.00	297.00	0	2	1	0.000	99	24.000	0	3
				297.00	300.00	2	3	2	0.000	97	8.000	0	2
				300.00	303.00	2	3	2	0.000	99	4.000	0	1
				303.00	306.00	2	3	2	0.000	99	10.000	0	1
296	321.9	GUIC	Guichon granodiorite; intensely alt'd and sheared section w/ lots of shearing w/ gouge dev. at 60 deg. to C.A. Interval marked by strong propylitic alt., mod. potassic alt. as sec. K-spar, and marked breakdown of plagioclase to clay minerals(argillization). Some sections are wk'ly brecciated. Minor amounts of cpy and py are present (max. 0.1% cu). Strong fault from 306.7-307.3m w/ mostly gouge and crushed rock. From 307.3-308.7m, section of int. alt'd crowded feldspar porphyry dyke. Seven cm IP test sample taken at 320.3m. Lower contact at 321.9m is 7cm shear w/ gouge.	306.00	309.00	2	3	2	0.000	98	11.000	0	1
				309.00	312.00	2	3	2	0.000	99	0.000	0	2
				312.00	315.00	2	3	2	0.000	99	13.000	0	2
				315.00	318.00	2	3	2	0.000	99	0.000	0	2
				318.00	321.00	2	3	2	0.000	99	8.000	0	2
				321.00	324.00	1	2	1	0.000	99	11.000	0	3
				324.00	327.00	3	3	2	0.000	99	0.000	0	1
				327.00	330.00	1	3	2	0.000	99	17.000	0	2

DIAMOND DRILL HOLE: G200405A

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Geological Log

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From	To	Unit	Description	From	To	ARG	SER	KPR	Bn/Cp	Recov	% RQD	Hard	RkStr
321.9	324.3	CPFH	Crowded Feldspar Porphyry; mod. alt'd w/ no apparent sulfides.										
324.3	327.1	FX	Major Fault Zone; zone is 90% soft gouge and ground rock; orientation is approx. 60 deg. to C.A.										
327.1	338.4	FDPH	Feldspar Porphyry - f.g.-m.g rock consisting predominantly of well-formed whitish plag. phenos(1-4mm); poss. Bethlehem unit. Strong prop. alt. as epidote-chlorite-calcite and specular hematite. Plag. is wk'ly to mod. alt'd; sec K-spar is present in fractures and as envelopes on epidote-chlorite veinlets. Seems to be little or no sulfides.	330.00	333.00	1	3	2	0.000	98	10.000	0	3
				333.00	336.00	1	3	2	0.000	99	58.000	0	3
				336.00	339.00	1	3	2	0.000	99	19.000	0	2
				339.00	342.00	2	3	3	0.000	99	0.000	0	1
				342.00	345.00	0	0	0	0.000	99	0.000	0	1
				345.00	347.77	0	0	0	0.000	91	6.000	0	2
338.4	340.5	BX	Faulted zone w/ minor explosive breccia in places w/ f.g dark to black matrix and gravel size rounded fragments. Extremely alt'd rock but poss. developed in Guichon granodiorite. Has weak sulfide mineralization.										
340.5	347.77	TERT	Tertiary felsic stock; light grey siliceous rock with white plag. phenos to 5mm and a f.g. groundmass w/ lots of quartz and minor amphibole (poss. rhyolitic composition). From 340.5-341.5m, upper contact is intensely faulted at 45 deg. to C.A. Some intervals are soft and breaking down to clay. Rock has no propylitic alt. or sulfide min.; highly alt'd or weathered granodiorite inclusion from 345.5-346.6m.										

End of Hole at 347.77m

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Geological Log

Hole: G200406

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Section: Core Size: NQ Remarks: Drilled in the Forge Mtn area to test
 X (Easting, Dep.): 641175.000 Length: 300.840 area under old trenches for source
 Y (Northing, Lat.): 5602646.000 Collar Azimuth: 90.000 of 2004 IP survey response.
 Z (Elevation): 1809.000 Collar Dip: -49.000 NAD 83 coordinates.
 Date Collared: Oct. 13, 2004 OB Depth: 6.710
 Date Completed: Oct. 19, 2004 Logged By: L. Bond
 Date Logged: Oct. 28, 2004

DOWN HOLE SURVEYS:	Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
	168.300	90.000	-48.500	299.300	90.000	-50.000	0.000	0.000	0.000

From	To	Unit	Description	From	To	ARC	SER	KPR	Bn/Cp	Recov	% RQD	Hard	RkStr
0	6.71	CAS	Casing through overburden and broken rock.										
6.71	20.9	GUIC	F.g.-m.g. Guichon granodiorite - has strong propylitic alt. primarily as epidote-chlorite-hematite-calcite; locally strong potassic alt. as K-spar. The rock is shattered and healed with qz-epidote-chlorite-tourmaline stringers. Some black qz-tourmaline veinlets w/ trace copper carb. and chrysocolla occur. The core is broken up and weathered with limonite staining on fractures. A small hematite rich shear at 25 deg. to C.A. forms the lower contact. Overall copper content is minimal.	6.71	9.00	0	3	1	0.000	86	0.000	0	3
				9.00	12.00	0	3	1	0.000	99	29.000	0	3
				12.00	15.00	0	3	1	0.000	88	43.000	0	3
				15.00	18.00	0	3	1	0.000	97	49.000	0	3
				18.00	21.00	0	3	1	0.000	93	43.000	0	3
				21.00	24.00	0	2	0	0.000	94	17.000	0	4
				24.00	27.00	0	2	0	0.000	93	48.000	0	4
20.9	25.4	BTHM	Plagioclase Porphyry Dyke (Bethlehem related) - has plagioclase phenocrysts up to 3mm in v.f.g. grey-brown matrix; occasionally has crowded porphyry characteristics. Core is intensely jointed w/ rusty limonite staining on fractures. At 24.3m there is a 4cm shear w/ hematite at 30 deg. to C.A. The lower contact is assoc. w/ qz-epidote-chlorite-tour veining at 30-35 deg. to C.A.										
25.4	26.9	GUIC	M.g. Guichon granodiorite - intense propylitic alt. and mod. argillic alt. of plagioclase; some sec K-spar veining. Qz-chl-tour-epid veining present. Lower contact is hematite-rich shear at 25 deg. to C.A.										
26.9	39	BTHM	Plagioclase Porphyry Dyke (Bethlehem related) - composed of 2-3mm plagioclase phenos in v.f.g. brown-grey matrix; also has scattered coarser grained mafic clusters. This section also contains some sub-metre inclusions of alt'd Guichon granodiorite. From 31.7-33.8m, this interval has intersections of qz-tourmaline-chlorite-specularite	27.00	30.00	2	3	1	0.000	99	38.000	0	4
				30.00	33.00	0	3	1	0.000	87	11.000	0	4
				33.00	36.00	0	3	1	0.000	99	57.000	0	4
				36.00	39.00	0	3	1	0.000	99	37.000	0	4

Highland Valley Copper

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Geological Log

Hole: G200406

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From	To	Unit	Description	From	To	ARG	SER	KPR	Ba/Cp	Recov	% RQD	Hard	RkStr
			veining w/ flecks of chalcopyrite plus secondary malachite and chrysocolla; the tourmaline-rich veining is cut by later thread like qz-chrysocolla stringers. The lower contact is a fault at 35 deg. to C.A. w/ lots of hematitic gouge.	39.00	42.00	1	3	1	0.000	78	16.000	0	3
				42.00	45.00	1	3	1	0.000	99	18.000	0	3
				45.00	48.00	1	3	2	0.000	99	41.000	0	3
39	47.7	GUIC	Guichon granodiorite - intensely altered and shattered; has crackle breccia appearance healed by a network of epidote-chlorite veining and epidote-chlorite-tourmaline-quartz veining. Some K-spar selvages or envelopes on epidote-chlorite veins. Structures have hematitic gouge and are at 15-30 deg. to C.A. The intensity of veining falls off to depth. Trace amounts of secondary copper minerals, i.e. chrysocolla and malachite, were noted.										
47.7	69.8	GUIC	F.g.-m.g. Guichon granodiorite - some weak argillic alt. of plagioclase; intense pervasive propylitic alt. as epidote-chlorite alt.; some sec. K-spar assoc. with areas of epidote-chlorite alt. and as selvages or envelopes on epidote-chlorite veining. Also occurring frequently are narrow (1-5cm) tourmaline-quartz and qz-tourmaline-epidote veinlets. From 63.9-64.3m is a small shear at 20-25 deg. to C.A. with shear related argillic alt. There is also the occasional epidote-chlorite-magnetite vein assemblage and tiny epid-chl-mag veins w/ trace cpy and py were noted.	48.00	51.00	0	3	2	0.000	99	34.000	0	3
				51.00	54.00	0	3	2	0.000	90	35.000	0	3
				54.00	57.00	0	3	2	0.000	99	68.000	0	3
				57.00	60.00	0	3	2	0.000	93	60.000	0	4
				60.00	63.00	0	2	1	0.000	99	70.000	0	4
				63.00	66.00	1	2	0	0.000	99	21.000	0	3
				66.00	69.00	0	2	0	0.000	99	74.000	0	3
69.8	79.2	BTM	Grey v.f.g. to f.g. Porphyry Quartz Diorite to Granodiorite Dyke (var. of Bethlehem); rock is predominantly plagioclase; most mafics are v.f.g with the exception of poikilitic hornblende phenocrysts and occ. biotite. The rock is highly jointed with brittle fracturing typical of dykes. Rock has intense pervasive propylitic alt., predominantly as epidote but also with epidote-chlorite-calcite-hematite assemblages. Core is badly broken up w/ rusty limonitic staining on joints. Copper mineralization is mostly as secondary copper minerals, especially chrysocolla, malachite, and probably chalcocite and occurs on fracture surfaces and in veinlets w/ epid-chl-hem; trace amounts of unalt'd cpy and py were noted. The lower contact is a strong fault from 78.3-79.2m with gouge, broken and ground core.	69.00	72.00	0	3	0	0.000	99	31.000	0	3
				72.00	75.00	0	3	0	0.000	87	35.000	0	3
				75.00	78.00	0	3	0	0.000	90	8.000	0	3
				78.00	81.00	0	3	0	0.000	80	16.000	0	3
				81.00	84.00	0	2	0	0.000	99	84.000	0	4
				84.00	87.00	0	2	0	0.000	96	60.000	0	4
				87.00	90.00	0	2	0	0.000	99	69.000	0	4
				90.00	93.00	0	2	0	0.000	97	31.000	0	4
				93.00	96.00	0	2	0	0.000	99	48.000	0	4

Geological Log

From	To	Unit	Description	From	To	ARG	SER	KPR	Bn/Cp	Recov	% RQD	Hard	RcStr
79.2	91	GUIC	M.g. Guichon Granodiorite - massive equigranular rock, predominantly plagioclase w/ equal amounts of biotite and hornblende clusters and some primary K-spar. The first 1-2 metres below the contact are broken up and sheared w/ epid-chl veining at 25 deg. to C.A. Rock is fairly mass. w/ wk-mod. propylitic alt. primarily as epidote w/ chlorite and calcite. Accessory magnetite occurs in mafic clusters.										
91	92.8	BTHM	Grey Porphyry Quartz Diorite/Granodiorite Dyke (Bethlehem) - consists of plagioclase and mafic phenos in v.f.g. grey groundmass w/ mod. propylitic alteration.										
92.8	154.5	GUIC	M.g. Guichon Granodiorite, composed largely of plagioclase w/ interstitial quartz, hornblende and biotite clusters, minor primary orthoclase and accessory magnetite. Rock is generally mass., equigranular, and wkly alt'd w/ the exception of occasional epid-chl-qz-cal veinlets. Some local weak argillic alt. related to structures such as joints and shr'd jts. From 99.4-102.4 is an intersection of grey plagioclase porphyry dyke w/ wk-mod. propylitic alt. At 124.7m is a small fault/shear w/ some gouge at 20 deg. to C.A. From 132.8-133.2m is a fault at 35 deg. to C.A. w/ hematite gouge and 40cm of fault breccia. At 136.7m is a 10cm shear at 30 deg. to C.A. w/ chl-epid alt. and trace sulfides (py/cpy). From 138-153m, the rock is still granodiorite but the core is badly broken by numerous low angle small shears and joints w/ chl-cal fillings. From 147.8-148.4m is a fault w/ hematite-chlorite gouge at 25 deg. to C.A. The lower contact is a chlorite-hematite rich fault at 40 deg. to the core axis.	96.00	99.00	0	1	0	0.000	99	54.000	0	3
				99.00	102.00	0	2	0	0.000	99	38.000	0	4
				102.00	105.00	0	1	0	0.000	99	47.000	0	4
				105.00	108.00	0	1	0	0.000	99	61.000	0	4
				108.00	111.00	0	1	0	0.000	92	47.000	0	4
				111.00	114.00	1	1	0	0.000	99	40.000	0	3
				114.00	117.00	0	1	0	0.000	99	47.000	0	4
				117.00	120.00	1	1	0	0.000	98	60.000	0	4
				120.00	123.00	1	1	0	0.000	99	45.000	0	3
				123.00	126.00	0	1	0	0.000	99	24.000	0	3
				126.00	129.00	0	1	0	0.000	99	65.000	0	4
				129.00	132.00	0	2	0	0.000	86	34.000	0	4
				132.00	135.00	0	1	0	0.000	98	44.000	0	4
				135.00	138.00	0	1	0	0.000	99	30.000	0	4
				138.00	141.00	0	2	0	0.000	90	8.000	0	3
				141.00	144.00	0	1	0	0.000	91	18.000	0	4
				144.00	147.00	0	1	0	0.000	99	38.000	0	4
				147.00	150.00	1	2	0	0.000	99	17.000	0	3
				150.00	153.00	0	1	0	0.000	93	18.000	0	3
154.5	166.7	BTHM	F.g.-m.g. Bethlehem Granodiorite - this unit is slightly finer grained than the previous Guichon but the most distinctive feature is the grain size of mafics; the bulk of the mafic minerals are v.f.g. to f.g. with shredded appearance but these are accompanied by some coarser mafic clusters. Well-formed plagioclase crystals are the dominant component; unit is possibly more qz-rich than the preceding	153.00	156.00	0	1	0	0.000	91	18.000	0	3
				156.00	159.00	0	2	0	0.000	90	16.000	0	4
				159.00	162.00	0	2	0	0.000	93	32.000	0	3
				162.00	165.00	0	2	0	0.000	98	22.000	0	3
				165.00	168.00	0	3	0	0.000	96	11.000	0	2

Highland Valley Copper

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Geological Log

Hole: G200406

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From	To	Unit	Description	From	To	ARG	SBR	KPR	Bn/Cp	Recov	% RQD	Hard	RkStr
			Guichon. The interval has mod. to int. propylitic alt. as epid-chl-cal and epid-chl-qz veining; much reddish Fe-staining and possibly some sec. K-spar present. This section may also contain some short intersections of Guichon; no sulfides noted.	168.00	171.00	0	3	0	0.000	97	30.000	0	3
				171.00	174.00	0	2	0	0.000	99	14.000	0	3
				174.00	177.00	0	2	0	0.000	89	20.000	0	4
				177.00	180.00	1	3	0	0.000	91	12.000	0	3
166.7	167.8	FX	Major Fault - low angle structure at approx. 20 deg. to C.A.; several bands of hem-chl gouge separated by broken rock.										
167.8	184.7	BTHM	F.g. Bethlehem Granodiorite similar to section above w/ both fine grained and coarse mafics. Intense brittle jointing (dyke-like) w/ chl-epid-cal fracture fillings; mod.-int. propylitic alt.; much reddish Fe-staining. From 176-176.8m is a short intersection of hornblende-phyric dyke. The rock is more intensely broken up w/ some argillic alt. from 178m on. This interval ends in a strong fault at 184.7 with gouge and rubble and 0.5m lost core.										
184.7	198.4	BTHM	Grey Hornblende Porphyry (Dacite Porphyry?) - This is a unit with some larger hornblende phenocrysts and more f.g. groundmass than the Bethlehem unit above. The hornblende phenos are usually epidotized. This unit could be the equivalent of the Dacite Porphyry identified in the Bethlehem pits. This section of core rapidly becomes intensely chloritized and darker in color. Propylitic alt. as epidote, chlorite, hematite, and calcite is intense and pervasive. Sulfide mineralization (cpy and py) occurs sporadically but seems to be associated w/ the strongest epidote-chlorite mineralization. Significant cpy and py mineralization occurs from 189.9m through 192m. There is much red hematite in joints and shears and the rock can have a reddish speckled appearance in places which seems to be caused by Fe-staining; magnetite has been alt'd. The lower contact is a broken up low angle (10-15 deg.) shear w/ chl-hem-epid gouge.	180.00	183.00	0	2	0	0.000	99	21.000	0	4
				183.00	186.00	0	3	0	0.000	78	15.000	0	3
				186.00	189.00	0	3	0	0.000	94	11.000	0	3
				189.00	192.00	0	3	0	0.000	99	41.000	0	3
				192.00	195.00	0	3	0	0.000	99	15.000	0	3
				195.00	198.00	0	3	0	0.000	89	13.000	0	3
				198.00	201.00	0	3	0	0.000	92	28.000	0	3
				201.00	204.00	0	3	0	0.000	97	23.000	0	4
				204.00	207.00	0	3	0	0.000	99	44.000	0	4
				207.00	210.00	0	3	0	0.000	97	39.000	0	4
198.4	221.7	BTHM	F.g. Bethlehem Granodiorite - quartz and plagioclase rich w/ both f.g. and coarse grained mafics; rock has pinkish-orange cast due to Fe-staining of plag. Rock has intense propylitic alt. primarily as epidote-chlorite. The core is broken up w/ many low angle tight shears or sheared joints @ 0-20 deg. to C.A. w/ red hematite and	210.00	213.00	0	2	0	0.000	98	64.000	0	4
				213.00	216.00	0	1	0	0.000	99	52.000	0	4
				216.00	219.00	0	1	0	0.000	92	50.000	0	4
				219.00	222.00	0	3	0	0.000	99	13.000	0	3

Geological Log

From	To	Unit	Description	From	To	ARG	SER	KPR	Bn/Cp	Recov	% RQD	Hard	RkStr
			chlorite-calcite gouge. This section has trace diss. sulfides only, usually associated w/ mafics. The rock is more fine grained, possibly chilled, as it approaches the lower contact.										
221.7	229.6	BTHM	Grey Hornblende Porphyry (Dacite Porphyry?) - As in the earlier intersection, this is a f.g. weakly porphyritic rock w/ some hornblende phenos; again the rock mass is intensely chloritized lending to the grey-green coloration. The upper contact is obscured by intense jointing and broken rock but seems to come in on low angle structures. Parts of this section have significant cpy and py mineralization, especially from 224-228m. From 224.6m-226.3m is a strong shear/fault w/ some gouge development but especially qz-chl-epid-cal veining with strong chalcopyrite and pyrite mineralization as veining and blebs. Some fault breccia occurs as well. This is a low angle structure at 10 deg. to the core axis. The lower contact at 229.6 is a low angle shear at 10 deg. to C.A. w/ chl-epid-cal filling.	222.00	225.00	0	3	0	0.000	99	17.000	0	3
				225.00	228.00	0	3	0	0.000	99	25.000	0	2
				228.00	231.00	0	3	0	0.000	99	24.000	0	3
				231.00	234.00	0	2	0	0.000	99	39.000	0	4
				234.00	237.00	0	2	0	0.000	84	23.000	0	4
229.6	267	BTHM	F.g.-m.g. Bethlehem Granodiorite - relatively massive rock composed of plagioclase with quartz and f.g. and coarser grained mafic clusters; minor accessory magnetite is present. Rock has generally weak to mod. propylitic alt. From 238.2-239.1m, the hole cuts a qz-epid vein w/ chlorite selvage or envelope at 10 deg. to C.A. Fresher and less alt'd from 240-261m w/ wk propylitic alt. as chl-cal-hem fracture fillings and some epidote min. Strong fault is cut from 268.1-269.4m at 0-10 deg. to C.A.; lots of hematitic gouge and chlorite, slickensides and 0.6m lost core; alt'd broken rock continues to 270m. From 270m rock is still classified as Bethlehem granodiorite. It is f.g.-m.g. rock with well-formed to euhedral plagioclase crystals in a v.f.g. qz-rich groundmass giving a slightly porphyritic character to the rock; the other distinctive feature is the variable grain size of mafics from a v.f.g speckled aspect to coarser grained clusters. The rock occasionally becomes finer grained w/ brittle jointing and fracturing suggestive of chilled dyke-like margins. After 276m some thin pink-orange stringers of soft material mixed w/ calcite are common and are probably zeolites	237.00	240.00	0	2	0	0.000	86	18.000	0	3
				240.00	243.00	0	1	0	0.000	93	56.000	0	4
				243.00	246.00	0	1	0	0.000	99	79.000	0	4
				246.00	249.00	0	1	0	0.000	99	39.000	0	4
				249.00	252.00	0	1	0	0.000	99	46.000	0	4
				252.00	255.00	0	1	0	0.000	99	54.000	0	4
				255.00	258.00	0	1	0	0.000	99	69.000	0	4
				258.00	261.00	0	1	0	0.000	99	80.000	0	4
				261.00	264.00	0	2	0	0.000	97	44.000	0	4
				264.00	267.00	0	2	0	0.000	99	50.000	0	4
				267.00	270.00	1	2	0	0.000	83	26.000	0	3
				270.00	273.00	0	1	0	0.000	98	22.000	0	4
				273.00	276.00	0	1	0	0.000	99	59.000	0	4
				276.00	279.00	0	1	0	0.000	99	70.000	0	4
				279.00	282.00	0	1	0	0.000	99	70.000	0	4
				282.00	285.00	0	1	0	0.000	99	66.000	0	4
				285.00	288.00	0	1	0	0.000	99	43.000	0	4

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From	To	Unit	Description	From	To	ARG	SER	XPR	Bn/Cp	Recov	% RQD	Hard	RkStr
			(laumontite-heulandite). Slight increase in epidote-chlorite alteration occurs from 292-297.5m.	288.00	291.00	0	1	0	0.000	97	13.000	0	4
			End of hole at 300.84m	291.00	294.00	0	2	0	0.000	94	28.000	0	4
			Note: The SER column is used to record intensity of propylitic alteration in this hole.	294.00	297.00	0	2	0	0.000	99	29.000	0	4
				297.00	300.00	0	2	0	0.000	99	27.000	0	4
				300.00	300.84	0	1	0	0.000	92	43.000	0	4

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Section: Core Size: NQ Remarks: Drilled to test IP response in area
 X (Easting, Dep.): 641340.000 Length: 280.720 of old trenches in Forge Mtn. area.
 Y (Northing, Lat.): 5602642.000 Collar Azimuth: 90.000 MAD 83 coordinates.
 Z (Elevation): 1769.000 Collar Dip: -50.000
 Date Collared: Oct. 20, 2004 CB Depth: 6.710
 Date Completed: Oct. 26, 2004 Logged By: L. Bond
 Date Logged: Nov. 8, 2004

DOWN HOLE SURVEYS:	Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
	179.830	90.000	-50.000	274.300	90.000	-48.000	0.000	0.000	0.000

