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ASSESSMENT REPORT ON PHASE 1 AND 2 DIAMOND DRILLING

NORTH BRECCIA ZONE

on the

BIG KIDD PROPERTY, NICOLA MINING DIVISION
ASPEN GROVE, BRITISH COLUMBIA
NTS 92H/15E

OWNED BY

CHRISTOPHER JAMES GOLD CORP.
440-175 Second Avenue
Kamloops, BC
V2C 5W1

OPERATED BY

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December 15, 1999

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SUMMARY

Christopher James Gold Corp. is earning a 100% interest in the Big Kidd property located north and east of Aspen Grove near Merritt in southern British Columbia. The 2500 hectare property has excellent highway access and covers a highly prospective section of the Nicola volcanic belt in southern Quesnellia Terrane for alkalic porphyry related copper-gold deposits such as Copper Mountain, Afton and Mount Polley.

Pre 1992 exploration in the property area by Noranda (1956) and Amax (1972) focussed on its potential for hosting a sizeable porphyry copper deposit; no analysis were made for gold.

A volcanic centred alkalic porphyry copper-gold setting has been demonstrated by recent exploration by Placer Dome in 1992 and Christopher James Gold Corp. in 1997-98. The Big Kidd breccia pipe (volcanic neck) is over 350 metres in diameter. Its geological features including alteration and mineralization fit recent alkalic porphyry models to a remarkable degree.

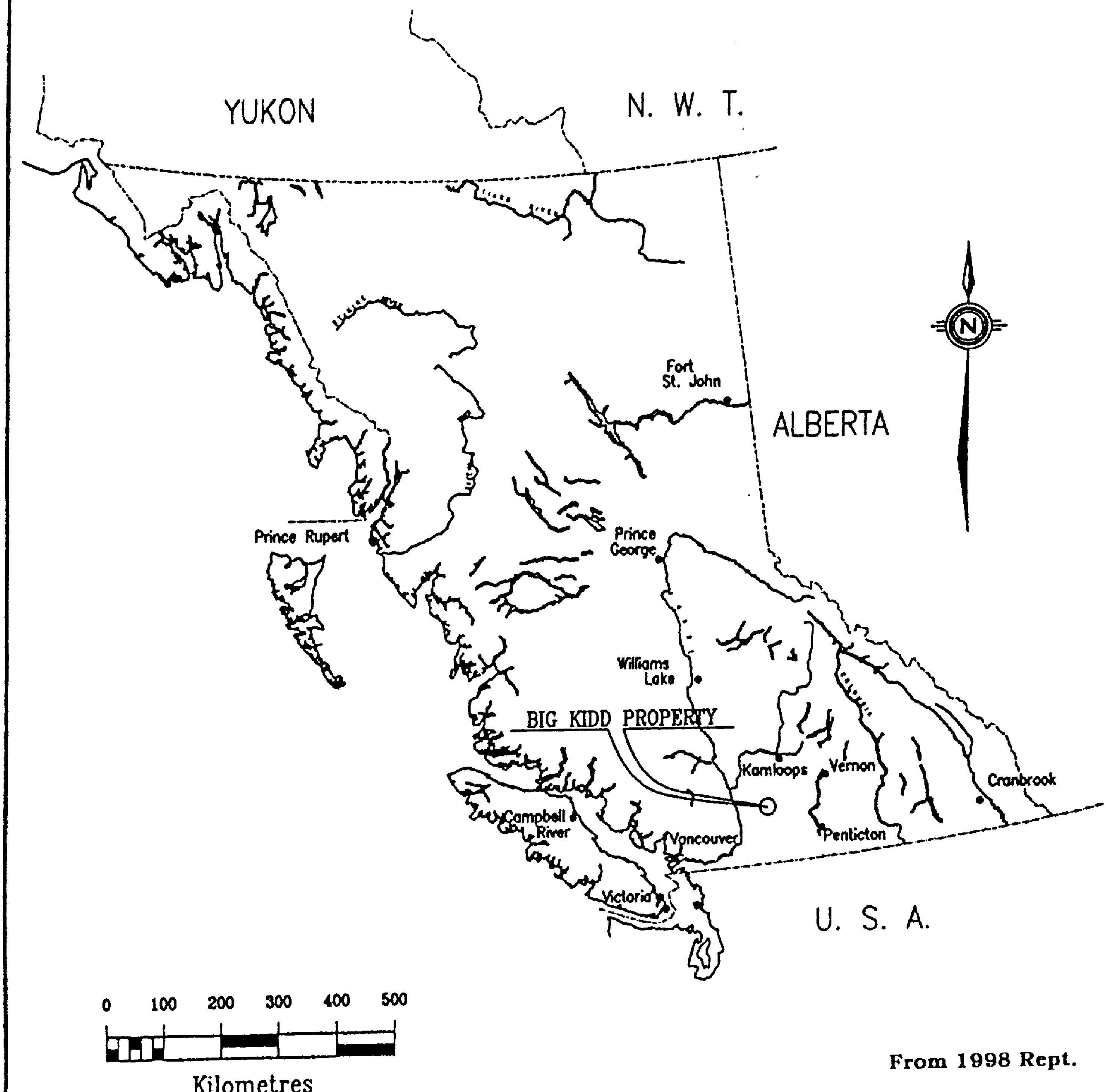
1997 exploration by the company outlined three target areas for future exploration in the Big Kidd breccia area. The North Breccia Target was by far the most promising for gold, based on the limited amount of previous drilling. All three holes in this area produced 1 to 3 g/t gold values over close to 20 metre widths at 150 to 200 metres vertical depth. These higher grade zones occur within much broader envelopes up to 100 metres wide, averaging 0.3 to 1.0 g/t gold. The potential is for breccia hosted bulk tonnage gold (copper) zones which could contain a million or more ounces.

A cost effective staged drilling program was planned for 1999 to test the North Breccia Target. The object was to evaluate the geometry of the gold zones(s), grade distribution and start to develop a geological gold (copper) resource. This would be accompanied by step out drilling (2 to 3 holes at a time) 40 to 70 metres along strike, up and down dip. The positioning of holes, azimuths etc. would depend on the evolving understanding of geometry.

Phase 1 diamond drilling on the North Breccia Target took place in September 1999 and consisted of two holes NBZ 99-01(-45^0) and 99-02 (-57^0). These holes were drilled from the same pad SSW into the breccia pipe below mineralized trench 92-2. This was also the area where 1 to 3 g/t gold intersections were returned from previous drilling at 120 to 180 metres vertical depth. Both 1999 holes were highly anomalous in copper and gold. Two, possibly three gold (copper) zones can be interpreted on section: an upper, steeply dipping, 15 to 36 metre wide zone correlates with surface mineralization in trench 92-2. A lower broader zone is centred on a narrow porphyritic monzonite dyke and extensive potassic alteration in the surrounding breccias. This zone in hole NBZ 99-02 features a central area 70.28 metres long averaging 0.622 g/t Au and 0.204% Cu and includes three 10 to 18 metre intervals averaging between 0.5 and 1.0 g/t gold and 0.1 to 0.35% copper.

Phase 2 diamond drilling followed Phase 1 without a break and consisted of a further two holes NBZ99-03 (-67^0) and 04 (-55^0) which were completed by mid October 1999. NBZ99-03 was a steeper hole drilled on the 01-02 section. It demonstrated that the upper and lower gold (copper) mineralized zones continue to depth and that additional low grade mineralization occurs close to surface. The upper mineralized zone probably links to gold (copper) mineralization at surface in trench 92-2 and trenches 40 to 50 metres to the west (David Minerals 1 g/t Au over 12 metre lengths). The lower mineralized zone appears to have been displaced at depth along a steeply dipping fault(s) but is still 60 to 70 metres wide. Hole NBZ99-04 was drilled on a 50 metre step-out section to the east and encountered significant gold (copper) values throughout. Most significant are: a new zone at surface straddling the metavolcanic-breccia contact including a 1 g/t gold interval; a broad lower mineralized zone that probably correlates with the lower zone to the west and significant gold (copper) mineralization in several intrusive dykes.

The 1999 drill program on the north Breccia Target met the company's objectives and has produced some very encouraging results. Systematic drill testing of this zone is still in its early stages. A two phase year 2000 drilling-trenching program has been strongly recommended.



From 1998 Rept.

KAMLOOPS GEOLOGICAL SERVICES LTD.	CHRISTOPHER JAMES GOLD CORP.
BIG KIDD PROPERTY	LOCATION MAP

Date:	April 1/1998	Project:	579	Scale:	1:10,000,000	N.T.S.:	B.C.	Mining Div:	Nicola	Figure:	1

1.0 INTRODUCTION

This report on the Big Kidd Property was made at the request of Christopher James Gold Corporation with offices located at Suite 440-175 Second Avenue, Kamloops, BC.

The Big Kidd property covers highly favourable geology for alkalic porphyry related gold-copper deposits within the Nicola volcanic belt near Aspen Grove south east of Merritt British Columbia. Between September and November 1999 the company conducted a two phase diamond drilling program totalling 1080 metres in four holes on the North Breccia target. This target at the northern edge of the Big Kidd breccia pipe (volcanic neck) has produced some of the best gold grades on the property to date from previous drilling and limited trenching and has bulk tonnage potential. The object of the 1999 drilling program was to begin evaluating the geometry of the gold copper zones and grade distribution.

All exploration on the Big Kidd property in 1999 was supervised by R.C. Wells, P.Geo, FGAC, consulting geologist for Kamloops Geological Services Ltd This report documents the results from the drilling program and is also being filed for assessment work credit.

1.1 LOCATION AND ACCESS

The Big Kidd Property (the property) is located in south central British Columbia (Figure 1) north and east of the small settlement of Aspen Grove at Latitude 49^0 57'N and longitude $120^0$37'W. Topographic map (1:50,000) NTS 92H/15E covers the property.

The property is bisected by the Coquihalla Okanagan connector highway from Merritt (30 kilometres north west) to Peachland; Highway No.5 from Princeton to Aspen Grove

(60 kilometres) and a major hydro line. A network of old ranching, mining and logging roads provides good access to most parts of the property.

1.2 PHYSIOGRAPHY, VEGETATION AND CLIMATE

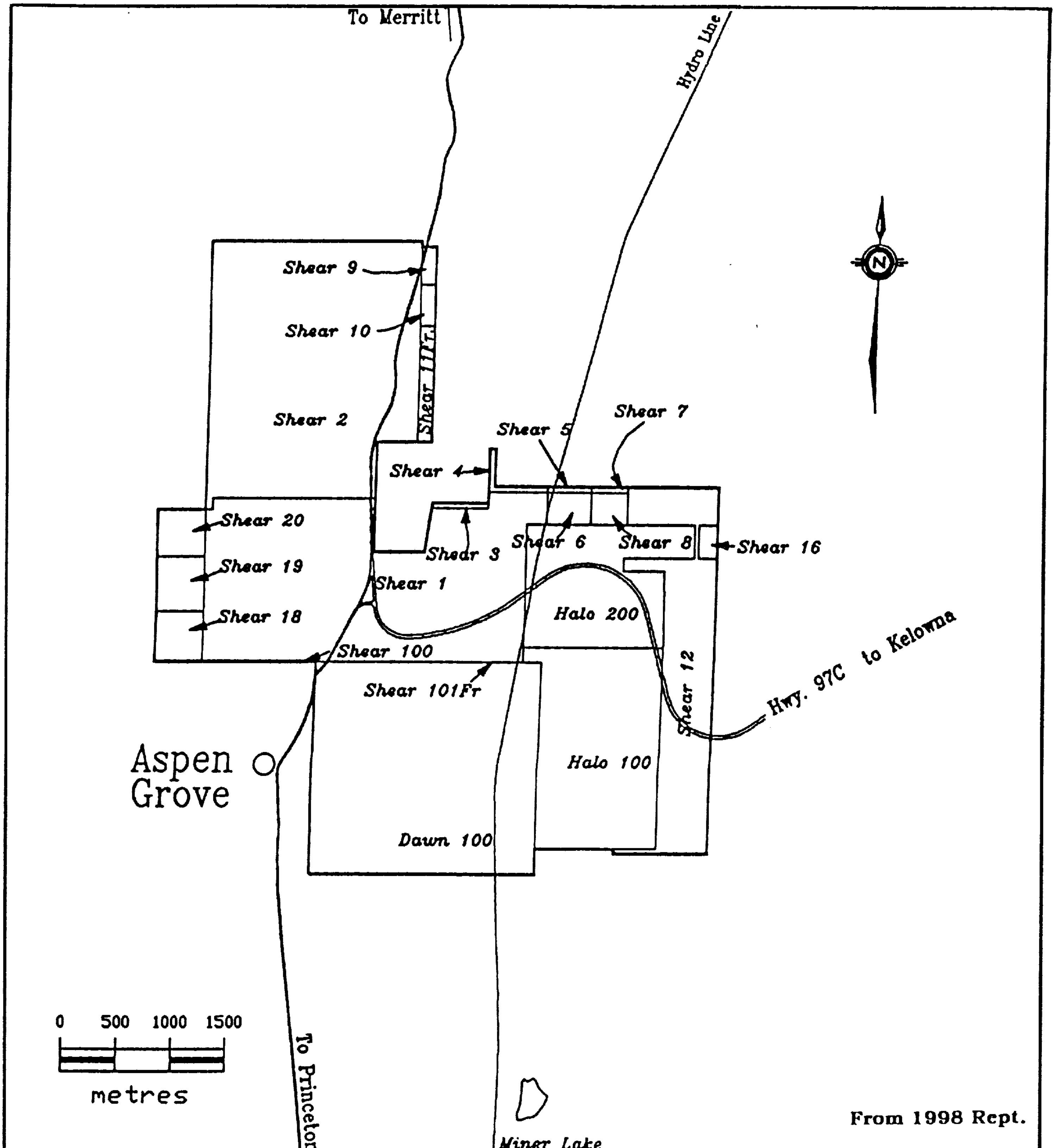
Elevations range from 1000 to 1300 metres in the property area on the Thompson Plateau with gently rolling topography and patchy woodland cover. It is a watershed area between the upper Otter Creek and Quilchena Creek drainages. Open meadows and farmland occur along the main valleys and in the Big Sioux (bald hill) area north of the connector highway. The higher watershed (Big Kidd) area south of the highway has patchy woodlands with local mature stands of pine and fir. Some recent logging has taken place on the Dawn 100 mineral claim west of the hydro line.

Much of the property is relatively dry; on the higher ground there are a few small ponds, most of which are seasonal. Snowfalls are moderate from November to March with accumulations between 0.5 and 2 metres. Summers are warm and generally dry.

1.3 PROPERTY

The Big Kidd property consisting of the Shear, Halo and Dawn claims has 101 units in 21 contiguous mineral claims within the Nicola Mining Division of British Columbia. These claims are shown on Figure 2 and cover approximately 20 square kilometres. Details regarding these claims are available in Table 1.

In an agreement dated November 20, 1996 the Dawn, Halo and Shear properties were combined (blended) into the Big Kidd and optioned by Christopher James Gold Corp. This agreement remains intact during the option period. Since optioning the Big Kidd property the



KAMLOOPS GEOLOGICAL SERVICES LTD.

Christopher James Gold Corp.

Big Kidd Property

CLAIM LOCATION MAP

Date: April 1/1998 | Project: 579 | Scale: 1:50,000 | N.T.S.: 92H.097,098 | Mining Div: Nicola | Figure: 2

TABLE 1: THE BIG KIDD PROPERTY - CLAIM INFORMATION

CLAIM NAME	RECORD NO.	UNITS	ANNIVERSARY DATE
SHEAR 1	237423	18	2002/10/22
SHEAR 2	237424	20	2002/11/01
SHEAR 3	237481	1	2003/02/24
SHEAR 4	237482	1	2003/02/24
SHEAR 5	237483	1	2003/02/24
SHEAR 6	237484	1	2003/02/24
SHEAR 7	237485	1	2003/02/24
SHEAR 8	237486	1	2003/02/24
SHEAR 9	237487	1	2003/02/24
SHEAR 10	237488	1	2003/02/24
SHEAR 11 FR	237489	1	2003/02/24
SHEAR 12	237618	14	2003/01/11
SHEAR 16	300721	1	2003/06/01
SHEAR 18	300720	1	2003/06/11
SHEAR 19	300719	1	2003/06/11
SHEAR 20	300718	1	2003/06/11
DAWN 100	237175	16	2003/08/28
HALO 100	237181	12	2003/02/11
HALO 200	237182	6	2003/02/11
SHEAR 100	306912	1	2003/12/11
SHEAR 101 FR	306913	1	2003/12/12
TOTAL		101	

company has acquired through staking a large contiguous land package in the Aspen Grove-Missezula Lake area .

Assessment work is being applied to the Shear 1 mineral claim which is part of the original group. Assessment work is also being applied to a number of contiguous claims as follows:

To west:	Shear West 1, 2, 3, 4 and Kidd West 1.
To east:	Shear 21 to 37 inclusive.
To south:	Triple A1, 2, 5, 6, 7, 8, 9 and Paycinci 1 (W.R. Gilmour).

1.4 EXPLORATION HISTORY

Aspen Grove has a long history of copper exploration dating back to the early 1900's. There are a very large number of copper showings and small workings in the 'Aspen Grove Copper Camp' with however little production to date. The area covered by the property has basically undergone three main periods of exploration dating back to the turn of the century.

Early work **before 1950** focussed largely on individual showings. Trenches, pits and short adits tested high grade copper showings such as the Golden Sovereign, Copper Belle, Copper Standard and Blue Bird. About 10 tons of copper ore containing 1,000 lbs of copper were shipped from the Golden Sovereign in 1916. In 1918, 44 tons of high grade copper (12%) were shipped from the Big Sioux with silver (68.0 g/t Ag) and gold (0.57 g/t) credits.

During the **1950 to 1973** period the property area received a significant amount of exploration with porphyry copper as the main target. Both Noranda in the mid 1950s and Amax in 1972 completed integrated geological, geochemical and geophysical programs with trenching and limited drilling on targets in the Big Kidd-Big Sioux area. During this period copper was the target and no analyses were made for gold. Noranda completed 4 small diameter (EX) diamond drill holes on the Big Sioux and 5 on the Big Kidd. Holes 7, 8 and 9 in the Big Sioux area returned several copper intersections in the 0.20% to 0.48% range from mixed volcanic rocks and dioritic intrusions. Holes 2, 3, 4 and 5 were drilled in the northern part of the Big Kidd breccia and probably were testing the adit mineralization. These holes returned copper intersections in the 0.10% to 0.36% range.

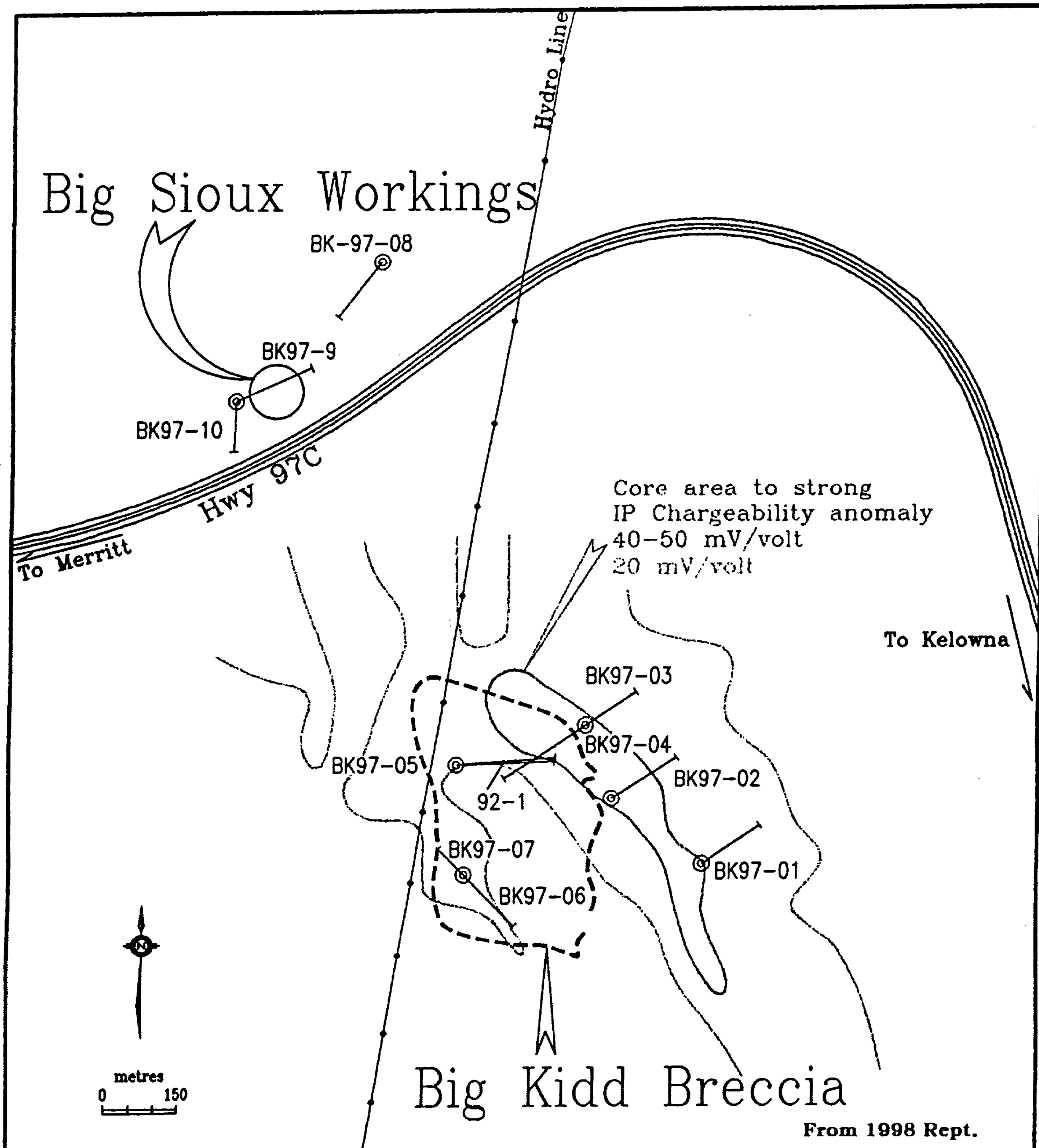
Amax in 1972 did no diamond drilling; 22 vertical percussion holes (most to a depth of 300') were scattered in a rough grid pattern to test the extent and grade of copper mineralization in the Big Kidd breccia and Big Sioux area. Holes 72-1, 2 and 22 in the Big Sioux area returned copper intersections in the 0.16% to 0.26% range. Holes 72-6, 7 and 12 were drilled north of the Big Kidd and returned similar copper values to the Big Sioux. Many of the other holes returned low copper values. The validity of this drilling approach with vertical holes has to be questioned as most structures and many intrusive contacts on the property have steep to subvertical dips.

Between 1974 and 1989 there was a lull in exploration activity. There was however some work by junior companies on the Halo and Dawn claims. In 1976-77 five diamond drill holes were completed by David Minerals; three on the Big Kidd, one each on the Big Sioux and Copper Belle. These holes were logged but no analyses were made? Limited sampling from bulldozer trenching (1980, 1982) on the north side of the Big Kidd breccia pipe returned gold values up to 0.08 opt and copper to 0.28%.

Interest in the Aspen Grove area was renewed in 1989 with the construction of the Okanagan Connector highway. A new rock cut on the south side of the Big Sioux exposed intrusive contact related copper mineralization with local multi-gram gold values. This showing was identified and staked by Ab Ablett as the Shear claims. Northair Mines Ltd held the present property under option between 1991 and 1995, however there was only one significant period of exploration during an agreement with Placer Dome Inc. in **1992.** Placer Dome conducted an integrated geological, geochemical and geophysical program with follow-up trenching and limited diamond drilling. This program was successful in identifying a very promising alkaline porphyry copper-gold porphyry target and produced significant copper-gold intersections in 3 of the 6 diamond drill holes in the Big Kidd and Big Sioux area. Most impressive was DDH92-1 in the northern part of the Big Kidd breccia pipe which returned 71.0 metres at the end of the hole averaging 0.20% copper and 0.75% g/t gold (several individual values in 1 to 2 g/t range). These were the first recorded gold intersections on the property. Further exploration was strongly recommended but for various reasons did not take place, and the property was returned to the vendors.

No further exploration occurred prior to the program by Christopher James Gold Corp. in 1997. This program basically took over where Placer Dome left off and had the author as a consulting geologist. Exploration focussed more on the property's gold potential in this alkalic porphyry setting and featured an integrated geological, geophysical and geochemical program followed by diamond drilling of the better targets. The Big Kidd breccia pipe and proximal surrounding areas (Figure 3) was a first class target with coincident rock, soil and geophysical anomalies. A first phase 10 hole, 2073 metre diamond drilling program tested some of the better targets with one or two holes per target. Results from drilling in the Big Kidd breccia area were excellent. Two intersections 18 to 20 metres long averaged between 2 and 3 g/t gold at 150 to 200 metres vertical depth in the North Breccia Target area. Higher gold values were returned from DDH 97-05 (up to 11.85 g/t gold over 1.46 metres) than Placer Dome's DDH 92-1. In the West Breccia Target area more typical alkalic porphyry copper-gold grades were returned from adjacent 20 to 30 metre intersections close to surface. DDH 97-6 (drilled SE) returned 27.46 metres from the drill collar averaging 0.306% copper, 0.21 g/t gold; DDH 97-7 (drilled NW) returned 23.84 metres from the drill collar averaging 0.325% copper, 0.32 g/t gold. The East Dyke Target area returned a 36 metre intersection averaging 0.32 g/t gold (low copper) beneath 1 to 3 g/t values in a trench at surface. The conclusion following the 1997 program was that the

Big Kidd was primarily an alkalic porphyry gold (copper) target that needed significant amounts of further drilling to be properly evaluated.



KAMLOOPS GEOLOGICAL SERVICES LTD.	Christopher James Gold Corp.
Big Kidd Property	Drill Hole Locations & Main IP Anomaly 1997

Date: Jan.30/1998	Project: 579	Scale: as shown	N.T.S.: 092H.097,098	Mining Div: Nicola	Figure: 3

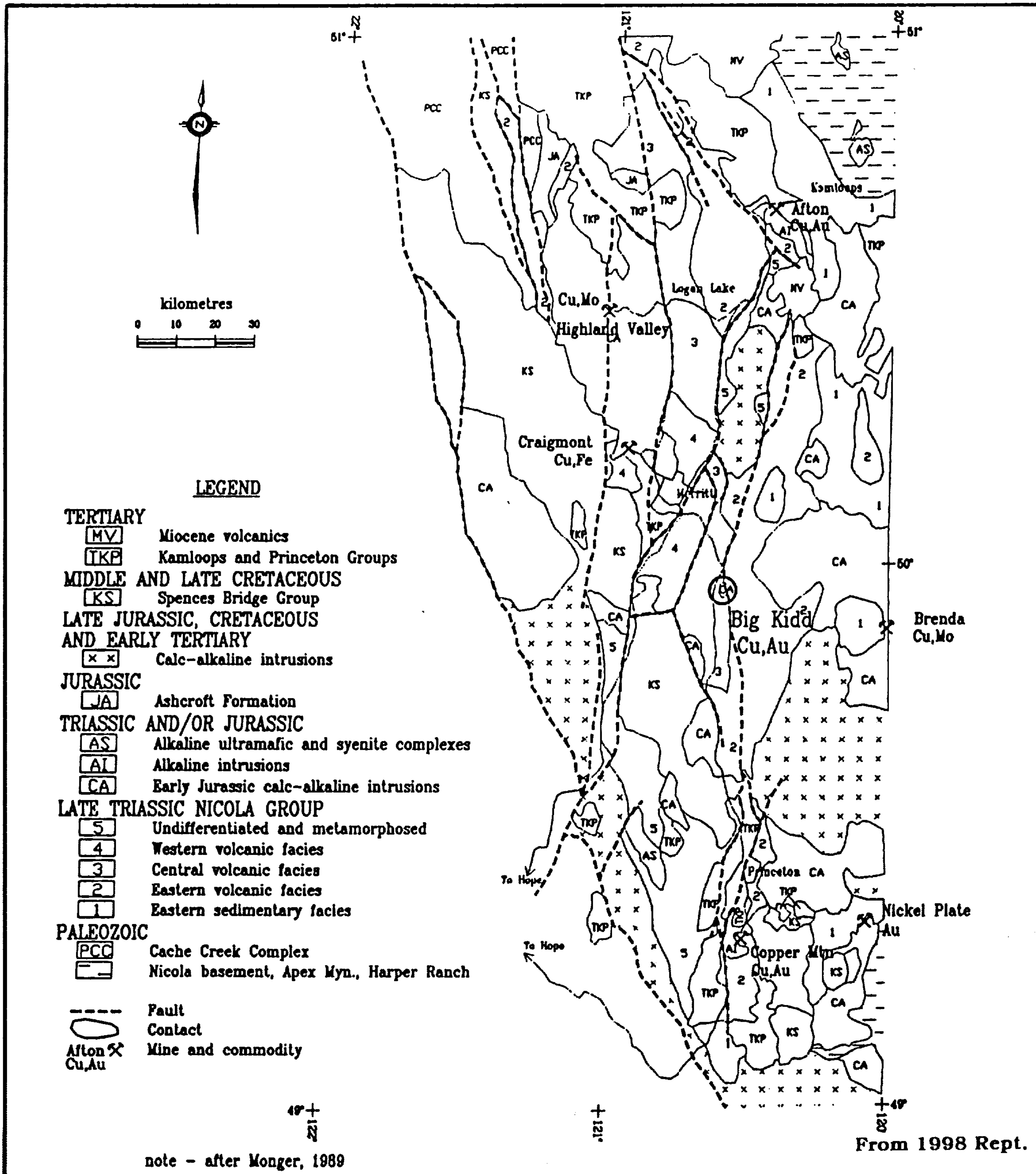
2.0 GEOLOGICAL SETTING AND MODEL

2.1 REGIONAL GEOLOGY

The Aspen grove area is located in the Intermontane Belt of the Canadian Cordillera and in the southern part of the Quesnellia Terrane. Within this section of Quesnellia, the Upper Triassic age Nicola Group, consisting of volcanic, sedimentary and associated intrusive rocks, constitutes an island arc assemblage. The Nicola Group forms a north trending belt 20 to 30 kilometres wide extending from the US border to north of Kamloops Lake (Figure 4). Within this belt there was strong interplay between structure, volcanism and sedimentation. Preto (1977) subdivided the Nicola between Merritt and Princeton into three northerly trending fault bounded belts each containing a distinct lithologic assemblage. The Eastern Belt (Tne) consists of mafic, augite phyric volcaniclastic rocks, minor volcanic flows and sedimentary rocks. The Central Belt (Tnc) facies consists of alkaline mafic flows and pyroclastic rocks with abundant subvolcanic intrusions of diorite to syenite composition. The Western Belt (Tnw) facies is an easterly facing succession of calc-alkaline mafic, intermediate and felsic volcanic rocks, syn-volcanic rhyolite plugs, volcaniclastic sediments and reefoid carbonates.