From	To	Unit	Description	From	To	ARG	SR	RPR	Bn/Cp	Recov	% RQD	Hard	RkStr
0	6.71	CAS	Casing through overburden and broken rock.										
6.71	21	GUIC	M.g. Guichon Granodiorite composed largely of plagioclase w/ some interstitial quartz, some minor primary orthoclase, amphibole and biotite clusters w/ some accessory magnetite, usually associated w/ the mafics. The mafics are very wkly chloritized. Weak to mod. propylitic alt. as epidote-chlorite-calcite veining w/ some wk alt. of plagioclase adjacent to epid-chl veining. No obvious cu mineralization noted.	6.71	9.00	0	2	0	0.000	60	5.000	0	4
				9.00	12.00	0	2	0	0.000	81	25.000	0	4
				12.00	15.00	0	2	0	0.000	96	32.000	0	4
				15.00	18.00	0	2	0	0.000	96	49.000	0	4
				18.00	21.00	0	2	0	0.000	93	35.000	0	4
21	33.5	GUIC	Intensely alt'd and faulted Guichon Granodiorite - rock is intensely chloritized in places w/ numerous hematite-chlorite rich shears w/ slickensides at 20-30 deg. to C.A. This section has pervasive epidote alt. and strong quartz-epidote veining. No obvious sulfides or sec. copper mineralization noted.	21.00	24.00	0	3	0	0.000	72	9.000	0	2
				24.00	27.00	0	3	0	0.000	90	8.000	0	2
				27.00	30.00	0	3	0	0.000	96	58.000	0	3
				30.00	33.00	0	3	0	0.000	92	21.000	0	3
33.5	110	GUIC	M.g. Guichon Granodiorite - less alt'd than above but cut by low angle structures w/ epidote-hematite-chlorite alt. and fracture fillings. From 42.8-44.2m, zone of faulting at 35 deg. to C.A. w/ hematite-chlorite gouge (w/ slickensides) and accompanying extensive epidote-chlorite veining and alteration. After 45m the rock is much less alt'd. Rock is a f.g.-m.g. granodiorite w/ plagioclase and interstitial angular quartz, wkly chloritized mafics, some primary orthoclase; generally mass. and equigranular. Propylitic alt. is weak, consisting of the occas. epidote-chlorite veinlet. There is a patch of strong epid-chl alt. from 57-58m. At 88m, the hole cuts a 20cm quartz-albite-epidote-chlorite vein at 30 deg. to C. A. No sulfides noted. The lower contact is gradational over a few cm w/	33.00	36.00	0	3	0	0.000	99	38.000	0	3
				36.00	39.00	0	2	0	0.000	86	28.000	0	4
				39.00	42.00	0	2	0	0.000	95	26.000	0	4
				42.00	45.00	0	3	0	0.000	91	24.000	0	3
				45.00	48.00	0	1	0	0.000	99	42.000	0	4
				48.00	51.00	0	1	0	0.000	98	26.000	0	4
				51.00	54.00	0	1	0	0.000	99	47.000	0	4
				54.00	57.00	0	1	0	0.000	97	27.000	0	4
				57.00	60.00	0	2	0	0.000	99	43.000	0	4
				60.00	63.00	0	1	0	0.000	99	66.000	0	4
				63.00	66.00	0	1	0	0.000	99	80.000	0	4

DIAMOND DRILL HOLE: G200407

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From	To	Unit	Description	From	To	ARG	SSR	KPR	Sn/Cp	Recov	% RQD	Hard	RxStr
			some wk argillic alt. of the Guichon.	66.00	69.00	0	1	0	0.000	99	40.000	0	4
				69.00	72.00	0	1	0	0.000	99	89.000	0	5
				72.00	75.00	0	1	0	0.000	99	82.000	0	5
				75.00	78.00	0	1	0	0.000	99	92.000	0	5
				78.00	81.00	0	1	0	0.000	99	82.000	0	5
				81.00	84.00	0	1	0	0.000	98	76.000	0	5
				84.00	87.00	0	1	0	0.000	98	86.000	0	5
				87.00	90.00	0	2	0	0.000	93	62.000	0	5
				90.00	93.00	0	1	0	0.000	99	69.000	0	5
				93.00	96.00	0	1	0	0.000	99	90.000	0	5
				96.00	99.00	0	1	0	0.000	99	54.000	0	4
				99.00	102.00	0	1	0	0.000	99	61.000	0	4
				102.00	105.00	1	1	0	0.000	99	40.000	0	4
				105.00	108.00	0	1	0	0.000	99	55.000	0	3
				108.00	111.00	1	1	0	0.000	99	79.000	0	4
110	171.7	BTHM	F.g.-m.g. Bethlehem Granodiorite - rock composed primarily of plagioclase (+50%); v.f.g. and coarser grained mafics; occ. large hornblende phenos (5-10mm); interstitial quartz; minor accessory magnetite; locally the plag. occurs within v.f.g. qz-rich groundmass giving a wk porphyritic character to the rock (plag. grain size 1-2mm, occ. up to 4mm). From 112-115m, there is intense propylitic alt. as epidote-chlorite-hematite-calcite min. assoc. w/ a tight low-angle shear (0-10 deg. w/ slickensides) w/ qz-epidote veining. The rock in this interval has a pinkish-orange color due to Fe-stained plag. Core is massive w/ minimal propylitic alt. from 122m-162m. Propylitic alt. and jointing increase below 162m. Rock becomes finer grained approaching lower contact. No sulfides noted in this interval.	111.00	114.00	1	3	0	0.000	97	46.000	0	4
				114.00	117.00	0	2	0	0.000	99	57.000	0	4
				117.00	120.00	0	1	0	0.000	99	67.000	0	4
				120.00	123.00	0	1	0	0.000	93	66.000	0	4
				123.00	126.00	0	0	0	0.000	99	84.000	0	5
				126.00	129.00	0	0	0	0.000	98	75.000	0	5
				129.00	132.00	0	0	0	0.000	99	85.000	0	5
				132.00	135.00	0	0	0	0.000	94	74.000	0	5
				135.00	138.00	0	1	0	0.000	99	70.000	0	5
				138.00	141.00	0	0	0	0.000	99	88.000	0	5
				141.00	144.00	0	0	0	0.000	99	85.000	0	5
				144.00	147.00	0	0	0	0.000	96	72.000	0	5
				147.00	150.00	0	0	0	0.000	86	62.000	0	5
				150.00	153.00	0	1	0	0.000	99	77.000	0	5
				153.00	156.00	0	0	0	0.000	98	80.000	0	5
				156.00	159.00	0	0	0	0.000	99	77.000	0	5
				159.00	162.00	0	1	0	0.000	99	91.000	0	5
				162.00	165.00	0	2	0	0.000	99	87.000	0	5
				165.00	168.00	0	1	0	0.000	99	35.000	0	5
				168.00	171.00	0	3	0	0.000	99	57.000	0	4

DIAMOND DRILL HOLE: G200407

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Geological Log

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From	To	Unit	Description	From	To	ARC	SR	KPR	Bn/Cp	Recov	% RQD	Hard	RkStr
171.7	174.3	FX	Strong Fault Zone at 10-20 deg. to C.A. Rock reduced to hem-chl gouge w/ some lost core.	171.00	174.00	0	3	0	0.000	67	0.000	0	2
174.3	186.5	BTHM	F.g Bethlehem Granodiorite - intensely broken, alt'd, and sheared below the fault to 180m. Shears are narrow low angle structures w/ hem-chl fillings. Rock is more massive and less alt'd from 180-186m. No sulfide mineralization noted.	174.00	177.00	1	3	0	0.000	80	8.000	0	3
				177.00	180.00	0	2	0	0.000	94	15.000	0	3
				180.00	183.00	0	1	0	0.000	98	66.000	0	4
				183.00	186.00	0	1	0	0.000	98	29.000	0	4
186.5	189.5	BTHM	Hornblende Porphyry - dark green-grey, chloritized, hornblende-rich section; difficult to say if this is a new unit or an intensely alt'd zone but there is definitely an increase in large, alt'd hornblende phenos. Section has intense propylitic alteration; most significant is the presence of py/cpy blebs and diss. associated w/ epidote veining. The lower contact is a broken up low angle shear at 10-20 deg. to C.A.	186.00	189.00	0	3	0	0.000	98	29.000	0	4
				189.00	192.00	0	3	0	0.000	93	27.000	0	4
				192.00	195.00	0	2	0	0.000	96	27.000	0	4
				195.00	198.00	0	1	0	0.000	99	49.000	0	4
				198.00	201.00	0	2	0	0.000	98	46.000	0	4
				201.00	204.00	0	2	0	0.000	99	26.000	0	4
				204.00	207.00	0	1	0	0.000	99	32.000	0	5
				207.00	210.00	0	1	0	0.000	99	60.000	0	5
				210.00	213.00	0	3	0	0.000	98	51.000	0	4
				213.00	216.00	0	3	0	0.000	98	34.000	0	4
189.5	219	BTHM	F.g Bethlehem Granodiorite (approaches Plagioclase Porphyry) - Similar to section above 186.5m. Lots of low angle shearing w/ hem-chl fillings to 194m. Weak to mod. propylitic alt. as epidote-chlorite-calcite decreasing from upper contact to 210m, then increasing to depth w/ qz-epidote-chlorite-hematite veining. Faulted from 212.6 to 213.2m at 30 deg. to C.A. w/ gouge.										
219	225.2	BTHM	Dark grey-green Hornblende Porphyry - Fault-bounded, intensely chloritized and epidotized section. The upper contact is a shallow 5cm wide fault w/ hem-chl gouge at 15-20 deg. to C.A. Distinctive feature is numerous lath-like dark-green hornblende phenos and pervasive epidote alteration and veining. This zone does not appear to contain sulfides. The lower contact is a shallow shear/fault at 15-20 deg. to C.A.	216.00	219.00	0	3	0	0.000	99	32.000	0	4
				219.00	222.00	0	3	0	0.000	94	28.000	0	4
				222.00	225.00	0	3	0	0.000	99	37.000	0	4
				225.00	228.00	0	3	0	0.000	94	4.000	0	4
				228.00	231.00	0	3	0	0.000	98	28.000	0	4
				231.00	234.00	0	3	0	0.000	97	21.000	0	4
				234.00	237.00	0	3	0	0.000	91	30.000	0	4
				237.00	240.00	0	3	0	0.000	99	52.000	0	4
				240.00	243.00	0	2	0	0.000	99	78.000	0	5

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From	To	Unit	Description	From	To	ARC	SER	KPR	Bn/Cp	Recov	% RQD	Hard	RXStr
225.2	249.5	BTHM	F.g. Bethlehem Granodiorite - more fine grained groundmass gives a dyke-like aspect to rock. This interval is well alt'd with Fe-stained plagioclase, pervasive propylitic alteration as epidote-chlorite-calcite, and some larger hornblende laths. Core is broken up w/ brittle fracturing and many low angle joints and small shears. There is also qz-epid-chl-hem veining, which contains discopy at 238.3m. Rock is less alt'd after 241m. From 247.5-249.5m is a low angle shear (0-10 deg. C.A.) w/ chlorite-calcite gouge.										
249.5	280.72	BTRM	F.g Bethlehem Granodiorite (has f.g. plagioclase porphyry aspects) - mostly well formed plagioclase in vf.g. groundmass w/ interstitial quartz and f.g.-c.g. wkly chloritized mafics; contains minor accessory magnetite. Rock has generally wk propylitic alt. as epidote-chlorite-calcite; broken up by low angle jointing w/ chl-cal fillings. Intervals w/ stronger alt. are noted below. Propylitic alt. increases from 260 to 269m associated w/ strong shearing from 267.3-268.5m at 25 deg. to C.A. w/ chl-hem-cal-ser gouge; from 293.9-265m there is broken up qz-epid-chl-hem veining and poss. sec K-spar. No obvious sulfides in this alt'd section. Wk propylitic alt. continues below 269m becoming very weak after 273m to the end of the hole. End of Hole at 280.72m.	243.00	246.00	0	2	0	0.000	99	47.000	0	5
				246.00	249.00	0	3	0	0.000	99	28.000	0	3
				249.00	252.00	0	1	0	0.000	99	44.000	0	4
				252.00	255.00	0	1	0	0.000	99	52.000	0	4
				255.00	258.00	0	1	0	0.000	99	67.000	0	4
				258.00	261.00	0	2	0	0.000	99	49.000	0	4
				261.00	264.00	0	2	0	0.000	97	42.000	0	4
				264.00	267.00	1	2	1	0.000	97	37.000	0	3
				267.00	270.00	0	2	0	0.000	99	25.000	0	3
				270.00	273.00	0	1	0	0.000	99	11.000	0	4
				273.00	276.00	0	1	0	0.000	99	35.000	0	5
				276.00	279.00	0	0	0	0.000	95	31.000	0	5
				279.00	280.72	0	0	0	0.000	98	40.000	0	5

Note: The SER column was used to record the intensity of propylitic alteration in this drill hole.

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Geological Log

Hole: G200408
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Section: Core Size: NQ Remarks: DDH drilled east of the 432 road in
 X (Easting, Dep.): 636600.000 Length: 300.840 the Cinder Hill area to test IP
 Y (Northing, Lat.): 5601795.000 Collar Azimuth: 90.000 response from area IP surveys.
 Z (Elevation): 1468.000 Collar Dip: -70.000 Coordinates are NAD 83.
 Date Collared: Sept. 30, 2004 OB Depth: 19.810
 Date Completed: Oct. 5, 2004 Logged By: L. Bond
 Date Logged: Dec. 14, 2004

DOWN HOLE SURVEYS:	Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
	151.280	90.000	-69.000	300.500	90.000	-67.000	0.000	0.000	0.000

From	To	Unit	Description	From	To	ARG	SR	KPR	Bn/Cp	Recov	% RQD	Hard	RkStr
0	19.81	CAS	Casing through glacial till overburden and broken rock.										
19.81	115	BTHM	Bethlehem Granodiorite - f.g.-m.g. plagioclase rich granodiorite w/ interstitial quartz, f.g. and c.g. biotite and mafic clusters; generally fresh looking w/ minimal alt. of biotite and hornblendes. The section from 25.7 to 32.3m may be Guichon granodiorite. There is an estimated 3-4% accessory magnetite giving a moderate magnetic response. The rock is generally very weakly alt'd w/ some minor bleaching and epidote-chlorite min. on joints. In places, creamy-white well-formed plagioclase crystals create a plagioclase porphyry fabric. There are weakly sheared zones with propylitic alt. as chl-cal-epid from 59.4-60.2m and 65.5-66.1m. Weak propylitic alteration picks up from 99 to 109m. Sulfides are essentially non-existent throughout this interval.	19.81	24.00	0	0	0	0.000	93	44.000	0	3
				24.00	27.00	0	0	0	0.000	99	66.000	0	3
				27.00	30.00	0	0	0	0.000	99	63.000	0	3
				30.00	33.00	0	0	0	0.000	96	56.000	0	4
				33.00	36.00	0	0	0	0.000	92	34.000	0	4
				36.00	39.00	0	0	0	0.000	99	54.000	0	4
				39.00	42.00	0	0	0	0.000	98	61.000	0	4
				42.00	45.00	0	0	0	0.000	96	60.000	0	4
				45.00	48.00	0	0	0	0.000	99	33.000	0	4
				48.00	51.00	0	0	0	0.000	92	44.000	0	4
				51.00	54.00	0	0	0	0.000	97	47.000	0	4
				54.00	57.00	0	0	0	0.000	98	56.000	0	4
				57.00	60.00	0	1	0	0.000	98	45.000	0	4
				60.00	63.00	0	0	0	0.000	98	64.000	0	4
				63.00	66.00	0	1	0	0.000	97	68.000	0	4
				66.00	69.00	0	0	0	0.000	99	64.000	0	4
				69.00	72.00	0	0	0	0.000	99	74.000	0	4
				72.00	75.00	0	0	0	0.000	96	47.000	0	4
				75.00	78.00	0	0	0	0.000	99	68.000	0	4
				78.00	81.00	0	0	0	0.000	88	28.000	0	4
				81.00	84.00	0	1	0	0.000	99	35.000	0	3
				84.00	87.00	0	0	0	0.000	96	42.000	0	4
				87.00	90.00	0	0	0	0.000	99	66.000	0	4
				90.00	93.00	0	0	0	0.000	90	39.000	0	4

DIAMOND DRILL HOLE: G200408

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From	To	Unit	Description	From	To	ARG	SER	KPR	Sn/Cp	Recov	% RQD	Hard	RkStr
				93.00	96.00	0	0	0	0.000	97	51.000	0	4
				96.00	99.00	0	0	0	0.000	95	39.000	0	4
				99.00	102.00	0	1	0	0.000	99	25.000	0	3
				102.00	105.00	0	1	0	0.000	93	25.000	0	3
				105.00	108.00	0	1	0	0.000	99	30.000	0	3
				108.00	111.00	1	1	0	0.000	99	41.000	0	4
				111.00	114.00	0	0	0	0.000	99	74.000	0	4
				114.00	117.00	1	1	0	0.000	98	19.000	0	3
				117.00	120.00	1	1	0	0.000	99	19.000	0	2
				120.00	123.00	0	0	0	0.000	90	38.000	0	3
115	150.3	BTHM	Bethlehem Granodiorite - f.g.-m.g. granodiorite with significant numbers of weakly sheared and fractured segments; approximately 30% of this interval consists of sheared zones separated by more competent rock. The orientation of the stronger faults/shears is 30 deg. to core axis but orientations can vary up to 50 deg. to C.A. The sheared zones are marked by weak to moderate propylitic alteration and fault related argillization. No sulfides were noted.	123.00	126.00	1	1	0	0.000	99	25.000	0	3
				126.00	129.00	1	1	0	0.000	99	23.000	0	3
				129.00	132.00	1	1	0	0.000	99	59.000	0	3
				132.00	135.00	1	1	0	0.000	99	15.000	0	3
				135.00	138.00	2	1	0	0.000	99	11.000	0	3
				138.00	141.00	1	1	0	0.000	93	18.000	0	3
				141.00	144.00	2	1	0	0.000	98	4.000	0	2
				144.00	147.00	0	1	0	0.000	98	30.000	0	3
				147.00	150.00	1	1	0	0.000	99	18.000	0	3
				150.00	153.00	0	0	0	0.000	94	52.000	0	3
				153.00	156.00	0	0	0	0.000	99	58.000	0	3
150.3	300.84	BTHM	Bethlehem Granodiorite - generally a light-grey plagioclase rich granodiorite w/ interstitial quartz. The most distinctive feature of this rock are the f.g. specks of mafics along with some much larger biotites and hornblendes. The rock is somewhat more alt'd than the first interval w/ some alteration of feldspars and chloritic alteration of mafics and biotite. Overall the unit has very weak propylitic alteration w/ some bleached envelopes along joints w/ chl-epid-cal mineralization. More extensively altered sections tend to be associated with more intensely developed structures and are noted individually. There is a weak magnetic response with possibly partial destruction of magnetite. From 191-192.6m is a wkly sheared and alt'd zone at 15 deg. to C.A w/ some breccia development; the section from 203.3-203.8m is shr'd and alt'd at 20 deg. to C.A. w/ chl-epid min. Low angle faulting from 220.3-221.5m at 15 deg. to C.A. has some gouge and argillized rock. A bleached, argillized and	156.00	159.00	1	1	0	0.000	95	24.000	0	3
				159.00	162.00	1	1	0	0.000	99	48.000	0	3
				162.00	165.00	0	0	0	0.000	99	60.000	0	4
				165.00	168.00	1	1	0	0.000	99	25.000	0	3
				168.00	171.00	0	0	0	0.000	99	39.000	0	3
				171.00	174.00	1	1	0	0.000	99	19.000	0	3
				174.00	177.00	1	1	0	0.000	99	30.000	0	3
				177.00	180.00	0	0	0	0.000	96	34.000	0	3
				180.00	183.00	0	0	0	0.000	99	75.000	0	4
				183.00	186.00	0	0	0	0.000	97	51.000	0	4
				186.00	189.00	1	1	0	0.000	99	53.000	0	3
				189.00	192.00	1	1	0	0.000	99	28.000	0	3
				192.00	195.00	0	0	0	0.000	98	72.000	0	3
				195.00	198.00	0	0	0	0.000	99	76.000	0	4

Highland Valley Copper

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Geological Log

Hole: G200408

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From	To	Unit	Description	From	To	ARG	SER	KPR	Bu/Cp	Recov	% RQD	Hard	RkStr
			propylitized zone occurs from 233.5-235.7m and from 250.6-252.8m is a	198.00	201.00	0	0	0	0.000	99	79.000	0	4
			sheared zone at 15-20 deg. to C.A. w/ soft altered rock. At 258m and	201.00	204.00	1	1	0	0.000	97	70.000	0	3
			at 262.3m are 50cm shears at 15 deg. to C.A. w/ strong argillic alt.	204.00	207.00	1	1	0	0.000	99	34.000	0	3
			At 278.3m is a 30cm fault w/ gouge at 20 deg. to C.A. From	207.00	210.00	0	1	0	0.000	99	47.000	0	4
			294.4-294.9m is a wkly shz'd and alt'd zone at 20 deg. to C.A. There	210.00	213.00	0	1	0	0.000	98	56.000	0	4
			are no apparent sulfides in this increment or in the total length of	213.00	216.00	1	1	0	0.000	99	31.000	0	3
			the hole.	216.00	219.00	1	1	0	0.000	99	21.000	0	3
			End of Hole at 300.84m	219.00	222.00	1	1	0	0.000	99	20.000	0	3
				222.00	225.00	0	0	0	0.000	97	62.000	0	3
				225.00	228.00	0	0	0	0.000	98	75.000	0	3
			Note: The SER column is used to record the intensity of propylitic	228.00	231.00	0	0	0	0.000	94	62.000	0	3
			alteration in this drill hole on a 0-3 scale.	231.00	234.00	1	1	0	0.000	99	32.000	0	3
				234.00	237.00	2	1	0	0.000	99	38.000	0	2
				237.00	240.00	1	1	0	0.000	99	43.000	0	3
				240.00	243.00	0	0	0	0.000	99	75.000	0	4
				243.00	246.00	0	0	0	0.000	98	68.000	0	4
				246.00	249.00	0	0	0	0.000	99	68.000	0	3
				249.00	252.00	1	1	0	0.000	99	29.000	0	2
				252.00	255.00	0	0	0	0.000	99	42.000	0	4
				255.00	258.00	2	1	0	0.000	99	36.000	0	3
				258.00	261.00	1	1	0	0.000	99	65.000	0	3
				261.00	264.00	1	1	0	0.000	97	37.000	0	3
				264.00	267.00	0	0	0	0.000	99	92.000	0	4
				267.00	270.00	1	1	0	0.000	99	36.000	0	3
				270.00	273.00	0	0	0	0.000	99	57.000	0	4
				273.00	276.00	0	0	0	0.000	99	64.000	0	4
				276.00	279.00	0	0	0	0.000	97	54.000	0	4
				279.00	282.00	0	0	0	0.000	99	69.000	0	4
				282.00	285.00	1	1	0	0.000	99	57.000	0	3
				285.00	288.00	1	1	0	0.000	99	55.000	0	3
				288.00	291.00	0	1	0	0.000	99	54.000	0	3
				291.00	294.00	0	0	0	0.000	99	75.000	0	4
				294.00	297.00	1	1	0	0.000	99	66.000	0	4
				297.00	300.84	0	0	0	0.000	99	75.000	0	4

Highland Valley Copper

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Geological Log

Hole: G200409
Page: 1

Section: Core Size: NQ Remarks: Drilled on Getty Copper option to
 X (Easting, Dep.): 635609.000 Length: 300.530 test for causes of IP response from
 Y (Northing, Lat.): 5602690.000 Collar Azimuth: 90.000 earlier geophysical survey.
 Z (Elevation): 0.000 Collar Dip: -70.000 NAD 83 coordinates.
 Date Collared: August 26, 2004 OB Depth: 42.980
 Date Completed: August 31, 2004 Logged By: L.Bond
 Date Logged: Sept. 3, 2004

DOWN HOLE SURVEYS:	Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
	167.900	90.000	-68.000	291.700	90.000	-66.000	0.000	0.000	0.000

From	To	Unit	Description	From	To	ARG	BER	KPR	Bn/Cp	Racov	% RQD	Hard	RkStr
0	42.98	CAS	Casing through overburden, sand and gravel.										
42.98	115.2	BREC	Breccia pipe developed in probable Guichon granodiorite (mostly plagioclase and mafics similar to border phase qz diorites in part); breccia fragments can be angular or rounded (milled) and are of mixed lithologies including fragments of Tertiary volcanics and rhyolitic-dacitic rock; breccia feature associated w/ Tertiary volcanism. Fragments include some poss. metamorphosed-recrystallized Nicola w/ brown biotite. There is little or no hydrothermal alteration associated w/ the breccia event i.e no cooling selvages or argillization; only epidote alt. is some frags; diss. pyrite is present in places up to 1%. Some coarse calcite occurs in vuggy openings. There are increasing amounts of vuggy/vesicular light-grey rhyolite-dacite rocks in the breccia after 80m. The breccia is largely clast supported but w/ significant amounts of ground up sand/gravel sized material of very mixed lithologies.	42.98	45.00	0	0	0	0.000	83	21.000	0	3
				45.00	48.00	0	0	0	0.000	86	8.000	0	3
				48.00	51.00	0	0	0	0.000	74	10.000	0	3
				51.00	54.00	0	0	0	0.000	99	22.000	0	3
				54.00	57.00	0	0	0	0.000	84	20.000	0	3
				57.00	60.00	0	0	0	0.000	86	14.000	0	3
				60.00	63.00	0	0	0	0.000	78	5.000	0	3
				63.00	66.00	0	0	0	0.000	90	29.000	0	3
				66.00	69.00	0	0	0	0.000	85	24.000	0	3
				69.00	72.00	0	0	0	0.000	89	9.000	0	3
				72.00	75.00	0	0	0	0.000	93	24.000	0	3
				75.00	78.00	0	0	0	0.000	89	32.000	0	3
				78.00	81.00	0	0	0	0.000	86	24.000	0	3
				81.00	84.00	0	0	0	0.000	89	38.000	0	3
				84.00	87.00	0	0	0	0.000	96	44.000	0	3
				87.00	90.00	0	0	0	0.000	93	39.000	0	3
				90.00	93.00	0	0	0	0.000	99	54.000	0	3
				93.00	96.00	0	0	0	0.000	84	40.000	0	3
				96.00	99.00	0	0	0	0.000	99	46.000	0	3
				99.00	102.00	0	0	0	0.000	99	46.000	0	3
				102.00	105.00	0	0	0	0.000	92	49.000	0	3
				105.00	108.00	0	0	0	0.000	96	77.000	0	3
				108.00	111.00	0	0	0	0.000	98	62.000	0	3
				111.00	114.00	0	0	0	0.000	97	54.000	0	3

Geological Log

From	To	Unit	Description	From	To	ARG	SER	KPR	Bn/Cp	Recov	% RQD	Hard	RkStr
			joint at 45 deg. to C.A.										
244.4	247.3	GUIC	M.g.-c.g. Guichon granodiorite; slight beige color to some plag. (wk argillization). At 247m is a 4cm alt'd zone w/ green alt'd plag. envelope and a 1cm hem-qz veinlet at the center.										
247.3	257.5	FPD	F.g.-m.g. Feldspar Porphyry Dyke (Bethlehem related). The plagioclase can be beige to pale green in color indicating wk argillization. Also there a number of narrow alt. zones developed along fractures with a envelope or selvage several cm wide consisting of pale green alt'd plag. w/ fracture fillings or veinlets at the center which can be sericite-chlorite, qz-sericite-chlorite, or qz-hematite-chlorite. These alt. zones are sericite-rich but do not appear to host sulfides. The outer edge of the selvage may be dark green chlorite; occ. trace amounts of K-spar can be in or adjacent to the alt. envelope. These alt. zones are common from 252m to lower contact.	240.00	243.00	0	2	0	0.000	99	48.000	0	3
				243.00	246.00	1	2	1	0.000	98	82.000	0	3
				246.00	249.00	1	1	0	0.000	99	62.000	0	3
				249.00	252.00	1	1	0	0.000	99	59.000	0	3
				252.00	255.00	1	1	1	0.000	96	30.000	0	3
				255.00	258.00	1	1	1	0.000	98	35.000	0	3
				258.00	261.00	0	1	0	0.000	99	44.000	0	3
				261.00	264.00	0	1	0	0.000	98	49.000	0	3
				264.00	267.00	0	1	0	0.000	99	59.000	0	3
				267.00	270.00	0	1	0	0.000	99	35.000	0	3
257.5	258.6	FX	Fault zone in Guichon granodiorite w/ several slips with sericite-chlorite gouge and may be related to alt. features in previous FPD section. Orientation of fault slips is 50 deg. to C.A.										
258.6	300.53	GUIC	M.g. c.g. Guichon granodiorite; mafics are weakly to moderately chloritized; local slight alt. of plag. (beige color - wk kaol dev.). Section is cut by joints w/ chlorite-epidote calcite fillings. Some small aplite dykelets up to 10 cm wide occur above 270m. From 278.4-279.2 is a shr'd undulating joint set w/ sericite-chlorite-epidote-calcite alteration. At 283.4m is a low angle shr'd jt w/ qz-ser-cal filling and a 3cm ser-epidote alt. halo. From 287-289m are a set of shr'd joints at 0-10 deg. to C.A. w/ ser chl-cal filling and accompanied by increased argillization of plag. and poss. trace amounts of sec. K-spar. From 297-297.4m, a fault cuts the core at 15 deg. to C.A.; the fault zone has chl-ser-cal-hem gouge and strong argillization. From 289-291m is a short section of FPD rock w/ some K spar alt. Overall, the granodiorite is less altered from 291m to the end of the hole. No sulfides were noted.	270.00	273.00	0	1	0	0.000	99	18.000	0	3
				273.00	276.00	0	1	0	0.000	99	33.000	0	3
				276.00	279.00	0	1	0	0.000	99	15.000	0	3
				279.00	282.00	0	1	0	0.000	99	57.000	0	3
				282.00	285.00	0	1	0	0.000	99	47.000	0	3
				285.00	288.00	1	1	0	0.000	99	52.000	0	3
				288.00	291.00	1	1	1	0.000	95	29.000	0	3
				291.00	294.00	0	0	0	0.000	97	81.000	0	3
				294.00	297.00	0	0	0	0.000	98	72.000	0	3
				297.00	300.53	0	0	0	0.000	98	58.000	0	3

DIAMOND DRILL HOLE: *G200409*

Highland Valley Copper

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Geological Log

Hole: *G200409*
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From	To	Unit	Description
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From	To	ARG	SER	KFR	Bn/Cp	Recov	% RQD	Hard	RkStr
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End of hole at 306.53m.

Note: SER column was used to record intensity of propylitic alteration in this drill hole.

Highland Valley Copper

08-16-32 03-02-2005

Geological Log

Hole: G200410
Page: 1

Section: Core Size: NQ Remarks: BDM drilled to test IP survey results
 X (Easting, Dep.): 636003.000 Length: 300.840 on the Getty option in the Cinder
 Y (Northing, Lat.): 5602681.000 Collar Azimuth: 90.000 Hill area. Coordinates are NAD 83.
 Z (Elevation): 1518.000 Collar Dip: -70.000
 Date Collared: Oct. 27, 2004 OB Depth: 25.000
 Date Completed: Nov. 1, 2004 Logged By: L. Bond
 Date Logged: Dec. 8, 2004

DOWN HOLE SURVEYS:	Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
	142.340	90.000	-68.000	0.000	0.000	0.000	0.000	0.000	0.000

From	To	Unit	Description	From	To	ARG	BER	KPR	Bn/Cp	Recov	% RQD	Hard	RkStr
0	25	CAS	Casing through glacial drift and boulder till.										
25	67.7	TRTV	Tertiary Volcanics - Dark grey-green fine grained dacite-andesite volcanic flows.										
67.7	82.6	TRTS	Tertiary Sediments Poorly sorted Tertiary greywacke type sandstones and pebble/gravel sized conglomerates.										
82.6	239.88	TRTV	Tertiary Volcanic Breccia/Conglomerate; probably the result of an explosive event followed by a collapse and infilling of Tertiary and Triassic debris. Consists of Tertiary and Triassic fragments in a f.g. clay-bearing matrix and some intervals of greywacke type sediments. The Triassic fragments tend to be larger and sometimes angular while the Tertiary fragments are generally smaller and more rounded. Lithologies of the fragments are quite mixed. The proportion of Triassic fragments to Tertiary increases to depth becoming predominantly coarse angular Triassic fragments of mixed intrusive lithologies.										
239.88	258.4	BTHM	Bethlehem Granodiorite - f.g. plagioclase rich granodiorite w/ c.g. and f.g chloritized mafics and biotite. At times, well formed (euhedral) but small (2mm) plagioclase phenos occur in a fine grained groundmass giving a plagioclase porphyry aspect to the rock. Slight beige cast to the rock is due to Fe-staining of plagioclase. Weak propylitic alt. present as chlorite-calcite-epidote. Little or no sulfides present.	239.88	243.00	0	1	0	0.000	92	0.000	0	3
				243.00	246.00	0	1	0	0.000	99	12.000	0	3
				246.00	249.00	0	1	0	0.000	93	24.000	0	3
				249.00	252.00	0	1	0	0.000	72	30.000	0	3
				252.00	255.00	0	1	0	0.000	87	18.000	0	3
				255.00	258.00	0	1	0	0.000	99	22.000	0	3

DIAMOND DRILL HOLE: G200410

Highland Valley Copper

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Geological Log

Hole: G200410
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From	To	Unit	Description	From	To	ARG	SER	KPR	Ba/Cp	Recov	% RQD	Hard	RXStr
258.4	270.4	BREC	Bethlehem granodiorite as above but brecciated and healed with creamy-white albite-rich veining which is argillized to a large extent with significant kaolinite and calcite development; segment is about 40% veining and 60% granodiorite. Rock has weak propylitic alteration with chlorite-calcite-hematite veinlets and jt fillings with some sericite present as well. No sulfides noted.	258.00	261.00	1	1	0	0.000	99	6.000	0	2
				261.00	264.00	1	1	0	0.000	94	23.000	0	2
				264.00	267.00	1	0	0	0.000	99	0.000	0	2
				267.00	270.00	1	1	0	0.000	99	7.000	0	2
270.4	300.84	BTHM	Bethlehem Granodiorite - f.g.-m.g. plagioclase rich granodiorite with small but euhedral plagioclase phenos giving a plagioclase porphyry fabric to the rock. The rock is light grey except where plagioclase has an orangish cast due to Fe-staining. There is very minor propylitic alteration mostly as chlorite-calcite jt fillings w/ some sericite. Mafics are generally fine grained and chlorite altered but larger hornblendes and biotite clusters are present as well. No sulfides noted.	270.00	273.00	0	0	0	0.000	92	32.000	0	3
				273.00	276.00	0	0	0	0.000	92	21.000	0	3
				276.00	279.00	0	0	0	0.000	99	71.000	0	3
				279.00	282.00	0	0	0	0.000	96	57.000	0	4
				282.00	285.00	0	0	0	0.000	99	41.000	0	4
				285.00	288.00	0	0	0	0.000	99	54.000	0	4
				288.00	291.00	0	0	0	0.000	99	40.000	0	4
				291.00	294.00	0	0	0	0.000	99	52.000	0	4
				294.00	297.00	0	0	0	0.000	90	62.000	0	4
			End of hole at 300.84m.	297.00	300.84	0	0	0	0.000	99	76.000	0	4

Note: The SER column was used to record the intensity of propylitic alteration in the drill core.

Highland Valley Copper

08-15-03 03-02-2005

Geological Log

Hole: G200411A

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Section:	Core Size: NQ	Remarks: Drilled on Getty Copper option to
X (Easting, Dep.): 636605.000	Length: 322.170	test for causes of IP response from
Y (Northing, Lat.): 5602600.000	Collar Azimuth: 0.000	earlier Getty geophysical survey.
Z (Elevation): 0.000	Collar Dip: -90.000	NAD 83 coordinates.
Date Collared: Sept. 19, 2004	OB Depth: 88.390	
Date Completed: Sept. 30, 2004	Logged By: L. Bond	
Date Logged: Oct. 13, 2004		

From	To	Unit	Description	From	To	ARG	SBR	KPR	Bn/Cp	Recov	% RQD	Hard	RkStr
0	88.39	CAS	Casing through overburden, sand, and gravel. From 77.72m, the hole is in weakly consolidated Tertiary sandstones too soft to set casing shoe in, so casing was extended to current depth.										
88.39	97	TRTS	Tertiary Sediments - m.g. brown sandstone; poorly consolidated; generally equigranular w/ occ. gravel size material.										
97	99.97	TRTS	Tertiary Sediments - m.g. poorly sorted grey-brown greywacke type sandstone w/ increasing gravel and cobble content.										
99.97	218.5	TRTV	Tertiary Volcanic Breccia; probably the result of an explosive event followed by a collapse and infilling of Tertiary and Triassic debris. Initially 20% Guichon fragments of mixed lithologies; the Guichon fragments are predominantly cobble to boulder size and fresh and unweathered and generally quite angular. The Tertiary fragments are generally more rounded and of very mixed volcanic lithologies. Greywacke type matrix makes up 20-30% of rock.										

After 105m, there is much less sand size "greywacke" matrix. The matrix portion of the core consists of tightly packed gravel and small cobble sized frag. with some clay and an increasing amount of small vugs. The rest of the core consists of larger fragments, usually Guichon but also Tertiary volcanics. The section from 112m to 180m is quite vuggy with significant clay in the matrix. One open vug had 1 cm of siliceous cherty sediment deposited at the bottom of the vug, indicating much water movement through the breccia; this

DIAMOND DRILL HOLE: G200411A

Highland Valley Copper

08-15-03 03-02-2005

Geological Log

Hole: G200411A

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From	To	Unit	Description	From	To	ARG	SER	KPR	Ba/Cp	Recov	% RQD	Hard	RkStr
			Note: SER column used to record intensity of propylitic alteration in this drill hole.	306.00	309.00	0	0	0	0.000	99	50.000	0	4
				309.00	312.00	0	0	0	0.000	99	60.000	0	4
				312.00	315.00	0	0	0	0.000	99	65.000	0	4
				315.00	318.00	0	0	0	0.000	98	76.000	0	4
				318.00	321.00	0	0	0	0.000	99	69.000	0	4
				321.00	322.17	0	0	0	0.000	93	79.000	0	4

DIAMOND DRILL HOLE: G200412

Highland Valley Copper

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Geological Log

Hole: G200412
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From	To	Unit	Description	From	To	ARG	SER	KPR	Bn/Cp	Recov	% RQD	Hard	RkStr
179.7	188.7	GUIC	F.g.-m.g. Guichon granodiorite - largely well formed plag. w/ interstitial wedge-shaped qz, biotites and amphiboles (wkly chloritized). Plagioclase is wkly argillized (creamy-beige to greenish cast); strong propylitic alt. present as chlorite-epidote-calcite; trace secondary K-spar and minor sericite; no sulfides.	179.70	183.00	1	2	0	0.000	87	14.000	0	4
				183.00	186.00	1	2	0	0.000	98	46.000	0	3
				186.00	189.00	2	2	1	0.000	91	14.000	0	3
189.7	190.5	FX	Fault Zone; strong fault at 40 deg. to C.A. with lots of chlorite-clay gouge; host rock is totally alt'd and ground up.										
190.5	206.3	BTHM	F.g.-m.g. Bethlehem granodiorite, with more plag., less mafics than previous interval with some rounded quartz. Rock has strong propylitic alt. w/ epidote-chlorite-calcite stringers and fracture fillings and some albite-epidote veining; some minor sec. K-spar. Rock tends to be shattered and healed. The core is intensely alt'd from 201m with sericite; faulted section from 204.9-206.3m at 30 deg. to core axis. No sulfides noted.	189.00	192.00	1	3	0	0.000	84	16.000	0	2
				192.00	195.00	1	3	0	0.000	95	45.000	0	2
				195.00	198.00	1	3	0	0.000	99	40.000	0	3
				198.00	201.00	1	3	1	0.000	96	51.000	0	3
				201.00	204.00	2	3	1	0.000	98	5.000	0	2
				204.00	207.00	2	3	1	0.000	99	15.000	0	2
206.3	266.7	GUIC	F.g.-m.g. Guichon granodiorite - equigranular, fairly massive rock, predominantly plag. w/ biotite and amphiboles; some interstitial quartz; some primary K-spar. Very wk propylitic alt. as epidote-chlorite-calcite; locally some patchy wk alt. of plag. (argillization). No sulfides noted.	207.00	210.00	0	1	0	0.000	98	46.000	0	3
				210.00	213.00	1	1	0	0.000	99	36.000	0	4
				213.00	216.00	0	1	0	0.000	99	65.000	0	4
				216.00	219.00	1	1	0	0.000	99	38.000	0	3
				219.00	222.00	0	1	0	0.000	99	47.000	0	3
				222.00	225.00	0	1	0	0.000	99	28.000	0	3
				225.00	228.00	0	1	0	0.000	99	23.000	0	3
				228.00	231.00	1	2	0	0.000	81	47.000	0	3
				231.00	234.00	1	2	0	0.000	96	54.000	0	3
				234.00	237.00	0	1	0	0.000	99	53.000	0	3
				237.00	240.00	1	2	0	0.000	99	54.000	0	3
				240.00	243.00	0	0	0	0.000	99	81.000	0	4
				243.00	246.00	0	0	0	0.000	99	87.000	0	4
				246.00	249.00	0	0	0	0.000	95	85.000	0	4
				249.00	252.00	1	1	0	0.000	98	64.000	0	4
				252.00	255.00	0	0	0	0.000	99	86.000	0	4

DIAMOND DRILL HOLE: G200412

Highland Valley Copper

08:17:56 03-02-2005

Geological Log

Hole: G200412
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From	To	Unit	Description	From	To	ARG	SER	KFR	Ba/Cp	Recov	% RQD	Hard	RkStr
				255.00	258.00	0	0	0	0.000	99	95.000	0	4
				258.00	261.00	0	1	0	0.000	99	88.000	0	4
				261.00	264.00	0	1	0	0.000	99	92.000	0	4
				264.00	267.00	1	2	0	0.000	99	62.000	0	3
				267.00	270.00	1	2	0	0.000	99	44.000	0	3
				270.00	273.00	2	3	0	0.000	99	9.000	0	2
				273.00	276.00	1	2	0	0.000	99	28.000	0	3
				276.00	279.00	1	1	0	0.000	93	32.000	0	3
266.7	278	GUIC	F.g.-m.g. Guichon granodiorite - this section is cut by numerous narrow shr'd joints and veinlets at low angles to the core axis (10-20 deg.) with epidote-chlorite-calcite-hematite and epidote-chlorite-sericite-calcite fillings. The plagioclase has been weakly to moderately argillized. No obvious sulfides noted.	264.00	267.00	1	2	0	0.000	99	62.000	0	3
				267.00	270.00	1	2	0	0.000	99	44.000	0	3
				270.00	273.00	2	3	0	0.000	99	9.000	0	2
				273.00	276.00	1	2	0	0.000	99	28.000	0	3
				276.00	279.00	1	1	0	0.000	93	32.000	0	3
278	288	GUIC	F.g.-m.g. Guichon granodiorite - generally a less alt'd interval. There is wk propylitic alt. and patchy and weak argillic alt. of plagioclase. From 282.8-283.6m is epidote-chlorite-calcite-qz-sericite-hematite veining w/ some K-spar at 20 deg. to C.A. w/ no visible sulfides. Also a small 20cm qz-rich vein was cut at 286.2m at 50 deg. to C.A. From 286.2m to end of hole, only weak propylitic alt. noted w/ no sulfides.	279.00	282.00	0	0	0	0.000	99	56.000	0	4
				282.00	285.00	1	2	0	0.000	99	60.000	0	3
				285.00	288.00	1	2	0	0.000	95	65.000	0	4
				288.00	291.00	0	1	0	0.000	99	45.000	0	4
				291.00	294.00	0	1	0	0.000	97	51.000	0	4
				294.00	297.00	0	1	0	0.000	99	74.000	0	4
				297.00	300.00	0	1	0	0.000	99	80.000	0	4
			End of hole at 300.84m.	300.00	300.84	0	1	0	0.000	99	79.000	0	4

Note: The SER column was used to record the intensity of propylitic alteration in the drill core.

DIAMOND DRILL HOLE: G200414

Highland Valley Copper

08.18.02 01.02.2003

Geological Log

Hole: G200414

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From	To	Unit	Description	From	To	ARG	SBR	KFR	Ba/Cp	Recov	% RQP	Hard	RkStr
			dyke); the exact contacts are unclear as the contact areas are altered and brecciated. The Tertiary conglomerate package continues below the volcanics with grey-green sediments and Triassic and Tertiary fragments up to cobble size										
233.8	276	TRTV	Tertiary Volcanic Breccia - tightly packed; clast supported. Consists of 70% intrusive (Guichon) material of mixed lithologies (both fresh & weathered) w/ other mixed Tertiary lithologies. The fabric consists of large (boulder size) mostly Triassic fragments and generally smaller Tertiary fragments, often in tightly packed zones of gravel to cobble size. There is >10% fines in the matrix. This interval is suggestive of an explosive event by a collapse event into a pipe or basin.										
276	295.66	TRTV	Tertiary Volcanic Breccia - From 276m the brecciation becomes more intense with 60% mostly angular Guichon fragments in a finer grained matrix. The Guichon fragments tend to be angular and fresh (unweathered). The Tertiary fragments tend to be rounded and weathered. The matrix consists of finely ground rock particles and clay (30% matrix). The intrusive fragments are derived from the batholith; some Guichon phase chunks are recognizable and one piece hosts an aplite dyke. This material could have developed in a later stage collapse event.										

End of the hole at 295.66m.