Upper Triassic to Lower Jurassic age alkalic intrusions occur within the Central and Eastern volcanic belts such as the Iron Mask batholith and Copper Mountain intrusions (Figure 4). These consist of generally small to intermediate size fault bounded stocks and dyke swarms of pyroxenite, diorite, monzodiorite, monzonite and syenite. Some of these (Big Kidd complex) probably intrude their own volcanic pile while others such as Copper Mountain can not be directly related to their host volcanics. Both the Iron Mask (Afton-Ajax) and Copper Mountain complexes host significant alkalic type copper-gold porphyry deposits.

In contrast calc-alkaline intrusions of Upper Triassic to Early Jurassic (Nicola) age form larger stocks and batholiths of quartz diorite to granite composition and intrude all four belts of



KAMLOOPS GEOLOGICAL SERVICES LTD.

Christopher James Gold Corp.

Big Kidd Project

REGIONAL GEOLOGY

Date: Jan.15/1998	Project: 579	Scale: As shown	N.T.S.: Quesnel Trough	Mining Div: Nicola	Figure: 4

the Nicola Group. These intrusions have an association with copper and copper-molybdenum porphyry deposits such as the Highland Valley and Brenda; copper-iron skarn deposits such as Craigmont; gold skarns such as Nickel Plate (Figure 4).

The Nicola Group is unconformably overlain on its western flank by mafic to felsic volcanics and clastic sediments of the Spences Bridge Group. These are Late Cretaceous continental sequences. Eocene volcanic rocks of the Princeton and Kamloops Group are some of the youngest formations in the eastern and western parts of the Aspen Grove area.

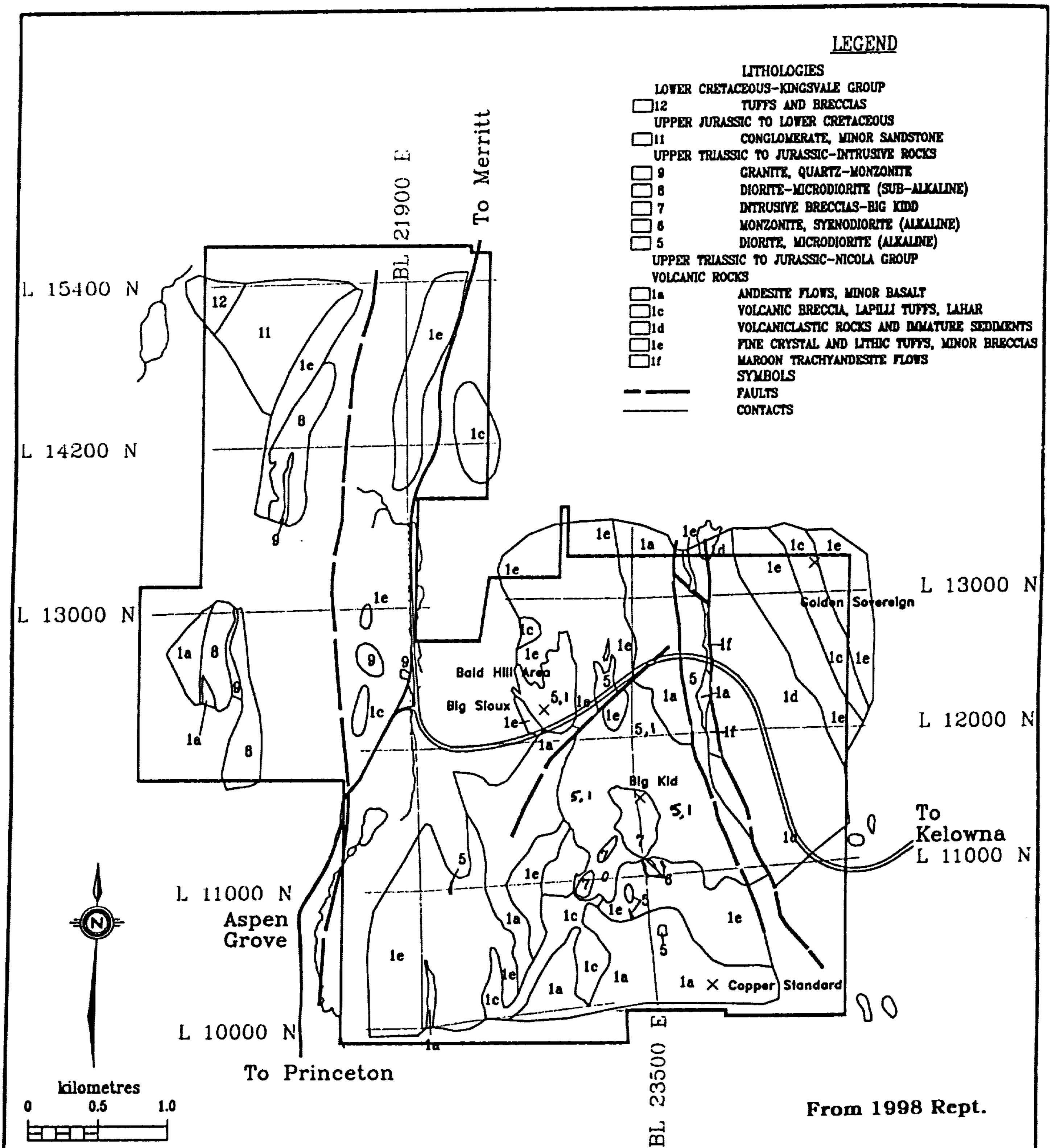
It is informative to examine the public domain Minfile data for the Aspen Grove belt. A very high concentration of copper showings in the area is clearly evident. Half of the known copper-gold occurrences in this area occur on the property. Five of these: the Big Sioux, Bornite, Giant, Big Kidd and Copper Standard define a northwest trend.

2.2 PROPERTY GEOLOGY

An eroded Nicola age (Triassic) volcanic centre is located on the property close to the triple junction between the three major structures in the belt (Quilchena, Allison and Kentucky-Alleyne fault zones). This high level alkaline volcanic-intrusive complex is centred on the Big Kidd intrusion breccia (volcanic neck) and features comagmatic monzodiorite, monzonite and syenomonzonite intrusives, andesite to trachyandesite volcanic flows and volcaniclastic rocks (Figure 5). The main area of intrusions has southeasterly trend; its exposed part is over 1.5 kilometres long by 1 kilometre in width and extends from Bald Hill to south of the Big Kidd. In this intrusive area structurally controlled and disseminated chalcopyrite-pyrite mineralization has strong copper-gold correlations; the presence of late monzonite to syenomonzonite intrusive phases and potassic alteration appears important. The style of mineralization and type of associations are typical of a volcanic centred alkaline porphyry system. Elsewhere on the property structurally controlled copper mineralization typical of the Aspen Grove belt is associated with subsidiary structures to the main faults: the Kentucky-Alleyne in the east and Allison in the west. The mineralization is predominantly hosted by Nicola volcanic rocks and contains chalcocite, local bornite and secondary copper minerals including native copper, malachite, azurite and digenite. Gold values are generally rare in this setting. To the west of the Allison fault northerly trending Nicola Group volcaniclastic rocks are intruded by calc-alkaline diorites. Copper mineralization is rare in this area. Younger Jurassic and Cretaceous clastic sediments and felsic volcanics possibly belonging to the Kingsvale Group lie to the northwest.

Intrusion and Intrusion-Hydrothermal Breccias (Unit 7)

The Big Kidd intrusion (hydrothermal) breccias, Unit 7, form an elliptical body with a northwest trending long axis of 600 metres and widths between 300 and 350 metres. The pipe appears to be subvertical and represents a volcanic neck choked with angular to subrounded fragments of Unit 1 volcanic rocks and Unit 5 and 6 intrusive rocks. These fragments range in size from millimetres to tens of metres. Two facies of breccia are recognizable in the pipe. A marginal facies (**Unit 7b**) which may be a few tens of metres wide. Within Unit 7b, massive wallrock volcanic or diorite grades into volcanic dominated monolithic or bimodal breccia (with diorite). Fragments of other lithologies are rare to absent, in particular syenomonzonite to syenite. Most fragments are angular to subangular and the matrix is fine rock flour, frequently chloritized. A central heterolithic breccia facies (Unit **7a**) contains poorly sorted, subangular to rounded, matrix supported fragments of Unit 1 volcanic rocks (including tuffs and hornfels), Unit 5 and 6 intrusions and coarser porphyritic syenite, syenomonzonite. Larger syenitic boulders are commonly well rounded. The matrix to these breccias may be intrusive (Unit 6) to strongly altered (dioritized!) with fine to coarse grained K-feldspar, magnetite, epidote, chlorite, carbonate, pyrite and chalcopyrite (local albite). Potassic altered breccias are well developed on the western and northern sides of the pipe and feature strong K-feldspar alteration rims on most fragments. These also feature some of the strongest disseminated matrix pyrite-chalcopyrite mineralization in the pipe.



KAMLOOPS GEOLOGICAL SERVICES LTD.	Christopher James Gold Corp.
Big Kidd Property	PROPERTY GEOLOGY MAP

Date:	Project:	Scale:	N.T.S.:	Mining Div:	Figure:
Jan.15/1998	579	as shown	92H.097,98	Nicola	5

Unit 6 dykes are generally between 1 and 10 metres wide and trend north to northwest. They clearly post-date Unit 1 volcanics and Unit 5 intrusives. In the Big Kidd breccia (Unit 7) these may form the intrusive matrix. An earlier suite of syenitic intrusions are represented by fragments in the breccia. There are close spatial and inferred genetic relationships among Unit 6 dykes, potassic (K-feldspar) alteration and sulfide mineralization (pyrite-chalcopyrite-gold?).

2.3 THE GEOLOGICAL MODEL AND TARGETS

The Triassic to Jurassic age volcanic arc terranes of Quesnellia and Northern Stikinia in British Columbia host a distinct group of copper porphyry deposits with high gold content (plus Ag). These alkalic suite porphyry deposits are rare outside of British Columbia. They are generally smaller than the well known copper-molybdenum, calc-alkaline porphyry deposits such as Highland Valley Copper but have higher unit values ($/tonne) due to the precious metal contents. The location of the main alkalic porphyry deposits in British Columbia including Afton, Copper Mountain, Mount Milligan and Mount Polley (current producer) are shown on Figure 6. The size and grades (Cu, Au, Ag) for these are shown on the accompanying table to this figure.

A volcanic centred alkalic porphyry copper-gold setting has been demonstrated by recent exploration(since 1990) on the Big Kidd Property. The Big Kidd breccia pipe (volcanic neck) is over 350 metres in diameter. Its geological features including alteration and mineralization fit recent alkalic porphyry models to a remarkable degree (see Figure 7). Based on published data and personal experience breccia bodies in these settings commonly have the highest (often multigram) gold grades. Examples occur at Galore Creek, Iron Mask and Mt. Polley. 1997 exploration at Big Kidd by Christopher James Gold Corp. indicated excellent potential for multigram gold zones with low copper in the northern part of the breccia pipe.

Comparisons with BC. Alkalic Cu-Au Systems

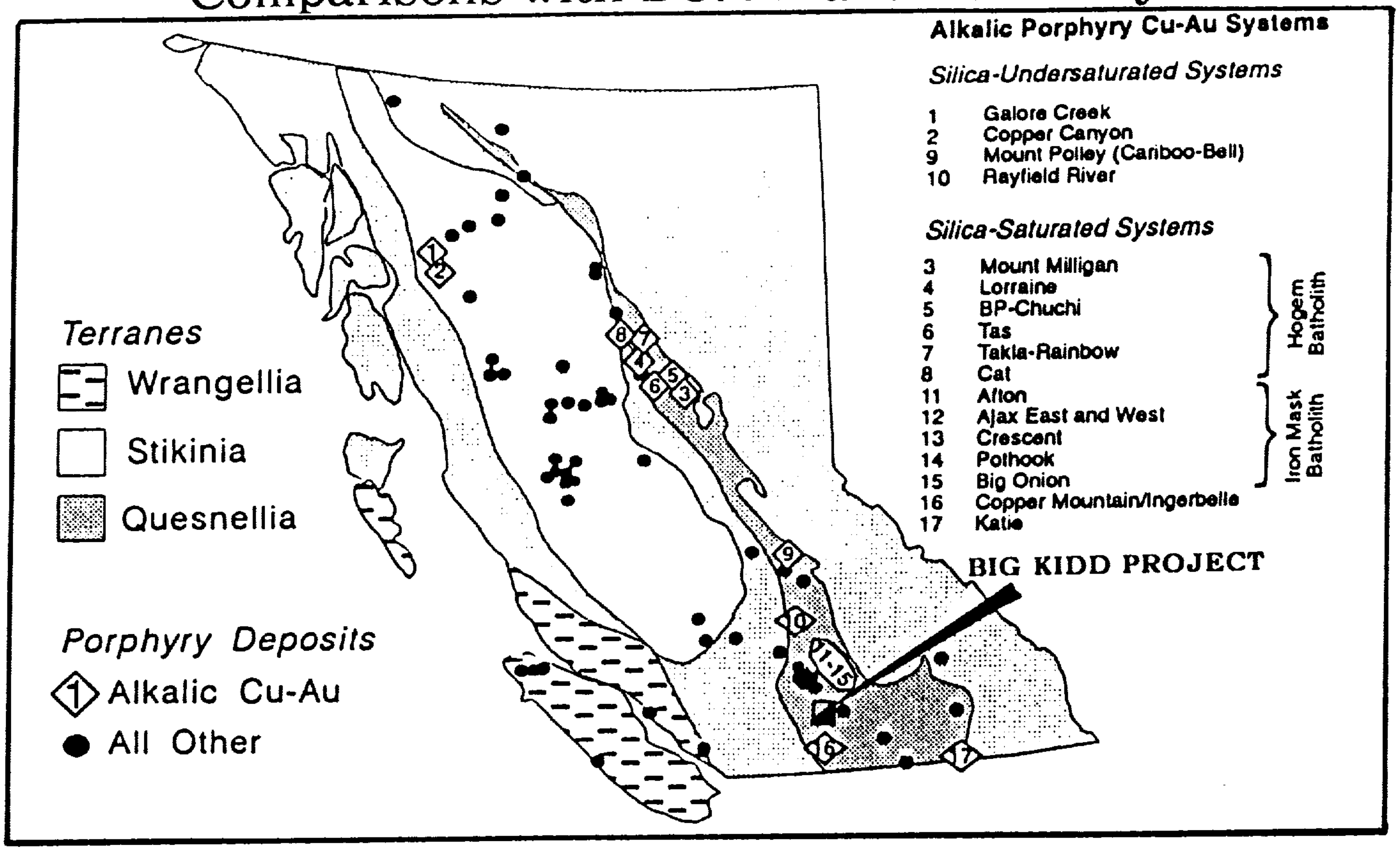


Figure 1. Location of porphyry base and precious metal deposits in the tectonostratigraphic terranes of British Columbia. The distinction between silica-saturated and silica-undersaturated deposits is discussed in the text.

TABLE I. Reserves in some alkalic porphyry Cu-Au deposits.

	Age (Ma)	Million Tonnes	Cu %	Au ppm	Ag ppm	Reserve Type	Source
Mount Milligan	183	299	0.22	0.450		mineable	Sketchley and others (in press)
BP-Chuchi	185(est)	50	0.21-0.40	0.21-0.44		geologic	Nelson and others (1991)
Lorraine	185(est)	10	0.70	0.343		geologic	Kennecott Corp (pers. comm.)
Copper Mtn Camp	205	167.7	0.46	0.127	1.72	production	Holbeck and others (in press)
Afton	206	30.8	0.77	0.580	4.2	mineable/prod	Kwong (1987)
Ajax	206	20.7	0.45	0.340		mineable/prod	Ross and others (in press)
Pothook	206	3.26	0.35	0.770		production	L. Bond (pers. comm.)
Big Onion	206						not available
DM	206	2.685	0.38	0.270		geologic	L. Bond (pers. comm.)
Crescent	206	1.448	0.44	0.180		production	L. Bond (pers. comm.)
Katie	185(est)	small	0.04-1	low 0.X			Cathro and others (1993)
Galore Creek	211	125	1.06	0.400	7.7	proven	Enns and others (in press); Sinclair and others (1982)
Mount Polley	203	48	0.44	0.583	4.5	mineable	Nicic and others (in press); Sinclair and others (1982)

TABLE 2. MORE SIGNIFICANT DRILL INTERSECTIONS: BIG KIDD PROJECT

	INTERSECTION (Metres)	Cu%	Au ppm or g/t
NORTH BRECCIA TARGET			
DDH 92-1	173.0 - 244.0 (71.0)	0.20	0.75
DDH 97-5	200.0 - 234.9 (34.9)	0.11	1.95
	215.44-234.9 (19.46)	0.11	3.09
DDH 97-4	227.31-245.31 (18.0)	0.28	1.97
WEST BRECCIA TARGET			
DDH 97-6	3.96 - 31.42 (27.46)	0.306	0.21
DDH 97-7	6.66 - 30.50 (23.84)	0.325	0.32

Figure 6

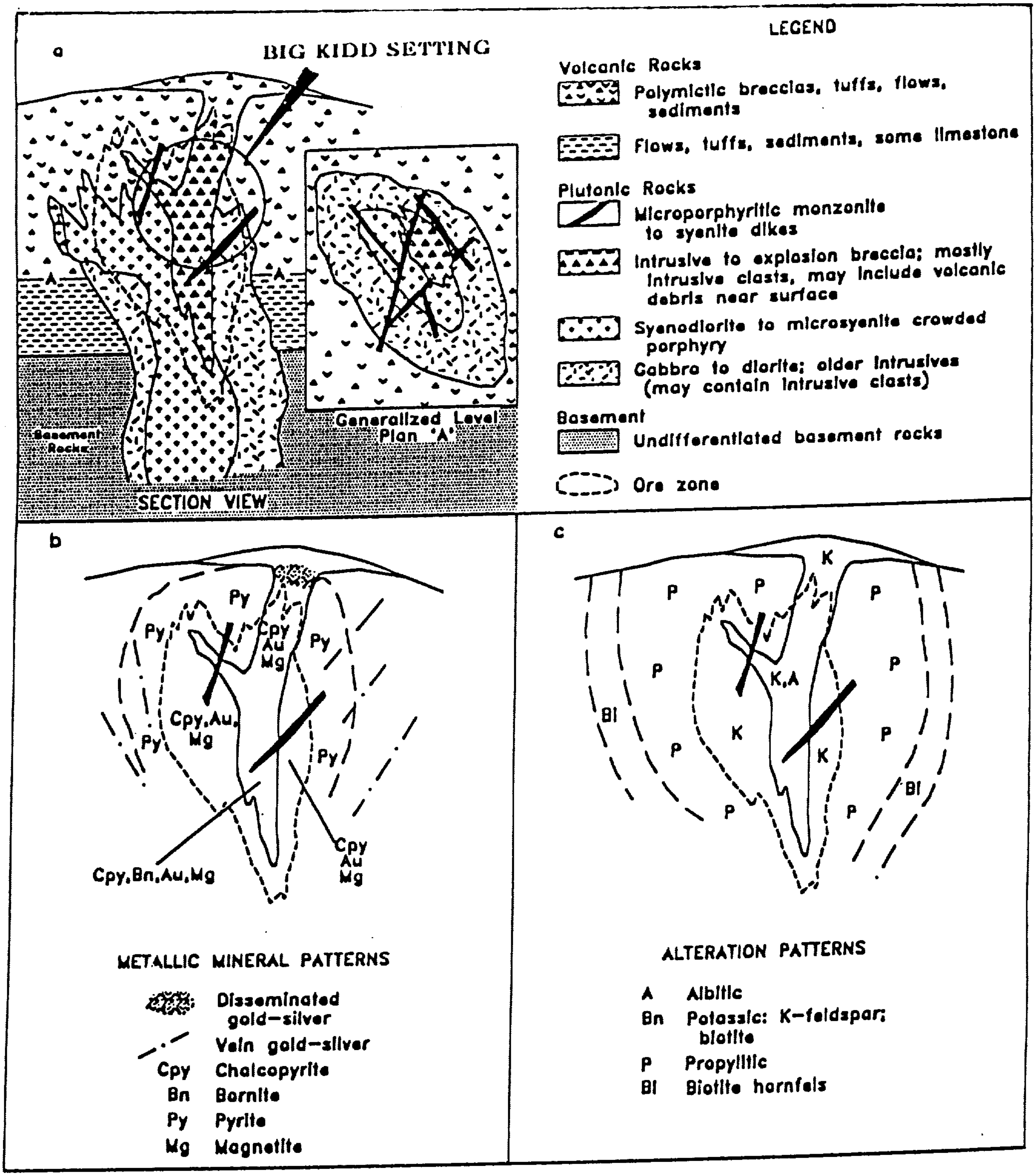


Figure 5. Model of typical alkalic porphyry copper-gold deposit (draws heavily on data from Fox, 1989; Preto, 1989; Mutschler and Mooney, in press; and other sources).

Alkalic Porphyry Copper–Gold Deposit Model.

After McMillan & Panteleyev.

Figure 7

Three targets for future exploration drilling were indicated by 1997 exploration in the Big Kidd breccia area. Several other interesting gold targets occur elsewhere on the property but take low priority at this time. The North Breccia Target is by far the most promising for gold based on the limited amount of drilling to date. All three previous diamond drill holes in this area have produced multigram gold values at fairly shallow depth (150 to 200 metres) over 20 metre widths. The higher grade zones occur within much broader envelopes up to 100 metres wide averaging 0.3 to 1.0 g/t gold. Based on present knowledge there is potential for both open pittable and underground bulk tonnage gold zones depending on grades, geometry etc. In this environment there is room for a single or more likely several breccia hosted gold zones. One of the most exciting features of this breccia environment is its apparent high gold content compared to better known alkalic porphyry systems (see tables on Figure 6 for comparisons).

3.0 PHASE 1, 1999 DIAMOND DRILLING PROGRAM

Early in 1999 a corporate decision was made to concentrate exploration efforts on the North Breccia target. Based on previous results in this area at the northern edge of the Big Kidd breccia pipe it clearly had the best potential for bulk tonnage gold (copper) zones possibly with average gold grades better than 1 g/t. Three previous holes in 1992 and 1997 had returned intersections close to 20 metres long averaging between 1 and 3 g/t gold. Several individual gold values were in the 2 to 11 g/t range. At surface in this area Placer Dome trench 92-2 returned 32.5 metres averaging 0.56 g/t gold, 0.112% copper with some individual gold values close to 1 g/t.

The author recommended a staged drilled program (Wells, 1999) to test the North Breccia target area. The object of this program was to evaluate the geometry of the gold zone(s) and grade distribution in this area; basically to improve understanding and to begin developing geological gold reserves. Systematic diamond drilling would involve regular spaced holes and 40 to 70 metre pierce points along strike and up and down dip. To be cost effective each phase would consist of 2 to 3 drill holes. Drilling would commence from the best understood area below Placer Dome trench 92-2 and step outwards east and west.

3.1 PROCEDURE

The 1999 Phase 1 diamond drilling program consisted of two NQ holes drilled to the SSW azimuth 210^0 at 45^0 and 57^0 dip from a single set up at the northern edge of the breccia pipe (Figure 8). These tested the area beneath trench 92-2 vertically above and below previous drill (gold) intersections. In total 514.81 metres were drilled between the 2nd and 23rd of September using a single shift by Core Enterprises Ltd based in Clinton, BC. Water was pumped from a nearby lake using 7000 feet of water line in two stages.

GEOLOGICAL LEGEND

UPPER TRIASSIC TO LOWER JURASSIC

7 INTRUSION BRECCIAS (Undifferentiated)– fragments of volcanics, hornfels (1), and diorite to syenite(5,6) in a diorite to monzonite/syenomonzonite matrix. The matrix is commonly altered with variable K-feldspar, albite, carbonate, epidote, magnetite, local pyrite, and chalcopyrite.

- **7a** HETEROLITHIC INTRUSION BRECCIAS – mixed volcanic, hornfels and intrusive rock fragments.
- **7b** MONOLITHIC TO BIMODAL HETEROLITHIC INTRUSION BRECCIAS – Volcanic(1,1h) and, or diorite(5,5a) fragments dominate.

6 POTASSIC DYKES AND SILLS – Feldspar and feldspar-hornblende porphyries. Significant groundmass K-feldspar. May be earlier or later than 7.

5 DIORITE, MONZODIORITE TO POTASSIC MONZONITE – Predominantly equigranular local plagioclase and/or hornblende porphyries. 5a – fine to medium grained equivilants of 5.

NICOLA GROUP – CENTRAL BELT

1 VOLCANIC ROCKS (Undifferentiated)

- **1a** GREEN TO MAROON ANDESITE AND MINOR BASALT – Massive to amygdaloidal flows, interflow fragmental units, autobreccias.
- **1b** AUGITE, PLAGIOCLASE AND/OR HORNBLENDE PHYRIC FLOWS (as above)
- **1c** GREEN TO MAROON LAPILLI TUFFS, LOCAL CRYSTAL TUFFS AND VOLCANIC BRECCIAS
- **1h** UNIT 1 IN CONTACT METAMORPHIC ZONES – HORNFELS Strongly magnetic with variable magnetite, epidote and pyrite.

SYMBOLS

- Outcrop area, small outcrop, float
- area of subcrop
- Geological boundary
- Fault, observed, interpreted
- Foliation – inclined, vertical
- Jointing – inclined, vertical
- Trench, pit
- Adit, shaft
- BK97-01 Diamond drill hole (projected to surface) BK97-01 to BK97-10; 1997 CJGC program 92-1 to 92-6; 1992 Placer Dome program
- Trails and property roads

0 100m.
Scale

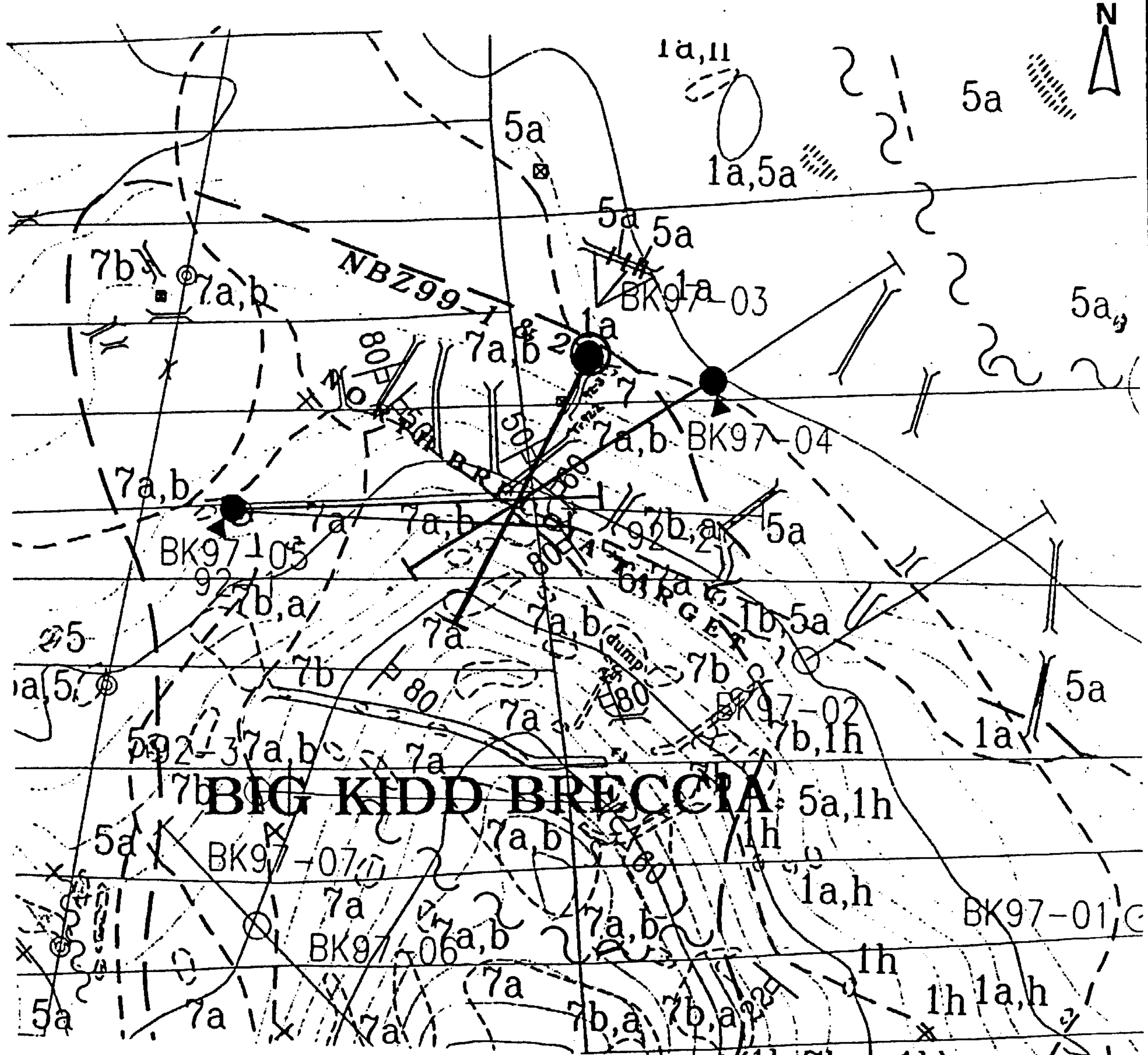


FIGURE 8: NORTH BRECCIA TARGET – DRILLING WITH PHASE 1 HOLE LOCATIONS

Drilling was supervised by the author and the core was transported to Kamloops on a regular basis for logging, splitting and sampling. All of this work was by Kamloops Geological Services Ltd.

All core samples were split using a standard Longyear splitter, and one half of the core was sent to Eco-Tech Laboratories in Kamloops for geochemical gold (30 gram) and 30 element ICP analyses. Samples with gold values greater than 900 ppb were routinely assayed. The remaining core is stored at the Amex site near Kamloops BC with that from 1997 and 1992 drilling programs.