Highland Valley Copper

08:14:54 03-02-2005

Geological Log

Hole: G200416

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Section: Core Size: NQ Remarks: Drilled on the Getty Copper option to
 X (Easting, Dep.): 636905.000 Length: 300.840 test for the cause of IP response.
 Y (Northing, Lat.): 5604740.000 Collar Azimuth: 90.000 NAD 83 coordinates.
 Z (Elevation): 1693.000 Collar Dip: -70.000
 Date Collared: August 31, 2004 OB Depth: 51.820
 Date Completed: Sept. 6, 2004 Logged By: L. Bond
 Date Logged: Sept. 13, 2004

DOWN HOLE SURVEYS:	Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
	147.500	90.000	-70.000	291.700	90.000	-69.000	0.000	0.000	0.000

From	To	Unit	Description	From	To	ARG	S&R	KPR	Sn/Cp	Recov	% RQD	Hard	RkStr
0	51.82	CAS	Casing through overburden and broken rock.										
51.82	83.3	TRTS	Tertiary Sediments - brown to dark brown sediments including dark thin bedded or laminated silts to fine sand, poorly sorted and more massive dark colored greywacke type sandstone, and brown coarse poorly sorted sand and gravel conglomerate.										
83.3	95	TRTV	Tertiary Volcanics; dark grey-brown coarsely vesicular dacite-andesite flows; trace diss. py.										
95	125.2	TRTV	Tertiary Volcanics - more massive and less vesicular grey-green flows. This interval contains pale pyrite-marcasite as stringers and diss. Below 108m, the sulfide content increases, occurring in crackle breccia features that may be assoc. with flow tops. Estimated pyrite-marcasite content from 95-125m ranges from 2 to 5%.										
125.2	129.7	TRTC	Tertiary Basal Unit - blocky conglomerate sitting on Guichon batholith rocks; contains Tertiary volcanics, small and large Tertiary fragments, some Tertiary sediments, and a Guichon boulder; pyrite is present in the volcanics. Core recovery though the entire Tertiary segment was very good (>95%).										
129.7	185	GUIC	F.g.-m.g. Guichon qz diorite; equigranular rock consisting mainly of well-formed to euhedral creamy-white plagioclase (1-2mm crystals), minor interstitial qz around plag., amphiboles and biotite, with some larger irregular mafic clusters (wkly chloritized); accessory magnetite is 2-4% as separate grains and in the cores of mafic	129.70	132.00	0	0	0	0.000	97	40.000	0	4
				132.00	135.00	0	0	0	0.000	97	68.000	0	4
				135.00	138.00	0	0	0	0.000	96	69.000	0	4

Geological Log

Hole: G200416
Page: 2

From	To	Unit	Description	From	To	ARG	SER	KPE	Ba/Cp	Recov	% RQD	Hard	RkStr
			clusters; appears to be little or no orthoclase. The rock best fits	138.00	141.00	0	0	0	0.000	99	87.000	0	4
			McMillan's 3a sub-unit (Guichon qz diorite - transitional to border	141.00	144.00	0	1	0	0.000	92	72.000	0	4
			phase). The rock is generally unalt'd. very massive and coarsely	144.00	147.00	0	0	0	0.000	99	93.000	0	4
			jointed (high RQD) with a few local exceptions. There is some	147.00	150.00	0	0	0	0.000	97	75.000	0	4
			discoloration just below the contact w/ the Tertiary with close	150.00	153.00	0	0	0	0.000	95	76.000	0	4
			spaced fractures w/ chlorite and minor fine diss. py.; also rare	153.00	156.00	0	1	0	0.000	97	55.000	0	4
			trace py/cpy around grain boundaries at 135m. From 140.5-142m, there	156.00	159.00	0	0	0	0.000	99	87.000	0	4
			is wk epidote alt. and a wk greenish cast to the plag. (wk	159.00	162.00	0	0	0	0.000	99	96.000	0	4
			argillization) w/ tiny qz stringers. From 153-155m, there is a zone	162.00	165.00	0	0	0	0.000	99	88.000	0	4
			w/ several chlorite filled joints w/ trace sulfides w/ very wk	165.00	168.00	0	0	0	0.000	99	86.000	0	4
			epidote min. plus trace flecks of cpy in the rock around the mafics.	168.00	171.00	0	0	0	0.000	99	84.000	0	4
			At 178.5m there is a 1 cm stringer w/ chl-cal-ser and a 10cm wkly	171.00	174.00	0	0	0	0.000	99	87.000	0	4
			argillized envelope w/ no visible sulfides.	174.00	177.00	0	0	0	0.000	97	74.000	0	4
				177.00	180.00	0	1	0	0.000	91	64.000	0	4
				180.00	183.00	0	0	0	0.000	99	84.000	0	4
				183.00	186.00	0	0	0	0.000	93	44.000	0	4
				186.00	189.00	1	1	0	0.000	76	17.000	0	3
				189.00	192.00	1	1	0	0.000	63	13.000	0	3
				192.00	195.00	0	0	0	0.000	90	41.000	0	4
185	191	GUIC	F.g.-m.g Guichon qz diorite - this section has numerous chl-cal-ser										
			filled fractures; wk epidote min. and some wk argillization of plag.										
			Minor sulfides (mostly py) occur on fracture surfaces. The core is										
			badly broken w/ some lost core (see rec. 186-192m).										
191	300.84	GUIC	F.g.-m.g. Guichon qz diorite - slight greenish cast to plag. at start										
			of interval. Section has generally euhedral plag., wkly chloritized	195.00	198.00	0	0	0	0.000	99	77.000	0	4
			amphibole and biotite, minor interstitial qz, and accessory	198.00	201.00	1	1	0	0.000	99	49.000	0	3
			magnetite. There is only occ. wk propylitic alt. as chl-cal joint	201.00	204.00	0	1	0	0.000	99	71.000	0	4
			fillings and trace epidote. Rock is generally fresh and massive	204.00	207.00	0	0	0	0.000	97	79.000	0	4
			unless noted. From 198-201m is a segment with wkly argillized plag.	207.00	210.00	0	0	0	0.000	99	77.000	0	4
			and several chl-cal-epidote filled joints; from 223-224.5m is a low	210.00	213.00	0	0	0	0.000	95	66.000	0	4
			angle jt w/ chl and trace pyrite. No sulfides present except where	213.00	216.00	0	0	0	0.000	99	74.000	0	4
			noted. Small 7cm aplite dykelets at 247.7 and 271.3m Section from	216.00	219.00	0	0	0	0.000	98	65.000	0	4
			228-276m is very quiet; rock is massive w/ widespread clean joints.	219.00	222.00	0	0	0	0.000	93	71.000	0	4
			Some chlorite filled joints occur from 276m to the end of the hole w/	222.00	225.00	0	1	0	0.000	99	71.000	0	4
			occ. trace epidote. From 287-288.5m is a low angle structure (0-10	225.00	228.00	0	0	0	0.000	99	83.000	0	4
			deg.) w/ chlorite-epidote and some siliceous stringers and a wkly	228.00	231.00	0	0	0	0.000	99	75.000	0	4
			argillized halo; a similar structure at 15 deg. consisting of a 1cm	231.00	234.00	0	0	0	0.000	99	86.000	0	4

DIAMOND DRILL HOLE: G200416

Highland Valley Copper

08:14.54 03-02-2005

Geological Log

Hole: G200416
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From	To	Unit	Description	From	To	ARG	SER	KPR	Ba/Cp	Recov	% RQD	Hard	RxStr
			epid-chl-qz stringer w/ peripheral alt. occurs at 295.3m. There is	234.00	237.00	0	0	0	0.000	99	92.000	0	4
			also some wk sporadic propylitic alt. from 297m to the end of the	237.00	240.00	0	0	0	0.000	96	90.000	0	4
			hole. All these features from 285m are quite weak and contain no	240.00	243.00	0	0	0	0.000	99	91.000	0	4
			obvious sulfides.	243.00	246.00	0	0	0	0.000	95	84.000	0	4
				246.00	249.00	0	0	0	0.000	99	78.000	0	4
				249.00	252.00	0	0	0	0.000	98	85.000	0	4
			End of hole at 300.84m	252.00	255.00	0	0	0	0.000	98	82.000	0	4
			Note: SER column used to record intensity of propylitic alteration in	255.00	258.00	0	0	0	0.000	99	82.000	0	4
			this drill hole.	258.00	261.00	0	0	0	0.000	97	88.000	0	4
				261.00	264.00	0	0	0	0.000	99	81.000	0	4
				264.00	267.00	0	0	0	0.000	99	92.000	0	4
				267.00	270.00	0	0	0	0.000	97	77.000	0	4
				270.00	273.00	0	0	0	0.000	99	85.000	0	4
				273.00	276.00	0	0	0	0.000	99	81.000	0	4
				276.00	279.00	0	0	0	0.000	99	85.000	0	4
				279.00	282.00	0	0	0	0.000	98	82.000	0	4
				282.00	285.00	0	0	0	0.000	99	86.000	0	4
				285.00	288.00	1	1	0	0.000	99	52.000	0	3
				288.00	291.00	1	1	0	0.000	99	67.000	0	3
				291.00	294.00	0	0	0	0.000	97	88.000	0	4
				294.00	297.00	1	1	0	0.000	99	86.000	0	4
				297.00	300.00	0	1	0	0.000	96	57.000	0	4
				300.00	300.84	1	1	0	0.000	99	58.000	0	3

Highland Valley Copper

08:16:17 03-02-2005

Geological Log

Hole: G200418

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Section: Core Size: NQ Remarks: Drilled to test response from IP
 X (Easting, Dep.): 631600.000 Length: 306.020 survey on the Getty option west of
 Y (Northing, Lat.): 5404521.000 Collar Azimuth: 90.000 Woods Creek.
 Z (Elevation): 1402.000 Collar Dip: -70.000 NAD 83 coordinates.
 Date Collared: Nov. 2, 2004 CB Depth: 12.190
 Date Completed: Nov. 8, 2004 Logged By: L. Bond
 Date Logged: Nov. 19, 2004

DOWN HOLE SURVEYS:	Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
	175.560	90.000	-68.500	290.470	90.000	-66.500	0.000	0.000	0.000

From	To	Unit	Description	From	To	ARC	SR	KPR	Ba/Cp	Recov	% RQD	Hard	RkStr
0	12.19	CAS	Casing through overburden, sand, gravel, and boulders.										
12.19	67	NVOL	Altered Nicola Volcanics - intensely altered and silicified volcanic; intensely silicified in places down to 21m then less alt'd but still silicified. Some fine magnetite remains in less alt'd patches; poss. minor f.g. secondary green brown biotite noted sporadically in some less alt'd sections. The core is badly broken up and weathered w/ limonitic staining down to 30m. Rock has less than 1% diss. pyrite down to 33m. The core has a more mottled appearance after 36m w/ pyrite content up to 1-2% in places localized in darker patches. Some joints have chlorite-calcite fillings. A 50cm qz vein at 15 deg. to core axis occurs at 35m; some of the vein is shattered and healed w/ black siliceous stringers. From 54-55.2m is a qz-rich zone w/ thin qz-tour-py veinlets at 0-10 deg. to C.A. Overall this section is broken up w/ low RQD's due to intense jointing and small shears or sheared joints. From 66.4-67m core is cut by a shear at 20 deg. to C.A. w/ some gouge development.	12.19	15.00	0	0	0	0.000	57	5.000	0	3
				15.00	18.00	0	0	0	0.000	81	8.000	0	3
				18.00	21.00	0	0	0	0.000	78	8.000	0	3
				21.00	24.00	0	0	0	0.000	71	4.000	0	3
				24.00	27.00	0	0	0	0.000	61	13.000	0	3
				27.00	30.00	0	0	0	0.000	66	3.000	0	3
				30.00	33.00	0	0	0	0.000	91	20.000	0	4
				33.00	36.00	0	0	0	0.000	96	14.000	0	4
				36.00	39.00	0	0	0	0.000	99	19.000	0	4
				39.00	42.00	0	0	0	0.000	97	30.000	0	4
				42.00	45.00	0	0	0	0.000	99	23.000	0	4
				45.00	48.00	0	0	0	0.000	94	13.000	0	3
				48.00	51.00	0	0	0	0.000	98	9.000	0	3
				51.00	54.00	0	0	0	0.000	86	8.000	0	3
				54.00	57.00	0	0	0	0.000	96	20.000	0	3
67	163.6	NVOL	Altered Nicola Volcanics - silicified and metasomatized volcanics similar to the section above with weak foliation developed at times. Albite-quartz alteration zones have developed out from some fractures. The centers of these zones can be occupied by narrow (<2cm) vuggy qz and poss. tour veining, usually accompanied by some calcite, especially in vugs, and occ. chlorite. The qz in these veinlets can have a cockscomb structure and the tour. or black silica a bladed char. The veinlets can be accompanied by minor amounts of pyrite.	57.00	60.00	0	0	0	0.000	98	13.000	0	4
				60.00	63.00	0	0	0	0.000	85	22.000	0	3
				63.00	66.00	0	0	0	0.000	96	13.000	0	4
				66.00	69.00	0	0	0	0.000	99	5.000	0	3
				69.00	72.00	0	0	0	0.000	99	22.000	0	3
				72.00	75.00	0	0	0	0.000	94	41.000	0	3

Geological Log

From	To	Unit	Description	From	To	ARG	SEP	KFR	Bn/Cp	Recov	% RQD	Hard	RkStr
			Chlorite and chlorite-calcite veinlets and fracture fillings are also common. Pyrite occurs more often as diss. and blebs within the alt'd volcanics, favoring the remnant mafic patches and foliation bands.	75.00	78.00	0	0	0	0.000	99	59.000	0	4
			Overall pyrite content from 78-108m is less than 2%. Zones w/ more extensive qz and qz-alb veining occur from 89.9-91.5m, and from 98.8-100.1m. A patch of grey f.g. wkly alt'd volcanics was cut from 92.5-93m. From 121-132.7m, the rock is light grey and more qz-rich with a sucrosic fabric in places; this section seems more like an alt'd more siliceous segment of the original volcanics than a "felsic dyke" as alt. features such as foliation and qz-alb zones w/ qz-chl-cal-tour/silica veinlets are present here. The interval contains very little sulfides. After 132.7m the rock is f.g. grey-green metasomatized volcanic w/ darker chlorite rich patches with pyrite blebs and diss. to 140m. The rock becomes more siliceous again after 140m. From 132-150m the most prominent jointing and vuggy qz-cal-tour veining orientation is 20-30 deg. to C.A. There is an increase in sulfide content after 151.3m along w/ an increase in number of qz-alb zones w/ qz-tour-cal veinlets at orientations of 30-50 deg. to C.A. Specks of cpy present in veinlet at 154.7m along w/ some specularite. Overall sulfide content from 151-163.6m is approx. 3-4%.	78.00	81.00	0	0	0	0.000	99	76.000	0	3
				81.00	84.00	0	0	0	0.000	99	41.000	0	4
				84.00	87.00	0	0	0	0.000	94	24.000	0	3
				87.00	90.00	0	0	0	0.000	96	19.000	0	3
				90.00	93.00	0	0	0	0.000	93	8.000	0	3
				93.00	96.00	0	0	0	0.000	99	34.000	0	4
				96.00	99.00	0	0	0	0.000	85	30.000	0	3
				99.00	102.00	0	0	0	0.000	91	37.000	0	3
				102.00	105.00	0	0	0	0.000	98	39.000	0	3
				105.00	108.00	0	0	0	0.000	98	66.000	0	3
				108.00	111.00	0	0	0	0.000	97	20.000	0	3
				111.00	114.00	0	0	0	0.000	99	25.000	0	3
				114.00	117.00	0	0	0	0.000	99	36.000	0	3
				117.00	120.00	0	0	0	0.000	99	48.000	0	3
				120.00	123.00	0	0	0	0.000	99	29.000	0	3
				123.00	126.00	0	0	0	0.000	99	66.000	0	3
				126.00	129.00	0	0	0	0.000	99	51.000	0	3
				129.00	132.00	0	0	0	0.000	94	45.000	0	3
				132.00	135.00	0	0	0	0.000	98	25.000	0	3
				135.00	138.00	0	0	0	0.000	85	30.000	0	3
				138.00	141.00	0	0	0	0.000	95	21.000	0	3
				141.00	144.00	0	0	0	0.000	97	27.000	0	4
				144.00	147.00	0	0	0	0.000	93	45.000	0	4
				147.00	150.00	0	0	0	0.000	99	40.000	0	4
				150.00	153.00	0	0	0	0.000	99	52.000	0	3
				153.00	156.00	0	0	0	0.000	99	61.000	0	4
				156.00	159.00	0	0	0	0.000	99	60.000	0	4
				159.00	162.00	0	0	0	0.000	96	44.000	0	4
163.6	210.4	PX	Large Fault Zone at 20-25 deg. to C.A.; largely gouge and broken rock to 165m. Rock is strongly silicified; residual mafics are chloritized. Lots of chlorite-calcite fillings in joints and shears w/ some clay in stronger faults. Overall rock is generally silicified but there are less alt'd sections w/ more remnant chloritized mafic patches. Sulfides content is 1-3% as fine diss. and some veinlets. From 191-197m, the core is intensely faulted and consists mostly of gouge and fine crushed rock. Below 201m rock is	162.00	165.00	0	0	0	0.000	94	8.000	0	2
				165.00	168.00	0	0	0	0.000	84	4.000	0	2
				168.00	171.00	0	0	0	0.000	90	12.000	0	3
				171.00	174.00	0	0	0	0.000	97	11.000	0	2
				174.00	177.00	0	0	0	0.000	94	10.000	0	3
				177.00	180.00	0	0	0	0.000	68	8.000	0	2
				180.00	183.00	0	0	0	0.000	94	8.000	0	2

Geological Log

From	To	Unit	Description	From	To	ARG	SER	MFR	Bn/Cp	Recov	% RQD	Hard	RkStr
			weakly foliated at low angles to core axis (0-25 deg.) w/ minor fine diss. sulfides in the darker bands. There is intense faulting w/ gouge at 25 deg. from 207-210.4m.	183.00	186.00	0	0	0	0.000	98	18.000	0	2
				186.00	189.00	0	0	0	0.000	94	16.000	0	3
				189.00	192.00	0	0	0	0.000	92	7.000	0	2
				192.00	195.00	0	0	0	0.000	85	0.000	0	1
				195.00	198.00	0	0	0	0.000	90	0.000	0	1
				198.00	201.00	0	0	0	0.000	86	4.000	0	3
				201.00	204.00	0	0	0	0.000	95	12.000	0	3
				204.00	207.00	0	0	0	0.000	92	9.000	0	2
				207.00	210.00	0	0	0	0.000	81	0.000	0	1
210.4	240.6	NVOL	Alt'd Nicola Volcanics - light-grey, foliated, metasomatized volcanics from upper contact going to more massive, darker grey-green, f.g. volcanics after 215m w/only weakly developed foliation; poss. secondary f.g. brown biotite noted in places. Rock is intensely jointed w/ low RQD's and calcite-chlorite joint fillings. Sulfides up to 1-2% generally present as fine diss. in rock or in thin thread like stringers sometimes accompanied by qz and/or calcite. Fault cut from 221-222m at 15 deg. to C.A. w/ lots of chlorite-calcite gouge. Some amygdaloidal-like features were noted filled w/ white calcite. At 230m is a 2cm pyrite veinlet; at 232m is a 1cm wide qz-tour veinlet w/ cpy blebs. Below 228m, the rock is chloritized and saturated w/ calcite. At 234.6m is a 20cm fault at 35 deg. to C.A. w/ qz-cal-chl-py veining. Coming up to the lower contact the rock is badly broken up and alt'd ending in a strong fault contact at 25 deg. to C.A. at 240.6m.	210.00	213.00	0	0	0	0.000	96	4.000	0	2
				213.00	216.00	0	0	0	0.000	99	20.000	0	3
				216.00	219.00	0	0	0	0.000	99	24.000	0	3
				219.00	222.00	0	0	0	0.000	99	37.000	0	3
				222.00	225.00	0	0	0	0.000	99	34.000	0	3
				225.00	228.00	0	0	0	0.000	98	22.000	0	3
				228.00	231.00	0	0	0	0.000	99	34.000	0	3
				231.00	234.00	0	0	0	0.000	99	46.000	0	3
				234.00	237.00	0	0	0	0.000	99	0.000	0	3
				237.00	240.00	0	0	0	0.000	99	4.000	0	3
240.6	262.5	NVOL	Alt'd Nicola Volcanics - metasomatized, silicified, and foliated alt'd volcanics. Core is badly broken up w/ low angle jointing and shearing w/ chl-cal fillings. Generally weak sulfide content as. diss.; 10cm zone of pyrite stringers noted at 247.8m. Foliation fabric remains but rock is less alt'd w/ inclusions of f.g. grey-green volcanics from 255m to contact at 262.5m.	240.00	243.00	0	0	0	0.000	97	7.000	0	3
				243.00	246.00	0	0	0	0.000	99	6.000	0	3
				246.00	249.00	0	0	0	0.000	84	14.000	0	3
				249.00	252.00	0	0	0	0.000	99	21.000	0	2
				252.00	255.00	0	0	0	0.000	99	41.000	0	3
				255.00	258.00	0	0	0	0.000	98	33.000	0	3
				258.00	261.00	0	0	0	0.000	94	21.000	0	3
262.5	287.5	NVOL	Nicola Volcanics - f.g. darker grey-green volcanics - much less altered than previous intervals; weak (up to 1%) pyrite in hairline stringers, sometimes w/ minor epidote. Least alt'd sections are moderately to strongly magnetic. At 271.4m is a 12 cm shear at 60 deg. to C.A. followed by more strongly alt'd rock w/ higher pyrite	261.00	264.00	0	0	0	0.000	96	32.000	0	3
				264.00	267.00	0	0	0	0.000	94	37.000	0	3
				267.00	270.00	0	0	0	0.000	96	31.000	0	4
				270.00	273.00	0	0	0	0.000	99	35.000	0	4

DIAMOND DRILL HOLE: G200418

Highland Valley Copper

08:16:17 03-02-2005

Geological Log

Hole: G200418
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From	To	Unit	Description	From	To	ARG	SER	KPR	Bn/Cp	Recov	% RQD	Hard	RkStr
			content (1-2%). Interval from 278-281m is broken up and sheared. At 284.7m is a 40 cm fault w/ extensive gouge at 60 deg. to C.A.	273.00	276.00	0	0	0	0.000	96	34.000	0	4
				276.00	279.00	0	0	0	0.000	92	26.000	0	3
				279.00	282.00	0	0	0	0.000	98	9.000	0	2
287.5	306.2	NVOL	Alt'd Nicola Volcanics - predominantly metasomatized and foliated altered volcanics w/ small blocks of less alt'd f.g. grey-green volcanics. This section of core is extensively faulted w/ numerous faulted segments w/ strong chlorite-calcite gouge development. The faults are at 40 deg. to the core axis which is also the overall orientation of the foliation. The section has 1-2% sulfides as pyrite as disp. and preferentially sited within the darker more chloritic bands in the foliated rock.	282.00	285.00	0	0	0	0.000	99	32.000	0	3
				285.00	288.00	0	0	0	0.000	94	11.000	0	3
				288.00	291.00	0	0	0	0.000	96	5.000	0	2
				291.00	294.00	0	0	0	0.000	86	5.000	0	2
				294.00	297.00	0	0	0	0.000	93	6.000	0	3
				297.00	300.00	0	0	0	0.000	84	6.000	0	2
				300.00	303.00	0	0	0	0.000	56	4.000	0	3
				303.00	306.02	0	0	0	0.000	74	4.000	0	3