3.2 RESULTS

Diamond drill logs are presented in Appendix B with relevant analytical data and composites. Check assays were completed on 15 samples from three different shipments by Eco-Tech Laboratories. This data occurs in Appendix F. 1:500 scale sections for drillholes NBZ99-01 and 02 occur in Appendix C. Figure 9 is a section with all first pass copper (ppm) and gold (ppb) sample values. Figure 10 is a similar drill section with summary geological data and selected intersections with calculated average copper and gold values. Both drill sections show approximate pierce points for 1997 drillholes BK97-4 and 5 with associated copper (%) and gold (g/t) values.

Lithologies

Holes NBZ99-01 (230.43) and NBZ99-02 (284.38m) were collared in intrusion breccia (Unit 7) of the Big Kidd pipe and stayed predominantly in this geological unit apart from several porphyritic monzonite dykes (unit 6). These geological units with their boundaries are shown on drill section, Figure 10.

The intrusion breccias are variably magnetic, predominantly matrix to weak clast supported and heterolithic (unit 7a). Clast lithologies are variably altered, locally quite fresh and include: pink to grey plagioclase (minor hornblende) porphyritic monzonite, more equigranular grey micromonzonites-microdiorites and green to grey andesites and basalts (local augite and/or hornblende porphyries). The latter are commonly metamorphosed (Unit 1h hornfels), quite magnetic and similar in composition to the surrounding country rock Unit 1 volcanics.

In the drill logs (Appendix B) clast size is given as fine (1 to 10 cm), medium (10-30cm) coarse (>30 cm) and very coarse (>50 cm). Clasts are generally subangular to subrounded, however coarse clasts are often well rounded especially pink (potassic) monzonite porphyries. The matrix to these breccias may be microdioritic-intrusive to strongly altered and obscured with variable fine-medium, to locally coarse grained K.feldspar, epidote, chlorite, carbonate, albite, pyrite, magnetite and fine chalcopyrite. Coarse to very coarse breccias are often matrix poor, locally tightly packed, especially Unit 7b bimodal or homolithic (monzonite, and/or metavolcanic clasts) in NBZ 99-02. The matrix to these is often coarse grained with significant amounts of pyrite, magnetite and locally chalcopyrite. The relative positions of coarse breccia facies in the two holes suggests a shallow northerly (apparent) dip on section (Figure 10).

Crowded pink to grey monzonitic porphyries with flow aligned tabular plagioclase and minor (>5%) tabular hornblende phenocrysts in a fine k.feldspar rich groundmass predominate. Most of these dykes have apparent true widths of less than 10 metres on section and frequently contains small, subrounded to rounded magnetic mafic xenoliths (volcanic?) in the 1 to 7 cm size range. On section some dykes have interpreted steep dips others are near horizontal. One more major dyke with interpreted steep dip on section (Figure 10) is closely associated with broad potassic (K. feldspar) alteration zones in the adjacent breccias, both holes. The last 19 metres of hole NBZ99-02 was in a strongly altered potassic to sodic dyke swarm with fine equigranular to plagioclase porphyry sections. This hole did not penetrate through the dyke swarm; hole NBZ 99-01 stopped short of this unit (or was above?).

A narrow shallow dipping mafic dyke or sill (MD) was encountered above 100 metres in both holes. It is chloritic altered, fine grained equigranular to feldspar phryic. In hole NBZ99-01 this unit is intruded, fractured and mineralized by a later potassic monzonite dyke (Unit 6).

Alteration and Mineralization

In both 1999 drillholes breccias display variable patchy pervasive and veinlet related alteration. Pervasive carbonate alteration and veinlets are widespread in the matrix but more restricted in clasts. Monzonite clasts are commonly weak to moderate carbonated. Epidote veinlets are widespread in clasts and matrix, however in the latter fine to coarse grained epidote often forms disseminated clots/aggregates. These clots may be 0.5 to 1.5 cm in diameter and locally form aggregates with coarse pyrite, magnetite, dark chlorite, finer K.feldspar and carbonate. Moderate to strong chloritic alteration is common in mafic volcanic clasts, mafic dykes and locally weak pervasive in breccia matrix. K. feldspar (potassic) alteration is widespread in the matrix to breccias but is often difficult to distinguish from small overprinted potassic monzonite clasts. Pervasive albite (sodic) alteration in matrix areas is even more difficult because of its fine grain size and widespread similar light coloured carbonate. Many of the Unit 6 monzonite dykes have associated K.feldspar alteration and veining in the adjacent breccias. These dykes also commonly feature fracture controlled K.feldspar alteration. Where there is significant matrix and clast rim K.feldspar alteration the breccias are called potassic 7AK or 7K on section (Figure 10).

Extensive areas of potassic breccia (10 to >20 metres wide) occur proximal to the steeply dipping lower monzonite dike. Zones of strong K.feldspar alteration occur in the dyke swarm below. Strong bleaching may be related to strong carbonate or albite alteration locally with associated sericitization of plagioclase. Fine quartz-carbonate vein, veinlet and stockwork zone may occur in more fractured areas proximal to dykes, locally within bleached dykes or in isolated strongly bleached fracture zones.

Fine to medium grained pyrite is ubiquitous to all lithologies on this drill section. The breccias contain between 2 and 10% (often 3 to 6%) pyrite, predominantly as disseminations, clusters and small aggregates. Coarse grained pyrite with magnetite (local chalcopyrite) aggregates are quite common and can be visually spectacular in matrix poor areas to coarse breccias. Pyrite veinlets and anastomosing networks occur locally both in matrix and some clasts. Volumetrically the most pyrite occurs in fine to medium clast, matrix rich, altered breccias. Although visually impressive the sulfide mineralization in coarse breccias is generally low volume. Between 1 and 5% fine to very fine grained pyrite occurs as veinlets and disseminations in monzonite dikes and clasts.

Chalcopyrite is common but difficult to recognize because of fine grain size and association with pyrite grain clusters. Significant amounts of recognizable fine chalcopyrite occur in potassic breccias proximal to the lower, steeply dipping monzonite dyke. Some fine chalcopyrite also occurs with pyrite in veinlets both in breccia and dyke. Medium to coarse grained magnetite is widespread in the matrix to breccias and some metavolcanic clasts (1h). Proximal to monzonite dykes the magnetite may form monomineralic veinlets or lenses in the breccia or occur with quartz and carbonate in veins with fine wallrock sulfides.

Quality Control on Analytical Data

Internal quality control was routinely conducted on samples by the laboratory. In addition 15 samples with higher gold values (10 geochemical, 5 assay) were checked by fire assay using a second split (company request). All of this was by Eco Tech Laboratories Ltd. This check data occurs in Appendix F and is plotted on a comparison graph Figure 11. Assay against assay values indicates good checks between 1 and 2 g/t. The two higher gold values at 2.80 and 2.20 g/t were 1.74 g/t (62%) and 2.02 g/t (89%) respectively from the second split. This suggests a nugget effect or homogenization problem. Second split assays against first split geochemical gold (30 gram) in the 0.3 to 1 g/t range indicates generally higher values by assay with 5 and 15% increase (maximum 135%).

The second split values if averaged with the first split originals do not result in a significant change in average intersection values. For consistency all values and assay intervals on the drill sections were taken (or calculated) from first split, original data.

Gold and Copper Intersections

Individual sample gold and copper values are shown on Figure 9 while selected intervals with calculated average gold and copper values occur in Figure 10 with summary geology. Examination of the individual values over the entire lengths of both holes indicates highly anomalous background. In the breccias gold is rarely below 50 ppb and copper 500 ppm, silver values are generally low (see Appendix A).

There are two main zones of breccia hosted gold-copper mineralization in the two holes with a possible third developing in altered intrusive at the bottom of hole NBZ99-02 (Figure 10):

1. An upper mineralized zone in both holes possibly links with the surface mineralization in trench 92-2 (32.5m @ 0.56 g/t Au, 0.112% Cu) which would make it near vertical on section. The higher average values occur in the upper hole with 0.182 g/t gold and 0.113% copper over 35.90 metres (maximum Au value 0.55 g/t). In the lower hole a 15.51 metre intersection averages 0.125 g/t gold and 0.131% copper (maximum Au value 0.18 g/t).

2. The second larger and far more significant gold-copper zone is centred on the steeply dipping potassic monzonite dyke and surrounding potassic altered breccias. In hole NBZ99-01 the gold values are stronger below the dyke while in hole NBZ99-02 they are above (Figure 10). The mineralization is visually stronger and has higher values in the deeper hole NBZ99-02. A central area around the dyke averages 0.622 g/t gold and 0.204% copper over 70.28 metres (231 feet) with a further 45.75 metres (150 feet) above

averaging 0.192 g/t gold and 0.101% copper. Within the main intersection three significant intervals average better than 0.5 g/t gold as follows:

167.36m to 177.83m (10.47m)	0.97 g/t Au, 0.11% Cu
191.00m to 209.10m (18.10m)	1.00 g/t Au, 0.27% Cu
213.75m to 229.28m (15.53m)	0.53 g/t Au, 0.35% Cu

The highest gold value was 2.8 g/t, the highest copper 0.78%.

The intersections in hole NBZ99-01 60 to 70 metres vertically above were separated by low values in 6.75 metres of monzonite dyke (Figure 10). Above the dyke 26.31 metres of breccia averaged 0.20 g/t gold, 0.122% copper. Below the dyke to the end of the hole, 61.93 metres (203 feet) averaged 0.31 g/t gold, 0.18% copper, including one 12.0 metre interval with 0.42 g/t gold and 0.32% copper. The highest individual gold value in the total interval was 0.81 g/t; copper 0.5%.

As can be observed from the pierce points on Figures 9 and 10 the highest gold values in hole NBZ99-02 (greater than 2 g/t) closely coincide with the multigram gold (copper) intersections in 1997 holes BK97-4 and 5.

A visually unexpected gold-copper intersection occurs at the bottom of hole NBZ99-02 averaging 0.333 g/t gold, 0.186% copper over 5.15 metres (last sample ran 0.535 g/t Au). This is significant as it is entirely in weak potassic altered intrusive rocks with 1-3% pyrite.

4.0 PHASE 2, 1999 DIAMOND DRILLING PROGRAM

In late September at the end of Phase 1 diamond drilling strong recommendations were made to continue with a Phase 2 program (without a break) while the equipment was on site. The recommended Phase 2 program included 1890 metres of diamond drilling in 7 holes and had an estimated cost of $230,000. Also:

"*The results from the NBZ 99-01/02 drill section warrant a steeper (deeper level) hole below NBZ 99-02. The up dip potential for the lower gold (copper) zone should also be tested on this section by drilling a shallow hole from the upper trail. Step out drilling should consist of 2 or 3 holes (each) on parallel sections, 50 metres east and west of the Phase 1 section. These can be drilled at various angles from the lower trail.*" (Wells, 1999)

4.1 PROCEDURE

Because of limited funds only two Phase 2 holes could be completed in 1999. A deeper hole NBZ 99-03 (-67) on the NBZ 99-01/02 drill section and a parallel step-out hole 50 metre to the east NBZ 99-04 (-55). The hole locations are shown on Figure 12. In total 565 metres were drilled between the 23 September and 12 October 1999 using single and some double shifts by Core Enterprises Ltd. based in Clinton, BC.

Drilling was supervised by the author and the core was transported to Kamloops on a regular basis for logging, splitting and sampling. All of this work was by Kamloops Geological Services Ltd.

All core samples were split using a standard Longyear splitter, and one half of the core was sent to Eco-Tech Laboratories Ltd. in Kamloops for geochemical gold (30 gram) and 30 element ICP analyses. Samples with gold values greater than 900 ppb were routinely assayed.

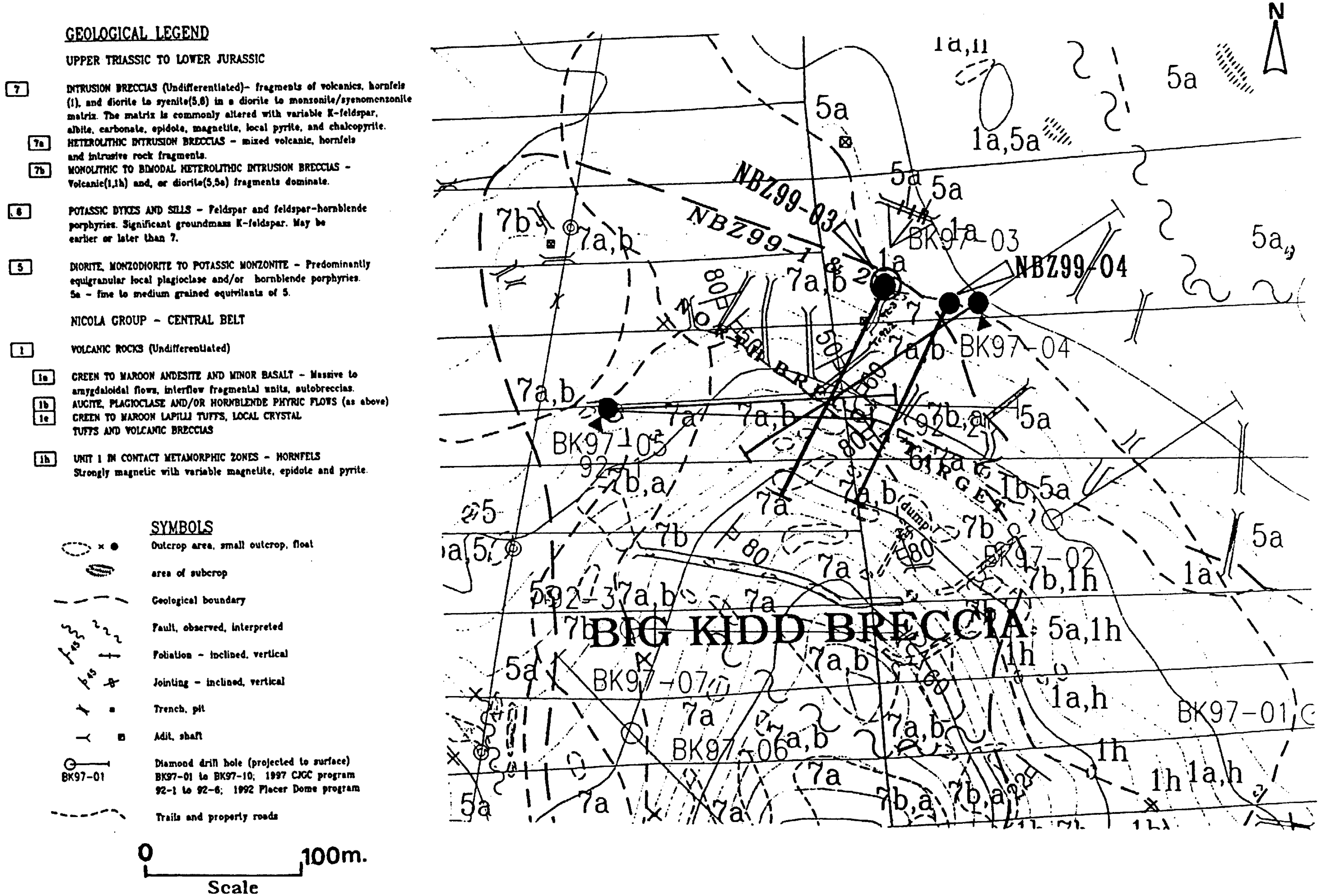


FIGURE 12 : NORTH BRECCIA TARGET - DRILLING WITH PHASE 2 HOLE LOCATIONS

The remaining core is stored at the Amex site near Kamloops BC with that from 1997 and 1992 drilling programs.

4.2 RESULTS

Diamond drill logs are presented in Appendix D with relevant analytical date and composites. Check assays were requested by the company for 15 samples from two different shipments by Eco-Tech Laboratories Ltd., this data occurs in Appendix F. 1:500 scale sections for drillholes NBZ 99-03 and 04 occur in Appendix E. The results from the four holes on the two drill sections are discussed in the following sections.

(A) SECTION NBZ 99-01/02/03

Lithologies and Structure

Hole NBZ 99-03, like the two other holes on this section stayed within the Big Kidd breccia pipe and encountered a sequence of altered intrusion breccias cut by narrow porphyritic monzonite dykes (Figure 13).

The intrusion breccias in hole 03 were very similar to those in the other holes, although very coarse breccias were rare. Some coarse breccia sections do occur in the hole within the top 100 metres, however only the uppermost of these shows any correlation with the coarse breccia zones in the holes above. Heterolithic matrix supported intrusion breccias predominates with mixed mafic metavolcanics, porphyritic monzonite and diorite clasts.

Several late monzonite dykes cut the breccia sequence, these may be plagioclase-hornblende or crowded plagioclase porphyries with significant amounts of fine grained K.feldspar in the groundmass. Most dykes contain variably rounded and assimilated mafic (volcanic?) xenoliths. Crowded plagioclase porphyry dykes often display strong alignment of phenocrysts (flow fabrics) parallel to contacts. The dykes are narrow, between 2 and 10 metres wide on section with sharp to irregular contacts. There is generally good correlation between dykes in the three holes at shallow depth (<100m). These dykes have shallow apparent dips on section but probably have steep east or west dips? The orientation of deeper dykes (>100m) in these holes is more difficult. The relative positions of these dykes, K. feldspar altered breccias and associated mineralization clearly suggest displacements. Two steeply dipping late faults can be interpreted on this section to explain these displacements (figure14). The (upper) more northerly and stronger of these is over 4 metres wide in holes 02 and 03 with chlorite and slip surfaces. This fault has an apparent south downthrow in the order of 30 to 50 metres on section.

Alteration and Mineralization

The styles of veining, alteration and mineralization in hole 03 are consistent with that in the other holes on this drill section. Patchy, fine to medium grained disseminated pyrite is widespread in the variably altered matrix to breccias, rarer in clasts and dykes. Coarse pyrite-magnetite-chalcopyrite aggregates occur with dark chlorite, carbonate, epidote and local K.feldspar in some more restricted matrix areas. Several strong bleached zones cut the breccias and feature intense carbonate (with albite) alteration around quartz-carbonate veins and stockworks. Many of these appear to be early fracture/alteration zones, possibly associated with narrow dykes. Patchy, very fine to fine disseminated pyrite occurs with the alteration as well as dark chlorite which locally appears to overprint magnetite.

Broad zones of potassic (K. feldspar) alteration occurs between 160 and 229.5 metres in the hole associated with crowded porphyry dykes. Patchy, fine disseminated chalcopyrite is recognizable in matrix areas throughout this more magnetic section (magnetite). The potassic dyke at 210.32 to 217.35 is well mineralized with pyrite and chalcopyrite. There is a significant decrease in pyrite, chalcopyrite, and K. feldspar proximal to and below the fault zone at 239 metres in the hole.

Gold and Copper Intersections

Individual sample gold and copper values for hole NBZ 99-03 are shown on Figure 13, with summary geology and selected assay intervals. High background gold and copper values occur throughout the hole within breccia and dyke units. There is however a very noticeable decrease in gold values below 229 metres.

The Upper and Lower gold-copper zones observed in holes NBZ 99-01 and 02 are evident in NBZ 99-03 with an additional low grade zone close to surface. This near surface zone averages 0.11 g/t Au and 0.15% Cu over 41.80 metres (16.20-57.80m) and is hosted by heterolithic intrusion breccias below a larger hornblende-plagioclase porphyry (monzonite) dyke. Numerous fine epidote and carbonate veinlets occur within this section of breccia with local bleached zones accompanying quartz-carbonate veining.

The upper mineralized zone correlates with the steeply dipping zone between NBZ 99-02 and surface trench 92-2. Potassic alteration is stronger with matrix and clast rim K.feldspar. There are two intersections coincident with the stronger potassic alteration including 0.16 g/t Au, 0.20% Cu over 18.37 metres (78.00-96.37m) and 0.28 g/t Au , 0.10% Cu over 13.13metres (100.27-113.49m).

The lower mineralized zone coincides with extensive potassic-K.feldspar alteration in breccias with several potassic monzonite dykes. A 67.34 metre intersection between 157.88 and 225.22 metres in the hole averaged 0.24 g/t Au, 0.17% Cu. Within this are two higher grade sections, one with 24.27 metres (168.93-193.20m) averaging 0.42 g/t Au and 0.21% Cu, well above the main dyke. The second, 9.42 metres long straddles the dyke's lower contact and averages 0.13 g/t Au, 0.26% Cu. Higher copper values up to 0.57% and some higher gold (up to 1.6g/t) commonly correlate with stronger alteration and sulfide mineralization at dyke contacts. Higher average gold values (>0.3g/t) correlate with some other zones of stronger potassic alteration in the breccias with local coarse grained magnetite-pyrite-chalcopyrite veins. The lower mineralized zone in hole NBZ99-03 has many features in common with hole 02, in particular the distribution of gold-copper values around the dyke(s). There does however appear to be some vertical displacement of the zone between holes 03 and 01/02. This could be accommodated by one or more steeply dipping late faults with downthrow to the south.

The position of the pierce point for hole BK 97-5 (19.46m @3.10g/t Au, 0.113%Cu) lies between the two highest gold intersections in hole NBZ 99-02 and 03.

(B) SECTION NBZ 99-04

Hole NBZ 99-04 was a 50 metre step out to the east from the previous drill hole section. This hole was drilled at -55° at the same azimuth 210 SSW (Figure 14).

Lithologies and Structure

This hole was collared to the north of the Big Kidd breccia pipe and consequently encountered a 29 metre long section of country rocks before entering the breccia body. Nicola Group mafic metavolcanic flows have been converted to strongly magnetic, fine grained, basic hornfels with numerous veinlets and patchy epidote-carbonate alteration. Original trachyandesite compositions are probable. There is a gradual increase in brecciation downwards from strong veining to crackle breccias to mosaic breccias with some intrusive matrix. At the very top of the hole these volcanics are intruded by a nine metre or more wide plagioclase-hornblende porphyry (monzonite) dyke which is quite similar to dykes intruding the breccias below.

The rest of the hole is in intrusion and volcanic breccias of the Bigg Kidd complex with local porphyritic dyks of variable width. Besides a narrow 5 metre wide zone of border phase metavolcanic dominated breccias (unit 7b) the main breccia body is distinctly heterolithic with variable mixtures of mafic metavolcanic, monzonite and diorite clasts. Fine to coarse breccia facies are apparent, most are matrix supported. Coarse breccias are more common in the upper part of the hole as in the drill section to the west. Matrix supported fine to medium clast breccias predominate below 120 metres in the hole. Some sections of fine clast breccia are matrix dominated (>50%). Strong alteration often makes matrix protolith identification difficult, most appear to be intrusive, however some ash supported volcanic breccias may be present.

Variably crowded plagioclase and plagioclase-hornblende porphyry dykes occur throughout the hole both in the breccia and country rocks. Crowded plagioclase porphyries often display strong flow alignment parallel to contacts. Dyke contacts are sharp. Most dykes have significant amounts of fine grained groundmass K.feldspar and variably rounded, small mafic xenoliths. A large composite dyke with two or three porphyritic phases occurs between 60.55 and 109.00 metres in the hole. Compositionally these phases are quite similar potassic monzonites. Similar but narrow 1 to 4 metre wide dykes occur lower in the hole, contact angles (to the core axis) suggest either steep or shallow dips.

There are no obvious late chloritic faults in this hole similar to those on the section to the west. Strong bleached zones in the hole may represent early healed fracture zones.

Alteration and Mineralization

Most of the sulfide mineralization in the metavolcanic sequence is fracture controlled with fine pyrite and pyrite-magnetite veinlets (with local epidote and carbonate) at variable angles to the core axis. Patchy fine to medium (local coarse) grained disseminated pyrite and magnetite is often present. Patchy carbonate and epidote alteration may be vein related and, or metamorphic (hornfels). K.feldspar in the metavolcanics is probably primary with local overprinting, especially proximal to the monzonite dyke. The dyke has fine disseminated and veinlet pyrite with numerous pyrite-magnetite veinlets at the lower contact with the metavolcanics.

As on the section to the west the intrusion breccias have significant amounts of fine to medium grained matrix pyrite throughout. Carbonate alteration is widespread in the breccias with variable matrix, epidote, chlorite, K.feldspar, albite and magnetite. Narrow zones of stronger matrix K.feldspar alteration and clast rims occur at monzonite dyke contacts. A broad zone of potassic altered breccias at the end of the hole (246.17 - 270.66m) occurs below a narrow potassic monzonite dyke and has similarities with the alteration zone associated with the lower mineralized zone in holes to the west. Several narrow bleached (carbonate-albite) zones with quartz-carbonate veins occur in the less potassic altered breccias above.

An interesting feature on this section is that many of the potassic monzonite dykes (including large composite) have far more noticeable fine disseminated and veinlet pyrite, and chalcopyrite mineralization then most of those in the section to the west. Some of these mineralized dykes have contain rare veinlets other than minor quartz-carbonate and, or epidote.

Gold and Copper Intersections

High background gold and copper values occur throughout hole NBZ 99-04 in metavolcanic rocks, breccias and monzonite dykes (Figure 14). Lower gold-copper values in the middle of the hole separate two better grade intervals.

The upper mineralized zone lies directly below shallow overburden (<3.5m) and covers the contact zone between the breccia pipe and country rock volcanics. It also spans an interval between two larger monzonite dykes (Figure 14). A 51.5 metre core interval averaged 0.37 g/t gold and 0.10% copper, including 6.04 metres within heterolithic intrusion breccias averaging 1.25 g/t Au and 0.16% Cu. The average copper values in the metavolcanics (16.89m @ 0.31 g/t Au, 0.11% Cu) and breccia (26.58m @ 0.44 g/t Au, 0.11% Cu) in the main interval are identical; however average gold values in the breccias are a little higher. Both monzonite dykes either side are mineralized; the upper dyke is included with the main assay interval and returned values up to 0.55g/t (below overburden). The lower composite dyke was not entirely sampled; one better mineralized contact zone returned 10.05 metres averaging 0.12 g/t Au and 0.17% Cu. Two narrow, 3 to 4 metre wide dyke intervals between the composite dyke and lower mineralized zone returned similar gold and copper values.

The lower mineralized zone features a 98.16 metre long interval mainly in breccia to the end of the hole, averaging 0.21 g/t gold and 0.10% copper. Copper values in the zone are low relative to gold. Two better grade intervals correlate with a potassic monzonite dyke (4.23m @ 0.50 g/t Au, 0.15% Cu) and potassic altered intrusion breccias (22.51m @ 0.31g/t Au, 0.11% Cu) at the end of the hole.

(C) QUALITY CONTROL ON ANALYTICAL DATA

Internal quality control was routinely conducted on samples by the laboratory. In addition 15 samples with higher gold values were checked by fire assay using a second split (company request). All of this was by Eco Tech Laboratories Ltd. This check data occurs in Appendix F and is plotted on a comparison graph Figure 15.

There is generally good correlation between first split geochemical gold (30 gram) and second split assay. There is however a small but noticeable decrease in some second split values including assay against assay?

5.0 DISCUSSIONS AND CONCLUSIONS

During September and October four diamond drill holes totalling 1080 metres were completed on the North Breccia Zone in two phases. A vertical fan of three holes, NBZ-01 to 03 were drilled southwest between 1992 Placer Dome trench 2. A single parallel hole NBZ 99-04 was drilled 50 metres to the east. Results from the drilling are summarized in Table 2 with previous exploration highlights from this zone. Note, many lower grade intersection are not included with this table.

All four 1999 holes intersected significant lengths of gold-copper mineralized intrusion breccia with late porphyritic monzonite dykes and potassic (K.feldspar) alteration zones. Hole NBZ 99-04 collared just north of the breccia also intersected significant gold-copper mineralization in metavolcanic rocks, and porphyritic monzonite dykes in the contact area.

On the more westerly three hole drill section two, possibly three gold (copper) zones can be interpreted (Figures 13):

- An upper steeply dipping 15 to 36 metre wide gold-copper zone hosted by heterolithic intrusion breccias probably links with surface mineralization in trench 92-2 (32.5 m @ 0.56 g/t Au, 0.11% Cu). This zone may also extend to the old David Minerals trenches 40 to 60 metres to the west which returned 1 g/t gold values over 12 metre lengths (see Table 2).

- A lower, much broader gold-copper zone is centred on a narrow, steeply dipping porphyritic potassic monzonite dyke and its potassic alteration halo in the surrounding breccias. This zone has been tested at vertical depths ranging from 120 to 200 metres with the strongest intersection in NBZ99-02 featuring a 70.28 metres long interval averaging 0.62 g/t Au and 0.20% Cu. This includes three 10 to 18 metre long intervals

Table 2: NORTH BRECCIA ZONE: DATA SUMMARY TABLE

CHRISTOPHER JAMES GOLD CORP.
1999 DIAMOND DRILLING PROGRAM ON THE NORTH BRECCIA ZONE
BIG KIDD PROPERTY
SUMMARY TABLE WITH SELECTED GOLD-COPPER INTERSECTIONS

Hole No Dip: Azimuth	Coordinates	Down Hole Depth From - To (m)	Interval (m)	Intersection Au g/t	Cu %
PHASE 1					
NBZ99-01 -45:210SSW	11624N: 23537E	49.60 - 85.50	35.90	0.18	0.12
		135.44 - 161.75	26.31	0.20	0.12
		168.50 - 230.43 EOH	61.93	0.31	0.18
NBZ99-02 -57:210SSW	As above	72.42 - 87.93	15.51	0.13	0.13
		159.00 - 229.28	70.28	0.62	0.21
		Incl. 167.36 - 177.83	10.47	0.97	0.11
		Incl. 191.00 - 209.10	18.10	1.00	0.27
		Incl. 213.75 - 229.28	15.53	0.53	0.35
PHASE 2					
NBZ99-03 -67:210SSW	As above	16.20 - 57.80	41.60	0.11	0.15
		164.93 - 204.92	39.99	0.33	0.18
		Incl. 168.93 - 193.20	24.27	0.42	0.21
		Incl. 170.93 - 180.70	9.77	0.56	0.24
NBZ99-04 -55:210SSW	11610N: 23585E	4.50 - 56.00	51.50	0.37	0.10
		Incl. 29.42 - 56.00	26.58	0.44	0.11
		Incl. 39.01 - 45.05	6.04	1.24	0.16
		172.50 - 270.66 EOH	98.16	0.21	0.10
		Incl. 190.67 - 194.90	4.23	0.50	0.15
		Incl. 248.15 - 270.66 EOH	22.51	0.30	0.11

***Note:** Several low grade intersections are not included in above.
Au values in the 0.2 - 0.7 g/t range occur in some intrusive dykes in holes 02 and 04 above.

SOME PREVIOUS EXPLORATION HIGHLIGHTS FROM THIS ZONE:

Drilling: PD92-1: 173.0 - 244.0 (71.0 m) 0.75 g/t Au, 0.20 % Cu.
BK97-5: 200.0 - 234.9 (34.9 m) 1.95 g/t Au, 0.11% Cu. Incl. 19.46 m @ 3.09 Au g/t, 0.11% Cu.
BK97-4: 227.31 - 245.31 (18.0 m) 1.97 g/t Au, 0.28% Cu.