End of Hole at 306.02m

Geological Log

From	To	Unit	Description	From	To	ARC	SER	KPR	Bn/Cp	Recov	% RQD	Hard	RkStr
			to chlorite-calcite and clay gouge; diss. pyrite noted. Much ground up, broken, and lost core.	69.00	72.00	0	0	0	0.000	53	9.000	0	4
				72.00	75.00	0	0	0	0.000	55	0.000	0	1
				75.00	78.00	0	0	0	0.000	35	0.000	0	1
				78.00	81.00	0	0	0	0.000	88	6.000	0	1
81.5	165	NVOL	Altered Nicola Volcanics; light-grey f.g. silicified volcanics; weak foliation developed in places. Pyrite content increasing as diss. and veinlets. From 83.0-85.1m, the core is sheared and weakly argillized. Foliation in the rock is stronger from 91-107m, then the rock becomes more mass. grey and silicified with occ. remnant plagioclase phenos. Pyrite content is up to 1-3% in the more foliated rocks, and generally less than 1% in more mass. units. Magnetite content persists and pyrite often occurs in magnetite rich bands as well as with alt'd mafics. Rock can be intensely jointed and broken up w/ chi-cal joint fillings. Pyrite content up to 2% in the 120-123m interval. From 130 to 133m, there is an intensely chloritized, soft, altered segment w/ specularite hematite. Epidote noted after 160m.	81.00	84.00	0	0	0	0.000	80	6.000	0	3
				84.00	87.00	0	0	0	0.000	89	15.000	0	3
				87.00	90.00	0	0	0	0.000	60	0.000	0	3
				90.00	93.00	0	0	0	0.000	83	24.000	0	3
				93.00	96.00	0	0	0	0.000	99	18.000	0	3
				96.00	99.00	0	0	0	0.000	93	37.000	0	3
				99.00	102.00	0	0	0	0.000	96	48.000	0	3
				102.00	105.00	0	0	0	0.000	96	31.000	0	3
				105.00	108.00	0	0	0	0.000	99	29.000	0	3
				108.00	111.00	0	0	0	0.000	67	4.000	0	3
				111.00	114.00	0	0	0	0.000	30	0.000	0	3
				114.00	117.00	0	0	0	0.000	53	4.000	0	3
				117.00	120.00	0	0	0	0.000	72	5.000	0	3
				120.00	123.00	0	0	0	0.000	85	19.000	0	3
				123.00	126.00	0	0	0	0.000	54	4.000	0	3
				126.00	129.00	0	0	0	0.000	49	4.000	0	3
				129.00	132.00	0	0	0	0.000	49	4.000	0	2
				132.00	135.00	0	0	0	0.000	80	10.000	0	3
				135.00	138.00	0	0	0	0.000	83	21.000	0	4
				138.00	141.00	0	0	0	0.000	99	16.000	0	4
				141.00	144.00	0	0	0	0.000	99	21.000	0	3
				144.00	147.00	0	0	0	0.000	86	8.000	0	3
				147.00	150.00	0	0	0	0.000	49	0.000	0	3
165	168.6	PX	Strong Fault Zone at 40 deg. to core axis. Segment consists mostly of lost core and gouge.										
168.6	221.3	NVOL	Altered Nicola Volcanics - some light grey silicified segments interspersed with less altered volcanics with more remnant original volcanic features. Sporadic pyrite content; locally ranges up to 2-3%. The rock becomes a more mass. f.g. plagioclase rich volcanic after 186m; the mafics are chloritized with probable sec biotite present; slender hornblende laths were noted. Joint fillings are	150.00	153.00	0	0	0	0.000	90	14.000	0	4
				153.00	156.00	0	0	0	0.000	93	20.000	0	4
				156.00	159.00	0	0	0	0.000	86	16.000	0	4
				159.00	162.00	0	0	0	0.000	91	18.000	0	3
				162.00	165.00	0	0	0	0.000	59	4.000	0	3

Geological Log

From	To	Unit	Description	From	To	ARG	SER	KPR	Bu/Cp	Recov	% RQD	Hard	RkStr
			chlorite-calcite w/ some epidote. The unit is moderately to strongly magnetic. Pyrite content is generally 1% or less as diss. except for the 186-192m interval where pyrite content is up to 2-3%. From 215.7 to 218.5m, there several shears at 35 deg. to core axis.	168.00	171.00	0	0	0	0.000	94	20.000	0	3
				171.00	174.00	0	0	0	0.000	94	9.000	0	3
				174.00	177.00	0	0	0	0.000	92	18.000	0	3
				177.00	180.00	0	0	0	0.000	56	4.000	0	3
				180.00	183.00	0	0	0	0.000	42	0.000	0	3
				183.00	186.00	0	0	0	0.000	32	0.000	0	3
				186.00	189.00	0	0	0	0.000	67	11.000	0	3
				189.00	192.00	0	0	0	0.000	90	17.000	0	3
				192.00	195.00	0	0	0	0.000	96	22.000	0	4
				195.00	198.00	0	0	0	0.000	99	63.000	0	4
				198.00	201.00	0	0	0	0.000	99	66.000	0	4
				204.00	207.00	0	0	0	0.000	96	43.000	0	4
				207.00	210.00	0	0	0	0.000	96	70.000	0	4
				210.00	213.00	0	0	0	0.000	99	55.000	0	4
				213.00	216.00	0	0	0	0.000	98	27.000	0	3
221.3	247.4	NVOL	Altered Nicola unit - intensely silicified and albitized zone. Upper contact appears conformable w/ overlying unit. The rock is largely plagioclase and quartz w/ minor f.g. mafics. Rock color ranges from light grey to almost white in the most silicified segments; sporadic occurrences of poss K-spar patches noted in the intensely silicified section. Rare pyritic stringers occur but overall pyrite content is 1% or less as fine diss. Increment from 228.3 to 236m is faulted and broken up w/ gouge and lost core. Original rock may have been a more siliceous or felsic unit. The rock becomes more m.g. and weakly foliated after 242m. The interval from 244m to the lower contact at 247.4m is sheared and broken; lower fault orientation is at 40 deg. to core axis.	216.00	219.00	0	0	0	0.000	72	7.000	0	3
				219.00	222.00	0	0	0	0.000	99	64.000	0	3
				222.00	225.00	0	0	0	0.000	93	12.000	0	4
				225.00	228.00	0	0	0	0.000	97	8.000	0	4
				228.00	231.00	0	0	0	0.000	61	0.000	0	3
				231.00	234.00	0	0	0	0.000	83	0.000	0	3
				234.00	237.00	0	0	0	0.000	62	0.000	0	3
				237.00	240.00	0	0	0	0.000	69	9.000	0	4
				240.00	243.00	0	0	0	0.000	87	36.000	0	4
				243.00	246.00	0	0	0	0.000	88	50.000	0	3
				246.00	249.00	0	0	0	0.000	92	27.000	0	3
				249.00	252.20	0	0	0	0.000	97	80.000	0	4
247.4	252.2	NVOL	Nicola Volcanics; f.g.-m.g. grey-green wkly alt'd volcanics; massive w/ coarse jointing and chlorite-calcite joint fillings. Core is moderately to strongly magnetic. Only trace amounts of pyrite noted.										

End of Hole at 252.2m

Highland Valley Copper

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Geological Log

Hole: G200420
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Section: Core Size: NQ Remarks: DDH drilled on the Getty option west
 X (Easting, Dep.): 627633.000 Length: 298.640 of Coldstream Creek road to test IP
 Y (Northing, Lat.): 5608987.000 Collar Azimuth: 270.000 response from the 2004 survey.
 Z (Elevation): 0.000 Collar Dip: -50.000 Coordinates are NAD 83 datum.
 Date Collared: Nov. 17, 2004 OB Depth: 21.950
 Date Completed: Nov. 22, 2004 Logged By: L. Bond
 Date Logged: Nov. 30, 2004

DOWN HOLE SURVEYS: Depth Azimuth Dip Depth Azimuth Dip Depth Azimuth Dip
 289.380 270.000 -45.000 0.000 0.000 0.000 0.000 0.000 0.000

From	To	Unit	Description	From	To	ARG	SER	KFR	Ba/Cp	Recov	% RQD	Hard	RkStr
0	21.95	CAS	Casing through glacial boulder till overburden and broken rock.										
21.95	108.5	NVOL	Hornfelsed, metasomatized Nicola volcanics or volcanoclastics - lt-grey to grey-brown foliated rock consisting largely of grey silica and micaceous minerals. The rock is well jointed and broken up w/ chlorite-calcite joint fillings and some limonitic staining near subcrop. The foliation is probably after original volcanoclastic sedimentary features and textural variations of the altered rock likely reflect varying original compositions. More creamy-white siliceous bands were noted from 34.7-35.8m, 44-45.2m, and 47.5-48.8m. More brown biotite occurs in places after 51m which can give a purple-brown cast to the rock. Faulted and broken zone cut from 64.3-66m at 40 deg. to C.A. and accompanied by a bleached zone w/ some fault related argillic development. Also a smaller fault cut from 82-82.6m, again at 40 deg. to core axis w/ some argillized gouge. Sulfide content is less than 1% as fine diss. of pyrite; no magnetite present. In addition to brown biotite, there are tiny flecks of pale translucent micas which could be phlogopite/muscovite. The foliation persists below 81m but is more erratic and contorted; remnant mafics and biotite tend to congregate in darker bands alternating with qz-rich bands. Small faults and shears w/ gouge increase in frequency below 96m.	21.95	24.00	0	0	0	0.000	92	18.000	0	4
				24.00	27.00	0	0	0	0.000	86	4.900	0	4
				27.00	30.00	0	0	0	0.000	51	15.000	0	4
				30.00	33.00	0	0	0	0.000	90	8.000	0	4
				33.00	36.00	0	0	0	0.000	96	46.000	0	4
				36.00	39.00	0	0	0	0.000	98	31.000	0	4
				39.00	42.00	0	0	0	0.000	98	26.000	0	4
				42.00	45.00	0	0	0	0.000	87	23.000	0	4
				45.00	48.00	0	0	0	0.000	85	17.000	0	3
				48.00	51.00	0	0	0	0.000	72	10.000	0	3
				51.00	54.00	0	0	0	0.000	82	20.000	0	4
				54.00	57.00	0	0	0	0.000	98	23.000	0	3
				57.00	60.00	0	0	0	0.000	85	18.000	0	3
				60.00	63.00	0	0	0	0.000	92	29.000	0	4
				63.00	66.00	0	0	0	0.000	88	17.000	0	3
				66.00	69.00	0	0	0	0.000	54	0.000	0	3
				69.00	72.00	0	0	0	0.000	85	17.000	0	3
				72.00	75.00	0	0	0	0.000	78	28.000	0	3
				75.00	78.00	0	0	0	0.000	98	41.000	0	4
				78.00	81.00	0	0	0	0.000	97	18.000	0	4
				81.00	84.00	0	0	0	0.000	94	25.000	0	3
				84.00	87.00	0	0	0	0.000	99	36.000	0	4
				87.00	90.00	0	0	0	0.000	88	23.000	0	4
				90.00	93.00	0	0	0	0.000	96	26.000	0	3
				93.00	96.00	0	0	0	0.000	88	29.000	0	3

Geological Log

From	To	Unit	Description	From	To	ARG	SER	KPR	Bp/Cp	Recov	% RQD	Hard	RkStr
				96.00	99.00	0	0	0	0.000	91	25.000	0	3
				99.00	102.00	0	0	0	0.000	84	7.000	0	2
				102.00	105.00	0	0	0	0.000	92	28.000	0	4
				105.00	108.00	0	0	0	0.000	95	19.000	0	3
				108.00	111.00	0	0	0	0.000	94	18.000	0	1
108.5	136.8	FX	Zone with several strong faults with chlorite-calcite gouge, broken rock, lost core and minor diss. pyrite. Orientation of the faults where measurable is in the 50-60 deg. to core axis range. Rocks are predominantly altered, foliated rocks w/ hornfels grade metasomatism with alternating silica-rich and biotite/mafic-rich bands. Some short sections of f.g. more grey-green volcanics, apparently conformable w/ the metasediments, occur from 111.4-113.1m and 120.2-126m. This section ends in a bleached, argillized faulted zone; originally may have been a felsic rich horizon in the volcanics. Overall sulfide content less than 1%.	111.00	114.00	0	0	0	0.000	97	38.000	0	4
				114.00	117.00	0	0	0	0.000	78	18.000	0	4
				117.00	120.00	0	0	0	0.000	47	0.000	0	2
				120.00	123.00	0	0	0	0.000	83	4.000	0	2
				123.00	126.00	0	0	0	0.000	65	15.000	0	2
				126.00	129.00	0	0	0	0.000	68	14.000	0	3
				129.00	132.00	0	0	0	0.000	67	4.000	0	2
				132.00	135.00	0	0	0	0.000	85	13.000	0	2
				135.00	138.00	0	0	0	0.000	89	18.000	0	2
136.8	179.3	NVOL	Altered, metasomatized, Nicola rocks - may be slightly more silicic than previous sections w/ slightly higher sulfide content between 141 and 148m (1-3% py). This section is more massive with more grey-green alt'd volcanic intervals. There is still sign. secondary biotite and the rock has tight fine laminae defined by sec. biotite. A section of an apparent qz porphyritic unit is cut from 156.9-158.1m. A strong fault w/ gouge and some lost core was cut from 163.3-164.2m and has an orientation of 30-40 deg. to C.A. The core is more massive w/ higher RQD's; chlorite-calcite fillings on joint surfaces. Sulfide content as pyrite increases to 2% after 174m to 179m.	138.00	141.00	0	0	0	0.000	89	23.000	0	4
				141.00	144.00	0	0	0	0.000	91	22.000	0	3
				144.00	147.00	0	0	0	0.000	99	71.000	0	4
				147.00	150.00	0	0	0	0.000	90	50.000	0	3
				150.00	153.00	0	0	0	0.000	93	37.000	0	3
				153.00	156.00	0	0	0	0.000	99	51.000	0	3
				156.00	159.00	0	0	0	0.000	98	75.000	0	4
				159.00	162.00	0	0	0	0.000	99	54.000	0	4
				162.00	165.00	0	0	0	0.000	86	28.000	0	3
				165.00	168.00	0	0	0	0.000	97	15.000	0	3
				168.00	171.00	0	0	0	0.000	95	53.000	0	3
				171.00	174.00	0	0	0	0.000	94	47.000	0	3
179.3	213	NVOL	Altered Nicola volcanics - predominately darker grey-green more massive unit; mafics are strongly chloritized; some weak foliation or lamination features present. Coarsely jointed w/ chlorite-calcite joint fillings. Possible blebs of cpy w/ py in 3 cm qz-cal veinlet at 183.9m. From 190m-196m, the rock is a more silicified foliated metasediment w/ alternating qz-rich and brown biotite rich bands.	174.00	177.00	0	0	0	0.000	99	35.000	0	4
				177.00	180.00	0	0	0	0.000	99	40.000	0	3
				180.00	183.00	0	0	0	0.000	99	68.000	0	3
				183.00	186.00	0	0	0	0.000	90	40.000	0	3
				186.00	189.00	0	0	0	0.000	99	59.000	0	3

DIAMOND DRILL HOLE: G200420

Highland Valley Copper

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Geological Log

Hole: G200420
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From To Unit Description

From	To	ARG	SER	KPR	Bn/Cp	Recov	% RQD	Hard	EkStr
294.00	297.00	0	0	0	0.000	97	64.000	0	4
297.00	298.64	0	0	0	0.000	91	55.000	0	4

10.0 APPENDIX B

R04-15665	G04-SA 291-294	631	++	22	-4	2	193	-1	10	10	227	-2	46	+5	+5	55	+2	2	79	5	11	226	0.78	0.06	0.95	1.02	0.08	0.07	475	+10
R04-15666	G04-SA 294-297	2256	++	19	-4	-2	186	-1	12	10	252	8	58	+5	+5	48	+2	+2	46	5	10	277	0.84	0.02	1.1	0.97	0.07	0.12	487	+10
R04-15667	G04-SA 297-300	1345	++	18	-4	-2	95	-1	7	10	214	9	51	+5	+5	48	+2	+2	87	5	10	291	0.89	0.02	1.02	0.92	0.06	0.11	500	+10
R04-15668	G04-SA 300-303	1065	++	19	-4	-2	275	-1	7	7	256	26	49	+5	+5	22	-2	5	118	8	15	528	0.77	+0.1	1.21	2.36	0.05	0.21	525	+10
R04-15669	G04-SA 303-306	638	++	24	-4	-2	245	-1	10	8	235	5	43	+5	+5	34	-2	4	173	9	18	502	0.73	+0.1	1.11	2.82	0.06	0.17	502	+10
R04-15670	G04-SA 306-309	278	++	18	-4	-2	261	-1	6	4	142	6	42	+5	+5	14	-2	-2	224	8	11	344	0.31	+0.1	0.76	3.45	0.06	0.16	424	+10
R04-15671	G04-SA 309-312	148	++	13	-4	-2	230	-1	4	4	118	75	64	+5	+5	13	-2	4	214	7	15	278	0.3	+0.1	0.72	3	0.06	0.19	331	+10
R04-15672	G04-SA 312-315	168	++	13	-4	-2	544	-1	4	3	108	6	64	+5	+5	8	-2	3	175	7	15	242	0.28	+0.1	0.68	2.81	0.08	0.18	324	+10
R04-15673	G04-SA 315-318	167	++	18	-4	-2	293	-1	5	4	135	23	69	+5	+5	12	-2	2	180	9	18	284	0.31	+0.1	0.7	2.87	0.08	0.18	382	+10
R04-15674	G04-SA 318-321	185	++	21	-4	-2	443	-1	6	6	158	11	88	+5	+5	13	-2	3	215	8	18	378	0.24	+0.1	0.79	3.64	0.08	0.2	447	+10
R04-15675	G04-SA 321-324	89	++	24	-4	-2	312	-1	4	6	102	-2	36	+5	+5	11	-2	2	210	8	9	274	0.32	+0.1	0.87	3.88	0.08	0.21	482	+10
R04-15676	G04-SA 324-327	419	++	20	-4	-2	147	-1	7	7	179	-2	56	+5	+5	27	-2	3	276	9	18	333	0.43	+0.1	0.86	2.79	0.07	0.18	472	+10
R04-15677	G04-SA 327-330	140	++	19	-4	-2	92	-1	6	6	172	-2	38	+5	+5	31	-2	-2	268	8	8	311	0.48	+0.1	0.71	1.5	0.08	0.11	494	+10
R04-15678	G04-SA 330-333	84	++	27	-4	3	160	-1	7	5	155	-2	28	+5	+5	28	-2	2	283	8	12	306	0.32	+0.1	0.78	1.18	0.09	0.2	524	+10
R04-15679	G04-SA 333-336	135	++	22	-4	-2	168	-1	4	4	143	-2	27	+5	+5	30	-2	3	307	9	12	434	0.31	+0.1	0.78	2.08	0.09	0.23	537	+10
R04-15880	G04-SA 336-339	149	++	19	-4	-2	192	-1	4	8	14	-2	22	+5	+5	43	-2	2	327	8	14	341	0.47	0.01	0.93	1.56	0.1	0.37	438	+10
R04-15881	G04-SA 339-342	291	+	30	-4	5	217	-1	4	4	158	-2	25	+5	+5	48	-2	2	446	5	15	220	0.46	0.04	1.19	0.86	0.12	0.33	607	+10
R04-15882	G04-SA 342-345	14	++	30	-4	-2	244	-1	2	3	115	-2	28	+5	+5	37	-2	-2	348	3	16	175	0.2	0.06	0.8	2.48	0.12	0.24	838	+10
R04-15883	G04-SA 345-347	144	11	27	+4	3	288	-1	6	6	213	-2	35	+5	+5	16	-2	2	356	8	12	470	0.43	0.06	1.09	0.5	0.12	0.26	661	+10

ANALYTICAL METHOD

CP PACKAGE: 0.5 gram sample digested in hot reverse aqua regia (aqua regia) or hot Aqua Regia (aqua)

Au: Aqua regia decomposition; solvent extraction: AAS

Q004-07 LAB NO	FIELD NUMBER	Cu		Pb		Zn		Ag		As		Ba		Cd		Co		Cr		Mn		Ni		Mo		Cu		Pv		Sb		V		Fe		W		Si		Y		La		Mn		Mg		Tl		A		Ca		Na		K		P		Au									
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
R0436-56	G04-07-24	215	8	38	0.5	<2	77	<1	18	21	4.07	2	100	5	<5	72	5	3	81	11	17	878	1.34	0.01	2.32	4.2	0.04	0.37	770	<10																																							
R0436-57	G04-07-24-2T	337	4	17	<4	<2	66	<1	11	21	1.64	<2	111	<5	<5	67	2	2	51	10	17	885	1.86	<0.1	2	1.45	0.06	0.31	684	<10																																							
R0436-58	G04-07-27-30	80	<4	33	<4	<2	43	<1	16	23	3.25	2	170	<5	<5	75	<2	3	115	10	13	713	1.97	0.01	2.2	3.34	0.06	0.19	797	<10																																							
R0436-59	G04-07-30-33	171	7	40	<4	<2	28	<1	21	25	1.50	3	86	5	<5	72	<2	3	71	9	15	800	1.82	<0.1	2.21	2.52	0.06	0.19	792	<10																																							
R0436-60	G04-07-33-36	93	5	31	<4	<2	27	<1	19	19	2.43	4	88	<5	<5	86	<2	<2	68	7	11	532	1.16	0.1	1.44	2.12	0.07	0.1	673	<10																																							
R0436-61	G04-07-166-166	184	8	28	<4	<2	55	<1	18	17	3.41	<2	160	<5	<5	54	<2	3	67	13	21	581	0.75	0.03	1.66	1.68	0.07	0.4	537	<10																																							
R0436-62	G04-07-166-192	247	5	26	<4	<2	102	<1	13	11	2.88	2	124	<5	<5	71	<2	<2	67	13	24	463	0.81	0.09	1.56	1.58	0.06	0.29	531	<10																																							
R0436-63	G04-07-162-195	117	8	26	<4	2	70	<1	11	11	2.42	<2	134	<5	<5	71	<2	<2	64	17	17	429	0.81	0.15	1.42	1.26	0.06	0.22	568	<10																																							
R0436-64	G04-07-145-188	104	<4	28	<4	<2	61	<1	9	10	2.34	2	130	<5	<5	96	<2	2	41	12	26	314	0.88	0.23	1.14	1.13	0.11	0.2	585	<10																																							
R0436-65	G04-07-218-216	188	6	27	<4	<2	126	<1	18	11	3.23	2	127	<5	<5	55	<2	3	58	12	28	518	0.87	0.02	1.82	1.44	0.06	0.33	578	<10																																							
R0436-66	G04-07-218-219	147	<4	29	<4	<2	178	<1	13	12	2.73	<2	128	<5	<5	51	4	12	78	10	23	519	0.88	0.07	1.71	1.58	0.06	0.24	534	<10																																							
R0436-67	G04-07-219-222	77	7	30	<4	<2	84	<1	25	14	4.07	2	157	5	<5	41	<2	4	54	12	31	845	0.77	<0.1	1.88	1.32	0.03	0.38	518	<10																																							
R0436-68	G04-07-222-225	208	4	30	0.5	<2	145	<1	16	10	3.02	<2	145	<5	<5	47	<2	4	62	11	26	689	0.56	<0.1	1.41	1.98	0.04	0.32	519	<10																																							
R0436-69	G04-07-225-228	129	5	26	<4	<2	58	<1	13	9	2.49	<2	113	<5	<5	40	2	2	58	10	18	524	0.58	<0.1	1.29	1.68	0.04	0.26	494	<10																																							
R0436-70	G04-07-228-231	166	<4	17	<4	3	51	<1	13	12	2.58	2	128	<5	<5	48	<2	5	54	10	22	577	0.5	0.05	1.4	1.26	0.06	0.22	507	<10																																							
R0436-71	G04-07-231-234	158	<4	20	<4	<2	54	<1	16	13	3.32	3	141	6	<5	58	<2	5	48	12	42	545	0.68	0.03	1.88	1.12	0.06	0.39	547	<10																																							
R0436-72	G04-07-234-237	285	7	28	<4	<2	127	<1	18	13	3.41	18	125	9	<5	62	<2	2	49	12	29	492	0.88	0.02	1.52	1.45	0.06	0.28	542	<10																																							
R0436-73	G04-07-237-240	476	5	24	<4	1	168	<1	9	11	2.08	1	134	<5	<5	54	2	<2	83	18	29	393	0.82	0.04	1.09	1.36	0.08	0.19	568	<10																																							
R0436-74	G04-07-240-241	188	4	27	0.4	4	151	<1	13	11	2.78	<2	148	<5	<5	53	2	5	55	13	27	436	0.7	0.04	1.17	2.15	0.1	0.22	545	<10																																							
R0436-75	G04-07-243-244	188	4	22	<4	<2	127	<1	10	10	1.96	<2	134	<5	<5	70	<2	6	61	18	26	482	0.77	0.1	1.1	1.75	0.08	0.18	514	<10																																							
R0436-76	G04-07-246-249	1001	4	30	<4	5	215	<1	6	11	2	<2	128	<5	<5	60	2	2	67	14	27	480	0.73	0.05	1.12	2.14	0.08	0.2	544	<10																																							
R0436-77	G04-07-261-264	51	<4	27	<4	<2	537	<1	6	11	2.09	3	162	<5	<5	34	2	<2	65	18	28	514	0.68	<0.1	1.12	3	0.04	0.26	588	<10																																							
R0436-78	G04-07-264-267	4	<4	12	0.6	<2	1288	<1	5	5	1.22	5	130	<5	<5	26	<2	5	86	14	28	84.5	0.5	<0.1	0.74	4.78	0.04	0.28	484	<10																																							
R0436-79	G04-07-267-270	34	5	25	0.6	<2	451	<1	13	10	2.62	11	126	6	<5	47	<2	5	53	10	15	477	0.88	0.06	1.2	1.61	0.04	0.27	480	<10																																							

ANALYTICAL METHODS

ICP PATKARF - 0.5 gram sample digested in hot reverse acid regime for 160 or 180 min. Reg. 160/180.