Trenches: PD92-2: 0.56 g/t Au, 0.11% Cu over 32.5 m.
DM80-4: 1.02 g/t Au, 0.12% Cu over 12 m.
DM82-1: 1.10 g/t Au, 0.15% Cu over 12 m.

- averaging between 0.5 and 1.0 g/t Au and 0.1 to 0.35% Cu. There appears to have been some vertical displacement of the zone along a steeply dipping late fault at depth. As a consequence the zone occurred at shallower depths in hole NBZ 99-03 than expected. The 1 to 3 g/t gold intersections encountered in the three previous holes in the area (1992, 1997) show excellent correlation with the better gold intersections in the 1999 holes, especially NBZ 99-02 and 03. The lower gold (copper) mineralized has now returned greater then 70 metre widths from holes with three different azimuths, clearly indicating size potential. No drilling has occurred on this target at depths shallower than 130 metres.

- Potential for intrusive hosted mineralization is indicated by an intersection at the very bottom of NBZ99-02 with 5.15 metres averaging 0.13 g/t Au and 0.19% Cu.

The more easterly drill section was tested by a single hole NBZ 99-04 and encountered upper and lower gold (copper) mineralized zones as well as significant values in several potassic monzonite dykes.

- The upper mineralized zone on this section straddles the breccia-metavolcanic contact very close to surface and contains sections averaging 1 g/t gold, low copper. This zone appears to be strongly influenced by two large monzonite dykes and may not be related to the upper zone to the west. Results from BK 99-04 which crosses the two sections supports this interpretation, though this is far from conclusive.

- The lower mineralized zone on the eastern section has features in common with that to the west, in particular the K.feldspar alteration and dyke association. Some of the better mineralization in this zone occurs at the very end of the hole and is therefore open to depth.

- Significant potassic monzonite, intrusive hosted gold (copper) mineralization occurs on this section and more sampling is required. This style of mineralization may be very important in the east breccia area especially considering the long low grade gold intersection encountered in hole BK 97-01, 300 metres to the southeast (35.9m averaging 0.32 g/t Au).

The 1999 drill program on the North Breccia target clearly met the company's objectives and has produced some encouraging results. Systematic drill testing of this zone is still in its early stages. A significant amount of step out drilling with trenching is required to develop this promising target.

6.0 RECOMMENDATIONS

- Further step out drilling and trenching is strong recommended on the North Breccia target. Basically the program should continue as it started testing 40 to 70 metre centres along strike, up and down dip. The up-dip projection of the lower mineralized zone clearly needs to be tested by holes drilled form the upper trail. Well placed trenches will also be very useful to this end.

- All diamond drill hole collars, access trails and trenches on this zone should be tied together by survey during the year 2000 program.
- Exploration data for the zone needs to be in digital form.

6.1 COST ESTIMATE YEAR 2000

Phase 1

7-9 holes, 200 to 300 metres length, 1900 metres total.

Cost all in @ $100 per metre	$190,000.00
Surface work, trenching, allow	20,000.00
Data processing, surveying, allow	10,000.00
Reports and Contingencies	15,000.00
	$ 235,000.00

Phase 2

(Contingent on results from Phase 1)

Allow 3000 metres of drilling @ $120/m all in	$360,000.00

R.C. Wells, P.Geo, FGAC

PROFESSIONAL
R. C. WELLS
BRITISH COLUMBIA
GEOSCIENTIST

7.0 STATEMENT OF EXPENDITURES

PHASE 1 DIAMOND DRILLING
NORTH BRECCIA ZONE, BIG KIDD PROJECT
SEPTEMBER - OCTOBER 1999

1. DIAMOND DRILLING COSTS

Core Enterprises Ltd., Clinton BC		
2 NQ holes total 514 metres		$27,174.80

2. ANALYTICAL COSTS

Eco Tech Laboratories, Kamloops BC		4,349.25

3. GEOLOGICAL SERVICES

Kamloops Geological Services Ltd		
R.C. Wells, P.Geo., FGAC, Consulting Geologist 19 days		8,075.00
Core splitting, sampling 12.5 days		1,562.50
Field Support Costs		
Truck Rental	$760.00	
Fuel	150.31	
Supplies	104.79	
Core Splitter	48.25	
	1063.35	1063.35
Report Costs		4,300.00

TOTAL $46,524.90*

* No GST included.

STATEMENT OF EXPENDITURES

PHASE 2 DIAMOND DRILLING
NORTH BRECCIA ZONE, BIG KIDD PROJECT

1. DIAMOND DRILLING COSTS (23/9/99 - 12/10/99)
   Core Enterprises Ltd., Clinton BC
   2 NQ holes total 565 metres $30,664.60

2. ANALYTICAL COSTS (5/11/99 -12/11/99)
   Eco-Tech Laboratories Ltd., Kamloops BC 4,679.25

3. GEOLOGICAL SERVICES
   Kamloops Geological Services Ltd.
   R.C. Wells, P.Geo., FGAC, Consulting Geologist
   22 days (27/9/99 - 7/11/99) 9,350.00
   Core splitting, sampling (G. Wells, P. Watt)
   10 days (20/10/99 - 7/10/99) 1,500.00

   Field Support Costs (23/9/99 - 7/11/99)

Truck Rental	$826.02
Fuel	152.43
Supplies	120.54
	$1098.99

   $1098.99 . . . . 1098.99

   Report Costs 4000.00

Total $51,292.84*

*No GST Included.

PROFESSIONAL
PROVINCE
R. C. WELLS
BRITISH COLUMBIA
GEOSCIENTIST

R. C. Wells, P.Geo., FGAC. Kamloops Geological Services Ltd.

8.0 STATEMENT OF QUALIFICATIONS

I, Ronald C. Wells, of the City of Kamloops, British Columbia, hereby certify that:

1. I am a Fellow of the Geological Association of Canada

2. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia.

3. I am a graduate of the University of Wales, U.K. with a B. Sc. Hons. in Geology (1974), did post graduate (M. Sc.) studies at Laurentian University, Sudbury, Ontario (1976-77) in Economic Geology.

4. I am presently employed as Consulting Geologist and President of Kamloops Geological Services Ltd., Kamloops, B.C.

5. I have practised continuously as a geologist for the last 19 years throughout Canada, USA and Latin America and have past experience and employment as a geologist in Europe.

6. Ten of these years were in the capacity of Regional Geologist for Lacana Mining Corp., then Corona Corporation in both N. Ontario / Quebec and S. British Columbia.

7. The author was involved in all phases of exploration on the Big Kidd property in 1999.

8. The author has no interests in the Big Kidd Property, nor does he expect any.

9. Permission is hereby granted to Christopher James Gold Corp. to use the foregoing report in any submission to the Vancouver Stock Exchange, and that such report may be placed in the public file of the Vancouver Stock Exchange .

R.C. Wells, P.Geo., FGAC

9.0 REFERENCES

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Preto, V.A., 1979. Geology of the Nicola Group between Merritt and Princeton, B.C. MEMPR. Bulletin 69.

Richardson, P.W., 1982. Trenching Report on the Halo #200 Mineral Claim, Aspen Grove Property for David Minerals Ltd.

Wells, R.C., 1997. Report on the Big Kidd Property. Aspen Grove, B.C. Also two reports on flow-through expenditures 1996-97 period and one promotional report for Christopher James Gold Corp.

Wells, R.C., 1997. Report on the Big Kidd Property, Nicola Mining Division, Aspen Grove, BC. Assessment and company report.

Wells R.C., 1999. Several private reports on the Big Kidd Property for Christopher James Gold Corp. (private).

Wells, R.C., 1999. Report on Phase 1 Diamond Drilling, North Breccia Zone on the Big Kidd Property for Christopher James Gold Corp.

PHASE 1   DIAMOND DRILLING 1999

APPENDIX B

Diamond Drill Logs and Relevant Analytical Data

KAMLOOPS GEOLOGICAL SERVICES LTD		SUMMARY DRILL LOG: NBZ 99-01	
PROPERTY	: BIG KIDD	OWNER	: CHRISTOPHER JAMES GOLD CORP.
NTS	: 92H/15E	MINING DIVISION	: NICOLA MD, B.C.
CLAIM	: HALO 100	LINE/STATION	: 11624N:23537E
GRID	: BIG KIDD-BIG SIOUX	INCLINATION AT COLLAR	: -45^0
CASING	: 0-2.44M	AZIMUTH	: 210^0 SSW
LENGTH	: 230.43M	ACID TESTS	: @91.44M -43^0; @225.55M -42.5^0
LOGGED BY	: R.C. WELLS P.Geo	DRILLED BY	: CORE ENTERPRISES LTD
DATE	: 13-17/9/99	DATES	: FROM 5/9/99 TO 13/9/99
CORE LOCATION	: AMEX, KAMLOOPS	CORE SIZE	: NQ

PURPOSE OF THE HOLE: This hole was drilled from the northeastern edge of the Big Kidd breccia pipe inward. It was the shallowest of the two holes drilled below Placer Dome trench 92-2 which averaged 0.56 g/t gold and 0.112% copper over 32.5metres in altered intrusion breccia.. These holes also tested an area which at 160 to 200 vertical depth had produced 1-3 g/t gold intersections in 1997 holes BK97-04, BK97-05 and 1992 Hole 1.

R.C.Wells, P.Geo, FGAC, Kamloops Geological Services Ltd.

NORTH BRECCIA ZONE. *DIAMOND DRILL LOG* *BIG KIDD PROPERTY*

DDH.NBZ99-01

LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA: Sample No.	From	To	Cu ppm	Au ppb
0 - 2.44 CASING	Talus and sandy overburden											
2.44 - 9.65 Heterolithic matrix supported Intrusion Breccia variable weak to strong magnetic	2.44 - 5.49 Rubbly core recovery at top of hole. Pyritic intrusion breccia	oxidized on fracture surfaces		25% core loss		3-4	Tr					
	5.49 - 9.65 Matrix supported angular 1-10cm clasts. Predominantly fine grained mafic metavolcanic and med. grained monzonite-diorite clasts. Med. grained intrusive matrix	matrix has vague textures due to alteration. Variably carbonated and epidotized. Local K. feldspar rims/selvages to fine qtz veinlets. Local magnetite/chlorite matrix blebs		0-30° CA carbonate veinlets - low density. Local 30-90° qtz veinlets + K. feldspar selvages	Predominantly fine grained clusters of pyrite in matrix, local fracture veinlets. Sparse Cpy	3-7	Tr	14251	5.49	7.65	964	85
						3-7	Tr	14252	7.65	9.65	1937	145
9.65 - 15.13 Potassic Monzonite Dyke	Mottled pinks and greys. Crowded plagioclase porphyry with locally upto 4% tabular hornblende. Fine grained K. feldspar rich groundmass. Weak to strong magnetic with mgt veinlets	Pervasive moderate carbonate. Local med. grained magnetite with epidote in veinlets. K. feldspar in groundmass primary or alteration?		Fairly massive weak - moderate density of carb. ± epidote veinlets variable angles. Ep-mgt veinlets 70-90° CA. Weak-mod flow alligament 45-50° CA	Fine disseminated and veinlet Pyrite sparse Cpy.	3-4	Tr	14253	9.65	12.30	476	35
						3-4	Tr	14254	12.30	15.13	517	25
15.13 - 80.86 Heterolithic Intrusion Breccia. Variable fine to coarse, matrix to clast supported variably magnetic.	15.13 - 19.20 Matrix supported coarse breccia. Variety of clast types incl. monzonite, hbl. porph. altered mafic mv. - diorite. Many >10cm. Alt intrusive matrix variably magnetic	Matrix is variably altered with carbonate, epidote, weak local K. feldspar. Some pink monzonite clasts have patchy epid-carb-Py. Local dk chlorite in matrix		Low density of fine carb. veinlets variable angles CA. 2cm qtz vein 30° CA with Py @ 17.46-17.62 Dark chlorite selvages	Patchy pyrite commonly as fine-med. grained matrix clusters. Local med-coarse magnetite with epidote in matrix.	2-5	Tr	14255	15.13	17.13	1067	70
						2-5	Tr	14256	17.13	19.20	1199	135
	19.20 - 29.16 Heterolithic med to coarse matrix supported intrusion Bx as above but sharper textures. Subangular 2 - >10cm clasts. Some larger green meta-volcanic and dioritized clasts predominate. 10-15% pink monzonite clasts upto 40cm. Some subrounded diorite. Med grained matrix with epidote clots cm scale	matrix has vague to med. grained textures. Local m/c magnetite. Epidote clots throughout. Pervasive carbonate with local fine grained sil. or albitic patches in matrix. Pink monzonite clasts are carbonated. Variable weak to strong magnetic		Low density of v. fine carbonate veinlets at variable angles CA. Local fine Pyrite and hematite/ K. feld veinlets >45° CA	Variable matrix and and local veinlet f/m grained Py mainly matrix clusters. Sparse Cpy	3-8	Tr	14257	19.20	22.20	1082	55
						3-8	Tr	14258	22.20	25.20	1076	75
						3-8	Tr	14259	25.20	28.20	1722	100
	29.16 - 30.40 As above though clasts rarely >8cm. Strong carbonate matrix	Carbonate matrix. Weak local mod. magnetic. Patchy fine chlorite. ↑ patchy K. feldsp. local epid clots		29.20-29.35 35-40° CA qtz > carb vein laminated. Local pyrite	Patchy f/m matrix Py patches. Py in qtz v.	2-10	-	14260	28.20	30.40	1465	100

DDH.NBZ99-01

LITHOLOGY		ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA				
MAIN UNITS	SUB UNITS							Sample No.	From	To	Cu ppm	Au ppb
	30.40-34.63 Medium to coarse breccia a few pink monzonite porphyry clasts. Matrix has vague to good medium grained textures.	Less carbonated than above Numerous epidote aggregates/clots in matrix		Local fine carbonate veinlets. Some fine 45°CA pyrite veinlets in clasts	Patchy fine-medium grained matrix Py mainly aggregates. Local Py veinlets	3-6	Tr	14261	30.40	32.05	1350	55
						4-7	Tr	14262	32.05	34.63	2150	95
	34.63-38.40 Coarse breccia with some clasts >50cm. Mainly green, fine grained magnetic mafic metavolcanic. Minor strongly pyritic matrix. Moderate to strong magnetic	Matrix has med-coarse magnetite. Patchy matrix K. feldspar, carbonate and epidote.		Sparse 45-70°CA carbonate ± epidote veinlets	Coarse pyrite-magnetite in matrix areas. Rare fine Py in clasts	1-5	Tr	14263	34.63	36.63	538	25
								14264	36.63	38.40	1733	70
	38.40-43.30 Fine to medium breccia, 2-15cm clasts subangular matrix supported. Mainly green mafic metavolcanic some dioritized 5-10% pink monzonite. Dioritic med. grained matrix, vague textures.	Epidote clots not as common mod. magnetic. weak to mod. pervasive matrix carbonate minor K. feldspar.		Low density 30° carbonate veinlets Some 60°-80° Py veinlets	Fine-med grained matrix Py, local veinlets. Small coarse Py patches - matrix aggregates	4-7	Tr	14265	38.40	41.20	1378	35
								14266	41.20	43.30	1047	45
	43.30-47.02 Medium to coarse breccia. Mafic metavolcanic and monzonite clasts locally >50cm quite rounded. Matrix has vague textures - dioritic-altered.	Mod. pervasive matrix carbonate patchy epidote, K. feldspar Local coarse epidote. Mk magnetite metavolcanic clasts m/s magnetic		Low density of 30-70 CA carbonate ± epidote veinlets in matrix, some clasts	Fine to coarse Py aggregates in matrix Local fine Py veinlets some cut clasts	1-5	Tr	14267	43.30	45.50	923	45
								14268	45.50	47.02	1423	85
	47.02-52.48 Vague textures due to alteration. Variably altered green mafic metavolcanic clasts pink med. grained monzonite clasts to feldspar porphyries. Some appear fragmented. Many >10cm. Med-coarse BX	Patchy mod to strong matrix K. feldspar also veinlets in many clasts. Epidote clots and veinlets. Fairly strong matrix carbonate. Generally weak magnetic		Local cm scale Py veins 30°CA Fine Py veinlets and epidote - carbonate veinlets 30°CA common in upper part	Fine to coarse Py as aggregates and veinlets. Coarse magnetite is common with coarser Py. Sparse Cpy	4-5	Tr	14269	47.02	49.60	1441	98
								14270	49.60	52.48	1182	105
	52.48-55.30 Mixed coarse with fine angular breccia. Matrix supported. Vague med. grained matrix textures.	Patchy weak carbonate, local epidote clots some rims. Rare K. feldspar.		Low density of carbonate veinlets variable angles CA Local 60-80°CA Py veinlets	Patchy fine-med. Py in matrix and as fine veinlets	2-4	Tr	14271	52.48	55.30	780	110
	55.30-57.00 Strong bleached overprinting textures. Numerous fine veinlets	Pervasive albite-carbonate alteration, little else.		Numerous carbonate veinlets variable angles CA	fine/med. fracture and dissem. cm scale patches	5	Tr-1	14272	55.30	57.00	1168	50
	57.00-67.75 Mixed coarse to fine breccia, matrix supported vague textures due to alteration Locally dioritic	Pervasive matrix carbonate with local epidote ± magnetite ± dark chlorite clots. Variable weak-mod. magnetic. Moderate matrix K feldspar		Local low angle 0-30°CA and high angle 60-90°CA carbonate veinlets low density	Patchy fine-med grained matrix Py as aggregates and disseminated grains	2-4	Tr	14273	57.00	60.00	1851	305

NORTH BRECCIA ZONE. DIAMOND DRILL LOG BIG KIDD PROPERTY

DDH.NBZ99-01

LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA: Sample No.	From	To	Cu ppm	Au ppb	
	continued from Pg 3 mixed coarse to fine breccia	As above patchy moderate pervasive matrix K. feldspar				2-5	Tr	14274	60.0	61.70	1174	105	60
						2-5	Tr	14275	61.70	63.45	1260	160	
						2-3	Tr	14276	63.45	64.70	1294	235	
						3-7	Tr	14277	64.70	67.75	1267	195	
	67.75-72.10 Mottled greens-greys fine angular matrix dominated breccia. Sub cm. to 2-3cm angular clasts in light coloured fm grained dioritic matrix, vague textures	Pervasive moderate to strong matrix carbonate. cm scale epidote clots common. Local disseminated coarse magnetite clots some dark chlorite. Patchy generally weak matrix K. feldspar		Low density of low angle 0-30° CA and high angle 60-90° CA carbonate veinlets	Patchy aggregates of predominantly med. grained Py in matrix Some interconnecting matrix Py veinlets	4-7	Tr	14278	67.75	70.00	1639	120	
								14279	70.00	72.10	988	45	70
	72.10-76.30 Vague textures due to alteration. Appears to be a fine to medium fragment supported breccia. Mainly mafic metavolcanic-dioritic clasts	Patchy moderate K. feldspar alteration. Med-coarse epidote clots, local m/c magnetite. Patchy pervasive weak-moderate matrix carbonate		upper part low density epid ± carb veinlets low & high angle CA incl. fine Py below 75.0m mod. density 0-20°CA carb and epidote veinlets	Patchy disseminated Py aggregates fm. grained locally coarse Some Cpy with the Py	3-6	Tr	14280	72.10	74.30	1149	100	
						3-6	Tr	14281	74.30	76.30	500	95	
	76.30-80.86 As above more v. coarse-fine breccia mixture Mainly green mafic metavolcanic clasts. Mod-strong magnetic. Matrix vague dioritic local coarse magnetite	Generally weak patchy matrix carbonate. Small K. feldspar rich clasts some weak matrix. Local coarse aggregates of epidote, magnetite, Py. Some fine pervasive epidote		Moderate density of 30-45°CA epidote ± carbonate veinlets local cm Py-K. feldspar veinlets 30°CA	Very patchy fine-med. Py in epidote-magnetite aggregates also dissem and veinlet f/m/c Py	2-5	Tr	14282	76.30	78.50	1055	550	
						2-5	Tr	14283	78.50	80.86	939	240	80
80.86-85.50 Mafic Dyke	Medium to dark greenish grey, fine grained to plagioclase phyric (coarse porphyry). Possibly an early dyke or large volcanic inclusion? M/S magnetic	Patchy weak pervasive epidote and epidote veinlets. V. weak carbonate restricted often to veinlets. Rare epid-mgt-Py clots as inclusions?		mod-high density of fine epidote veinlets also Py both low 0-30 and high 60-80°CA	fine grained Py veinlets. Local fm grained in clots with epidote, magnetite	1-2	–	14284	80.86	83.40	630	220	
								14285	83.40	85.50	898	225	
85.50-89.40 Feldspar (Hornblende) Porphyry Dyke (6)	Light pinkish grey, Plagioclase >> hornblende as phenocrysts Basically a crowded plag. porphyry 1-5% hornblende - tabular.	Pervasive moderate carbonate Groundmass fine K. feldspar weak-mod. magnetic. Chloritized hornblende/mafics		Moderate to high density of fine epidote veinlets. Some fine Py veinlets. Local irregular carb minor qtz veinlets	Fine disseminated and veinlet Py	1-3	Tr	14286	85.50	87.50	358	25	
						1-3	Tr	14287	87.50	89.40	660	55	
	89.40-90.83 Mixed mafic porphyry and pyritic K. feldspar rich zones	wallrock-dyke contact K. feldspar, carbonate, epidote below		fine 40-60°CA carb ± epidote ± Py veinlets	Py veinlets in mafic porphyry. Dissem fine Py in magnetite?	2-3 3-5	Tr	14288	89.40	90.83	916	50	90

KAMLOOPS GEOLOGICAL SERVICES LTD. LOGGED BY [signature] DATE 14 Sept. 1999.

DDH.NBZ99-01

LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA: Sample No.	From	To	Cu ppm	Au ppb
89.40 – 153.73 Heterolithic Intrusion Breccia	90.85 – 93.29 Medium green, fine grained metavolcanic inclusion or mafic dyke. Mod to locally strong mag.	Local epidote blebs, patchy fine grained magnetite		chlorite > carbonate fracture zone subparallel CA slickensides. Local mgt v.	fine veinlet Py. Local Coarser magnetite-pyrite in veins 60°CA + cpy	1-3	Tr	14289	90.85	93.29	601	40
	93.29 – 109.00 Coarse to very coarse angular breccia with minor intrusive (dioritic) matrix. Predominantly green f.g. mafic metavolcanic and grey to pink m.g. monzonite clasts. Many > 50cm with most 5-50cm interstitial breccia matrix. Matrix is altered med. grained with Py, magnetite, dark chlorite, K. feldspar. Clast to v. weak matrix supported.	K. feldspar - monzonitic interstitial breccia @ 97.90 - 98.50; 100.50 - 101.60; 106.18 - 107.56. Pervasive moderate carbonate throughout. Local K. feldspar alteration along fractures.		Mod to high density of carb. veinlets many low angle to subparallel CA. quartz-carb-dk chlorite breccia veins with wallrock K. feldspar - Py subparallel CA @ 95.2 - 96.2; 97.60 - 98.0	fine to med to local coarse matrix Py also Py in veinlets in matrix and some clasts. Local Py in wallrocks to veins.	1-3	Tr	14290	93.29	96.29	724	20
						2-4	Tr	14291	96.29	99.29	548	30
						2-4	Tr	14292	99.29	102.29	842	35
						1-3	Tr	14293	102.29	105.29	618	25
						2-4	Tr	14294	105.29	107.29	671	40
				subparallel bitter fractures 108-109.		2-4	Tr	14295	107.29	109.00	698	30
	109.0 – 115.92 Monzonitic intrusion breccia. Vague textures due to alteration. Med to coarse breccia predominantly monzonitic clasts some are pink from K. feldspar. Med. grained diorite-monzonite matrix med. magnetic	Patchy K. feldspar, local epidote clots in matrix areas. Coarse K. feldspar, epidote, magnetite, pyrite. Pervasive moderate carbonate throughout. K. feldspar in matrix/clasts increases with depth		Moderate density low 0-30° CA and high 60-90° CA carbonate and epidote veinlets. Local larger upto 0.70m 20° CA carbonate veins	Strong Py in matrix f-m grained local coarse patches. Py content increases downwards	2-4	Tr	14296	109.00	112.00	689	35
						2-5	Tr	14297	112.00	114.15	1094	55
						3-6	Tr	14298	114.15	115.92	556	40
	115.92 – 119.86 As above > 60% monzonite (pink). V. coarse breccia, diorite-monzonite matrix. med. magnetic	variable patchy weak - mod pervasive carbonate. Monzonite - diorite clasts have K. feldspar patchy alteration and veins		Moderate density low and high angle carbonate veinlets ± epidote. Local high angle Py veinlets	Patchy fine local med. grained dissem. and veinlet Py in matrix and some K. feld rich clasts.	2-5	Tr	14299	115.92	117.92	358	15
						2-5	Tr	14300	117.92	119.86	305	25

DDH.NBZ99-01

LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
	119.86 - 132.44 As above but predominantly coarse clasts >50cm grey monzonite-diorite. 10% pink plagioclase porphyry-monzonite <20cm dia. Approx. 10-15% matrix. Many clasts have have k. feldspar fracture veinlets	Patchy weak pervasive and veinlet k. feldspar. Carbonate is weak pervasive and, or veinlet in grey clasts. Moderate pervasive in matrix. Matrix has patchy coarse epidote, k. feldspar, magnetite, med. Py fine carbonate. Patchy mod. pervasive epidote 126.5-127.30		Low density of low and high angle CA epidote + carbonate veinlets. Local anastomosing magnetite veinlets eg 123.30-124.30	Very patchy fine-med. grained matrix. Local veinlet Py with coarse magnetite in matrix areas	2-4	Tr	14301	119.86	122.86	921	40
						2-4	Tr	14302	122.86	125.86	891	55
						1-3	Tr	14303	125.86	128.86	538	25
						2-4	Tr	14304	128.86	131.65	720	55
		wallrocks to vein are bleached strong carbonated with numerous dark chloritic patches (after magnetite?)		131.90-132.44 35°CA brecciated carb-qtz-feld. vein. Laminated with chlorite, clay		1-6	Tr	14305	131.65	132.44	616	395
	132.44 - 140.30 Monzonite - Diorite clast, coarse breccia - crackle breccia? Predominantly grey medium grained fairly equigranular monzonite, mod. magnetic. Local magnetite cubes. Appears to be a coarse monolithic breccia - brecciated dyke? Sparse 5-10% matrix with epid, carb, K-feld, mgt, Py.	Large clasts display variable generally weak k. feldspar alt. Matrix k. feldspar is stronger. In clasts veinlets of carbonate, epidote ± k. feldspar local magnetite, Py. Matrix has local intense k. feldspar.		Low-moderate density of carb, k. feldspar and epidote veinlets these are generally 20-60°CA Local fine Py veinlets	fine to medium grained pyrite generally restricted to matrix areas. Fine Py and Cpy in epidote veinlets cutting monzonite clasts.	1-3	Tr	14306	132.44	135.44	650	70
								14307	135.44	138.44	1193	160
								14308	138.44	140.30	1301	100
	140.30 - 158.78 Bimodal Monzonite - diorite, med-coarse breccia with 5-15cm clasts. Better developed breccia textures than above. Subrounded 5-15cm clast common. Monzonite is mainly grey local pink in matrix areas. Patchy intense matrix k. feldspar. Mod. magnetic throughout.	clasts as above with veinlet k. feldspar, epidote, carbonate local Py, magnetite. Rare to weak pervasive carbonate. Matrix is rich in k. feldspar, clots of epidote, dark chlorite and fine carbonate, local magnetite. Local 10-20cm patches of fine-med. grained pervasive epidote. k. feldspar rims to some fine clasts in matrix		Low-moderate density of fine epid, carb, K.feldspar minor Py veinlets in clasts, as above 20-60°CA	Sparse veinlet and disseminated Py outside of matrix. minor fine Cpy. In k-feldspar matrix areas can have up to 20% pyrite.	3-6	Tr	14309	140.30	143.30	1137	270
						2.5	Tr	14310	143.30	146.30	971	135
						1-5	Tr	14311	146.30	149.30	745	105

KAMLOOPS GEOLOGICAL SERVICES LTD.

LOGGED BY R.Wells

DATE 15 Sept 1999

NORTH BRECCIA ZONE. **DIAMOND DRILL LOG** **BIG KIDD PROPERTY**

DDH.NBZ99-01

LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA: Sample No.	From	To	Cu ppm	Au ppb	
	continued from page 5	K. feldspar matrix decreases downward.			sparse matrix Py.	1-3	Tr	14312	149.30	151.82	1093	160	150
								14313	151.82	152.78	1367	180	
153.78 - 161.75 Heterolithic matrix supported Intrusion Breccia. K. feldspar rims to some clasts	Matrix to weak clast supported medium 10-30cm more heterolithic intrusion breccia. Grey to pink monzonite clasts, diorite and altered mafic metavolcanic clasts. Subangular to subrounded. Vague textures due to alteration. Alt dioritic matrix. Patchy weak to moderate magnetic.	Patchy pink matrix k.feld. Local clast rims. Matrix epidote clots with dark chlorite remnant magnetite. Moderate pervasive matrix carbonate variably carbonated clasts.		Low density of predominantly high angle carbonate and pyrite veinlets	Patchy fine-med. matrix Py. Local veinlets. Minor specks of Cpy. rare magnetite.	2-6	Tr	14314	153.78	156.78	1392	285	
								14315	156.78	159.78	1918	330	
				Sharp 60°CA contact				14316	159.78	161.75	1118	230	160
161.75 - 170.79 Feldspar Porphyry-Monzonite Dyke.	161.75 - 168.50 Light pink to pinkish grey plagioclase porphyry crowded with tabular phenocrysts upto 4mm. Local good flow alignment. Pink K. feldspar - fine grained groundmass, minor chloritized mafics. Local subrounded 1-3cm xenoliths some K.feld. rims	Pervasive moderate carbonate, chloritized mafics and some plagioclase phenocrysts. Vague textures locally due to K.feld. - carbonate alteration		Low density of 40°-60°CA carbonate veinlets. Flow aligned phenocrysts 50°-60° CA	Minor fine disseminated and local hairline-veinlet Py. Traces of fine Cpy.	1-2	Tr	14317	161.75	165.00	98	15	
								14318	165.00	168.50	141	30	
	168.50-169.22 Brecciated and altered as above.	Coarse breccia with epidote, chl, K.feld. Carbonate. M/C grained magnetite		coarse brecciated	coarse magnetite specks of fine Cpy	Tr-1	Tr	14319	168.50	169.22	843	275	
	169.22-170.79 Light pink plag. porphyry becomes brecciated near base.	weak - moderate pervasive carb. Patchy k.feld, Local magnetite, weak epidote		No flow alignment fine low angle mgt-Cpy-Py veinlets	veinlet and disseminated fine to med. Cpy, fine Py	1	Tr-1	14320	169.22	170.79	1866	385	170
170.79 - 200.45 Heterolithic Potassic Altered Intrusion Breccia Similar to 153.78 but stronger matrix and rim K. feldspar.	170.79-177.82 Heterolithic mixed fine to coarse breccia. Subangular to subrounded clasts upto 1metre. feld. porph. monzonite, grey monzonite-diorite, alt. mafic metavolcanic. Vague textures due to alteration. Alt. dioritic matrix Patchy mod-strong magnetic	Moderate pink k. feldspar in matrix some clast rims and veins in clasts. Patchy weak - moderate pervasive matrix and clast carbonate. Med. green chlorite widespread in matrix. Local coarse magnetite in clots.		Low density of fine 30°-60°CA epidote ± carb veinlets. Local Py-magnetite veins to 5mm wide 20-25°CA	fine-med matrix Py local Cpy. Also in some fracture veinlets in clasts esp. feld. porphyry monzonite.	1-3	Tr	14321	170.79	173.13	1373	440	
						Tr-1	Tr	14322	173.13	174.48	63	90	
						1-3	Tr-1	14323	174.48	176.48	1897	905	
						1-3	Tr-1	14324	176.48	177.82	498	290	
	177.82-200.45 Mottled pink-green potassic (K.feldspar) fine-med. intrusion breccia. Matrix to weak clast supported - continues	Patchy moderate to strong k. feldspar in matrix. k.feld. rims common		very low density of fine carb veinlets	Patchy fine grained Py clusters in matrix Local fine Cpy.	2-3	Tr	14325	177.82	179.82	1587	365	
													180

LOGGED BY R.C. Wells

DATE 15 Sept. 1999.

NORTH BRECCIA ZONE. **DIAMOND DRILL LOG** **BIG KIDD PROPERTY**

DDH.NBZ99-01

LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
	most of clasts display some pink k. feldspar alteration however a high proportion of clasts are equigranular to plagioclase porphyritic pink monzonite. The matrix has vague altered textures with local coarse magnetite clots	many pink k. feldspar rims Patchy pervasive med-strong matrix k. feldspar Patchy matrix carbonate, local epidote clots. Also patchy matrix med. green chlorite.		Low density of 30-60°CA epidote ± carbonate veinlets Local 80-90°CA pyrite veinlets.	Patchy fine-med. matrix Py patches Local specks of Cpy.	2-4	Tr	14326	179.82	181.82	1398	255
						2-4	Tr	14327	181.82	183.82	1201	315
						2-4	Tr	14328	183.82	185.82	2159	435
						2-4	Tr	14329	185.82	187.82	1952	330
						2-4	Tr	14330	187.82	189.82	1649	435
						2-4	Tr	14331	189.82	192.68	1540	225
						Tr-1		14332	192.68	194.51	1006	180
				several subparallel carb. veinlets		3-5	Tr	14333	194.51	196.71	1345	140
		Bleaching due to strong pervasive carbonate possible albite. Fine grained patchy strong K. feldspar in matrix and some clasts		196.71-197.82 Bleached vein zone carb veinlet stockwork mod. density 30-80°CA carb veinlets local Py	Fine disseminated + V.fine wallrock Py Local coarse aggregates of magnetite	3-5		14334	196.71	197.82	1387	185
						2-4	Tr	14335	197.82	200.45	1260	190
200.45-212.45 Heterolithic Intrusion Breccia	similar fine to coarse breccia as above. matrix to weak clast supported. Mixed pink monzonite diorite and altered mafic metavolcanic clasts up to 40cm 10-15% of smaller clasts (angular) have k. feldspar rims. Vague matrix textures due to alteration local dioritic textures.	Highly variable, weak to strong pervasive (matrix and many clasts) carbonate. Patchy pervasive matrix k. feldspar weak-moderate. matrix has widespread med. green chlorite. Patchy coarse magnetite, Py fine carbonate, k. feldspar with some dark chlorite in veinlets. Local epidote clots.		General low density of low and high angle CA fine carbonate veinlets. Local fine Py veinlets	Patchy fine-med grained disseminated and aggregates of matrix Py. Coarser Py with magnetite locally. Some coarse Py veins cm. scale in matrix.	Tr-2		14336	200.45	203.45	1593	135
						1-4	Tr	14337	203.45	206.45	1998	220
						3-5	Tr	14338	206.45	209.45	4964	670

DDH.NBZ99-01

LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
	See above Pg 7.							14339	209.45	212.45	3304	400
212.45-223.47 Heterolithic Potassic Altered Intrusion Breccia significant number of clasts with k. feldspar alteration rims	212.45-220.34 As above fine-med. breccia, matrix to weak clast supported clasts rarely >10cm most are 2-10cm mainly angular. >20% are potassic altered and rimmed. Mod. to strong magnetic	Stronger k. feldspar alteration than above. Pervasive moderate carbonate. epidote is weak often restricted to veinlets. Local magnetite aggregates. Rare matrix med. green chlorite. Dark fine grained chlorite is widespread		Low density of fine, low angle CA and high angle CA carbonate ± epidote veinlets. Local high angle CA 60-90° pyrite veinlets	widespread f.m. grained matrix Py much is quite fine deceptive %. Pyrite veinlets are fairly common.	3-6	Tr	14340	212.45	215.45	2540	395
								14341	215.45	218.45	1922	205
								14342	218.45	220.34	1543	165
	220.34-223.47 As above Many clasts with k.feld. rims matrix supported. 222.46-223.47 Large plagioclase porphyry clast.	10-15% epidote patches mainly fine grained upto 25cm long with mg. Py. Moderate k. feld. mainly clast rims		Low density med to high angle carbonate ± epidote veinlets	widespread fine disseminated matrix Py with epidote and magnetite.	3-6	Tr	14343	220.34	222.34	2778	425
						1-3		14344	222.34	223.47	1228	140
223.47-230.43 (EOH) Pink Monzonite Intrusion Breccia. Moderate magnetic, potassic altered.	Fine to medium breccia matrix supported. Potassic K. feldspar rich Monzonite clasts upto 40cm generally <10cm Some K. feld. is alteration. Vague matrix textures quite chloritic with plagioclase.	Many clasts have k. feldspar rims. Weak to moderate pervasive carbonate, epidote decreases downward. Local magnetite aggregates.		Low density Low-high angle CA epidote-carbonate veinlets 1cm 15-20° CA quartz-carbonate vein end of section	fine to medium disseminated and aggregate matrix Py. Local magnetite aggregates.	3-6	Tr	14345	223.47	226.47	1222	150
								14346	226.47	228.47	1960	370
								14347	228.47	230.43	907	200
				230.43 End of Hole								

DDH.NBZ99-01

SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)	Cu (ppm)	L X Au	Au-Comp	L X Cu	Cu-Comp	From	To	Length	Au (ppb)	Cu (ppm)
14251	5.49	7.65	2.16	85.00	964.00	183.60		2062.24						
14252	7.65	9.65	2.00	145.00	1937.00	290.00		3874.00						
14253	9.65	12.30	2.65	35.00	476.00	92.75		1261.40						
14254	12.30	15.13	2.83	25.00	517.00	70.75		1463.11						
14255	15.13	17.13	2.00	70.00	1067.00	140.00		2134.00						
14256	17.13	19.20	2.07	135.00	1199.00	279.45		2481.93						
14257	19.20	22.20	3.00	55.00	1082.00	165.00		3246.00						
14258	22.20	25.20	3.00	75.00	1076.00	225.00		3228.00						
14259	25.20	28.20	3.00	100.00	1722.00	300.00		5166.00						
14260	28.20	30.40	2.20	100.00	1465.00	220.00		3223.00						
14261	30.40	32.05	1.65	55.00	1350.00	90.75		2227.50						
14262	32.05	34.63	2.58	95.00	2150.00	245.10	1665.30	5547.00	27253.43	15.13	34.63	19.50	85.40	1397.61
14263	34.63	36.63	2.00	25.00	538.00	50.00		1076.00						
14264	36.63	38.40	1.77	70.00	1733.00	123.90		3067.41						
14265	38.40	41.20	2.80	35.00	1378.00	98.00		3858.40						
14266	41.20	43.30	2.10	45.00	1047.00	94.50		2198.70						
14267	43.30	45.50	2.20	45.00	923.00	99.00		2030.60						
14268	45.50	47.02	1.52	85.00	1423.00	129.20		2162.96						
14269	47.02	49.60	2.58	98.00	1441.00	252.84	847.44	3717.78	18111.85	34.63	49.60	14.97	56.61	1209.88
14270	49.60	52.48	2.88	105.00	1182.00	302.40		3404.16						
14271	52.48	55.30	2.82	110.00	780.00	310.20		2199.60						
14272	55.30	57.00	1.70	50.00	1168.00	85.00		1985.60						
14273	57.00	60.00	3.00	305.00	1851.00	915.00		5553.00						
14274	60.00	61.70	1.70	105.00	1174.00	178.50		1995.80						
14275	61.70	63.45	1.75	160.00	1260.00	280.00		2205.00						
14276	63.45	64.70	1.25	235.00	1294.00	293.75		1617.50						
14277	64.70	67.75	3.05	195.00	1267.00	594.75		3864.35						
14278	67.75	70.00	2.25	120.00	1639.00	270.00		3687.75						
14279	70.00	72.10	2.10	45.00	988.00	94.50		2074.80						
14280	72.10	74.30	2.20	100.00	1149.00	220.00		2527.80						
14281	74.30	76.30	2.00	95.00	500.00	190.00	3734.10	1000.00	32115.36	49.60	76.30	26.70	139.85	1202.82
14282	76.30	78.50	2.20	550.00	1055.00	1210.00		2321.00						
14283	78.50	80.86	2.36	240.00	939.00	566.40		2216.04						
14284	80.86	83.40	2.54	220.00	630.00	558.80		1600.20						
14285	83.40	85.50	2.10	225.00	898.00	472.50	2807.70	1885.80	8023.04	76.30	85.50	9.20	305.18	872.07
14286	85.50	87.50	2.00	25.00	358.00	50.00		716.00						
14287	87.50	89.40	1.90	55.00	660.00	104.50		1254.00						
14288	89.40	90.83	1.43	50.00	916.00	71.50		1309.88						
14289	90.83	93.29	2.46	40.00	601.00	98.40		1478.46						
14290	93.29	96.29	3.00	20.00	724.00	60.00		2172.00						
14291	96.29	99.29	3.00	30.00	548.00	90.00		1644.00						
14292	99.29	102.29	3.00	35.00	842.00	105.00		2526.00						
14293	102.29	105.29	3.00	25.00	618.00	75.00		1854.00						
14294	105.29	107.29	2.00	40.00	671.00	80.00		1342.00						
14295	107.29	109.00	1.71	30.00	698.00	51.30		1193.58						
14296	109.00	112.00	3.00	35.00	689.00	105.00		2067.00						
14297	112.00	114.15	2.15	55.00	1094.00	118.25		2352.10						
14298	114.15	115.92	1.77	40.00	556.00	70.80		984.12						
14299	115.92	117.92	2.00	15.00	358.00	30.00		716.00						
14300	117.92	119.86	1.94	25.00	305.00	48.50		591.70						
14301	119.86	122.86	3.00	40.00	921.00	120.00		2763.00						
14302	122.86	125.86	3.00	55.00	891.00	165.00		2673.00						
14303	125.86	128.86	3.00	25.00	538.00	75.00		1614.00						
14304	128.86	131.65	2.79	55.00	720.00	153.45		2008.80						
14305	131.65	132.44	0.79	395.00	616.00	312.05		486.64						
14306	132.44	135.44	3.00	70.00	650.00	210.00	2193.75	1950.00	33696.28	85.50	135.44	49.94	43.93	674.74
14307	135.44	138.44	3.00	160.00	1193.00	480.00		3579.00						
14308	138.44	140.30	1.86	100.00	1301.00	186.00		2419.86						
14309	140.30	143.30	3.00	270.00	1137.00	810.00		3411.00						
14310	143.30	146.30	3.00	135.00	971.00	405.00		2913.00						
14311	146.30	149.30	3.00	105.00	745.00	315.00		2235.00						
14312	149.30	151.82	2.52	160.00	1093.00	403.20		2754.36						
14313	151.82	153.78	1.96	180.00	1367.00	352.80		2679.32						
14314	153.78	156.78	3.00	285.00	1392.00	855.00		4176.00						
14315	156.78	159.78	3.00	330.00	1918.00	990.00		5754.00						
14316	159.78	161.75	1.97	230.00	1118.00	453.10	5250.10	2202.46	32124.00	135.44	161.75	26.31	199.55	1220.98
14317	161.75	165.00	3.25	15.00	98.00	48.75		318.50						
14318	165.00	168.50	3.50	30.00	141.00	105.00	153.75	493.50	812.00	161.75	168.50	6.75	22.78	120.30
14319	168.50	169.22	0.72	275.00	843.00	198.00		606.96						
14320	169.22	170.79	1.57	385.00	1866.00	604.45		2929.62						
14321	170.79	173.13	2.34	440.00	1373.00	1029.60		3212.82						
14322	173.13	174.48	1.35	80.00	63.00	108.00	1940.05	85.05	6834.45	168.50	174.48	5.98	324.42	1142.88
14323	174.48	176.48	2.00	805.00	1897.00	1610.00		3794.00						
14324	176.48	177.82	1.34	290.00	498.00	388.60		667.32						
14325	177.82	179.82	2.00	365.00	1587.00	730.00		3174.00						
14326	179.82	181.82	2.00	255.00	1398.00	510.00		2796.00						
14327	181.82	183.82	2.00	315.00	1201.00	630.00		2402.00						
14328	183.82	185.87	2.05	435.00	2159.00	891.75	4760.35	4425.95	17259.27	174.48	185.87	11.39	417.94	1515.30
14329	185.87	187.82	1.95	330.00	1952.00	643.50		3806.40						
14330	187.82	189.82	2.00	435.00	1694.00	870.00		3388.00						
14331	189.82	192.68	2.86	225.00	1540.00	643.50		4404.40						
14332	192.68	194.51	1.83	180.00	1006.00	329.40		1840.98						
14333	194.51	196.71	2.20	140.00	1345.00	308.00		2959.00						
14334	196.71	197.82	1.11	185.00	1387.00	205.35		1539.57						
14335	197.82	200.45	2.63	190.00	1260.00	499.70		3313.80						
14336	200.45	203.45	3.00	135.00	1593.00	405.00		4779.00						

14337	203.45	206.45	3.00	220.00	1998.00	660.00	4564.45	5994.00	32025.15	185.87	206.45	20.58	221.79	1556.13
14338	206.45	209.45	3.00	670.00	4964.00	2010.00		14892.00						
14339	209.45	212.45	3.00	400.00	3304.00	1200.00		9912.00						
14340	212.45	215.45	3.00	395.00	2540.00	1185.00		7620.00						
14341	215.45	218.45	3.00	205.00	1922.00	615.00	5010.00	5766.00	38190.00	206.45	218.45	12.00	417.50	3182.50
14342	218.45	220.34	1.89	165.00	1543.00	311.85		2916.27						
14343	220.34	222.34	2.00	425.00	2778.00	850.00		5556.00						
14344	222.34	223.47	1.13	140.00	1223.00	158.20		1381.99						
14345	223.47	226.47	3.00	150.00	1222.00	450.00		3666.00						
14346	226.47	228.47	2.00	370.00	1960.00	740.00		3920.00						
14347	228.47	230.43	1.96	200.00	907.00	392.00	2902.05	1777.72	19217.98	218.45	230.43	11.98	242.24	1604.17
							19176.90		113526.85	168.50	230.43	61.93	309.65	1833.15
							24580.75		146462.85	135.44	230.43	94.99	258.77	1541.88

1-Oct-99

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 99-509

CHRISTOPHER JAMES GOLD CORP.
C/O RON WELLS
910 HEATHERTON CRT.
KAMLOOPS, BC, V1S 1P9

ATTENTION: RON WELLS

No. of samples received: 50
Sample type: Core
PROJECT #: NBZ-01
SHIPMENT #: 1
Samples submitted by: R. Wells

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	14251	85	<0.2	1.86	<5	50	<5	2.05	<1	27	64	964	5.39	<10	1.99	471	<1	0.04	21	1680	<2	10	<20	38	0.26	<10	190	<10	14	26
2	14252	145	<0.2	1.79	<5	40	<5	2.67	<1	43	83	1937	6.59	<10	2.01	571	2	0.04	24	1670	2	10	<20	36	0.23	<10	180	<10	20	35
3	14253	35	<0.2	1.21	<5	40	<5	3.28	<1	15	28	476	3.80	<10	1.03	446	<1	0.04	5	1510	4	10	<20	52	0.15	<10	111	<10	35	24
4	14254	25	<0.2	1.17	<5	40	<5	2.89	<1	20	36	517	3.66	<10	0.76	370	8	0.04	6	1570	4	<5	<20	67	0.15	<10	114	<10	30	18
5	14255	70	<0.2	1.70	5	40	<5	3.08	<1	29	41	1067	5.85	<10	1.72	555	4	0.03	14	1650	6	10	<20	60	0.19	<10	139	<10	19	54
6	14256	135	0.6	1.55	5	35	<5	3.79	19	31	44	1199	5.90	<10	1.72	516	15	0.03	16	1620	120	5	<20	78	0.15	<10	134	<10	13	168
7	14257	55	<0.2	1.62	<5	45	<5	2.72	<1	35	39	1082	7.26	<10	1.76	434	19	0.03	15	1630	6	<5	<20	63	0.18	<10	133	<10	8	31
8	14258	75	<0.2	1.56	<5	35	<5	2.15	<1	33	51	1076	6.91	<10	1.57	410	14	0.04	14	1670	4	10	<20	49	0.19	<10	124	<10	7	32
9	14259	100	<0.2	1.44	5	30	<5	2.36	<1	35	33	1722	6.64	<10	1.49	459	11	0.03	13	1520	6	<5	<20	52	0.16	<10	119	<10	9	33
10	14260	100	<0.2	1.68	10	35	<5	3.40	6	46	50	1465	7.10	<10	1.81	589	11	0.04	15	1690	22	<5	<20	85	0.17	<10	147	<10	17	81
11	14261	55	<0.2	1.91	5	40	<5	3.99	<1	36	31	1350	6.77	<10	2.07	778	10	0.03	15	1700	8	10	<20	83	0.20	<10	151	<10	10	44
12	14262	95	<0.2	1.86	<5	40	<5	2.37	<1	43	43	2150	8.21	<10	1.92	577	12	0.03	18	1630	8	<5	<20	68	0.23	<10	151	<10	3	48
13	14263	25	<0.2	1.85	5	70	<5	2.11	<1	35	28	538	7.36	<10	1.91	586	<1	0.04	15	1670	8	<5	<20	44	0.33	<10	261	<10	16	47
14	14264	70	<0.2	2.09	<5	40	<5	2.21	<1	57	115	1733	7.50	<10	2.42	631	12	0.04	38	1680	10	<5	<20	44	0.29	<10	189	<10	8	52
15	14265	35	<0.2	1.76	5	40	<5	2.47	<1	43	50	1378	7.47	<10	1.90	594	21	0.04	21	1730	8	<5	<20	38	0.24	<10	163	<10	5	47
16	14266	45	<0.2	1.80	10	40	<5	2.18	<1	35	62	1047	6.88	<10	1.89	555	15	0.04	21	1830	12	5	<20	40	0.25	<10	174	<10	10	44
17	14267	45	<0.2	2.07	10	45	<5	2.40	<1	34	172	923	5.42	<10	2.32	566	8	0.03	70	1610	12	10	<20	48	0.22	<10	131	<10	14	46
18	14268	85	<0.2	2.23	10	35	<5	2.45	<1	42	84	1423	7.24	<10	2.46	714	17	0.04	27	1740	12	5	<20	40	0.29	<10	179	<10	11	52
19	14269	98	<0.2	1.22	<5	35	<5	2.57	<1	61	35	1441	5.65	<10	1.14	527	27	0.03	12	1340	8	5	<20	48	0.15	<10	84	<10	14	35
20	14270	105	<0.2	1.43	<5	40	<5	2.29	<1	45	92	1182	5.96	<10	1.48	532	16	0.03	29	1490	10	<5	<20	41	0.19	<10	111	<10	11	36

CHRISTOPHER JAMES GOLD CORP. ICP CERTIFICATE OF ANALYSIS AK 99-509 ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
21	14271	110	<0.2	2.11	15	50	<5	2.76	<1	44	34	780	7.47	<10	2.10	661	<1	0.04	19	1800	14	10	<20	46	0.30	<10	205	<10	11	46
22	14272	50	0.6	0.76	60	40	<5	7.42	1	28	40	1168	5.90	<10	1.84	1026	15	0.01	14	1340	4	15	<20	198	<0.01	<10	44	<10	11	73
23	14273	305	<0.2	1.78	5	45	<5	3.49	<1	33	38	1851	7.30	<10	1.85	754	20	0.03	16	1690	12	<5	<20	78	0.16	<10	143	<10	8	47
24	14274	105	<0.2	1.66	10	40	<5	2.97	<1	54	38	1174	6.36	<10	1.50	647	26	0.03	12	1690	12	10	<20	72	0.17	<10	133	<10	15	39
25	14275	160	<0.2	1.54	15	35	<5	2.74	<1	72	26	1260	6.35	<10	1.49	609	25	0.04	10	1690	14	5	<20	54	0.19	<10	124	<10	18	38
26	14276	235	<0.2	2.16	10	50	<5	3.89	<1	57	40	1294	7.30	<10	2.25	759	14	0.04	14	1860	16	15	<20	65	0.26	<10	196	<10	24	47
27	14277	195	<0.2	1.44	10	40	<5	3.36	<1	46	33	1267	6.19	<10	1.44	678	18	0.03	10	1630	10	5	<20	52	0.15	<10	131	<10	10	39
28	14278	120	<0.2	1.74	10	35	<5	2.85	<1	41	38	1639	7.28	<10	1.95	855	31	0.04	12	1720	12	10	<20	51	0.20	<10	168	<10	7	50
29	14279	45	<0.2	1.80	5	35	<5	4.28	<1	30	29	988	7.29	<10	1.89	935	20	0.03	11	1720	14	10	<20	77	0.13	<10	161	<10	9	49
30	14280	100	<0.2	1.54	10	40	<5	2.39	<1	50	52	1149	6.65	<10	1.38	625	6	0.03	10	1760	14	<5	<20	50	0.19	<10	165	<10	14	45
31	14281	95	<0.2	1.52	10	35	<5	2.93	<1	58	26	500	6.00	<10	1.38	650	<1	0.03	7	1800	14	<5	<20	62	0.17	<10	149	<10	18	46
32	14282	550	<0.2	1.66	10	35	<5	2.23	<1	32	51	1055	5.87	<10	1.52	563	3	0.04	17	1830	16	5	<20	46	0.27	<10	201	<10	17	59
33	14283	240	<0.2	1.76	10	30	<5	2.80	<1	34	51	939	5.93	<10	1.93	564	5	0.03	20	1830	18	10	<20	54	0.27	<10	195	<10	17	43
34	14284	220	<0.2	2.18	10	70	<5	1.89	<1	29	81	630	7.10	<10	2.43	506	<1	0.04	22	1960	18	5	<20	40	0.27	<10	258	<10	3	43
35	14285	225	<0.2	2.10	10	45	<5	2.11	<1	27	72	898	6.63	<10	2.29	500	<1	0.04	26	1910	18	15	<20	41	0.28	<10	254	<10	3	39
36	14286	25	<0.2	1.24	10	35	<5	3.45	<1	19	34	358	3.58	<10	1.02	574	<1	0.04	8	1640	10	10	<20	92	0.17	<10	118	<10	33	42
37	14287	55	<0.2	1.51	5	30	<5	4.43	<1	17	23	660	3.77	<10	1.43	705	12	0.03	7	1500	12	20	<20	64	0.13	<10	111	<10	42	28
38	14288	50	<0.2	2.01	10	40	<5	5.25	<1	46	64	916	6.36	<10	2.10	890	2	0.03	19	1880	14	10	<20	79	0.22	<10	191	<10	19	44
39	14289	40	<0.2	3.00	15	60	<5	5.22	<1	45	67	601	7.32	<10	3.76	1179	<1	0.02	25	1980	24	5	<20	93	0.28	<10	220	<10	19	57
40	14290	20	<0.2	2.51	10	45	<5	7.16	<1	34	62	724	6.32	<10	3.00	1451	4	0.03	20	1840	16	10	<20	170	0.19	<10	197	<10	17	55
41	14291	30	<0.2	2.59	15	30	<5	8.83	<1	35	62	548	6.18	<10	3.10	1731	16	0.02	29	1780	20	15	<20	209	0.05	<10	172	<10	19	59
42	14292	35	<0.2	2.52	5	40	<5	5.75	<1	46	64	842	7.34	<10	2.99	1211	32	0.03	22	1870	16	15	<20	163	0.10	<10	188	<10	22	59
43	14293	25	<0.2	2.08	<5	30	<5	5.61	<1	42	84	618	6.48	<10	2.58	1235	8	0.02	31	1910	16	15	<20	160	0.08	<10	190	<10	25	57
44	14294	40	<0.2	1.72	5	35	<5	3.53	<1	35	70	671	6.02	<10	2.09	934	5	0.03	33	1770	14	15	<20	70	0.18	<10	189	<10	18	54
45	14295	30	<0.2	1.50	5	35	<5	4.88	<1	34	161	698	6.51	<10	1.81	984	12	0.03	18	1540	18	10	<20	96	0.13	<10	171	<10	26	63
46	14296	35	<0.2	1.42	10	30	<5	4.16	<1	30	39	689	5.25	<10	1.37	938	2	0.04	8	1840	20	<5	<20	99	0.15	<10	136	<10	47	57
47	14297	55	<0.2	1.51	15	30	<5	3.53	<1	46	29	1094	6.86	<10	1.57	917	14	0.04	9	1850	20	10	<20	91	0.16	<10	135	<10	26	56
48	14298	40	<0.2	1.59	10	40	<5	4.11	<1	31	43	556	6.07	<10	1.53	982	20	0.04	9	1870	18	20	<20	129	0.16	<10	159	<10	32	60
49	14299	15	<0.2	1.41	15	30	<5	3.62	<1	29	22	358	5.84	<10	1.25	861	<1	0.03	5	1810	18	<5	<20	100	0.16	<10	157	10	34	53
50	14300	25	<0.2	0.99	5	40	<5	2.79	<1	15	26	305	2.81	<10	0.86	477	<1	0.03	5	1370	8	5	<20	72	0.13	<10	97	<10	29	32

CHRISTOPHER JAMES GOLD CORP. ICP CERTIFICATE OF ANALYSIS AK 99-509 ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC DATA:																														
Resplit:																														
1	14251	100	<0.2	1.99	5	45	<5	2.12	<1	30	66	1039	5.65	<10	2.11	520	<1	0.04	22	1720	2	10	<20	36	0.28	<10	204	<10	16	30
36	14286	25	<0.2	1.16	10	30	<5	3.27	<1	18	31	337	3.46	<10	0.96	550	<1	0.03	7	1690	14	15	<20	86	0.15	<10	110	<10	31	42
Repeat:																														
1	14251	85	<0.2	1.97	<5	45	<5	2.20	<1	30	68	1015	5.84	<10	2.09	503	<1	0.04	22	1720	2	10	<20	36	0.28	<10	203	<10	10	29
10	14260	90	<0.2	1.71	5	35	<5	3.49	6	48	51	1499	7.27	<10	1.84	603	11	0.04	14	1740	24	<5	<20	85	0.18	<10	149	<10	17	85
19	14269	110	<0.2	1.22	10	35	<5	2.62	<1	61	36	1427	5.73	<10	1.13	529	26	.0.03	12	1400	12	<5	<20	52	0.15	<10	84	<10	12	37
36	14286	25	<0.2	1.18	10	25	<5	3.31	<1	19	37	339	3.49	<10	0.97	554	<1	0.04	7	1630	12	10	<20	80	0.16	<10	113	<10	30	41
Standard:																														
GEO'99		115	1.0	1.94	65	150	5	1.74	<1	21	67	90	3.97	<10	0.95	690	<1	0.02	22	770	22	10	<20	65	0.13	<10	83	<10	8	77
GEO'99		115	0.8	2.02	65	160	10	1.81	<1	22	69	87	4.11	<10	0.97	713	<1	0.01	23	810	24	5	<20	67	0.14	<10	85	<10	7	81

df/509
XLS/99
cc: ron wells fax @ 372-1012

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

6-Oct-99

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

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ICP CERTIFICATE OF ANALYSIS AK 99-523

CHRISTOPHER JAMES GOLD CORP.
C/O RON WELLS
910 HEATHERTON CRT.
KAMLOOPS, BC, V1S 1P9

ATTENTION: RON WELLS

No. of samples received: 47
Sample type: Core
PROJECT #: NBZ-01
SHIPMENT #: 2
Samples submitted by: R. Wells