A₀ - Average legal decomposition - solvent extraction - AAS.

G2004-8: No samples taken

G2864-08 L&S#	Date FIELD NUMBER	21-Oct-04																													
		Cu	Pb	Zr	Ag	As	Be	Cd	Co	Cr	Fe	Mn	Mo	Cl	Br	Sb	V	Sr	W	S-	Y	La	Am	Mg	Si	K	Ca	Ni	K	P	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	ppm
RC429679	GGA-08-176-159	21	<4	19	<4	5	26	<1	4	5	1.43	2	78	<5	5	30	<2	<2	19	3	<2	<2	191	0.35	0.68	0.99	0.06	0.13	232	<10	
RC429680	GGA-08-178-162	40	<4	28	<4	20	16	<1	4	8	1.66	1	86	<5	<5	39	<2	<2	13	4	8	134	0.3	0.39	0.64	0.33	0.07	0.12	218	<10	
RC429681	GGA-08-182-165	83	4	38	<4	41	37	<1	7	10	2.45	<2	55	<5	<5	58	<2	<2	34	5	8	135	0.36	0.34	0.62	0.61	0.06	0.15	427	<10	
RC429682	GGA-08-201-204	41	4	36	<4	12	38	<1	10	20	2.64	<2	50	<5	<5	88	<2	<2	52	2	<2	254	0.6	0.05	1.29	0.73	0.05	0.07	784	<10	
RC429683	GGA-08-204-207	35	<4	36	<4	3	15	<1	7	11	1.85	<2	57	<5	<5	33	<2	<2	30	6	7	173	0.48	0.01	0.69	0.37	0.07	0.06	330	<10	
RC429684	GGA-08-207-210	54	<4	15	<4	17	15	<1	2	8	1.32	1	80	<5	<5	70	3	1	15	9	<2	82	0.2	0.01	0.52	0.29	0.07	0.15	216	<10	
RC429685	GGA-08-210-213	34	<4	13	<4	15	21	<1	2	5	1.28	2	140	<5	<5	27	<2	<2	16	4	2	66	0.14	0.02	0.44	0.2	0.06	0.12	216	<10	
RC429686	GGA-08-213-216	44	<4	15	<4	10	18	<1	7	5	1.42	4	57	<5	<5	32	<2	<2	26	8	14	58	0.13	0.01	0.62	0.3	0.06	0.06	262	<10	
RC429687	GGA-08-218-219	38	<4	17	<4	12	38	<1	7	5	1.44	1	82	<5	7	37	<2	<2	32	8	13	67	0.17	0.01	0.58	0.25	0.06	0.12	250	<10	
RC429688	GGA-08-219-222	57	4	32	<4	31	21	<1	4	7	1.89	2	44	<5	7	35	<2	<2	30	8	2	78	0.22	0.01	0.78	0.33	0.06	0.1	322	<10	
RC429689	GGA-08-222-225	67	4	33	<4	32	21	<1	5	8	2.04	<2	40	<5	<5	50	<2	<2	31	9	16	83	0.22	0.01	0.78	0.35	0.06	0.13	426	<10	
RC429690	GGA-08-225-228	123	5	57	<4	18	22	<1	15	20	3.51	4	10	<5	<5	84	<2	<2	38	11	<2	334	1.08	0.04	1.36	0.71	0.06	0.12	677	<10	
RC429691	GGA-08-228-231	140	<4	52	<4	2	19	<1	19	20	2.99	2	77	<5	<5	88	<2	<2	31	7	<2	438	1.3	0.04	1.4	1.11	0.09	0.1	679	<10	
RC429692	GGA-08-231-234	145	5	27	<4	7	15	<1	5	8	1.57	2	67	<5	<5	30	<2	<2	17	4	<2	249	0.79	0.04	0.82	0.66	0.07	0.1	336	<10	
RC429693	GGA-08-234-237	130	8	33	<4	<2	13	<1	6	8	1.68	2	78	<5	<5	26	3	<2	24	6	5	345	0.77	0.06	1.27	2.34	0.07	0.12	399	<10	
RC429694	GGA-08-237-240	120	8	34	<4	<2	14	<1	7	11	1.88	<2	65	<5	<5	35	<2	<2	30	4	<2	358	0.81	0.04	1.17	1.53	0.08	0.08	460	<10	
RC429695	GGA-08-240-243	471	5	36	<4	1	11	<1	7	9	1.77	17	62	<5	<5	25	<2	<2	23	5	<2	395	0.64	0.01	1.2	1.62	0.07	0.1	450	<10	
RC429696	GGA-08-243-246	204	4	22	<4	2	17	<1	10	15	2.5	2	88	<5	<5	53	<2	<2	31	4	5	364	0.89	0.06	1.3	1.63	0.09	0.09	662	<10	
RC429697	GGA-08-245-248	125	<4	32	<4	2	31	<1	5	14	2.5	2	71	<5	<5	55	<2	<2	44	5	4	369	0.62	0.04	1.0	1.41	0.09	0.11	646	<10	
RC429698	GGA-08-248-251	158	<4	31	<4	7	48	<1	7	9	2.28	2	77	<5	<5	44	2	2	50	5	5	363	0.66	0.03	0.88	1.18	0.08	0.11	520	<10	
RC429699	GGA-08-252-255	257	<4	43	<4	7	17	<1	7	9	1.94	<2	91	<5	<5	36	<2	1	23	8	5	327	1.05	0.01	1.1	0.7	0.08	0.14	484	<10	
RC429700	GGA-08-256-258	189	4	43	<4	<2	14	<1	8	12	2.29	3	76	<5	<5	37	2	<2	28	8	5	414	0.69	0.01	1.09	1.19	0.07	0.13	498	<10	
RC429701	GGA-08-258-261	258	5	50	<4	<2	23	<1	13	22	2.94	4	84	<5	<5	50	2	<2	38	7	7	607	1.33	0.04	1.33	1.28	0.08	0.13	608	<10	
RC429702	GGA-08-270-282	133	<4	41	<4	<2	33	<1	11	16	2.68	<2	82	<5	<5	57	<2	2	54	5	5	340	0.91	0.03	1.48	1.74	0.1	0.1	628	<10	
RC429703	GGA-08-282-285	106	5	37	<4	<2	28	<1	9	14	2.52	<2	73	<5	<5	50	<2	<2	55	3	3	398	0.86	0.04	1.36	1.22	0.09	0.11	638	<10	
RC429704	GGA-08-285-288	688	4	40	<4	<2	19	<1	10	15	2.59	<2	58	<5	<5	54	<2	3	44	3	12	458	1	0.03	1.34	1.35	0.06	0.1	615	<10	
RC429705	GGA-08-288-291	300	5	40	<4	<2	16	<1	9	13	2.31	<2	59	<5	<5	41	<2	<2	34	5	11	437	0.87	0.01	1.22	1.26	0.07	0.1	512	<10	

ANALYTICAL METHODS

ICP PACKAGE 0.5 gram sample digested in hot reverse aqua regia (see file) or hot Aqua Regia (stock)

Au: Aqua regia decomposition solvent extraction / AAS

G2004-10: No samples taken

G2004-11: No samples taken

Q2804-11A	Date	18-Nov-04																												
LAB NO	FILE ID NUMBER	Cu	Pb	Zn	Ag	As	Ba	Ca	Co	Ni	Fe	Mn	Cr	Bu	Su	V	Sr	W	Si	Y	La	Nb	Mg	T	Zr	Ce	Na	K	P	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	ppm	ppm
R04M13	004-11A-200-R204	47	+4	12	+4	4	72	+1	7	7	2.21	+2	92	-5	+5	62	2	<2	15	3	15	193	0.47	0.07	0.81	0.62	0.06	0.19	658	+13
R04M14	004-11A-201-211	27	+4	19	+4	+2	65	+1	7	6	1.86	2	64	-5	+5	45	+2	<2	77	4	12	240	0.46	0.06	0.82	0.83	0.06	0.14	565	+10
R04M15	004-11A-201-240	23	+4	17	+4	2	136	+1	6	4	1.78	2	61	-5	+5	47	+2	3	26	3	13	267	0.53	0.06	0.86	0.94	0.06	0.15	544	+10
R04M16	004-11A-241-246	18	4	21	+4	+2	130	+1	7	5	1.89	+2	71	-5	+5	45	+2	<2	36	4	10	255	0.61	0.08	1.02	1.08	0.07	0.08	548	+10
R04M17	004-11A-246-249	35	+4	34	+4	+2	54	+1	7	5	1.89	2	68	-5	+5	49	2	<2	45	4	12	244	0.57	0.06	0.91	0.93	0.06	0.1	588	+10
R04M18	004-11A-252-255	42	+4	16	+4	4	171	+1	7	5	1.84	3	64	-5	+5	47	+2	<2	49	5	12	276	0.6	0.06	1.06	1.18	0.06	0.08	618	+10
R04M19	004-11A-267-270	6	+4	14	+4	2	106	+1	8	4	1.89	2	66	-5	+5	30	+2	<2	67	5	15	201	0.62	0.02	1.45	1.54	0.1	0.1	544	+10
R04M50C	004-11A-270-273	6	5	12	+4	4	353	+1	8	4	1.57	3	46	-5	+5	45	4	<2	154	5	16	207	0.54	0.02	2.21	1.99	0.18	0.2	511	+10
R04M50Y	004-11A-285-288	10	+4	8	+4	3	79	+1	8	5	1.77	+2	51	-5	+5	37	+2	<2	44	4	8	288	0.56	0.03	0.9	0.8	0.06	0.1	563	+10

ANALYTICAL METHODS

ICP PACKAGE: 0.5 gram sample digested in hot reverse aqua regia (50:50) or hot Aqua Regia (10:1)

Au: Aqua regia decomposition - solvent emission / AAS

G2004-12 JOB NO	G04 FIELD NUMBER	* NOV 2004		Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cl ppm	B ppm	Sb ppm	V ppm	Sn ppm	W ppm	Si ppm	Y ppm	La ppm	Mn %	Al %	Ti %	Al %	Ca %	Na %	K %	P ppm	Cu ppm	
		Cu ppm	Pb ppm																												
R0432420	G04-12 179 7-183	35	8	34	<4	6	28	<1	8	8	187	<2	78	<5	<5	28	<2	<2	59	7	10	370	0.81	0.01	1.05	0.87	0.28	0.05	588	<10	
R0432424	G04-12 183 186	<1	<4	18	<4	3	77	<1	8	6	184	<2	87	<5	<5	20	<2	<2	80	7	13	372	0.56	0.03	1.07	1.35	0.08	0.06	584	<10	
R0432425	G04-12 186 189	17	7	25	<4	<2	31	<1	8	5	189	<2	65	<5	<5	14	<2	<2	88	8	15	479	0.84	<0.01	1.34	2.15	0.1	0.06	585	<10	
R0432426	G04-12 189 192	29	8	37	<4	3	25	<1	5	8	145	<2	45	<5	<5	8	<2	<2	133	8	9	354	0.79	<0.01	1.7	1.98	0.09	0.1	613	<10	
R0432427	G04-12 192 195	<1	8	30	<4	2	18	<1	5	7	142	<2	86	<5	<5	20	<2	<2	145	8	17	463	0.95	<0.01	1.41	2.25	0.08	0.08	606	<10	
R0432428	G04-12 195 198	<1	7	28	<4	6	47	<1	5	7	152	<2	62	<5	<5	13	<2	<2	166	10	20	495	0.93	<0.01	2.09	2.27	0.1	0.06	654	<10	
R0432429	G04-12 198 201	12	7	26	<4	9	154	<1	4	6	141	<2	55	<5	<5	12	<2	<2	153	8	17	411	0.82	<0.01	2.18	2.45	0.1	0.1	581	<10	
R0432430	G04-12 201 204	<2	7	65	<4	8	72	<1	7	5	147	<2	55	<5	<5	7	<2	<2	179	7	11	498	0.79	<0.01	2.1	1.78	0.09	0.15	575	<10	
R0432431	G04-12 204 207	<28	7	26	<4	9	154	<1	4	6	141	<2	55	<5	<5	12	<2	<2	146	8	14	443	0.85	<0.01	1.62	2.08	0.06	0.06	557	<10	
R0432432	G04-12 207 210	21	4	<4	<4	6	46	<1	7	4	184	<2	47	<5	<5	36	<2	<2	45	5	11	236	0.57	0.05	1.12	1.88	0.08	0.28	606	<10	
R0432433	G04-12 210 213	3	4	<3	<4	5	54	<1	8	5	197	<2	62	<5	<5	42	<2	<2	48	4	8	213	0.52	0.07	1.99	1.55	0.14	0.12	682	<10	
R0432434	G04-12 213 216	<1	4	28	<4	3	27	<1	7	5	175	<2	63	<5	<5	25	<2	<2	76	5	10	257	0.7	0.03	1.15	1.34	0.09	0.25	582	<10	
R0432435	G04-12 216 219	<1	5	15	<4	7	76	<1	8	5	183	<2	70	<5	<5	11	<2	<2	4	5	8	195	0.55	0.07	1.08	1.29	0.1	0.27	587	<10	
R0432436	G04-12 219 222	<1	4	23	<4	8	109	<1	7	8	203	<2	68	<5	<5	32	<2	<2	7	8	5	241	0.85	0.06	1.51	1.45	0.13	0.11	649	<10	
R0432437	G04-12 222 225	<1	<4	22	<4	5	45	<1	7	6	211	<2	64	<5	<5	46	<2	<2	5	5	4	195	0.64	0.09	1.24	1.1	0.11	0.27	672	<10	
R0432438	G04-12 225 228	2	<4	86	<4	2	56	<1	8	7	15	<2	72	<5	<5	25	<2	<2	135	4	8	408	0.64	0.04	1.25	2.08	0.13	0.1	612	<10	
R0432439	G04-12 228 231	>	4	64	<4	<2	96	<1	8	6	15	<2	77	<5	<5	21	<2	<2	131	8	19	418	0.73	0.01	1.37	2.1	0.11	0.11	607	<10	
R0432440	G04-12 231 234	<1	6	42	<4	<2	123	<1	7	6	145	<2	70	<5	<5	19	<2	<2	5	11	7	399	0.74	<0.01	1.61	2.2	0.12	0.13	513	<10	
R0432441	G04-12 234 237	9	4	42	<4	<2	57	<1	7	6	147	<2	89	<5	<5	19	<2	<2	30	8	11	254	0.68	<0.01	1.07	1.49	0.1	0.11	521	<10	
R0432442	G04-12 242 245	<1	4	25	<4	5	260	<1	6	7	141	<2	61	<5	<5	7	<2	<2	8	188	5	17	288	0.63	0.02	1.27	1.97	0.09	0.14	655	<10
R0432443	G04-12 245 248	1	4	22	<4	<2	61	<1	6	5	16	<2	69	<5	<5	13	<2	<2	4	101	4	10	239	0.59	0.05	1.18	1.43	0.09	0.08	549	<10

ANALYTICAL METHODS

GP PACKAGE: 0.5 gram sample digested in hot nitric acid (per EPA) or hot Aqua Regia (per AAS)

AAS: Aqua Regia digestion; solvent extraction: AAS

G2004-14: No samples taken

G2664-18 LAB NO	Date FIELD NUMBER	4 NOV 2006																												
		Cu	Pb	Zn	Ag	As	Ba	Ca	Co	Ni	Fe	Mn	Cr	B	Sb	V	Sn	W	Si	Y	La	Mh	Mg	Ti	Al	Ce	Na	K	P	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	ppm	ppb
R0432403	G04-16-124-5-12T	51	9	71	<4	50	208	1	20	88	4	4	36	<5	<5	98	<2	<2	133	12	39	724	2.48	0.17	2.4	2.85	0.21	0.3	877	<10
R0432404	G04-16-127-129 T	117	10	80	<4	30	257	1	20	88	4	4	36	<5	<5	98	<2	<2	133	12	39	724	2.48	0.17	2.4	2.85	0.21	0.3	1166	<10
R0432405	G04-16-129-7-132	38	5	30	<4	<2	66	<1	7	7	2.3	2	16	<5	<5	41	<2	<2	36	5	9	290	0.57	0.07	1.38	1.11	0.08	0.18	824	<10
R0432406	G04-16-132-135	43	5	30	<4	<2	77	<1	6	8	2.15	<2	38	<5	<5	42	<2	<2	36	3	6	265	0.55	0.1	1.14	0.96	0.11	0.17	570	<10
R0432407	G04-16-135-138	34	<4	17	<4	<2	87	<1	6	5	2	<2	35	<5	<5	42	<2	<2	26	4	1	219	0.42	0.11	0.94	0.96	0.08	0.18	548	<10
R0432408	G04-16-141-144	20	<4	20	<4	<2	100	<1	5	4	2.03	<2	34	<5	<5	42	<2	<2	34	4	7	271	0.48	0.11	1.14	1.15	0.08	0.18	544	<10
R0432409	G04-16-153-156	33	<4	25	<4	<2	125	<1	6	5	1.97	3	34	<5	<5	51	<2	<2	34	4	4	238	0.43	0.1	0.91	0.84	0.09	0.18	544	<10
R0432410	G04-16-177-180	9	<4	21	<4	3	75	<1	6	5	2.03	3	72	<5	<5	48	<2	<2	33	4	5	222	0.41	0.09	1.15	1.28	0.08	0.15	568	<10
R0432411	G04-16-153-186	35	4	22	<4	7	85	<1	6	5	2.07	2	70	<5	<5	40	<2	<2	35	1	7	220	0.54	0.09	1.15	0.98	0.08	0.11	540	<10
R0432412	G04-16-198-189	37	4	25	<4	17	57	<1	7	5	2.02	2	85	<5	<5	38	<2	<2	60	4	2	245	0.66	0.07	1.14	0.72	0.08	0.09	772	<10
R0432413	G04-16-199-192	36	<4	23	<4	11	77	<1	6	8	2.14	<2	85	<5	<5	48	<2	<2	47	4	12	253	0.62	0.1	1.06	0.72	0.08	0.12	602	<10
R0432414	G04-16-148-201	65	5	35	<4	5	91	<1	6	8	2.21	<2	85	<5	<5	45	<2	<2	66	4	2	230	0.67	0.11	1.25	0.89	0.08	0.1	574	<10
R0432415	G04-16-201-204	12	<4	23	<4	3	45	<1	6	5	2.24	7	72	<5	<5	45	<2	<2	28	7	10	236	0.5	0.08	1.17	1.21	0.08	0.1	568	<10
R0432416	G04-16-222-225	22	<4	20	<4	4	124	<1	3	5	1.88	7	80	<5	<5	70	<2	<2	29	4	5	212	0.44	0.11	0.94	0.89	0.08	0.18	534	<10
R0432417	G04-16-255-268	65	7	29	<4	4	187	<1	4	4	1.88	3	74	<5	<5	34	<2	<2	55	5	9	257	0.55	0.25	1.2	0.92	0.09	0.08	536	<10
R0432418	G04-16-258-261	68	<4	30	<4	4	56	<1	4	4	2.11	7	80	<5	<5	44	<2	<2	58	5	9	296	0.53	0.27	1.26	1.37	0.09	0.1	541	<10
R0432419	G04-16-261-264	7	<4	25	<4	<2	78	<1	1	5	2.21	<2	80	<5	<5	48	<2	<2	29	5	10	274	0.44	0.13	1.26	1.37	0.08	0.1	561	<10
R0432420	G04-16-264-267	44	<4	29	<4	2	120	<1	4	5	2.07	<2	86	<5	<5	41	<2	<2	67	4	8	307	0.56	0.12	1.38	1.51	0.1	0.1	551	<10
R0432421	G04-16-267-300	28	4	27	<4	<2	59	<1	1	4	1.80	3	70	<5	<5	41	<2	<2	31	1	8	259	0.45	0.1	1.12	1.11	0.08	0.09	532	<10
R0432422	G04-16-300-300 N	12	<4	28	<4	4	52	<1	6	6	1.97	<2	66	<5	5	32	<2	<2	26	5	9	319	0.58	0.28	1.26	1.28	0.11	0.12	537	<10

ANALYTICAL METHODS

ICP PACKAGE: 0.5 gram sample digested in nitric/perchloric acid; analyzed by Aqueous Repetition