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	14301	40	<0.2	1.57	<5	45	<5	2.97	<1	33	55	921	5.90	<10	1.53	801	16	0.05	10	2060	2	10	<20	86	0.17	<10	173	<10	26	56
2	14302	55	<0.2	1.49	<5	50	<5	2.60	<1	32	40	891	6.36	<10	1.38	791	57	0.04	8	2200	6	<5	<20	71	0.16	<10	169	<10	26	59
3	14303	25	<0.2	1.61	20	35	<5	3.49	<1	27	35	538	5.22	<10	1.38	814	21	0.04	7	1970	2	10	<20	95	0.16	<10	163	<10	32	60
4	14304	55	<0.2	1.42	<5	45	<5	3.64	<1	35	40	720	6.01	<10	1.41	945	5	0.04	7	1760	<2	<5	<20	89	0.13	<10	164	<10	20	62
5	14305	395	<0.2	1.87	175	20	<5	>10	2	32	32	616	6.05	<10	1.40	1382	14	0.02	8	1460	4	15	<20	230	0.02	<10	58	<10	28	48
6	14306	70	<0.2	1.45	<5	60	<5	2.91	<1	36	43	650	6.47	<10	1.34	847	14	0.04	8	2070	6	<5	<20	59	0.15	<10	174	<10	20	65
7	14307	160	<0.2	1.29	<5	35	<5	2.73	<1	28	36	1193	6.06	<10	1.17	755	7	0.04	9	1820	4	10	<20	59	0.14	<10	185	<10	16	70
8	14308	100	<0.2	1.04	<5	40	<5	1.94	<1	23	44	1301	5.37	<10	0.89	583	6	0.04	8	1520	4	<5	<20	54	0.13	<10	161	<10	10	60
9	14309	270	<0.2	1.43	<5	40	<5	2.83	<1	31	54	1137	5.95	<10	1.40	838	25	0.04	6	1850	6	15	<20	69	0.13	<10	148	<10	18	73
10	14310	135	<0.2	1.30	<5	50	<5	2.45	<1	35	47	971	6.23	<10	1.19	706	12	0.04	7	1800	4	<5	<20	66	0.14	<10	136	<10	11	60
11	14311	105	<0.2	1.32	<5	55	<5	2.40	<1	30	48	745	5.90	<10	1.11	640	9	0.05	8	1930	6	<5	<20	70	0.14	<10	153	<10	21	52
12	14312	160	<0.2	1.67	5	55	<5	2.74	<1	26	69	1093	6.27	<10	1.45	806	42	0.05	7	2200	10	<5	<20	98	0.17	<10	184	<10	26	66
13	14313	180	<0.2	2.07	5	40	<5	2.84	<1	32	52	1367	7.78	<10	2.17	942	7	0.04	13	2020	10	<5	<20	49	0.23	<10	195	<10	5	61
14	14314	285	<0.2	1.82	<5	45	<5	3.31	<1	31	51	1392	7.65	<10	1.60	902	10	0.05	8	2100	12	<5	<20	67	0.17	<10	180	<10	12	66
15	14315	330	<0.2	1.88	<5	45	<5	3.59	<1	42	39	1918	8.80	<10	1.84	1067	10	0.04	8	1920	8	<5	<20	50	0.15	<10	188	<10	<1	73
16	14316	230	<0.2	1.70	<5	70	<5	2.84	<1	27	51	1118	8.34	<10	1.52	861	7	0.04	8	1880	16	<5	<20	54	0.15	<10	170	<10	<1	64
17	14317	15	<0.2	0.93	<5	45	<5	3.24	<1	10	42	98	3.28	<10	0.75	762	4	0.04	3	1150	4	5	<20	63	0.07	<10	80	<10	21	32
18	14318	30	<0.2	0.97	<5	35	<5	3.08	<1	10	51	141	3.62	<10	0.82	700	5	0.04	2	1130	6	10	<20	34	0.08	<10	88	10	29	35
19	14319	275	<0.2	1.26	5	40	<5	3.81	<1	13	34	843	5.80	<10	1.16	892	4	0.04	5	1990	8	10	<20	107	0.12	<10	141	<10	23	45
20	14320	385	<0.2	1.35	10	50	<5	3.04	<1	18	44	1866	5.63	<10	1.07	641	14	0.04	9	1920	12	<5	<20	57	0.13	<10	157	<10	13	47

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
21	14321	440	<0.2	1.87	5	45	<5	3.93	<1	15	35	1373	7.57	<10	1.80	980	8	0.03	7	1960	12	<5	<20	72	0.11	<10	174	<10	<1	54
22	14322	80	<0.2	0.96	5	35	15	2.42	<1	10	56	63	3.31	<10	0.60	440	<1	0.05	3	1260	8	5	<20	46	0.14	<10	87	<10	26	23
23	14323	805	<0.2	1.62	10	50	<5	3.15	<1	26	35	1897	8.45	<10	1.21	710	9	0.04	10	2010	12	<5	<20	39	0.13	<10	197	<10	<1	52
24	14324	290	<0.2	0.96	5	70	<5	1.74	<1	27	39	498	4.35	<10	0.61	389	3	0.05	2	1790	8	<5	<20	40	0.12	<10	126	<10	20	37
25	14325	365	<0.2	1.54	<5	50	<5	3.12	<1	43	32	1587	8.07	<10	1.34	749	17	0.04	8	1910	10	<5	<20	46	0.12	<10	176	<10	<1	51
26	14326	255	<0.2	1.38	<5	65	<5	2.16	<1	21	66	1398	6.91	<10	1.15	595	6	0.04	10	1770	8	<5	<20	41	0.10	<10	153	<10	<1	54
27	14327	315	<0.2	1.26	<5	45	<5	2.58	<1	27	36	1201	6.72	<10	1.07	605	6	0.03	9	1720	8	<5	<20	35	0.09	<10	135	<10	<1	47
28	14328	435	<0.2	1.30	10	45	<5	2.16	<1	30	41	2159	6.87	<10	1.04	562	6	0.03	9	1720	8	<5	<20	27	0.09	<10	139	<10	<1	47
29	14329	330	0.4	1.29	10	35	<5	3.22	<1	36	32	1952	6.67	<10	1.09	751	7	0.03	7	1650	14	<5	<20	54	0.08	<10	120	<10	3	45
30	14330	435	<0.2	1.20	<5	50	<5	1.89	<1	36	48	1694	7.70	<10	0.94	545	7	0.03	7	1700	10	<5	<20	28	0.10	<10	146	<10	<1	46
31	14331	225	<0.2	1.29	<5	40	<5	2.11	<1	28	42	1540	7.78	<10	1.15	604	11	0.03	10	1930	10	<5	<20	53	0.09	<10	153	<10	<1	55
32	14332	180	<0.2	0.94	5	35	<5	1.55	<1	19	38	1006	4.67	<10	0.63	371	5	0.03	6	1430	6	<5	<20	20	0.08	<10	94	<10	<1	30
33	14333	140	0.4	1.19	5	45	<5	3.22	<1	24	34	1345	6.48	<10	1.10	730	9	0.03	8	1570	8	<5	<20	51	0.07	<10	113	<10	<1	41
34	14334	185	0.8	0.98	20	70	<5	9.80	<1	27	30	1387	6.05	<10	1.46	1680	17	0.02	7	1620	8	15	<20	452	0.01	<10	67	<10	10	40
35	14335	190	<0.2	1.65	20	60	<5	5.94	<1	27	28	1260	7.66	<10	1.61	1223	13	0.03	8	2110	16	5	<20	271	0.03	<10	135	<10	10	56
36	14336	135	<0.2	1.45	10	45	<5	2.59	<1	14	42	1593	6.22	<10	1.21	627	19	0.03	8	2220	16	5	<20	57	0.12	<10	164	<10	8	54
37	14337	220	<0.2	1.64	10	55	<5	3.28	<1	47	42	1998	8.53	<10	1.28	762	11	0.03	9	2190	12	<5	<20	65	0.12	<10	161	<10	<1	56
38	14338	670	3.0	1.51	20	50	<5	4.12	<1	75	35	4964	9.72	<10	1.33	770	14	0.03	8	1950	20	<5	<20	96	0.09	<10	138	<10	<1	62
39	14339	400	1.2	1.64	15	55	<5	3.58	1	40	56	3304	9.20	<10	1.39	831	13	0.04	11	2170	20	<5	<20	66	0.13	<10	174	<10	<1	65
40	14340	395	1.6	1.92	<5	65	<5	5.09	3	30	36	2540	8.71	<10	1.71	1061	17	0.03	10	2100	58	<5	<20	127	0.08	<10	144	<10	<1	85
41	14341	205	<0.2	1.90	20	50	<5	4.18	<1	32	49	1922	8.87	<10	1.70	1041	13	0.03	9	2220	26	10	<20	74	0.10	<10	176	10	4	73
42	14342	165	<0.2	2.02	15	50	<5	3.87	<1	59	45	1543	>10	<10	1.87	1001	20	0.04	10	2290	28	10	<20	32	0.11	<10	217	<10	<1	80
43	14343	425	<0.2	1.67	25	60	<5	2.59	<1	141	55	2778	>10	<10	1.39	775	24	0.03	8	1980	22	<5	<20	40	0.11	<10	162	10	<1	63
44	14344	140	<0.2	1.84	15	45	<5	2.99	<1	64	40	1223	6.57	<10	1.61	743	4	0.03	4	2550	26	<5	<20	58	0.15	<10	144	<10	4	61
45	14345	150	<0.2	1.96	10	70	<5	2.61	<1	60	66	1222	9.03	<10	1.67	918	6	0.05	11	2330	24	10	<20	53	0.14	<10	190	<10	<1	73

CHRISTOPHER JAMES GOLD CORP. ICP CERTIFICATE OF ANALYSIS AK 99-523 ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
46	14346	370	<0.2	2.11	15	55	<5	4.10	<1	61	37	1960	9.73	<10	1.75	1124	12	0.04	11	2170	26	10	<20	38	0.11	<10	187	10	<1	69
47	14347	200	<0.2	1.56	15	85	<5	5.26	1	41	34	907	6.99	<10	1.48	1201	11	0.03	9	2240	24	15	<20	119	0.06	<10	133	<10	15	68
QC DATA:																														
Resplit:																														
1	14301	60	<0.2	1.48	5	40	<5	2.74	<1	31	50	875	5.45	<10	1.47	760	15	0.04	7	2000	4	<5	<20	75	0.14	<10	163	<10	20	58
26	14326	-	<0.2	1.50	5	60	<5	2.26	<1	20	54	1412	6.41	<10	1.23	603	10	0.04	8	1810	10	<5	<20	54	0.13	<10	167	<10	2	58
36	14336	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Repeat:																														
1	14301	60	<0.2	1.48	5	45	<5	3.00	<1	33	53	955	6.34	<10	1.44	806	20	0.04	9	2000	4	10	<20	75	0.14	<10	165	<10	20	64
10	14310	135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	14319	325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	14326	-	<0.2	1.32	<5	60	<5	2.17	<1	21	66	1378	6.80	<10	1.11	587	6	0.03	9	1830	12	<5	<20	31	0.10	<10	147	<10	<1	54
35	14335	-	<0.2	1.62	20	60	<5	5.92	<1	27	28	1223	7.64	<10	1.58	1217	12	0.03	8	2170	18	<5	<20	261	0.03	<10	133	<10	9	57
36	14336	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard:																														
GEO'99		125	0.8	1.92	80	180	10	2.01	<1	24	76	84	4.13	<10	1.11	720	<1	0.03	22	720	22	10	<20	68	0.14	<10	82	<10	8	74
GEO'99		120	1.0	1.93	80	180	10	2.04	<1	25	75	82	4.14	<10	1.09	720	<1	0.03	24	730	24	15	<20	62	0.13	<10	92	<10	7	72

per ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

df/496
XLS/99
cc: ron wells fax @ 372-1012

KAMLOOPS GEOLOGICAL SERVICES LTD		SUMMARY DRILL LOG: DDH NBZ 99-02	
PROPERTY	: BIG KIDD	OWNER	: CHRISTOPHER JAMES GOLD CORP.
NTS	: 92H/15E	MINING DIVISION	: NICOLA MD, B.C.
CLAIM	: HALO 100	LINE/STATION	: 11624N:23537E
GRID	: BIG KIDD-BIG SIOUX	INCLINATION AT COLLAR	: -57^0
CASING	: 3.05M	AZIMUTH	: 210^0 55W
LENGTH	: 284.38M	ACID TESTS	: @106.68M -57^0; @240.79M -57^0
LOGGED BY	: R.C. WELLS P.Geo	DRILLED BY	: CORE ENTERPRISES LTD
DATE	: 17-26/9/99	DATES	: FROM 14/9/99 TO 23/9/99
CORE LOCATION	: AMEX, KAMLOOPS	CORE SIZE	: NQ

PURPOSE OF THE HOLE:

This hole was drilled from the northeastern edge of the Big Kidd breccia pipe inward. It was the steepest of the two holes drilled below Placer Dome trench 92-2 which averaged 0.56 g/t gold and 0.112% copper over 32.5 metres in altered intrusion breccia. These holes also tested an area which at 160 to 200 vertical depth had produced 1-3 g/t gold intersections in 1997 holes BK97-04, BK97-05 and 1992 Hole 1.

R.C.Wells, P.Geo, FGAC, Kamloops Geological Services Ltd.

NORTH BRECCIA ZONE. DIAMOND DRILL LOG BIG KIDD PROPERTY

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LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
0-3.05 CASING	Talus and sandy overburden											
3.05-7.75 Heterolithic Intrusion Breccia. Variably magnetic	3.05-4.50 Rubbly core recovery in medium intrusion breccia											
	4.50-7.75 matrix supported fine to medium intrusion breccia. Angular mafic metavolcanic, diorite to pink monzonite clasts up to 10cm med grained altered diorite matrix	Pervasive moderate fine grained carbonate. Local pink K. feldspar patches, minor dark chlorite in matrix. Patchy weak magnetic. Rare epidote outside of veinlets		weak to moderate veinlet density mainly low & high CA carbonate veinlets. Local 60°CA qtz V. 40-50°CA epid veins	Matrix patches of fine-med. grained Py Local fine py veinlets	4-5	?	14351	4.50	6.00	1251	95
								14352	6.00	7.75	1804	120
7.75-15.90 Potassic Monzonite Dyke crowded plagioclase (hornblende) porphyry.	Mottled medium pinks to greys. Fine-medium grained with numerous tabular plagioclase phenocrysts (crowded) 1-4mm. 1-5% tabular chlorite altered hornblende phenocrysts. Local subrounded mafic xenoliths to 4cm. Significant groundmass K. feldspar Generally weak magnetic	K. feldspar (primary or secondary?) throughout. Moderate pervasive and veinlet carbonate. Epidote mainly in veinlets. Some K. feldspar (irregular) veinlets		Local flow alignment 60°CA Low-moderate density of epidote and, or carb veinlets 20-60°CA. Local 60-90°CA quartz veinlets up to 3mm Numerous fine Py veinlets variable angles	Patchy fracture and disseminated fine grained Py Local fine dissem. Cpy.	2-5	Tr	14353	7.75	10.75	766	45
								14354	10.75	13.75	876	35
								14355	13.75	15.90	564	25
15.90-61.00 Heterolithic Intrusion Breccia. Fine-medium size clasts, matrix supported. Variably magnetic.	15.90-19.87 Tightly packed predominantly medium size clasts 10-20cm with fine grained green mafic metavolcanic, diorite and pink monzonite. Altered dioritic, med. grained matrix with much magnetite	Med. to strong matrix carbonate, weak in clasts. 5-10% K. feldspar rims to finer clasts (<5cm). Patchy matrix epidote (clots) usually with K. feldspar. Local coarse magnetite		fairly massive, low density of fine 40-60°CA epidote and or carb. veinlets. Local magnetite veinlets	Patchy fine-med Local coarse matrix Py fine Cpy? Patchy med-coarse magnetite locally as veinlets.	3-7	Tr	14356	15.90	17.90	1258	40
								14357	17.90	19.87	1559	70
	19.87-23.77 Fine <5cm matrix supported locally dominated breccia. 25% of smaller clasts are potassic monzonite rest are altered mafic metavolcanic. Matrix med. grained dioritic vague texture	Pervasive carbonate med/strong matrix. Moderate K. feldspar locally. Epidote clots. Patchy med-coarse dissem. magnetite		Low density of 40-60°CA epidote and or carb veinlets Some subparallel Local high angle CA Py veinlets	Fine to med. grained disseminated Py throughout matrix. Local fine Py veinlets with Cpy?	4-7	Tr	14358	19.87	21.87	1543	85
								14359	21.87	23.77	1340	105
	23.77-30.27 Matrix supported predominantly fine <5cm subangular to subrounded. >90% are altered mafic metavolcanic rest are diorite to pink monzonite. Altered fine-med grained chloritic matrix moderate magnetic	Strong pervasive matrix carbonate w/m some clasts. 5-7% med. grained epidote, patches up to 5cm. Some pervasive epidote-vein selvages. Patchy matrix K. feldspar (fine) Rarer fine magnetite		Low density of 20-60°CA carbonate and, or epidote veinlets. Local Py veinlets - vague contacts	Patchy fine-med. grained matrix Py in patches. Also dissem Py-stringer zones. Local med. grained Py veinlets with associated magnetite and fine Cpy	3-6	Tr	14360	23.77	26.37	1891	95
								14361	26.37	28.37	1786	55
								14362	28.37	30.27	1361	45

KAMLOOPS GEOLOGICAL SERVICES LTD. LOGGED BY R. Wells DATE 17 Sept. 1999

NORTH BRECCIA ZONE. DIAMOND DRILL LOG BIG KIDD PROPERTY

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LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
	30.27-36.75 Mixed fine-medium breccia matrix to weak clast supported some coarser clasts upto 30cm, mainly green mafi metavolcanic some augite porphyry. <7% pink monzonite (or altered, KF). Matrix is altered dioritic	As above more K. feldspar. Pervasive carbonate. Variably magnetic though little visible magnetite. Patchy med-coarse epidote clots.		Local 35-45°CA epidote ±, or carb. veinlets. Some fine Py veinlets similar angles. Local subparallel hematite-carbonate veinlets	variable patchy fine-medium grained matrix Py. Local veinlets cutting matrix Possible fine Cpy with Py in veinlets	2-5	Tr	14363	30.27	33.47	1791	45
								14364	33.47	36.75	1431	55
	36.75-49.87 Fine to medium local coarse >30cm subrounded to subangular matrix supported clasts. Heterolithic with >10% pink monzonite clasts. Sections of matrix supported fine angular breccia. Local Kfeld. rims. Altered dioritic matrix Vague texture due to alteration	moderate-strong pervasive carbonate. Patchy weak to moderate K feldspar. Wide spread epidote clots in matrix. Patchy weak to moderate magnetic as above.		Low density of 40-60°CA carbonate veinlets. Local fine Py veinlets. Some irregular K-feldspar-epidote veinlets	Patchy fine-med. grained disseminated Py in matrix local patches, aggregates in volcanic clasts some fine veinlets	2-4	Tr	14365	36.75	39.75	1502	60
						2-4	Tr	14366	39.75	42.75	1729	95
						2-4	Tr	14367	42.75	45.75	1184	90
					increasing local med-coarse magnetite clots downwards	2-4	Tr	14368	45.75	48.00	760	105
						2-4	Tr	14369	48.00	49.87	676	45
	49.87-51.00 Strong bleached and quartz vein zone. 60°CA fabric	Pervasive carbonate-silica-albite? fine grained. Numerous subparallel veinlets		50.0-50.30 qtz ± carb vein stwk. High angle CA fabric	finer grained Py in disseminated patches	3-5	—	14370	49.87	51.00	855	85
	51.00-61.00 Fine to medium matrix supported breccia. Heterolithic predominantly green f.grained mafic metavolcanic some augite porphyry. 10-20% fine to medium pink monzonite clasts. Weak to local mod. magnetic Altered dioritic matrix 20-40% Potassic rims to clasts	Pervasive weak to moderate matrix carbonate. Patchy K. feldspar. 1cm epidote clots throughout 5.7%.		Low-moderate density of V.fine carbonate veinlets many 50-80°CA Local 10-20°CA Py veinlets in monzonite clasts.	Patchy fine-med. matrix Py commonly in clusters/patches. Local low angle CA Py veinlets in clasts	4-8	Tr	14371	51.00	54.00	1667	55
								14372	54.00	57.00	1363	50
								14373	57.00	59.00	2122	60
								14374	59.00	61.00	1636	70

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LITHOLOGY – MAIN UNITS	LITHOLOGY – SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
61.0-63.0 Pink Potassic Monzonite Dyke or large clast.	Fairly massive and homogeneous Local 2-4cm MV. xenoliths.	Strong primary, some secondary k.feldspar? Pervasive moderate carbonate. Chloritized mafic phenos		Numerous 40-70°CA hairline ep-carb veinlets Some wider carb veins Local 50-60CA Cpy veinlets	Fine Py and Cpy as fracture veinlets.	1-2	Tr-1	14375	61.00	63.10	299	20
63.10-92.20 Heterolithic Intrusion Breccia. Variable weak to strong k.feldspar alteration	63.10-69.12 Vague textures due to alteration. Appears to be a fine-medium breccia with variably altered clasts and matrix. Weak to local moderate magnetic	Pervasive patchy weak to strong carbonate. Weak to mod matrix K feldspar, numerous epidote clots. Local patches 2-6mm disseminated dark chlorite (after?) with fine magnetite		Low to high density of fine carbonate veinlets many @ 60-80°CA. Some subparallel larger veins	V. fine, local med grained pyrite in matrix. Commonly patchy.	4-6	Tr	14376	63.10	66.10	1359	70
								14377	66.10	69.12	1423	80
	69.12-72.42 As above but stronger alteration and veining overprinting fine-med breccia.	Pervasive carbonate as above Patchy matrix mod to strong K. feldspar. Some silicification? Non to weak magnetic		@ 71.0 5cm carb-qtz vein 30°CA Numerous fine irregular carb ± qtz local chl-Mgt veinlets	Fine to V. fine Py in fracture controlled patches and dissem. Local magnetite veinlets	3-6	Tr	14378	69.12	70.62	1047	35
								14379	70.62	72.42	1120	95
	72.42-77.36 Fine to medium breccia. matrix to weak clast supported. Mainly green metavolcanic and pink monzonite clasts. Fine-med grained altered matrix. Weak to v.strong magnetic	Pervasive weak to moderate carbonate. Mod. matrix K.feld patchy. Numerous 10% epidote clots. Patchy med-coarse Local vein magnetite		Local coarse magnetite-Py veins 30°CA. Some 35°CA carbonate-magnetite veins. Many fine discontinuous high angle carbonate veinlets	Patchy fine-med. disseminated Py mainly in matrix clusters Some coarser Py and coarse Py-magnetite veins	4-5	Tr	14380	72.42	75.00	1469	150
								14381	75.00	77.36	2071	180
	77.36-79.70 Medium green mafic clast/inclusion or dyke. Fine grained, mod. magnetic, minor bx inclusions	Widespread veinlet and dissem. f.g. epidote. Section is chloritic local mafic phenocrysts?		Low-mod epidote veinlet density 30-70° CA. Numerous hairline carbonate veinlets.	Rare Py veinlets. f.m. grained matrix Py in inclusion areas.	1-3	Tr	14382	77.36	79.70	706	60
	79.70-84.93 Similar to 72.42m Fine-med some coarse clast, matrix supported Bx. Mafic metavolcanic < larger monzonite clasts. Altered fine-med intrusive matrix. General weak, local mod. magnetic	Weak-moderate pervasive and or veinlet carbonate. Sections of mod. pervasive matrix K.feldspar Epidote clots in matrix and after plagioclase in monzonite also vein selvages		Mod. density high angle CA carbonate and, or epidote veinlets both in matrix and monzonite clasts.	Fine to med. grained Py clusters in matrix Fine disseminated Local veinlet Py in monzonite clasts.	2-5	Tr	14383	79.70	82.20	1215	95
								14384	82.20	84.93	1049	110
	84.93-92.20 As above fine-medium some coarse bx, matrix supported to weak clast sup. Large grey monzonite clast 89.56-90.22. 20% pink monzonite clasts and or K.feld alb. Alteration obscures textures.	Pervasive weak-mod matrix carbonate and smaller clasts. Weak in larger clasts or as veinlets. Moderate patchy pervasive K.feldspar in matrix and veinlets in clasts. Upto 10% f/c. epidote clots Local med-coarse dk chl after Mgt		Low density of 70-90°CA carb veinlets, Local 30°CA. Minor epidote.	As above f.m. grained matrix Py as dissem. patches. Local 30-60° Py veinlets some fine Cpy. Sparse remnant M/C grained dissem. magnetite.	2-6	Tr	14385	84.93	87.93	1348	150
								14386	87.93	90.00	1265	95

DDH.NBZ99-02

LITHOLOGY		ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA				
MAIN UNITS	SUB UNITS							Sample No.	From	To	Cu ppm	Au ppb
	84.93-92.20 see Pg 3					2-6	Tr	14387	90.00	92.20	1240	65
92.20-124.58 Coarse to very coarse Monolithic, Bimodal and Local Herolithic Intrusion Breccias	92.20-94.68 V. coarse-fine breccia mixture. Large pink to grey monzonite clasts 40-60cm mixed with fine angular breccia as above	Highly variable weak to strong matrix and clast carbonate. Patchy weak pervasive matrix K. feldspar also veinlets in clasts, matrix epi clots		Irregular 60-90° and 20-30° carbonate and, or epidote veinlets	Local m/c disseminated magnetite. Patchy dissem matrix Py. Fine dissem & veinlet Py in monzonite	2-5	Tr	14388	92.20	94.68	1116	45
	94.68-103.02 Greys and greens mixed fine and coarse, matrix to weak clast supported breccia. Variable proportions of grey monzonite, altered green mafic metavolcanic / microdiorite. Weak to local moderate magnetic.	Metavolcanic clasts are weak pervasive carbonated. Matrix areas are moderately carbonated. Local matrix weak K. feldspar alt. with patchy epidote clots.		Moderate density of 60-90°CA epidote ± carbonate veinlets. Local larger carb veins to 1cm with dark chlorite selvages. Some low angle carbonate veinlets. Local Py veinlets. Mod veinlet density below 100m	Most of the Py occurs as f/m grained dissem and patches in matrix. Local fine dissem. or veinlet Py in monzonite clasts & some metavolcanics	3-4	Tr	14389	94.68	97.68	1290	65
						2-3	Tr	14390	97.68	100.68	806	50
						3-4	Tr	14391	100.68	103.02	1184	135
	103.02-105.10 Mixed fine-med. matrix supported breccia. Same clast types as above.	Weak pervasive carbonate and patchy weak matrix K. feldspar. Epidote in veinlets and clots.		Numerous 60°CA epid > carb veinlets	Patchy fine-med matrix Py, sparse irregular Py veinlets	2-4	Tr	14392	103.02	105.10	741	85
	105.10-113.25. Vague textures. Possible dyke or tightly packed monolithic very coarse breccia - crackle breccia? Green hornblende porphyry with some plagioclase phenocrysts in fine grained groundmass. Grading downwards to grey monzonite with pink sections. Fine [illegible]	Weak pervasive carbonate throughout. Monzonite has moderate pervasive carbonate with patchy pervasive K.feld. @ 111.0-112.0. Generally weak local moderate magnetic. Local hematite patches after magnetite?		Low to local moderate density of 60-90°CA epidote ± carbonate veinlets	Monzonite 109-112m has most patchy f/m grained dissem Py, some stringer vein Py. Elsewhere esp. near contacts little Py.	1-2	–	14393	105.10	108.10	268	30
						1-3	Tr	14394	108.10	111.10	352	10
						2-4	Tr	14395	111.10	113.25	507	15
	113.25-124.58 Matrix poor medium to very coarse breccia. Metre scale subrounded green and pink hornblende monzonite porphyry boulders. Smaller < 50cm hbl or augite phyric mafic metavolcanic clasts. Variable magnetic. Less than 20% of this section is matrix with fine/med clasts, alt. [illegible]	Clasts are weakly altered with patchy epidote, variable pervasive/veinlet carbonate, local coarse epidote clots. Matrix areas have more epidote clots, stronger carb locally coarse. Patchy local K-feldspar, M/C magnetite. Some dark chlorite		Matrix areas have numerous irregular carb veinlets. Clasts have 60-80° CA epidote ± carb. veinlets. 113.25-113.80 20°CA cm. scale carb. veins and fine carb bx. zone	Matrix areas have up to 15% fine to coarse Py as patchy aggregates, veins-stringer zones. Local fine Py veinlets in clasts. M/C magnetite common in matrix.	1-3	Tr	14396	113.25	116.25	1081	185
						1-2	Tr	14397	116.25	119.25	1618	350
						1-3	Tr	14398	119.25	122.00	876	145

KAMLOOPS GEOLOGICAL SERVICES LTD. *LOGGED BY* [illegible] *DATE* .20. Sept. 1999.

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LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
	113.25-124.58 see Pg 4			@123.80 4cm coarse carbonate vein 80°CA		1-3	Tr	14398	119.25	122.00	876	145
						1-2	-	14399	122.00	124.58	977	180
124.58-174.64 Heterolithic Intrusion Breccia. Predominantly fine to medium matrix supported breccia. Variably magnetic	124.58-144.49 Fine to medium breccia, matrix to weak clast supported Heterolithic, mixed mafic metavolcanic, diorite, pink-grey monzonite, vague textures due to alteration. Variably altered fine-med grained intrusive matrix. Whole section could be regarded as fairly homogeneous for a breccia.	Variably carbonated weak-moderate matrix and some clasts. Patchy generally weak matrix K.feldspar. Epidote clots common also in some clasts. Moderate matrix K. feldspar 134.0-137.0		Low-local mod density of fine epidote and/or carbonate veinlets Generally 50-90°CA Local fine Py veinlets in clasts.	Fine to med grained dissem. Py aggregates in matrix + fine disseminated Py. Local Py veinlets. Some m/c magnetite with coarse Py in matrix	2-4	Tr	14400	124.58	127.58	1531	210
						2-3	Tr	14401	127.58	130.58	1485	175
						2-4	Tr	14402	130.58	133.58	2272	520
						2-6	Tr	14403	133.58	136.58	1123	145
						2-6	Tr	14404	136.58	139.58	1507	150
						4-6	Tr	14405	139.58	142.58	1560	150
						3-6	Tr	14406	142.58	144.49	1676	115
	144.49-149.87 As above fine-medium breccia, matrix supported. More homolithic mainly med green, fine grained metavolcanic clasts, subangular. matrix is fine/med, altered w/m mag	Mafic phenocrysts and clasts are variably chloritized. Patchy epidote clots. Local generally weak K. feldspar alt. Rims to some clasts, Local matrix. Patchy w/m pervasive carb.		Low density of low to high angle fine carbonate veinlets. Local irregular Py veinlets	Fine to med Locally blebby coarse matrix Py, dissem. grains or small aggregates. Local coarse magnetite in pink mono clasts.	3-6	Tr	14407	144.49	147.00	1397	62
						4-6	Tr	14408	147.00	149.87	1469	85

LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA: Sample No.	From	To	Cu ppm	Au ppb
	149.87-159.00 Fine to medium breccia. Matrix to weak clast supported. >20% pink monzonite clasts, majority are fine grained to porphyritic mafic metavolcanic-diorite clasts. Altered fine-medium grained dioritic matrix Variable weak to strong magnetic	Generally moderate pervasive carbonate. Patchy epidote clots, Local broad epidote vein selvages. Patchy weak-mod. matrix K. feldspar Local rims stronger than above. Local m/c grained dissem. magnetite Intense K. feldspar 157.80-159.00 with fine disseminated Cpy		Low density of 45-80°CA carbonate and, or epidote veinlets. mainly fine epidote in monzonite clasts	Patchy disseminated fine to coarse matrix, local clast Py. commonly as patches-aggregates in matrix Noticeable increase in f/m matrix Cpy associated with K. feldspar and local m/c dissem. magnetite	3-4	Tr	14409	149.87	152.87	1822	120
						3-4	Tr-1	14410	152.87	155.97	2475	295
						3-4	Tr	14411	155.97	157.80	999	155
						3-4	Tr	14412	157.80	159.00	330	90
	159.00-161.36 Coarse-med. breccia some monzonite clasts >50cm, smaller diorite, minor alt. diorite matrix	Minor matrix with carbonate, epidote, K. feldspar.		Low density of fine 40°-80°CA carbonate and Py veinlets	Minor disseminated and veinlet Py. f/m grained dissem. matrix Py	1-2	Tr	14413	159.00	161.36	1284	170
	161.36-171.33 Predominantly fine locally medium breccia, matrix to weak clast supported. Monzonite and mafic metavolcanic clasts in variably altered dioritic matrix.	Moderate pervasive matrix carbonate. Common epidote clots. Weak patchy K. feldspar Local m/c magnetite some dark chlorite. K. feldspar increases in strength to patchy moderate below 167.0		Generally low density of low + high angle carbonate veinlets Local epidote. Some very high angle quartz veinlets.	fine/med. disseminated and veinlet Py in matrix. Local fine specks of Cpy.	3-4	Tr	14414	161.36	164.36	1576	265
						3-4	Tr	14415	164.36	167.36	1207	190
						2-5	Tr	14416	167.36	169.36	2277	390
						2-4	Tr	14417	169.36	171.33	1155	640
	171.33-174.64 Fine matrix supported breccia as above. Local med-coarse pink monzonite, green metavolcanic clasts. Most clasts are fine angular, matrix supported	Matrix is altered commonly dioritic. w/m magnetic. w/m pervasive carbonate. 171.33-172 chloritic. Sparse epidote. Carb increases downwards		At top 3-4 cm 30°CA carbonate vein with vugs Local fine low angle carb veinlets + 60-90° CA fine Py veinlets.	In chloritic section fine Py aggregates with local fine Cpy Below in breccia fine dissem. matrix Py.	2-4	Tr-1	14418	171.88	172.67	1809	675
						2-3	Tr	14419	172.67	174.64	489	2800
174.64-177.83 Alteration-Fracture Zone. Strong bleaching, some breccia	Bleached-alteration zone local fine breccia (relict) textures.	Pervasive strong carbonate, chlorite partings. A late brecciated and carbonated fracture zone.	SS	Subparallel to 40°CA. chloritic partings with slickensides.	Sparse high angle Py veinlets and fine disseminated Py	1-2	Tr	14420	174.64	177.83	473	530
177.83-206.00 Heterolithic Intrusion Breccia. Potassic Alteration. moderate to strong magnetic	177.83-206.00 Mixed fine-medium breccia. matrix to weak clast supported Altered metavolcanic diorite and monzonite clasts. Larger monzonite	Patchy moderate to strong matrix K. feldspar, rims to many clasts (smaller). Patchy pervasive w/m carbonate. widespread generally sub. cm. epidote clots.		Low density of 30° and 60-90°CA carb. veinlets.	Fine-med grained Py disseminated in matrix - patches common Local coarse grained Py veins	1-2	Tr	14421	177.83	179.00	1279	325
						3-4	Tr	14422	179.00	182.00	1316	255

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LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
	Porphyry clasts are subrounded. Smaller clasts are subangular. Matrix is fine to medium grained altered, diorite	M/c grained magnetite commonly with coarser Py and locally in veins both matrix and some monzonite clasts. Strong K.feld. alteration at top 177.83-179.00		Fine pyrite veinlets are fairly common 30-90°CA upto 5mm wide	Locally with M/c grained magnetite. Minor amounts of fine disseminated Cpy throughout.	3-4	Tr	14422	179.00	182.00	1316	255
						2-4	Tr	14423	182.00	185.00	1164	405
						3-4	Tr	14424	185.00	188.00	1174	405
						2-4	Tr	14425	188.00	191.00	1288	510
				Fine high & low angle CA epidote veinlets more common.		3-4	Tr	14426	191.00	194.00	746	300
						1-3	–	14427	194.00	197.00	1863	675
	Fine matrix supported potassic breccia, subangular clasts.					2-4	Tr-1	14428	197.00	200.00	3165	1590
						2-4	Tr-1	14429	200.00	203.00	1918	555
						2-6	Tr-1	14430	203.00	206.00	5561	2240
206.00-209.10 Strong Alteration - Vein Zone at upper contact to dyke.	Alteration overprints textures. Appears to be a mixed zone of feld. porphyry monzonite dyke and altered [illegible] breccia	Alternating 50cm to 1m zones of strong K.feldspar with grey to greenish albite. Random. fine grained M/S magnetic with KF.		High density of quartz-carbonate veinlets 50°CA and veins 70-80°CA	Variety of Py habits in bleached vein and K.feld alt. zones. F/m dissem, veinlet and patchy [illegible] Cpy	3-5	Tr-1	14431	206.00	207.50	3912	1100
							1	14482	207.50	209.10	2005	265
209.10-215.73 Strong Altered Feldspar Porphyry Monzonite Dyke.	209.10-211.60 Light greenish grey, fine grained - bleached with altered mafic phenocrysts	Bleached through albite? fairly hard. Weak pervasive carb. Non magnetic. Sericite alt phenocrysts		Local alignment of plagioclase 60-70°CA.	Rare fine-med grained disseminated Py.	<1	–	14433	209.10	211.60	308	95

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LITHOLOGY		ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA					
MAIN UNITS	SUB UNITS							Sample No.	From	To	Cu ppm	Au ppb	
Altered Feldspar Porphyry Monzonite dyke	to 211.60 See Pg 7												210
	211.60-213.75 Altered fine plagioclase porphyry some flow alignment. Fine groundmass - local weak magnetic	Patchy bleaching albite? - carbonate with K. feldspar. Alteration is controlled by primary banding & fracture		Alteration fabric 60° CA. Local qtz > carb veinlets 45°CA	Sparse fine disseminated Py.	Tr	–	14434	211.60	213.75	149	30	
	213.75-215.73 Rubbly plagioclase-hornblende (chl) pink porphyry with Py wallrock inclusions. Some 5-6cm xenoliths	Moderate pervasive carbonate. Primary & secondary K feldspar Mod. magnetic. Rare Epidote		Some banding and Py zones 60°CA. Irregular fine carb veinlets.	Narrow bands and patchy dissem. f/m Py with associated fine Cpy	2-5	Tr-1	14425	213.75	215.73	3619	900	
215.73 - 220.30 Potassic Altered and Bleached Intrusion Breccias.	Many pink, plag porphyritic Monzonite clasts. Matrix supported. Intrusive med. grained matrix - carbonated and bleached with variable M/C magnetite	Pervasive weak to moderate carbonate. K. feldspar is strongest down to 217.50 Patchy below with local clast rims. Bleaching prominent downwards		Moderate density of fine carb veinlets throughout. Local cm scale carbonate and, or pyrite veins 20°CA.	Very strong dissem. Local veinlet f/m Py and Cpy to 217.50 Patch f/m disseminated Py + Cpy (clusters) below	6-9	1-3	14436	215.73	217.50	7750	1280	
						2-4	1	14437	217.50	220.30	4336	465	220
220.30 - 223.13 Feldspar Porphyry Dyke. Bleached and fractured.	Light greenish grey, fine grained with altered plagioclase phenocrysts locally crowded some altered mafics	K. feldspar alteration down to 220.90. Below bleached Patchy weak to moderate pervasive carb. Chl. clay fractures below 221.50		Numerous quartz and carbonate veins to 1cm above 221.50 @ 10-35°CA. Some chloritic Below several 30-40° fractures	Patches of f/m Py Local fracture veinlet Py minor fine Cpy. sparse magnetite	2-3	Tr-1	14438	220.30	223.13	3415	395	
223.13 - 244.42 Heterolithic Intrusion Breccia.	223.13 - 231.25 Mixed fine, med, coarse, clast to weak matrix supported breccia. Porphyritic pink Monzonite, altered mafic metavolcanic and grey monzonite diorite clasts. Matrix is altered f/m grained. Moderate magnetic	Pervasive - patchy weak/mod. carbonate. Pink K. feldspar is mod-strong below dyke decreases to weak-moderate downwards. Epidotized plagioclase below 130m. Numerous med/coarse porphyritic pink Monzonite clasts below 229.50		223.42 - 224.2 moderate vein density fine high angle CA carbonate ± epidote veinlets. Pyrite magnetite veinlets 60-90°CA. 224.2-229. 10°-30°CA carb veins some qtz 80-90°CA fine carb. veinlets.	Pyrite - magnetite veins close to dyke. Below fracture controlled and dissem. f/m Py in clasts and disseminated clusters in matrix. Local f/m Cpy to 227m	1-3	Tr	14439	223.13	224.70	1350	385	
						2-3	Tr	14440	224.80	226.78	2028	300	
						1-2	Tr	14441	226.78	229.28	2020	230	
						1-2	Tr	14442	229.28	231.25	1173	165	230
	231.25 - 237.05 Medium-fine breccia, matrix to weak clast supported. Similar clast compositions to above, subangular to subrounded. Mod. magnetic matrix med. grained vague textures	Patchy weak pervasive carb. Restricted patchy weak K. feld. Local small patches, bands of fine pervasive epidote. Ep. altered plagioclase phenocrysts in clasts. Mod. magnetic throughout Local small epidote clots.		Sparse 40-60°CA carbonate and, or epidote veinlets.	Patchy fine/med matrix Py commonly in patches. Local specks of v-fine Cpy.	2-4	Tr	14443	231.25	234.25	1258	135	
						2-4	Tr	14444	234.25	237.05	1020	90	
	237.05 - 242.05 Alteration-Veinlet Zone overprinting fine-medium breccia, possibly some F.P. dyke. 237.05-238.07; 239.40-240.56 Potassic altered breccia numerous carb veinlets 238.07-239.40; 240.56-242.05 bleached	Potassic - K. feldspar breccia zones have weak-mod. carbonate, variable K. feldspar, variably magnetic, sparse epidote. Bleached Zones have m/s pervasive carb. possible albite with chl. fractures		Breccia has numerous veinlets at variable angles Bleached	Fine Py occurs throughout in breccia quite patchy predominantly fine some fine Cpy. In bleached zones - more Py, fine grained veinlets, local Cpy	2-3	Tr	14445	237.05	238.13	1178	65	
						3-4	Tr	14446	238.13	239.20	1286	70	
						2-4	Tr	14447	239.20	240.58	1725	135	240
						3-4	Tr	14448	240.58	242.05	798	125	

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LITHOLOGY		ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA					
MAIN UNITS	SUB UNITS							Sample No.	From	To	Cu ppm	Au ppb	
													240
	carbonate with some feldspar porphyry remnants	Breccia textures more evident at bottom of bleached zone		In lower bleached zone many subparll carb veinlets 45-50°CA		3-4	Tr	14448	240.58	242.05	798	175	
	242.05-244.42 Fine to medium breccia Matrix supported. vague textures due to alteration	Pervasive mod. matrix carbonate overprinting dioritic textures. Moderate magnetic. Patchy weak k. feldspar. Numerous epidote clots		Low-mod density of 30-60°CA fine carb ± epidote veinlets some fine Py veinlets	Predominantly fine matrix Py in small patches local v. fine Cpy.	2-3	Tr	14449	242.05	244.42	944	65	
244.42-245.80 Crowded Plagioclase Porphyry Monzonite Dyke.	Crowded porphyry with flow aligned phenocrysts in k. feldspar fine grained groundmass.	Strong bleached at base 245.40 + some concordant veins (qtz-carb) Moderate magnetic in Fd. Porph.		Sharp 80°CA contacts 80° aligned phenocrysts fine 60-70°CA carb-epid veinlets.	fine disseminated-patches of Py. Local fine veinlets.	2-3	Tr	14450	244.02	245.80	216	10	
245.80-251.60 Heterolithic Intrusion Breccia (as above dyke)	Mixed fine-medium-coarse heterolithic breccia. matrix to weak clast supported. Mixed mafic metavolcanic, monzonite and dioritic clasts. Some >50cm. Med. grained dioritic matrix-vague textures. Patchy M/s magnetic	Moderate pervasive to patchy clast and matrix carbonate. Patchy k. feldspar in matrix gets stronger downwards. widespread epidote clots in matrix. Coarse Py aggregates with local M/c magnetite		moderate density of high and low angle CA carbonate veinlets. many subparallel to 30°CA also 60-70°CA.	Fine to med. grained dissem. and patchy Py fine dissem. Cpy Local coarse Py-magnetite aggregates.	3-4	Tr-0.5	14451	245.80	248.80	1060	95	
						2-3	Tr	14452	248.80	251.60	1031	230	250
251.60-254.60 Altered Feldspar Porphyry Dyke	Light greenish strongly bleached fairly soft-sericitic? Many phenocrysts are altered. Non magnetic outside of veins.	Pervasive sericite? possibly some albite. weak pervasive carbonate. Some selvage silica in qtz vein areas.		A single banded 2cm wide grey qtz vein subparallel CA 30°CA magnetite-Py-carb veins at contact	fine vein related Py with magnetite near lower contact, minor fine Cpy.	1-2	Tr	14453	251.60	254.60	824	55	
254.60-265.00 Heterolithic Intrusion Breccia (as above dyke)	Fine to medium breccia, matrix to weak clast supported. Subangular clasts mixed lithologies as above dyke, generally altered. Fine to medium grained altered dioritic matrix.	Generally weak pervasive carbonate, patchy weak/mod. k. feldspar in matrix. Epidote clots are common throughout predominantly in matrix. Variable-moderate magnetic		Low, locally mod. density of 10-30°CA fine epidote, carb and 60-90°CA carb. veinlets, rare Py. Epidote veinlets increase downwards esp. near lower contact	Patchy generally fine Py as matrix patches. V. fine Cpy locally.	3-4	Tr	14454	254.60	257.60	820	45	
						3-4	Tr	14455	257.60	260.60	918	45	260
						3-4	Tr	14456	260.60	263.60	785	30	
				30-40°CA fine laminated and altered contact		1-3	Tr	14457	263.60	265.00	707	35	
265.00-284.38 EOH. Altered Massive to Brecciated Intrusive Rocks-Dykes? (alkalic)	265.00-267.90 Light greys to pinkish greys. Fine grained-altered. massive to weakly brecciated similar to bleached dykes above.	Patchy weak pervasive carbonate Local weak patchy k. feldspar fairly hard-albitic? Local sericitic? altered plagioclase.		generally fine 40-90°CA carb. veinlets. Local larger to 1cm qtz-carb veins 80°CA	Patchy disseminated fine Py aggregates, local stringers. f.m molybdenite as specks in qtz/carb V	1-3	Tr	14458	265.00	267.90	692	30	
	267.90-268.69 Narrow f.m. breccia zone. Strong k. feldspar altered matrix	vague texture med grained intrusive! K. feld. alt. variable carb, magnetic		Numerous 40-60°CA carb veinlets.	Patchy matrix f.m Py / fine Cpy	2-5	Tr-1	14459	267.90	268.69	966	40	
	268.69-277.75 strong k. feldspar altered plagioclase-hornblende porphyry. Mod. magnetic local Py-Cpy veins.	strong pervasive to vein K. feldspar. moderate pervasive carbonate		Low-moderate density of 30-60°CA fine carb veinlets Local subparallel high angle Py-Cpy v.	Fine disseminated Py throughout some Cpy Local Py/Cpy veinlets with m/c magnetite	1-3	Tr-1	14460	268.69	270.00	577	45	270

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DDH.NBZ99-02

LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA: Sample No.	From	To	Cu ppm	Au ppb	
	268.69-273.75 continued see Pg 9. Local 2cm mafic xenoliths subrounded.					Tr-2	Tr	14461	270.00	272.00	929	55	270
						Tr-2	Tr	14462	272.00	273.75	1000	85	
	273.75-274.92 As above but much weaker K-feldspar alt. Remnant plagioclase-hornblende porph. textures	Strong pervasive and veinlet carb. Mod. magnetic. Weak patchy K-feldspar		High density of fine carbonate veinlets. Chloritic partings	Patches of f/m Py	1-2	Tr	14463	273.75	274.92	335	55	
	274.92-275.85 Variably bleached, K-feld alt., patchy magnetite	Patchy bleaching, K-feldspar, strong carbonate, variably magnetic		Numerous fine carb. veinlets	Local 75°CA Py veins fine grained [illegible] Py	2-3	Tr	14464	274.92	275.85	545	105	
	275.85-279.23 Light grey to greenish bleached @ 265.0. Remnant crowded plagioclase porphyry textures. Local alt. mafics - hornblende? Some flow alignment. [illegible]	Moderate to strong pervasive carbonate. Weak pervasive K-feldspar at bottom. Some dark chloritic partings		Mod. density 20-30°CA and 60-90°CA carb and or Py veinlets flow alignment 40°CA	Fine disseminated and veinlet Py local fine Cpy.	2-4	Tr	14465	275.85	277.85	653	110	
						2-4	Tr	14466	277.85	279.23	527	55	
	279.23-284.38 As above but weak pervasive K-feldspar throughout. Remnant plagioclase porphyry. Patchy weak magnetic. Light chlorite or sericite alt. phenocrysts	Pervasive moderate carbonate. Patchy pervasive weak K-feld. Local mod. near base. Some bleached greenish sections		Low density of Py veinlets. Local finer chloritic fractures, veinlets	Patchy veinlet Py less than above minor fine dissem. Cpy.	2-3	Tr	14467	279.23	282.00	2300	160	280
						1-3	Tr	14468	282.00	284.38	1354	535	
				284.38 EOH.									284

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DDHNBZ-2

SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)	Cu (ppm)	L X Au	Au-Comp	L X Cu	Cu-Comp	From	To	Length	Au (ppb)	Cu (ppm)
14351	4.50	6.00	1.50	95	1251	142.50		1876.50						
14352	6.00	7.75	1.75	120	1804	210.00		3157.00						
14353	7.75	10.75	3.00	45	766	135.00		2298.00						
14354	10.75	13.75	3.00	35	876	105.00		2628.00						
14355	13.75	15.90	2.15	25	564	53.75		1212.60						
14356	15.90	17.90	2.00	40	1258	80.00		2516.00						
14357	17.90	19.87	1.97	70	1559	137.90		3071.23						
14358	19.87	21.87	2.00	85	1543	170.00		3086.00						
14359	21.87	23.77	1.90	105	1840	199.50		3496.00						
14360	23.77	26.37	2.60	95	1891	247.00		4916.60						
14361	26.37	28.37	2.00	55	1786	110.00		3572.00						
14362	28.37	30.27	1.90	45	1361	85.50		2585.90						
14363	30.27	33.47	3.20	45	1791	144.00		5731.20						
14364	33.47	36.75	3.28	55	1431	180.40		4693.68						
14365	36.75	39.75	3.00	60	1502	180.00		4506.00						
14366	39.75	42.75	3.00	95	1729	285.00		5187.00						
14367	42.75	45.75	3.00	90	1184	270.00	2089.30	3552.00	46913.61	15.90	45.75	29.85	69.99	1571.65
14368	45.75	48.00	2.25	105	760	236.25		1710.00						
14369	48.00	49.87	1.87	45	676	84.15		1264.12						
14370	49.87	51.00	1.13	85	855	96.05		966.15						
14371	51.00	54.00	3.00	55	1667	165.00		5001.00						
14372	54.00	57.00	3.00	50	1863	150.00		5589.00						
14373	57.00	59.00	2.00	60	2122	120.00		4244.00						
14374	59.00	61.00	2.00	70	1636	140.00		3272.00						
14375	61.00	63.10	2.10	20	299	42.00		627.90						
14376	63.10	66.10	3.00	70	1359	210.00		4077.00						
14377	66.10	69.12	3.02	80	1437	241.60		4339.74						
14378	69.12	70.62	1.50	35	1047	52.50		1570.50						
14379	70.62	72.42	1.80	95	1120	171.00		2016.00						
14380	72.42	75.00	2.58	150	1469	387.00		3790.02						
14381	75.00	77.36	2.36	180	2071	424.80		4887.56						
14382	77.36	79.70	2.34	60	706	140.40		1652.04						
14383	79.70	82.20	2.50	95	1215	237.50		3037.50						
14384	82.20	84.93	2.73	110	1049	300.30		2863.77						
14385	84.93	87.93	3.00	150	1348	450.00		4044.00						
14386	87.93	90.00	2.07	95	1265	196.65		2618.55						
14387	90.00	92.20	2.20	65	1240	143.00		2728.00						
14388	92.20	94.68	2.48	45	1116	111.60		2767.68						
14389	94.68	97.68	3.00	65	1290	195.00		3870.00						
14390	97.68	100.68	3.00	50	806	150.00		2418.00						
14391	100.68	103.02	2.34	135	1184	315.90		2770.56						
14392	103.02	105.10	2.08	85	741	176.80		1541.28						
14393	105.10	108.10	3.00	30	268	90.00		804.00						
14394	108.10	111.10	3.00	10	352	30.00		1056.00						
14395	111.10	113.25	2.15	15	507	32.25	5069.75	1090.05	76616.42	45.75	113.25	67.50	75.40	1135.06
14396	113.25	116.25	3.00	185	1081	555.00		3243.00						
14397	116.25	119.25	3.00	350	1618	1050.00		4854.00						
14398	119.25	122.00	2.75	145	876	398.75		2409.00						
14399	122.00	124.58	2.58	180	977	464.40		2520.66						
14400	124.58	127.58	3.00	210	1531	630.00		4593.00						
14401	127.58	130.58	3.00	175	1485	525.00		4455.00						
14402	130.58	133.58	3.00	520	2272	1560.00		6816.00						
14403	133.58	136.58	3.00	145	1123	435.00		3369.00						
14404	136.58	139.58	3.00	150	1507	450.00		4521.00						
14405	139.58	142.58	3.00	150	1560	450.00		4680.00						
14406	142.58	144.49	1.91	115	1676	219.65	6737.80	3201.16	44661.82	113.25	144.49	31.24	215.68	1429.64
14407	144.49	147.00	2.51	62	1397	155.62		3506.47						
14408	147.00	149.87	2.87	85	1469	243.95		4216.03						
14409	149.87	152.87	3.00	120	1822	360.00		5466.00						
14410	152.87	155.87	3.00	295	2475	885.00		7425.00						
14411	155.87	157.80	1.93	155	999	299.15		1928.07						
14412	157.80	159.00	1.20	90	330	108.00	2051.72	396.00	22937.57	144.49	159.00	14.51	141.40	1580.81
14413	159.00	161.36	2.36	170	1284	401.20		3030.24						
14414	161.36	164.36	3.00	265	1576	795.00		4728.00						
14415	164.36	167.36	3.00	190	1207	570.00	1766.20	3621.00	11379.24	159.00	167.36	8.36	211.27	1361.15
14416	167.36	169.36	2.00	390	2277	780.00		4554.00						
14417	169.36	171.33	1.97	640	1155	1260.80		2275.35						
14418	171.33	172.67	1.34	675	1809	904.50		2424.06						
14419	172.67	174.64	1.97	2800	489	5516.00		963.33						
14420	174.64	177.83	3.19	530	473	1690.70	10152.00	1508.87	11725.61	167.36	177.83	10.47	969.63	1119.92
14421	177.83	179.00	1.17	325	1279	380.25		1496.43						
14422	179.00	182.00	3.00	255	1316	765.00		3948.00						
14423	182.00	185.00	3.00	405	1164	1215.00		3492.00						
14424	185.00	188.00	3.00	405	1174	1215.00		3522.00						

14425	188.00	191.00	3.00	510	1288	1530.00	5105.25	3864.00	16322.43	177.83	191.00	13.17	387.64	1239.36
14426	191.00	194.00	3.00	300	746	900.00		2238.00						
14427	194.00	197.00	3.00	675	1863	2025.00		5589.00						
14428	197.00	200.00	3.00	1590	3165	4770.00		9495.00						
14429	200.00	203.00	3.00	555	1918	1665.00		5754.00						
14430	203.00	206.00	3.00	2240	5561	6720.00		16683.00						
14431	206.00	207.50	1.50	1100	3912	1650.00	17730.00	5868.00	45627.00	191.00	207.50	16.50	1074.55	2765.27
14432	207.50	209.10	1.60	265	2005	424.00	18154.00	3208.00	48835.00	191.00	209.10	18.10	1002.98	2698.07
14433	209.10	211.60	2.50	95	308	237.50		770.00						
14434	211.60	213.75	2.15	30	149	64.50	302.00	320.35	1090.35	209.10	213.75	4.65	64.95	234.48
14435	213.75	215.73	1.98	900	3619	1782.00		7165.62						
14436	215.73	217.50	1.77	1280	7750	2265.60		13717.50						
14437	217.50	220.30	2.80	465	4336	1302.00		12140.80						
14438	220.30	223.13	2.83	395	3415	1117.85		9664.45						
14439	223.13	224.30	1.17	385	1350	450.45		1579.50						
14440	224.30	226.78	2.48	300	2028	744.00		5029.44						
14441	226.78	229.28	2.50	230	2020	575.00	8236.90	5050.00	54347.31	213.75	229.28	15.53	530.39	3499.50
14442	229.28	231.25	1.97	165	1173	325.05		2310.81						
14443	231.25	234.25	3.00	135	1258	405.00		3774.00						
14444	234.25	237.05	2.80	90	1020	252.00		2856.00						
14445	237.05	238.13	1.08	65	1178	70.20		1272.24						
14446	238.13	239.20	1.07	70	1286	74.90		1376.02						
14447	239.20	240.58	1.38	135	1725	186.30		2380.50						
14448	240.58	242.05	1.47	175	798	257.25	1570.70	1173.06	15142.63	229.28	242.05	12.77	123.00	1185.80
14449	242.05	244.42	2.37	65	944	154.05		2237.28						
14450	244.42	245.80	1.38	10	216	13.80		298.08						
14451	245.80	248.80	3.00	95	1060	285.00		3180.00						
14452	248.80	251.60	2.80	230	1031	644.00		2886.80						
14453	251.60	254.60	3.00	55	824	165.00		2472.00						
14454	254.60	257.60	3.00	45	820	135.00		2460.00						
14455	257.60	260.60	3.00	45	918	135.00		2754.00						
14456	260.60	263.60	3.00	30	785	90.00		2355.00						
14457	263.60	265.00	1.40	35	707	49.00		989.80						
14458	265.00	267.90	2.90	30	692	87.00		2006.80						
14459	267.90	268.69	0.79	40	966	31.60		763.14						
14460	268.69	270.00	1.31	45	577	58.95		755.87						
14461	270.00	272.00	2.00	55	929	110.00		1858.00						
14462	272.00	273.75	1.75	85	1000	148.75		1750.00						
14463	273.75	274.92	1.17	55	335	64.35		391.95						
14464	274.92	275.85	0.93	105	545	97.65		506.85						
14465	275.85	277.85	2.00	110	653	220.00		1306.00						
14466	277.85	279.23	1.38	55	529	75.90		730.02						
14467	279.23	282.00	2.77	160	2300	443.20		6371.00						
14468	282.00	284.38	2.38	535	1354	1273.30		3222.52						
							43716.35		143699.94	159.00	229.28	70.28	622.03	2044.68

ECO-TECH LABORATORIES LTD.

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4
Phone (250) 573-5700 Fax (250) 573-4557
email: ecotech@direct.ca

CERTIFICATE OF ASSAY AK 99-541

CHRISTOPHER JAMES GOLD CORP.
C/O RON WELLS
910 HEATHERTON CRT.
KAMLOOPS, BC, V1S 1P9

8-Oct-99

ATTENTION: RON WELLS

No. of samples received: 68
Sample type: Core
PROJECT #: NB2-02
SHIPMENT #: 2
Samples submitted by: R. Wells

ET #.	Tag #	Au (g/t)	Au (oz/t)
19	14419	2.80	0.082
28	14428	1.59	0.046
30	14430	2.24	0.065
31	14431	1.10	0.032
36	14436	1.28	0.037
QC DATA:			
Resplit:			
36	14436	1.40	0.041
Standard:			
STD-M		1.42	0.041

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/99

6-Oct-99

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-524

CHRISTOPHER JAMES GOLD CORP.
C/O RON WELLS
910 HEATHERTON CRT.
KAMLOOPS, BC, V1S 1P9

Phone: 604-573-5700
Fax : 604-573-4557

ATTENTION: RON WELLS

No. of samples received: 50
Sample type: Core
PROJECT #: NBZ-02
SHIPMENT #: 1
Samples submitted by: R. Wells

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	14351	95	<0.2	1.77	<5	75	<5	3.09	<1	39	86	1251	7.18	<10	1.80	614	1	0.04	23	2380	20	10	<20	49	0.21	<10	175	<10	3	45
2	14352	120	<0.2	1.88	10	50	<5	2.80	<1	44	65	1804	7.25	<10	2.10	511	9	0.04	26	2300	26	15	<20	35	0.21	<10	187	10	11	38
3	14353	45	<0.2	1.37	10	45	<5	3.50	<1	19	58	766	4.49	<10	1.12	505	11	0.04	13	2200	22	10	<20	45	0.14	<10	156	10	27	34
4	14354	35	<0.2	1.26	10	35	<5	3.37	<1	27	51	876	5.02	<10	1.00	443	9	0.04	8	2190	16	<5	<20	39	0.14	<10	110	10	16	34
5	14355	25	<0.2	1.09	10	30	<5	2.99	<1	18	38	564	3.76	<10	0.86	417	3	0.03	8	2020	12	10	<20	50	0.11	<10	79	10	19	23
6	14356	40	<0.2	2.22	10	60	<5	2.65	<1	39	79	1258	8.82	<10	2.39	593	3	0.04	28	2460	24	5	<20	33	0.28	<10	200	<10	<1	50
7	14357	70	<0.2	1.87	5	55	<5	2.46	<1	44	43	1559	8.94	<10	2.05	481	12	0.04	22	2360	22	5	<20	36	0.24	<10	166	<10	<1	44
8	14358	85	<0.2	1.45	10	45	<5	3.60	<1	35	46	1543	7.46	<10	1.48	546	24	0.03	12	2130	22	<5	<20	46	0.12	<10	128	<10	7	46
9	14359	105	<0.2	1.58	10	35	<5	2.49	<1	42	47	1840	8.18	<10	1.67	454	17	0.04	14	2070	24	<5	<20	31	0.14	<10	124	10	<1	44
10	14360	95	<0.2	2.31	10	45	<5	2.05	<1	43	57	1891	9.59	<10	2.69	626	15	0.04	27	2340	30	<5	<20	27	0.24	<10	191	<10	<1	65
11	14361	55	<0.2	2.27	10	40	<5	2.52	<1	54	46	1786	9.32	<10	2.64	677	8	0.04	27	2560	32	10	<20	39	0.23	<10	186	<10	<1	68
12	14362	45	<0.2	2.47	10	50	<5	3.22	<1	54	70	1361	9.23	<10	2.72	777	23	0.06	32	2790	32	20	<20	55	0.28	<10	227	<10	2	74
13	14363	45	<0.2	1.90	10	50	<5	2.05	<1	75	55	1791	9.49	<10	2.12	503	30	0.04	20	2350	24	<5	<20	35	0.20	<10	167	<10	<1	62
14	14364	55	<0.2	2.07	20	45	<5	2.98	<1	50	68	1431	8.10	<10	2.34	683	39	0.05	22	2600	30	25	<20	40	0.24	<10	200	10	4	63
15	14365	60	<0.2	1.76	10	45	<5	3.63	<1	48	55	1502	7.41	<10	1.89	686	37	0.04	20	2400	48	10	<20	63	0.14	<10	135	<10	4	59
16	14366	95	<0.2	1.68	10	45	<5	2.94	<1	59	134	1729	7.22	<10	1.93	665	25	0.04	38	2130	26	20	<20	42	0.17	<10	148	10	5	54
17	14367	90	<0.2	1.63	15	45	<5	2.77	<1	62	51	1184	7.72	<10	1.81	614	22	0.03	15	2350	28	10	<20	40	0.14	<10	144	<10	<1	57
18	14368	105	<0.2	1.70	15	50	<5	5.95	<1	57	52	760	7.29	<10	1.75	932	22	0.03	15	2260	30	15	<20	150	0.07	<10	113	<10	14	55
19	14369	45	<0.2	1.64	5	50	<5	4.90	<1	58	43	676	6.54	<10	1.86	937	15	0.03	12	2200	22	15	<20	95	0.07	<10	116	<10	9	56
20	14370	85	0.6	0.80	5	65	<5	5.61	1	34	84	855	5.71	<10	1.85	956	30	0.02	15	2020	26	10	<20	197	<0.01	<10	46	<10	3	53

CHRISTOPHER JAMES GOLD CORP.