Au: Aqueous decomposition - solvent extraction/ALS

Q2004-10 LAB NO	Date FIELD NUMBER	27 Jan 05																												
		Cu	Pb	Zn	Ag	Au	Ba	Cd	Co	Cr	Fa	Mn	Pb	Bi	Se	V	Sr	W	Sr	Y	Zn	Mn	Ug	Ti	Al	Ca	Na	K	P	A.
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
R0500321	G04-1916-48-18	72	10	25	<4	<2	63	<1	20	3	7.75	<2	58	7	<5	168	2	<2	22	5	<2	222	1.25	0.07	1.8	0.43	0.09	0.21	664	<10
R0500322	G04-1916-21	116	5	20	<4	<2	48	<1	22	4	7.75	<2	45	<5	<5	141	<2	<2	20	5	<2	158	0.60	0.05	1.53	0.55	0.05	0.23	787	<10
R0500323	G04-1921-24	54	5	21	<4	<2	28	<1	17	4	8.95	3	35	<5	<5	167	<2	<2	8	8	<2	154	0.85	0.07	1.23	0.80	0.05	0.12	897	<10
R0500324	G04-1924-27	118	4	27	<4	<2	27	<1	23	9	8.85	<2	32	8	<5	346	<2	<2	15	6	4	243	1.09	0.05	1.71	1.05	0.05	0.13	572	<10
R0500325	G04-1927-30	201	4	44	<4	<2	25	1	27	3	10.88	<2	15	13	<5	415	<2	<2	11	7	<2	343	1.34	0.13	2.21	0.97	0.05	0.19	580	<10
R0500326	G04-1935-33	113	4	18	<4	<2	24	<1	20	7	8.84	<2	25	15	<5	450	<2	<2	20	4	<2	149	0.80	0.05	1.52	0.95	0.11	0.14	607	<10
R0500327	G04-1935-35	80	4	33	<4	<2	43	<1	15	4	7.25	<2	40	7	<5	176	<2	<2	16	7	<2	201	1.43	0.1	1.75	0.71	0.05	0.25	813	<10
R0500328	G04-1935-39	143	4	28	<4	<2	51	<1	20	4	6.85	2	43	7	<5	168	<2	<2	27	6	<2	312	1.25	0.05	1.95	0.85	0.1	0.17	795	<10
R0500329	G04-1934-42	40	5	31	<4	<2	23	<1	14	1	4.31	1	21	<5	<5	65	<2	<2	15	8	<2	258	1.26	0.02	1.54	0.49	0.05	0.13	436	<10
R0500330	G04-1947-45	15	4	18	<4	<2	12	<1	2	1	3.02	<2	48	<5	<5	39	<2	<2	15	8	5	225	0.8	0.02	0.87	0.5	0.05	0.07	371	<10
R0500331	G04-1978-81	22	4	21	<4	<2	8	<1	14	4	4.05	<2	28	<5	<5	92	<2	<2	28	5	<2	258	0.87	<0.1	1.26	0.19	0.04	0.07	275	<10
R0500332	G04-1981-84	21	<4	15	<4	<2	15	<1	10	4	3.25	<2	38	<5	<5	123	<2	<2	22	5	2	254	0.41	0.01	0.7	0.85	0.07	0.03	393	<10
R0500333	G04-1984-87	28	<4	12	<4	<2	6	<1	8	3	3.21	<2	42	5	<5	112	<2	<2	25	8	5	234	0.30	0.01	0.85	0.91	0.07	0.04	321	<10
R0500334	G04-1987-90	31	<4	17	<4	<2	15	<1	10	4	3.02	<2	42	<5	<5	114	<2	<2	11	7	<2	171	0.27	0.02	0.55	0.57	0.07	0.03	341	<10
R0500335	G04-1990-93	65	<4	14	<4	<2	19	<1	20	7	3.22	<2	30	<5	<5	105	<2	<2	7	5	<2	171	0.53	0.05	0.71	0.47	0.05	0.05	321	<10
R0500336	G04-1939-96	15	<4	12	<4	<2	25	<1	7	4	3.52	<2	42	5	<5	125	<2	<2	4	5	2	149	0.53	0.05	0.80	0.33	0.05	0.14	319	<10
R0500337	G04-1995-99	75	<4	16	<4	<2	25	<1	16	7	3.5	<2	59	<5	<5	125	<2	<2	7	6	<2	142	0.81	0.05	0.94	0.55	0.05	0.15	319	<10
R0500338	G04-19120-123	45	<4	21	<4	<2	19	<1	10	1	2.87	<2	32	<5	<5	35	<2	<2	8	8	<2	151	0.45	0.03	0.73	0.21	0.05	0.14	369	<10
R0500339	G04-19174-177	41	5	42	<4	<2	58	<1	11	3	3.87	<2	61	5	<5	10	<2	<2	1	7	<2	178	1.55	0.07	1.47	0.32	0.07	0.41	271	<10
R0500340	G04-19177-180	43	<4	38	<4	<2	73	<1	14	3	2.95	<2	75	<5	<5	62	9	<2	8	8	<2	308	1.53	0.05	1.58	0.45	0.07	0.59	239	<10
R0500341	G04-19185-189	38	<4	59	<4	<2	331	<1	9	3	3.95	<2	55	<5	<5	81	<2	<2	8	7	<2	429	1.27	0.11	1.29	0.33	0.09	0.67	351	<10
R0500342	G04-19189-192	16	<4	44	<4	<2	125	<1	11	2	4.23	<2	50	<5	<5	84	<2	<2	8	4	3	388	1.28	0.05	1.23	0.54	0.09	0.2	348	<10

ANALYTICAL METHODS

ICP PACKAGE: 0.5 gram sample digested in hot reverse flow HCl (30-50% of hot Acid Reg. protocol)

Au: Aquadag-34 composition / solution 401610011 AAS

LAB NO	Date	FILE NUMBER	Cv	Pp	Zr	Ag	As	Ba	Cd	Co	Cr	Fe	Mn	Cl	Br	Sr	V	Sn	W	Sr	Y	La	Ce	Pr	Nd	P	Au		
	27-Jan-05		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
H07003A	504-20 141 144	90	7	92	+4	15	41	-4	12	3.61	+2	50	+5	+5	83	+2	-2	15	7	-2	643	1.68	0.1	1.26	0.43	0.08	0.17	964	<10
H07003AA	504-20 144-147	90	10	50	+4	21	33	+1	26	3.37	+2	35	+5	+5	108	+2	+2	17	4	-2	417	1.91	0.11	2.35	2.76	0.06	0.24	627	<10
H07003AA	504-20 147-150	7	8	120	+4	+2	127	+1	3	5.08	+2	59	+5	+5	96	+2	+2	5	12	-2	1004	2.87	0.2	2.65	0.57	0.06	0.64	673	<10
H07003AA	504-20 174-177	13	14	37	+4	+2	181	+1	3	3.35	+2	55	+5	+5	54	2	+2	25	11	-2	783	1.88	0.23	2.39	0.25	0.11	0.85	600	<10
H07003AA	504-20 177-180	40	5	65	+4	13	20	+1	13	8	+2	42	+5	+5	66	+2	+2	6	10	-2	415	1.84	0.12	1.41	0.96	0.06	0.16	726	<10
R050034B	504-20 180-183	41	6	63	+4	+2	23	+1	19	25	+2	36	+5	+5	100	+2	+2	13	2	-2	694	2.13	0.1	1.06	2.38	0.13	0.14	514	<10
R050034B	504-20 183-186	1198	7	67	+4	+2	27	+1	22	11	+2	32	+5	+5	127	+2	+2	11	8	-2	760	2.72	0.16	1.36	2.24	0.06	0.18	547	<10
R0500350	504-20 186-189	77	8	66	+4	+2	27	+1	25	24	+2	42	+5	+5	161	+2	+2	12	4	-2	689	3.48	0.18	2.65	1.96	0.07	0.22	643	<10
R0500351	504-20 189-192	21	6	98	+4	+2	111	+1	11	5	+2	28	+5	+5	122	+2	+2	10	14	-2	684	2.58	0.24	2.42	0.75	0.06	0.17	815	<10
R0500352	504-20 192-195	16	4	72	+4	+2	76	+1	4	3	+2	33	+5	+5	45	+2	+2	7	13	-2	644	2.18	0.14	2.28	0.33	0.04	0.64	740	<10
R0500353	504-20 196-198	20	14	72	+4	+2	19	+1	7	11	+2	41	+5	+5	43	2	-2	5	15	-2	403	1.24	0.1	1.27	0.66	0.06	0.27	1078	<10
R0500354	504-20 201-204	13	14	63	+4	+2	21	+1	8	11	+2	23	+5	+5	34	2	-2	3	12	-2	709	0.78	0.12	0.8	0.77	0.1	0.34	889	<10
R0500355	504-20 204-207	6	14	66	+4	+2	18	+1	4	15	+2	54	+5	+5	42	+2	+2	5	15	5	333	1.38	0.14	1.23	0.49	0.06	0.43	986	<10
R0500356	504-20 207-210	8	14	92	+4	2	61	+1	9	1	+2	59	+5	+5	41	+2	+2	15	8	-2	685	1.17	0.12	1.37	0.28	0.08	0.54	376	<10
R0500357	504-20 210-213	7	14	63	+4	1	43	+1	9	1	+2	93	+5	+5	20	+2	+2	9	13	8	678	1.31	0.12	1.43	0.33	0.06	0.18	236	<10
R0500358	504-20 224-227	7	14	74	+4	+2	130	+1	3	2	+2	277	+5	+5	35	+2	+2	5	8	4	694	1.12	0.05	1.35	0.25	0.07	0.29	257	<10
R0500359	504-20 227-240	10	14	65	+4	2	115	+1	3	2	+2	265	+5	+5	45	+2	+2	10	8	5	632	1.1	0.11	1.37	0.37	0.08	0.17	181	<10
R0500360	504-20 240-243	5	4	97	+4	+2	92	+1	5	4	+2	36	+5	+5	47	+2	+2	21	12	+2	665	1.4	0.11	1.92	0.43	0.08	0.14	436	<10
R0500361	504-20 243-246	5	14	60	+4	+2	20	+1	8	5	+2	92	+5	+5	54	+2	+2	22	10	11	546	1.78	0.15	1.86	0.33	0.07	0.17	645	<10
R0500362	504-20 246-249	2	14	67	+4	+2	15	+1	6	4	+2	44	+5	+5	44	+2	+2	11	12	12	747	1.73	0.16	1.74	0.39	0.05	0.41	655	<10
R0500363	504-20 249-252	23	14	77	+4	+2	59	+1	5	4	+2	244	+5	+5	60	+2	+2	17	7	10	546	1.17	0.16	1.65	0.71	0.07	0.48	677	<10
R0500364	504-20 252-255	8	14	68	+4	2	24	+1	2	17	+2	73	+5	+5	24	+2	+2	7	4	12	585	0.87	0.17	1.21	0.13	0.05	0.37	121	<10
R0500365	504-20 255-258	5	5	71	+4	28	14	+4	4	1	+2	271	+5	+5	23	+2	+2	9	10	14	158	0.66	0.09	0.94	0.45	0.05	0.17	169	<10
R0500366	504-20 258-261	26	5	68	+4	32	14	+4	8	5	+2	45	+5	+5	66	+2	+2	9	13	4	735	1.42	0.11	1.63	0.66	0.04	0.19	496	<10
R0500367	504-20 261-264	10	4	42	+4	16	1	+4	5	4	+2	275	+5	+5	76	+2	+2	10	10	4	451	0.47	0.1	1.06	2.29	0.05	0.07	520	<10
R0500368	504-20 264-267	5/7	14	48	+4	7	12	+1	12	4	+2	431	+5	+5	188	+2	+2	10	6	6	605	0.24	0.24	2.13	1.41	0.06	0.22	511	<10
R0500369	504-20 267-270	25	5	36	+4	5	38	+1	13	5	+2	182	+5	+5	119	+2	+2	12	6	4	734	1.34	0.21	1.92	1.2	0.07	0.46	415	<10
R0500370	504-20 270-273	10	4	68	+4	8	58	+1	10	3	+2	441	+5	+5	97	+2	+2	9	8	17	693	1.49	0.13	1.66	0.77	0.04	0.42	310	<10
R0500371	504-20 273-276	41	7	34	+4	2	5	+1	12	25	+2	165	+5	+5	66	+2	+2	10	5	8	500	1.48	0.09	1.7	1.61	0.05	0.07	262	<10

ANALYtical METHOD
ICP PACKAGE 0.5 gram sample digested in hot reverse aqua regia (vol 10) in hot Aqua Regia (vol 10)
Au: Aqua regia decomposer / solvent extractor / AAS

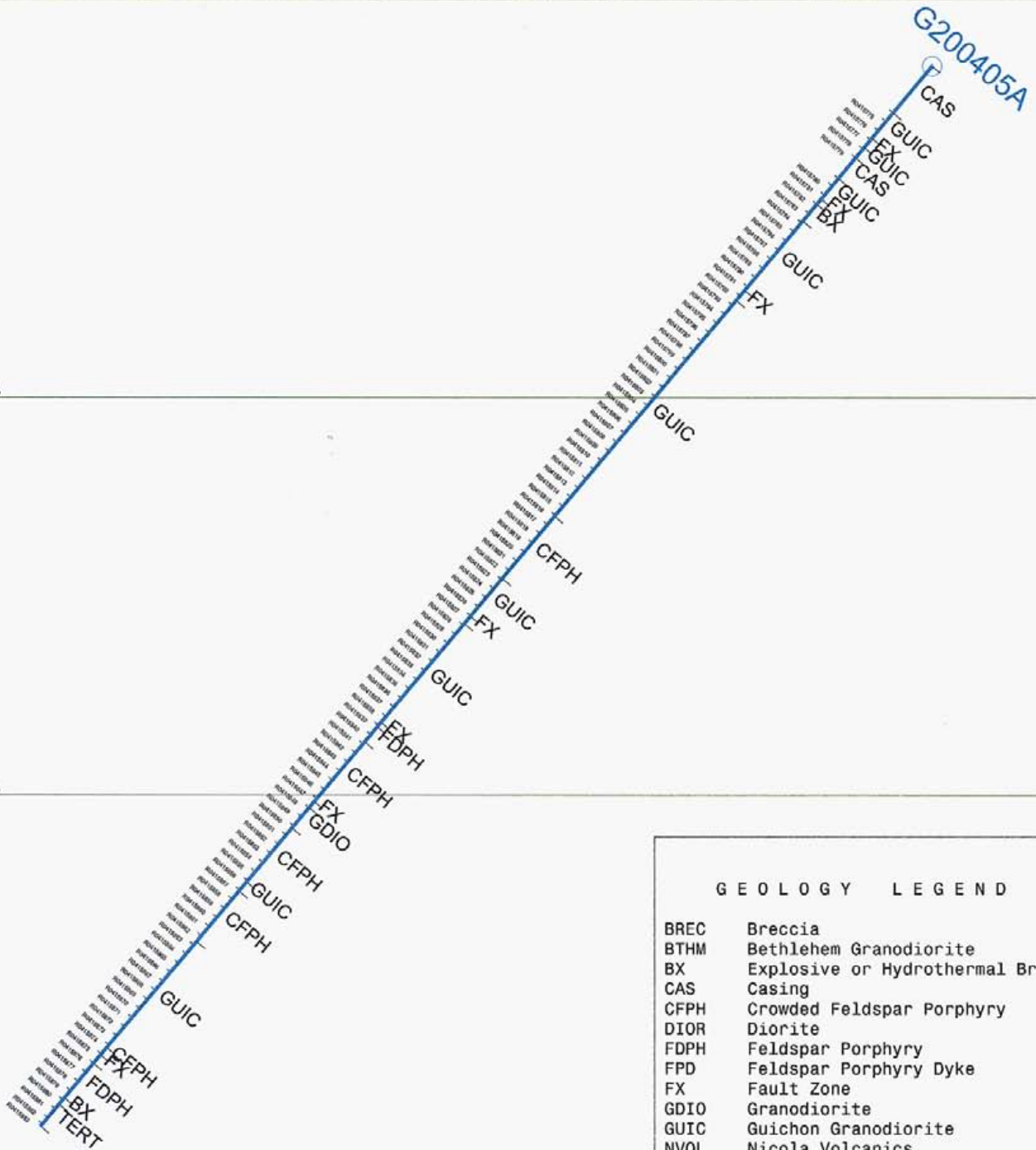
11.0 APPENDIX C

1800 Elev.

1700 Elev.

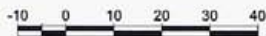
1600 Elev.

1500 Elev.



G E O L O G Y L E G E N D

BREC	Breccia
BTHM	Bethlehem Granodiorite
BX	Explosive or Hydrothermal Breccia
CAS	Casing
CFPH	Crowded Feldspar Porphyry
DIOR	Diorite
FDPH	Feldspar Porphyry
FPD	Feldspar Basal Unit
FX	Fault Zone
GDIO	Granodiorite
GUIC	Guichon Granodiorite
NVOL	Nicola Volcanics
TERS	Tertiary Sediments
TERT	Tertiary Felsic Stock
TERV	Tertiary Volcanics
TRTC	Tertiary Basal Unit
TRTS	Tertiary Sediments
TRTV	Tertiary Volcanics



Highland Valley Copper

Logan Lake, British Columbia

**Getty Copper Option
Diamond Drill Hole G200405A
Geology and Assay Tag Numbers**

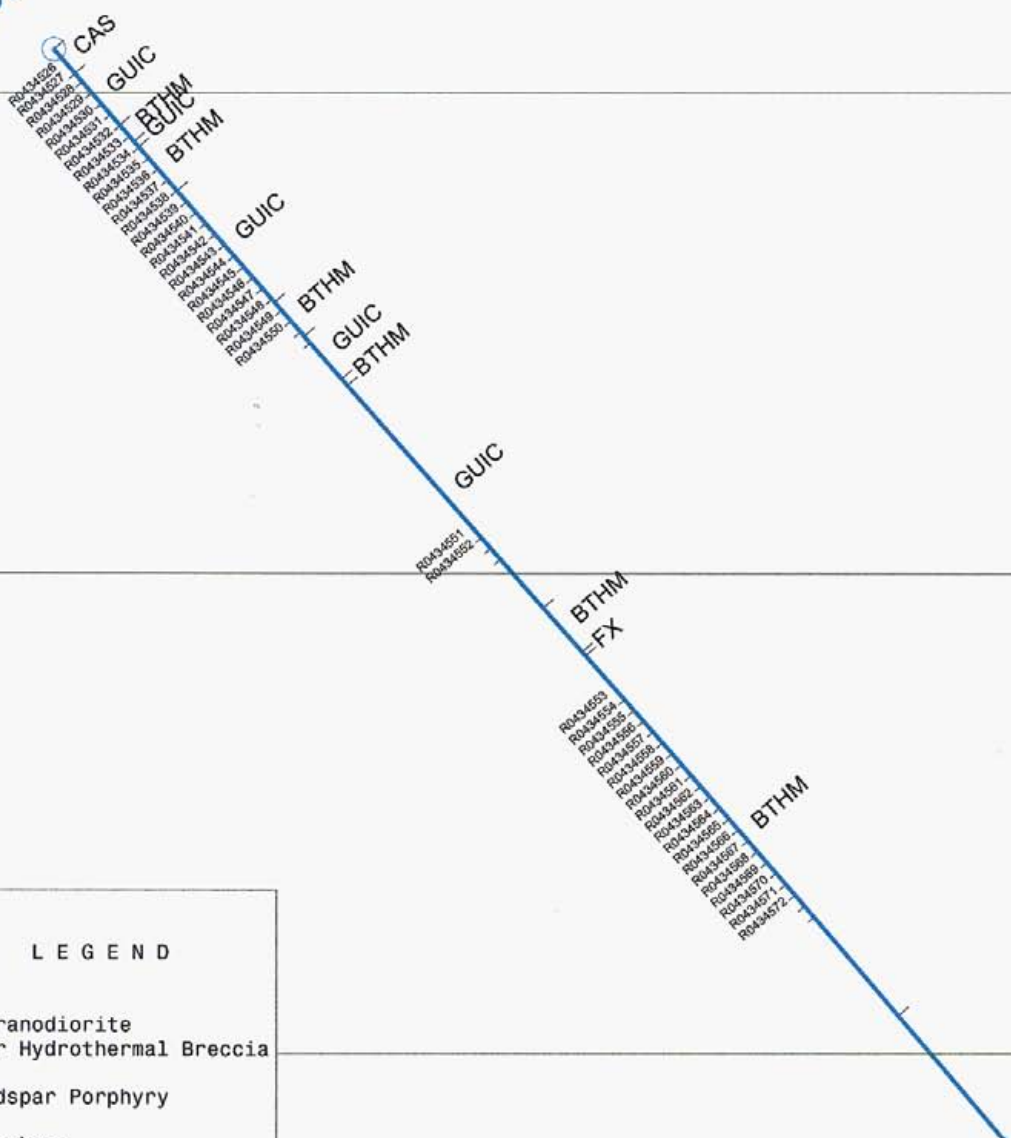
Vertical Cross Section Looking North

Units: Metres Scale 1:1500 Date: 05/17/00 Time: 22:49:00

G200406

1800 Elev.

1700 Elev.



G E O L O G Y L E G E N D

BREC	Breccia
BTHM	Bethlehem Granodiorite
BX	Explosive or Hydrothermal Breccia
CAS	Casing
CFPH	Crowded Feldspar Porphyry
DIOR	Diorite
FDPH	Feldspar Porphyry
FPD	Feldspar Porphyry Dyke
FX	Fault Zone
GDIO	Granodiorite
GUIC	Guichon Granodiorite
NVOL	Nicola Volcanics
TERS	Tertiary Sediments
TERT	Tertiary Felsic Stock
TERV	Tertiary Volcanics
TRTC	Tertiary Basal Unit
TRTS	Tertiary Sediments
TRTV	Tertiary Volcanics



Highland Valley Copper

Logan Lake, British Columbia

Getty Copper Option
Diamond Drill Hole G200406
Geology and Assay Tag Numbers

Units: Metres Scale 1:1500 Date: 05/17/00 Time: 22:49:00

Vertical Cross Section Looking North

1800 Elev.

G200407

CAS

RD436156
RD436157
RD436158
RD436159
RD436160

GUIC

1700 Elev.

BTHM

FX

RD436161
RD436162
RD436163
RD436164

1600 Elev.

RD436165
RD436166
RD436167
RD436168
RD436169
RD436170
RD436171
RD436172
RD436173
RD436174
RD436175
RD436176

BTHM

RD436177
RD436178
RD436179

G E O L O G Y L E G E N D

- BREC Breccia
- BTHM Bethlehem Granodiorite
- BX Explosive or Hydrothermal Breccia
- CAS Casing
- CFPH Crowded Feldspar Porphyry
- DIOR Diorite
- FDPH Feldspar Porphyry
- FPD Feldspar Porphyry Dyke
- FX Fault Zone
- GDIO Granodiorite
- GUIC Guichon Granodiorite
- NVOL Nicola Volcanics
- TERS Tertiary Sediments
- TERT Tertiary Felsic Stock
- TERV Tertiary Volcanics
- TRTC Tertiary Basal Unit
- TRTS Tertiary Sediments
- TRTV Tertiary Volcanics



Highland Valley Copper

Logan Lake, British Columbia

Getty Copper Option
Diamond Drill Hole G200407
Geology and Assay Tag Numbers

Vertical Cross Section Looking North

Units: Metres Scale 1:1500 Date: 05/17/00 Time: 22:49:00

1500 Elev.

G200408

CAS

1400 Elev.

BTHM

1300 Elev.

G E O L O G Y L E G E N D

BREC	Breccia
BTHM	Bethlehem Granodiorite
BX	Explosive or Hydrothermal Breccia
CAS	Casing
CFPH	Crowded Feldspar Porphyry
DIOR	Diorite
FDPH	Feldspar Porphyry
FPD	Feldspar Porphyry Dyke
FX	Fault Zone
GDIO	Granodiorite
GUIC	Guichon Granodiorite
NVOL	Nicola Volcanics
TERS	Tertiary Sediments
TERT	Tertiary Felsic Stock
TERV	Tertiary Volcanics
TRTC	Tertiary Basal Unit
TRTS	Tertiary Sediments
TRTV	Tertiary Volcanics



Highland Valley Copper

Logan Lake, British Columbia

**Getty Copper Option
Diamond Drill Hole G200408
Geology and Assay Tag Numbers**

Vertical Cross Section Looking North

Units: Metres Scale 1:1500 Date: 05/17/00 Time: 22:49:00

1500 Elev.

G200409

CAS

BREC

1400 Elev.

GUIC

FPD

R0429629
R0429630
R0429631

FX

GUIC

FPD

GUIC

1300 Elev.

R0429632
R0429633
R0429634
R0429635
R0429636
R0429637
R0429638
R0429639
R0429640
R0429641
R0429642
R0429643
R0429644
R0429645
R0429646
R0429647
R0429648
R0429650
R0429651

FX

GUIC

FPD

GUIC

FPD

GUIC

FX

GUIC

R0429652
R0429653
R0429654
R0429655

G E O L O G Y L E G E N D

BREC	Breccia
BTHM	Bethlehem Granodiorite
BX	Explosive or Hydrothermal Breccia
CAS	Casing
CFPH	Crowded Feldspar Porphyry
DIOR	Diorite
FDPH	Feldspar Porphyry
FPD	Feldspar Porphyry Dyke
FX	Fault Zone
GDIO	Granodiorite
GUIC	Guichon Granodiorite
NVOL	Nicola Volcanics
TERS	Tertiary Sediments
TERT	Tertiary Felsic Stock
TERV	Tertiary Volcanics
TRTC	Tertiary Basal Unit
TRTS	Tertiary Sediments
TRTV	Tertiary Volcanics



Highland Valley Copper

Logan Lake, British Columbia

Getty Copper Option
Diamond Drill Hole G200409
Geology and Assay Tag Numbers

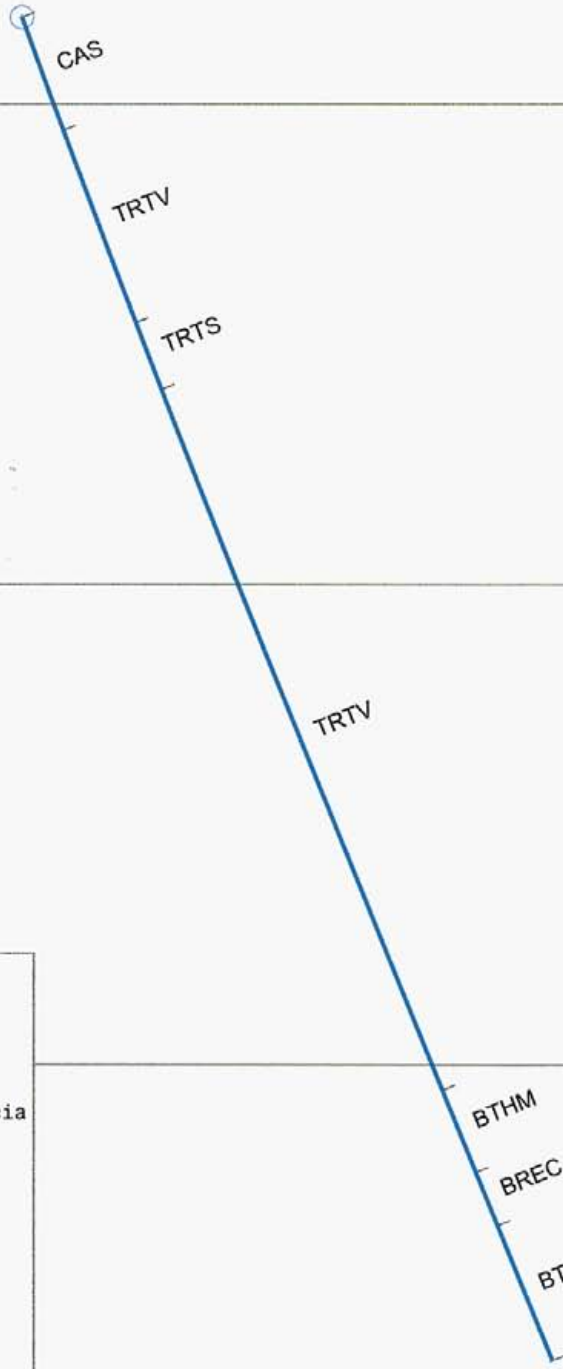
Vertical Cross Section Looking North

Units: Metres Scale 1:1500 Date: 05/17/00 Time: 22:49:00

G200410

1500 Elev.

1400 Elev.



G E O L O G Y L E G E N D

BREC	Breccia
BTHM	Bethlehem Granodiorite
BX	Explosive or Hydrothermal Breccia
CAS	Casing
CFPH	Crowded Feldspar Porphyry
DIOR	Diorite
FDPH	Feldspar Porphyry
FPD	Feldspar Porphyry Dyke
FX	Fault Zone
GDIO	Granodiorite
GUIC	Guichon Granodiorite
NVOL	Nicola Volcanics
TERS	Tertiary Sediments
TERT	Tertiary Felsic Stock
TERV	Tertiary Volcanics
TRTC	Tertiary Basal Unit
TRTS	Tertiary Sediments
TRTV	Tertiary Volcanics



Highland Valley Copper

Logan Lake, British Columbia

**Getty Copper Option
Diamond Drill Hole G200410
Geology and Assay Tag Numbers**

Vertical Cross Section Looking North

Units: Metres Scale 1:1500 Date: 05/17/00 Time: 22:49:00

G200411A

1500 Elev.

CAS

TRTS

1400 Elev.

TRTV

G E O L O G Y L E G E N D

- BREC Breccia
- BTHM Bethlehem Granodiorite
- BX Explosive or Hydrothermal Breccia
- CAS Casing
- CFPH Crowded Feldspar Porphyry
- DIOR Diorite
- FDPH Feldspar Porphyry
- FPD Feldspar Porphyry Dyke
- FX Fault Zone
- GDIO Granodiorite
- GUIC Guichon Granodiorite
- NVOL Nicola Volcanics
- TERS Tertiary Sediments
- TERT Tertiary Felsic Stock
- TERV Tertiary Volcanics
- TRTC Tertiary Basal Unit
- TRTS Tertiary Sediments
- TRTV Tertiary Volcanics

RD434573
 RD434574
 RD434575
 RD434576
 RD434577
 RD434578

RD434579
 RD434580

RD434581

GUIC

-10 0 10 20 30 40



Highland Valley Copper

Logan Lake, British Columbia

Getty Copper Option
 Diamond Drill Hole G200411A
 Geology and Assay Tag Numbers

Vertical Cross Section Looking North

Units: Metres Scale 1:1500 Date: 05/17/00 Time: 22:49:00

G200412

1500 Elev.

CAS

1400 Elev.

TRTS

TRTV

GUIC

FX

BTHM

R0432423
R0432424
R0432425
R0432426
R0432427
R0432428
R0432429
R0432430
R0432431
R0432432
R0432433

R0432434
R0432435
R0432436
R0432437

GUIC

R0432438
R0432439
R0432440
R0432441

R0432442
R0432443

G E O L O G Y L E G E N D

BREC	Breccia
BTHM	Bethlehem Granodiorite
BX	Explosive or Hydrothermal Breccia
CAS	Casing
CFPH	Crowded Feldspar Porphyry
DIOR	Diorite
FDPH	Feldspar Porphyry
FPD	Feldspar Porphyry Dyke
FX	Fault Zone
GDIO	Granodiorite
GUIC	Guichon Granodiorite
NVOL	Nicola Volcanics
TERS	Tertiary Sediments
TERT	Tertiary Felsic Stock
TERV	Tertiary Volcanics
TRTC	Tertiary Basal Unit
TRTS	Tertiary Sediments
TRTV	Tertiary Volcanics



Highland Valley Copper

Logan Lake, British Columbia

Getty Copper Option
Diamond Drill Hole G200412
Geology and Assay Tag Numbers

Vertical Cross Section Looking North

Units: Metres Scale 1:1500 Date: 05/17/00 Time: 22:49:00

G200414



CAS

TRTV

TRTS

TRTV

TRTS

TRTV

1500 Elev.

1400 Elev.

G E O L O G Y L E G E N D

- BREC Breccia
- BTHM Bethlehem Granodiorite
- BX Explosive or Hydrothermal Breccia
- CAS Casing
- CFPH Crowded Feldspar Porphyry
- DIOR Diorite
- FDPH Feldspar Porphyry
- FPD Feldspar Porphyry Dyke
- FX Fault Zone
- GDIO Granodiorite
- GUIC Guichon Granodiorite
- NVOL Nicola Volcanics
- TERS Tertiary Sediments
- TERT Tertiary Felsic Stock
- TERV Tertiary Volcanics
- TRTC Tertiary Basal Unit
- TRTS Tertiary Sediments
- TRTV Tertiary Volcanics



Highland Valley Copper

Logan Lake, British Columbia

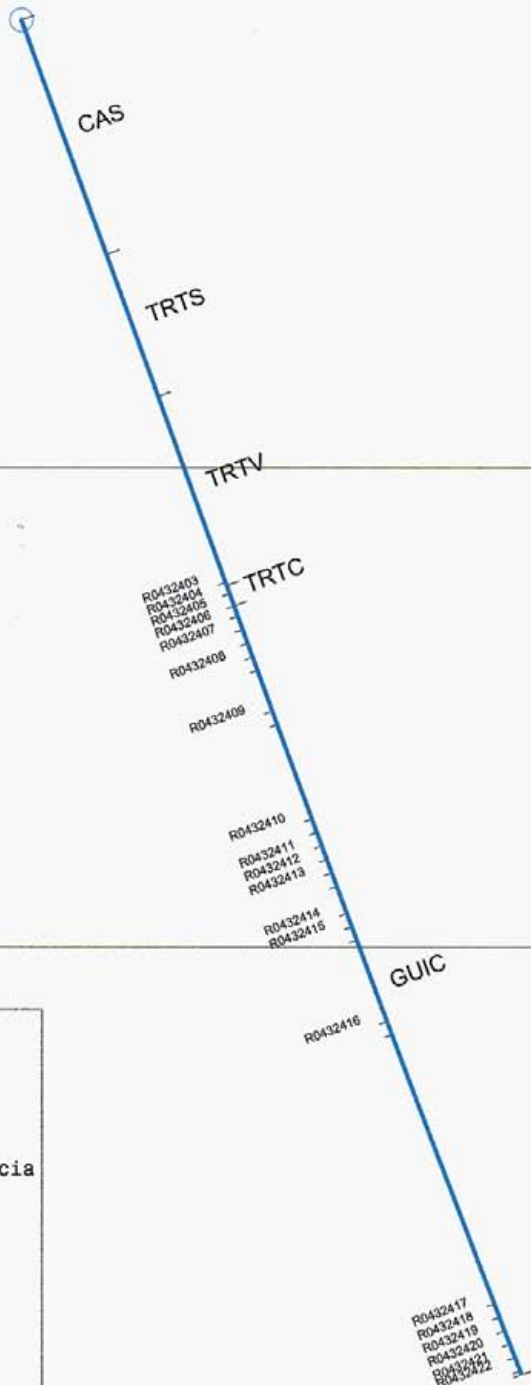
Getty Copper Option
Diamond Drill Hole G200414
Geology and Assay Tag Numbers

Vertical Cross Section Looking North

Units: Metres Scale 1:1500 Date: 05/17/00 Time: 22:49:00

1700 Elev.

G200416

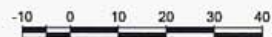


1600 Elev.

1500 Elev.

G E O L O G Y L E G E N D

BREC	Breccia
BTHM	Bethlehem Granodiorite
BX	Explosive or Hydrothermal Breccia
CAS	Casing
CFPH	Crowded Feldspar Porphyry
DIOR	Diorite
FDPH	Feldspar Porphyry
FPD	Feldspar Porphyry Dyke
FX	Fault Zone
GDIO	Granodiorite
GUIC	Guichon Granodiorite
NVOL	Nicola Volcanics
TERS	Tertiary Sediments
TERT	Tertiary Felsic Stock
TERV	Tertiary Volcanics
TRTC	Tertiary Basal Unit
TRTS	Tertiary Sediments
TRTV	Tertiary Volcanics



Highland Valley Copper

Logan Lake, British Columbia

Getty Copper Option
Diamond Drill Hole G200416
Geology and Assay Tag Numbers

Vertical Cross Section Looking North

Units: Metres Scale 1:1500 Date: 05/17/00 Time: 22:49:00

G200418

1400 Elev.

CAS

NVOL

1300 Elev.

1200 Elev.

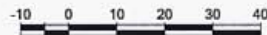
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- R0436153
- R0436154
- R0436155

FX

NVOL

G E O L O G Y L E G E N D

BREC	Breccia
BTHM	Bethlehem Granodiorite
BX	Explosive or Hydrothermal Breccia
CAS	Casing
CFPH	Crowded Feldspar Porphyry
DIOR	Diorite
FDPH	Feldspar Porphyry
FPD	Feldspar Porphyry Dyke
FX	Fault Zone
GDIO	Granodiorite
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NVOL	Nicola Volcanics
TERS	Tertiary Sediments
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TERV	Tertiary Volcanics
TRTC	Tertiary Basal Unit
TRTS	Tertiary Sediments
TRTV	Tertiary Volcanics



Highland Valley Copper

Logan Lake, British Columbia

Getty Copper Option
 Diamond Drill Hole G200418
 Geology and Assay Tag Numbers

Vertical Cross Section Looking North

Units: Metres Scale 1:1500 Date: 05/17/00 Time: 22:49:00

1500 Elev.

G200419

CAS

R0500321
R0500322
R0500323
R0500324
R0500325
R0500326
R0500327
R0500328
R0500329
R0500330

NVOL

FX

1400 Elev.

NVOL

FX

R0500331
R0500332
R0500333
R0500334
R0500335
R0500336
R0500337

R0500338

NVOL

1300 Elev.

FX

R0500339
R0500340

R0500341
R0500342

NVOL

G E O L O G Y L E G E N D

BREC	Breccia
BTHM	Bethlehem Granodiorite
BX	Explosive or Hydrothermal Breccia
CAS	Casing
CFPH	Crowded Feldspar Porphyry
DIOR	Diorite
FDPH	Feldspar Porphyry
FPD	Feldspar Porphyry Dyke
FX	Fault Zone
GDIO	Granodiorite
GUIC	Guichon Granodiorite
NVOL	Nicola Volcanics
TERS	Tertiary Sediments
TERT	Tertiary Felsic Stock
TERV	Tertiary Volcanics
TRTC	Tertiary Basal Unit
TRTS	Tertiary Sediments
TRTV	Tertiary Volcanics



Highland Valley Copper

Logan Lake, British Columbia

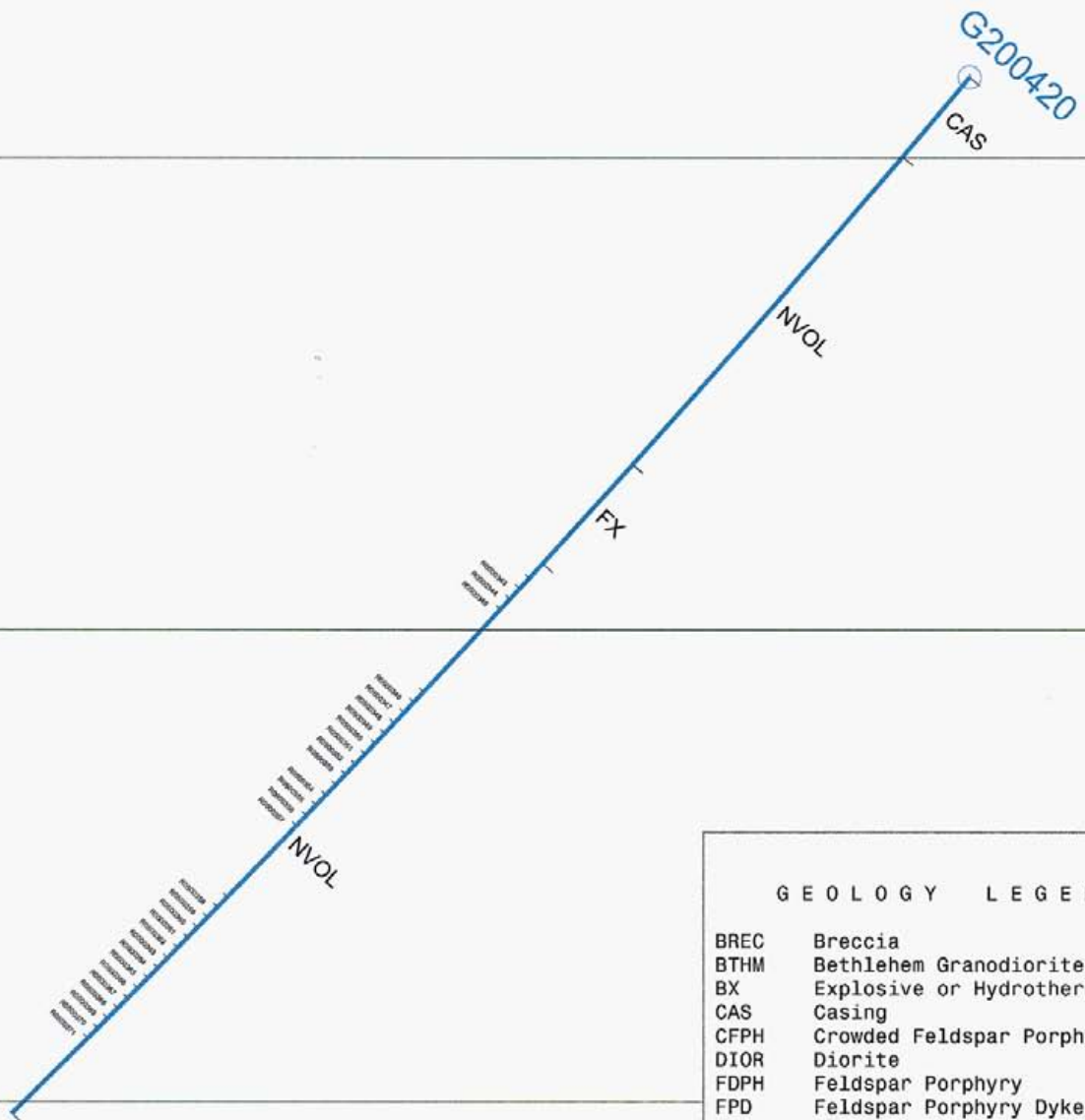
Getty Copper Option
Diamond Drill Hole G200419
Geology and Assay Tag Numbers

Vertical Cross Section Looking North

1500 Elev.

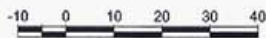
1400 Elev.

1300 Elev.



G E O L O G Y L E G E N D

BREC	Breccia
BTHM	Bethlehem Granodiorite
BX	Explosive or Hydrothermal Breccia
CAS	Casing
CFPH	Crowded Feldspar Porphyry
DIOR	Diorite
FDPH	Feldspar Porphyry
FPD	Feldspar Porphyry Dyke
FX	Fault Zone
GDIO	Granodiorite
GUIC	Guichon Granodiorite
NVOL	Nicola Volcanics
TERS	Tertiary Sediments
TERT	Tertiary Felsic Stock
TERV	Tertiary Volcanics
TRTC	Tertiary Basal Unit
TRTS	Tertiary Sediments
TRTV	Tertiary Volcanics



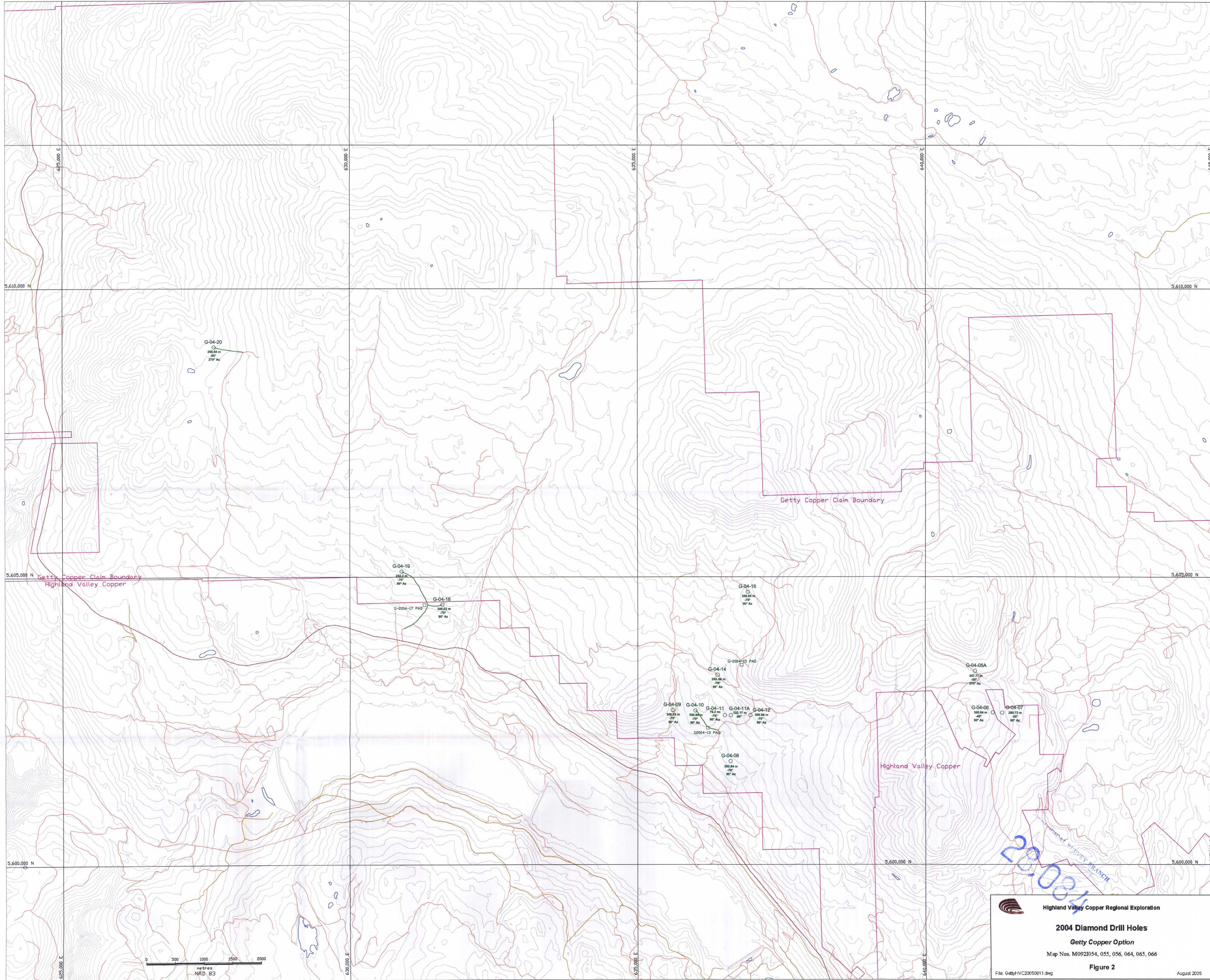
Highland Valley Copper


Logan Lake, British Columbia

**Getty Copper Option
Diamond Drill Hole G200420
Geology and Assay Tag Numbers**

Vertical Cross Section Looking North

Units: Metres Scale 1:1500 Date: 05/17/00 Time: 22:49:00




Highland Valley Copper Regional Exploration
2004 Diamond Drill Holes
Getty Copper Option
 Map Nos. M0921054, 055, 056, 064, 065, 066
Figure 2
 File: GettyHVC20050811.dwg August 2005