ICP CERTIFICATE OF ANALYSIS AK 99-524

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
21	14371	55	<0.2	1.88	15	40	<5	4.23	<1	49	52	1667	7.84	<10	2.10	864	18	0.03	18	2150	36	<5	<20	70	0.13	<10	138	10	4	63
22	14372	50	<0.2	1.88	10	40	<5	2.80	<1	53	78	1863	7.72	<10	1.98	667	55	0.04	21	2410	32	15	<20	36	0.18	<10	135	10	2	59
23	14373	60	<0.2	1.77	5	50	<5	3.19	<1	56	60	2122	8.74	<10	1.97	739	34	0.03	22	2290	28	10	<20	53	0.13	<10	121	<10	<1	61
24	14374	70	<0.2	1.88	10	50	<5	4.33	<1	59	69	1636	8.08	<10	2.13	848	17	0.03	20	2280	28	10	<20	96	0.11	<10	144	<10	<1	64
25	14375	20	<0.2	1.03	10	30	<5	3.30	<1	18	44	299	3.51	<10	0.92	630	<1	0.03	6	1700	20	10	<20	42	0.10	<10	98	10	22	33
26	14376	70	<0.2	1.73	20	45	<5	4.65	<1	53	54	1359	7.44	<10	1.69	705	27	0.03	19	2360	34	15	<20	54	0.11	<10	104	10	5	55
27	14377	80	<0.2	1.93	15	40	<5	4.89	<1	45	54	1437	7.67	<10	2.01	872	61	0.03	22	2510	36	10	<20	55	0.13	<10	136	10	5	65
28	14378	35	<0.2	2.59	5	55	<5	6.13	<1	40	111	1047	7.38	<10	3.13	1238	22	0.03	29	2720	40	25	<20	137	0.19	<10	229	<10	10	68
29	14379	95	0.8	2.16	10	25	<5	7.92	2	34	66	1120	6.91	<10	2.44	1308	28	0.03	19	2570	40	10	<20	329	0.03	<10	126	<10	28	81
30	14380	150	<0.2	1.81	15	45	<5	3.97	<1	63	66	1469	8.38	<10	1.91	797	32	0.03	19	2300	36	10	<20	97	0.10	<10	123	<10	<1	64
31	14381	180	<0.2	1.93	15	50	<5	2.38	<1	96	59	2071	9.52	<10	2.07	736	25	0.03	22	2350	36	10	<20	53	0.17	<10	141	10	<1	69
32	14382	60	<0.2	2.56	35	40	<5	2.77	<1	50	123	706	7.77	<10	2.89	865	<1	0.03	42	3160	52	25	<20	41	0.28	<10	216	10	3	77
33	14383	95	<0.2	1.82	25	45	<5	2.42	<1	70	69	1215	6.91	<10	1.78	714	19	0.03	17	2480	40	10	<20	37	0.17	<10	125	10	7	65
34	14384	110	<0.2	1.39	20	10	<5	2.39	<1	50	55	1049	5.58	<10	1.25	594	26	0.03	14	2150	26	25	<20	18	0.13	<10	102	10	5	52
35	14385	150	<0.2	1.76	20	35	<5	2.34	<1	57	58	1348	8.14	<10	1.78	780	26	0.04	18	2370	34	<5	<20	32	0.16	<10	134	10	<1	68
36	14386	95	<0.2	1.81	5	70	<5	4.31	<1	69	53	1265	8.70	<10	1.77	967	38	0.04	15	2370	24	<5	<20	82	0.14	<10	157	<10	<1	65
37	14387	65	<0.2	1.85	25	55	<5	3.31	<1	88	59	1240	8.71	<10	1.80	958	28	0.04	15	2550	40	<5	<20	55	0.19	<10	170	10	2	71
38	14388	45	<0.2	1.67	20	40	<5	5.69	<1	99	42	1116	7.28	<10	1.60	1116	23	0.04	12	2150	32	<5	<20	66	0.12	<10	140	1	3	61
39	14389	65	<0.2	2.26	15	45	<5	5.18	<1	64	72	1290	9.43	<10	2.26	1266	18	0.05	20	2580	46	15	<20	59	0.23	<10	224	<10	7	83
40	14390	50	0.2	2.05	15	40	<5	5.36	<1	32	43	806	7.01	<10	2.14	1216	4	0.03	14	2390	40	<5	<20	116	0.17	<10	163	10	9	71
41	14391	135	<0.2	2.11	20	55	<5	4.25	<1	39	67	1184	8.04	<10	2.14	1069	6	0.04	18	2520	44	15	<20	115	0.20	<10	173	10	6	72
42	14392	85	<0.2	1.97	15	35	<5	3.60	<1	32	62	741	6.74	<10	1.70	898	5	0.04	15	2320	36	20	<20	45	0.18	<10	166	10	3	72
43	14393	30	<0.2	1.84	15	20	<5	3.09	<1	17	56	268	3.55	<10	0.66	386	9	0.06	6	2160	36	<5	<20	36	0.12	<10	120	10	20	26
44	14394	10	<0.2	1.84	10	35	<5	3.95	<1	23	63	352	5.10	<10	1.46	816	8	0.05	13	2080	36	15	<20	47	0.17	<10	158	10	20	47
45	14395	15	<0.2	1.97	135	55	<5	5.45	1	19	43	507	5.94	<10	1.73	1041	16	0.04	11	2190	38	25	<20	101	0.06	<10	134	10	28	60
46	14396	185	<0.2	2.22	35	65	<5	5.12	<1	39	139	1081	8.11	<10	2.58	1286	29	0.04	49	2370	46	25	<20	88	0.19	<10	163	10	9	76
47	14397	350	<0.2	2.36	5	55	<5	4.66	<1	61	66	1618	9.15	<10	2.54	1398	13	0.05	20	2500	38	15	<20	73	0.24	<10	223	<10	4	81
48	14398	145	<0.2	1.65	15	40	<5	3.91	<1	52	41	876	5.75	<10	1.49	1036	11	0.03	9	2020	36	10	<20	64	0.16	<10	126	10	12	60
49	14399	180	<0.2	1.70	20	60	<5	4.98	<1	77	78	977	8.68	<10	1.57	1103	24	0.04	18	1960	32	<5	<20	84	0.17	<10	150	<10	3	64
50	14400	210	<0.2	1.94	20	35	<5	2.76	<1	52	63	1531	7.56	<10	1.75	942	9	0.04	20	2470	38	15	<20	41	0.15	<10	137	10	<1	71

CHRISTOPHER JAMES GOLD CORP. | ICP CERTIFICATE OF ANALYSIS AK 99-524 | ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC DATA:																														
Resplit:																														
1	14351	115	<0.2	1.67	5	60	<5	2.80	<1	37	80	1165	6.88	<10	1.78	553	1	0.03	23	2360	22	15	<20	40	0.17	<10	168	10	4	45
36	14386	135	<0.2	1.78	5	60	<5	4.30	<1	65	47	1209	8.44	<10	1.75	943	38	0.04	15	2430	28	<5	<20	75	0.14	<10	157	<10	4	64
Repeat:																														
1	14351	110	<0.2	1.66	5	65	<5	2.80	<1	34	82	1198	7.07	<10	1.72	579	2	0.04	21	2250	18	10	<20	40	0.16	<10	164	<10	6	40
10	14360	110	<0.2	2.34	5	50	<5	2.14	<1	45	60	1914	9.87	<10	2.72	649	18	0.04	27	2520	36	5	<20	30	0.23	<10	194	<10	<1	68
19	14369	45	<0.2	1.75	10	60	<5	5.14	<1	61	42	692	7.03	<10	1.95	988	16	0.03	13	2320	22	10	<20	101	0.08	<10	125	10	11	60
36	14386	80	<0.2	1.80	10	65	<5	4.31	<1	70	53	1274	8.63	<10	1.76	956	39	0.04	17	2450	30	10	<20	72	0.15	<10	157	10	3	65
Standard:																														
GEO'99		125	1.0	1.92	75	170	15	1.82	<1	22	67	82	4.13	<10	1.05	730	<1	0.03	24	740	24	5	<20	59	0.11	<10	86	20	9	74
GEO'99		130	0.8	1.90	75	190	10	1.98	<1	23	78	84	4.14	<10	1.12	720	<1	0.03	24	740	24	10	<20	65	0.13	<10	93	<10	8	74

df/496
XLS/99
cc: ron wells fax @ 372-1012

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

8-Oct-99

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 99-541

CHRISTOPHER JAMES GOLD CORP.
C/O RON WELLS
910 HEATHERTON CRT.
KAMLOOPS, BC, V1S 1P9

ATTENTION: RON WELLS

No. of samples received: 68
Sample type: Core
PROJECT #: NB2-02
SHIPMENT #: 2
Samples submitted by: R. Wells

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	14401	175	0.4	1.21	<5	30	<5	1.83	<1	32	35	1485	5.38	<10	1.30	679	17	0.03	8	1450	<2	<5	<20	34	0.06	<10	87	<10	<1	40
2	14402	520	0.8	1.21	<5	35	<5	1.85	<1	26	38	2272	5.51	<10	1.35	678	12	0.03	12	1430	<2	10	<20	33	0.08	<10	109	<10	<1	39
3	14403	145	<0.2	0.96	<5	30	<5	1.56	<1	21	39	1123	3.68	<10	0.87	427	11	0.03	7	1420	<2	5	<20	30	0.05	<10	86	<10	<1	28
4	14404	150	<0.2	1.13	<5	30	<5	1.50	<1	20	190	1507	5.21	<10	1.04	513	27	0.03	11	1510	<2	<5	<20	23	0.05	<10	109	<10	<1	34
5	14405	150	0.4	1.32	<5	35	<5	2.17	<1	24	39	1560	5.52	<10	1.34	724	17	0.03	6	1480	<2	<5	<20	35	0.06	<10	103	<10	<1	41
6	14406	115	0.4	1.33	<5	35	<5	2.11	<1	25	24	1676	5.73	<10	1.31	718	10	0.03	7	1530	<2	<5	<20	33	0.06	<10	114	<10	<1	40
7	14407	65	0.2	1.50	10	40	<5	3.76	<1	30	35	1397	5.54	<10	1.44	807	17	0.02	6	1470	<2	5	<20	117	0.03	<10	107	<10	2	38
8	14408	85	0.2	1.06	<5	30	<5	1.91	<1	25	33	1469	5.10	<10	0.99	540	13	0.03	8	1570	<2	<5	<20	32	0.05	<10	108	<10	<1	31
9	14409	120	0.6	1.18	5	40	<5	3.54	<1	34	32	1822	5.69	<10	1.08	809	21	0.03	7	1490	<2	<5	<20	93	0.03	<10	92	<10	<1	37
10	14410	295	0.6	1.12	<5	30	<5	2.45	<1	28	22	2475	5.36	<10	1.09	672	15	0.03	6	1400	2	<5	<20	39	0.05	<10	112	<10	<1	38
11	14411	155	<0.2	1.02	<5	30	<5	1.91	<1	15	25	999	4.91	<10	0.96	544	8	0.03	7	1460	<2	<5	<20	31	0.05	<10	124	<10	<1	32
12	14412	90	<0.2	0.85	5	25	<5	3.22	<1	7	24	330	2.16	<10	0.84	678	12	0.02	3	1180	<2	10	<20	37	0.05	<10	75	<10	12	29
13	14413	170	<0.2	1.14	<5	40	<5	2.38	<1	24	40	1284	4.91	<10	1.11	650	19	0.03	7	1540	2	<5	<20	39	0.06	<10	117	<10	<1	35
14	14414	265	<0.2	1.15	5	35	<5	2.25	<1	27	25	1578	5.30	<10	1.23	646	21	0.03	6	1450	2	<5	<20	35	0.06	<10	107	<10	<1	39
15	14415	190	<0.2	1.35	<5	40	<5	3.27	<1	25	25	1207	5.98	<10	1.41	795	12	0.02	6	1480	2	<5	<20	54	0.05	<10	119	<10	<1	37
16	14416	390	0.4	1.45	10	40	<5	3.34	<1	63	21	2277	6.68	<10	1.51	808	18	0.02	6	1400	<2	<5	<20	67	0.04	<10	118	<10	<1	43
17	14417	640	<0.2	1.30	<5	40	<5	4.13	<1	24	32	1155	5.28	<10	1.41	860	74	0.02	6	1520	<2	10	<20	94	0.03	<10	109	<10	2	36
18	14418	675	0.4	1.39	5	50	<5	7.11	<1	17	18	1809	4.36	<10	1.24	1101	23	0.02	5	1460	4	5	<20	181	0.01	<10	73	<10	16	36
19	14419	>1000	<0.2	1.19	<5	50	<5	2.35	<1	11	41	489	4.40	<10	1.13	561	14	0.03	7	1690	4	<5	<20	44	0.05	<10	119	<10	<1	32
20	14420	530	<0.2	0.85	<5	60	<5	5.91	<1	10	21	473	3.47	<10	1.04	962	89	0.01	4	1260	4	10	<20	147	<0.01	<10	26	<10	26	20

CHRISTOPHER JAMES GOLD CORP. ICP CERTIFICATE OF ANALYSIS AK 99-541 ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
21	14421	325	0.2	1.09	<5	75	<5	4.73	<1	10	31	1279	4.68	<10	1.16	923	18	0.03	8	1350	4	10	<20	171	0.01	<10	103	<10	10	38
22	14422	255	<0.2	1.34	<5	45	<5	3.46	<1	25	22	1316	6.24	<10	1.38	843	26	0.03	7	1530	2	<5	<20	69	0.05	<10	126	<10	<1	41
23	14423	405	0.2	1.11	<5	35	<5	2.35	<1	24	35	1164	5.69	<10	1.11	661	19	0.03	7	1500	4	<5	<20	37	0.05	<10	105	<10	<1	35
24	14424	405	<0.2	1.32	<5	40	<5	1.84	<1	18	32	1174	6.77	<10	1.36	606	14	0.03	8	1690	4	<5	<20	29	0.07	<10	138	<10	<1	40
25	14425	510	<0.2	1.18	<5	40	<5	2.45	<1	12	36	1288	5.27	<10	1.21	612	14	0.03	7	1530	4	<5	<20	35	0.06	<10	123	<10	<1	36
26	14426	300	<0.2	1.32	<5	45	<5	1.79	<1	20	34	746	6.52	<10	1.30	500	8	0.03	9	1600	4	10	<20	29	0.08	<10	153	<10	<1	35
27	14427	675	<0.2	1.22	<5	50	<5	1.86	<1	26	32	1863	6.00	<10	1.31	587	24	0.03	9	1580	6	<5	<20	36	0.06	<10	112	<10	<1	41
28	14428	>1000	0.8	1.07	<5	40	<5	2.16	<1	24	67	3165	5.57	<10	1.10	550	70	0.03	8	1430	4	<5	<20	45	0.05	<10	90	<10	<1	41
29	14429	555	0.6	1.05	<5	45	<5	1.59	<1	19	34	1918	5.69	<10	1.04	462	10	0.03	7	1650	4	<5	<20	31	0.05	<10	111	<10	<1	38
30	14430	>1000	1.8	1.03	<5	40	<5	1.73	<1	26	26	5561	6.15	<10	1.03	534	9	0.03	10	1730	2	10	<20	32	0.05	<10	104	<10	<1	45
31	14431	>1000	3.4	0.43	<5	30	<5	4.31	2	22	21	3912	5.04	<10	0.93	791	13	0.02	7	1370	2	5	<20	164	<0.01	<10	34	<10	2	38
32	14432	265	1.8	0.37	<5	50	<5	5.41	1	16	46	2005	5.13	<10	1.28	990	14	0.02	6	1380	4	5	<20	198	<0.01	<10	40	<10	8	34
33	14433	95	0.4	0.22	15	55	<5	2.89	<1	8	33	308	2.26	<10	0.55	487	9	0.02	2	1060	8	10	<20	134	<0.01	<10	8	<10	12	19
34	14434	30	<0.2	0.30	<5	100	<5	2.81	<1	7	20	149	2.37	<10	0.62	515	6	0.03	<1	980	4	<5	<20	102	<0.01	<10	23	<10	14	20
35	14435	900	2.6	0.56	<5	45	<5	4.30	2	26	20	3619	5.35	<10	1.14	832	9	0.02	9	1470	4	5	<20	156	0.01	<10	52	<10	2	77
36	14436	765	3.8	0.82	<5	50	<5	3.97	2	32	18	7750	9.30	<10	1.27	872	35	0.02	11	2090	8	<5	<20	141	0.02	<10	91	<10	<1	73
37	14437	465	4.0	0.35	5	30	<5	3.99	4	84	15	4336	7.28	<10	1.07	899	21	0.02	8	1460	28	<5	<20	123	<0.01	<10	35	<10	<1	64
38	14438	395	1.6	0.33	35	30	<5	5.04	2	43	50	3415	4.77	<10	1.16	960	13	0.01	6	1520	18	5	<20	232	<0.01	<10	19	<10	3	59
39	14439	385	<0.2	1.32	10	55	<5	4.48	<1	39	24	1350	6.41	<10	1.46	1009	12	0.03	10	1640	8	10	<20	160	0.04	<10	120	<10	<1	56
40	14440	300	<0.2	1.07	5	40	<5	2.74	<1	26	57	2028	5.61	<10	1.07	692	9	0.03	8	1890	10	<5	<20	51	0.05	<10	124	<10	<1	50
41	14441	230	0.4	1.18	5	75	<5	4.46	<1	18	18	2020	4.94	<10	1.17	836	14	0.03	7	1610	10	10	<20	142	0.03	<10	93	<10	8	46
42	14442	165	<0.2	1.03	5	40	<5	2.24	<1	15	148	1173	4.33	<10	0.98	589	17	0.03	9	1560	10	<5	<20	52	0.05	<10	83	<10	<1	40
43	14443	135	<0.2	1.17	<5	50	<5	1.57	<1	18	30	1258	6.07	<10	1.03	498	10	0.04	7	1820	10	<5	<20	44	0.06	<10	139	<10	<1	45
44	14444	90	<0.2	1.24	<5	40	<5	1.45	<1	18	57	1020	6.14	<10	1.16	520	10	0.03	9	1860	12	<5	<20	40	0.06	<10	134	<10	<1	48
45	14445	65	<0.2	1.06	10	55	<5	4.08	<1	21	22	1178	6.34	<10	1.48	934	16	0.03	9	1710	6	<5	<20	144	0.02	<10	117	<10	3	48
46	14446	70	0.2	1.09	15	45	<5	7.20	3	26	26	1286	5.98	<10	1.56	1157	42	0.02	9	1430	48	15	<20	227	<0.01	<10	49	<10	20	54
47	14447	135	0.6	1.48	<5	60	<5	5.00	<1	17	38	1725	5.60	<10	1.49	956	11	0.03	11	1630	10	10	<20	154	0.02	<10	118	<10	8	51
48	14448	175	0.6	0.90	<5	60	<5	6.05	<1	19	16	798	4.95	<10	1.42	1121	17	0.02	9	1670	8	15	<20	253	<0.01	<10	55	<10	17	46
49	14449	65	<0.2	1.39	<5	40	<5	2.93	<1	31	32	944	6.30	<10	1.40	837	10	0.03	8	1750	10	10	<20	60	0.04	<10	128	<10	<1	52
50	14450	10	<0.2	1.07	<5	55	<5	3.65	<1	16	69	216	5.04	<10	1.20	708	11	0.02	3	1960	10	<5	<20	75	0.04	<10	121	<10	<1	40
51	14451	95	<0.2	1.33	10	45	<5	4.64	<1	39	36	1060	6.25	<10	1.47	963	29	0.03	9	1700	6	5	<20	141	0.03	<10	126	<10	<1	46
52	14452	230	<0.2	1.64	10	85	<5	4.58	<1	29	45	1031	6.05	<10	1.91	1078	14	0.03	16	1880	10	10	<20	194	0.05	<10	166	<10	2	63
53	14453	55	0.4	0.39	15	40	<5	5.31	<1	22	24	824	3.13	<10	0.83	925	50	0.01	5	1270	4	10	<20	192	<0.01	<10	10	<10	16	19
54	14454	45	<0.2	1.54	15	45	<5	6.14	<1	26	20	820	5.17	<10	1.41	1123	18	0.02	7	1670	10	<5	<20	212	<0.01	<10	87	<10	11	65
55	14455	45	<0.2	1.49	10	35	<5	2.95	<1	32	45	918	6.18	<10	1.47	898	11	0.03	10	1910	12	<5	<20	62	0.06	<10	130	<10	<1	58

CHRISTOPHER JAMES GOLD CORP. ICP CERTIFICATE OF ANALYSIS AK 99-541 ECO-TECH LABORATORIES LTD.

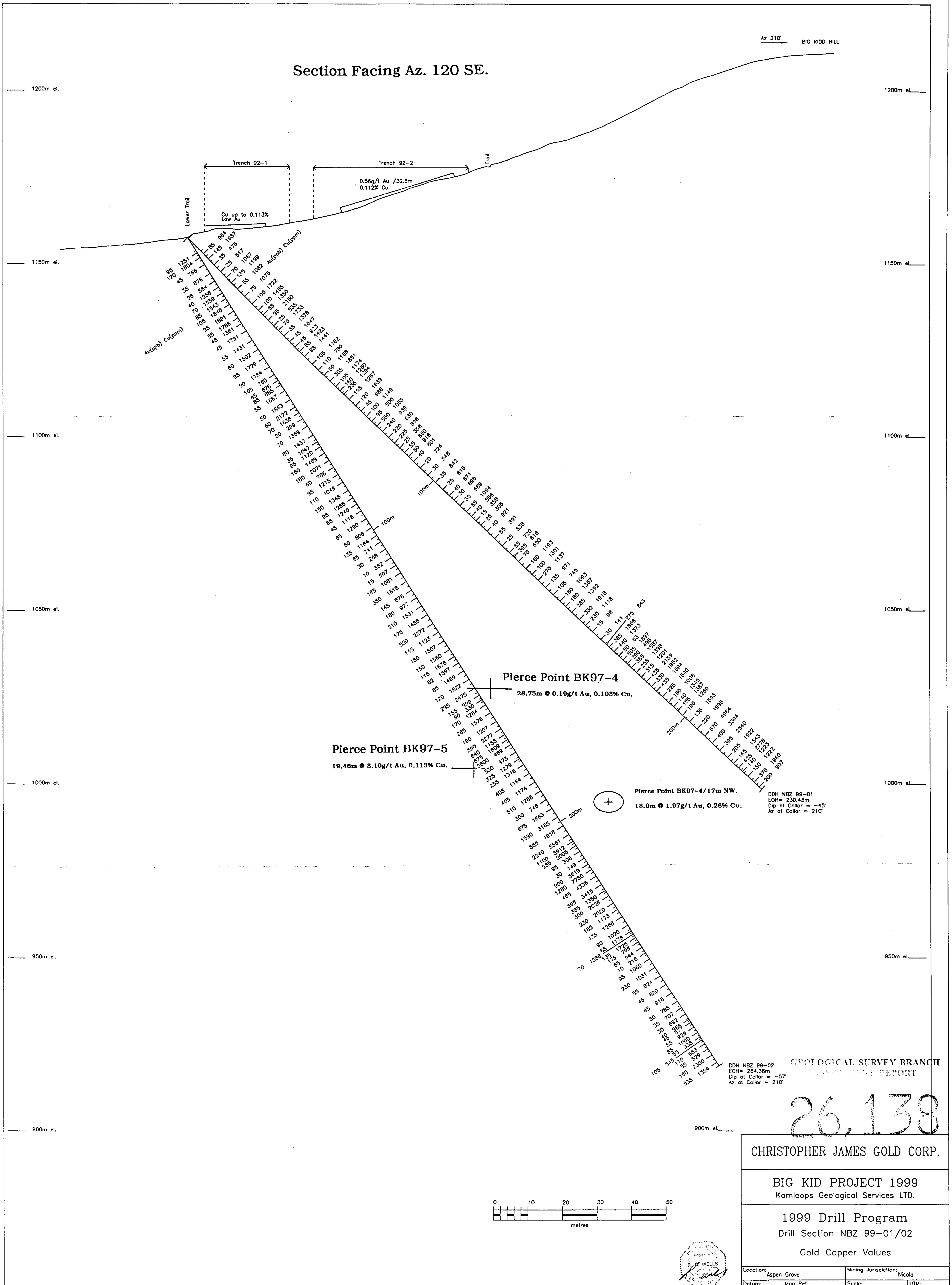
Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
56	14456	30	<0.2	1.34	5	35	<5	2.58	<1	20	23	785	5.25	<10	1.31	814	9	0.03	6	1780	10	10	<20	54	0.06	<10	121	<10	<1	57
57	14457	35	<0.2	1.40	<5	60	<5	3.92	<1	28	32	707	6.19	<10	1.49	993	9	0.03	8	1960	10	<5	<20	97	0.05	<10	155	<10	5	70
58	14458	30	0.2	0.59	10	45	<5	5.14	<1	37	40	692	5.13	<10	1.47	1091	18	0.02	8	1640	50	35	<20	173	<0.01	<10	53	<10	9	50
59	14459	40	<0.2	0.82	<5	40	<5	3.90	<1	57	35	966	5.62	<10	1.32	1007	14	0.03	7	1790	8	10	<20	106	0.02	<10	107	<10	6	58
60	14460	45	<0.2	1.05	5	25	<5	4.26	<1	44	14	577	3.32	<10	1.40	917	8	0.03	2	1090	2	10	<20	56	<0.01	<10	39	<10	6	44
61	14461	55	<0.2	0.67	<5	40	<5	4.58	<1	29	27	929	2.76	<10	1.10	736	7	0.02	3	1210	6	15	<20	90	<0.01	<10	32	<10	20	38
62	14462	85	<0.2	0.70	<5	35	<5	4.21	<1	24	19	1000	3.03	<10	1.00	663	13	0.02	5	1290	4	10	<20	78	0.01	<10	48	<10	15	34
63	14463	55	<0.2	1.40	<5	45	<5	2.83	<1	14	40	335	5.02	<10	1.26	816	8	0.04	6	1650	10	10	<20	58	0.06	<10	142	<10	8	47
64	14464	105	<0.2	0.75	<5	60	<5	4.13	<1	32	14	545	4.87	<10	1.25	931	7	0.03	4	1510	4	20	<20	106	0.02	<10	89	<10	8	41
65	14465	110.	0.2	0.41	10	40	<5	5.71	<1	41	19	653	5.29	<10	1.47	1052	12	0.02	7	1860	6.	10	<20	232	<0.01	<10	52	<10	9	58
66	14466	55	0.2	0.25	20	45	<5	4.46	<1	37	14	529	3.66	<10	1.16	726	30	0.02	4	1450	8	20	<20	229	<0.01	<10	22	<10	7	43
67	14467	160	0.6	0.36	200	35	<5	3.62	<1	20	26	2300	3.76	<10	1.02	642	25	0.02	4	1240	8	35	<20	140	<0.01	<10	17	<10	5	109
68	14468	535	0.2	0.23	15	30	<5	3.51	<1	52	36	1354	4.22	<10	0.99	539	45	0.02	4	1330	6	20	<20	182	<0.01	<10	15	<10	5	37
QC DATA:																														
Resplit:																														
1	14401	190	<0.2	1.23	5	30	<5	1.91	<1	38	32	1461	5.69	<10	1.29	692	17	0.03	9	1670	8	5	<20	35	0.06	<10	87	<10	<1	44
36	14436	>1000	4.6	0.81	<5	40	<5	4.06	<1	35	19	7481	9.44	<10	1.23	865	34	0.02	10	2160	14	<5	<20	134	0.01	<10	90	<10	<1	72
Repeat:																														
1	14401	200	0.2	1.29	10	30	<5	1.92	<1	34	32	1546	5.64	<10	1.38	713	18	0.03	8	1510	<2	10	<20	36	0.07	<10	94	<10	<1	42
10	14410	390	0.6	1.15	<5	40	<5	2.52	<1	28	22	2457	5.50	<10	1.11	690	14	0.03	6	1490	6	<5	<20	47	0.05	<10	113	<10	<1	40
19	14419	>1000	<0.2	1.21	<5	55	<5	2.39	<1	12	47	486	4.52	<10	1.15	570	14	0.03	7	1730	8	5	<20	45	0.05	<10	122	<10	<1	33
36	14436	>1000	5.8	0.86	<5	40	<5	4.28	<1	33	19	7444	9.68	<10	1.32	901	33	0.02	11	2250	12	<5	<20	143	0.01	<10	96	<10	<1	77
45	14445	65	<0.2	1.09	<5	50	<5	4.14	<1	21	23	1169	6.50	<10	1.49	947	16	0.03	8	1790	10	5	<20	142	0.02,	<10	121	<10	2	50
54	14454	40	<0.2	1.53	10	50	<5	6.06	<1	26	20	824	5.06	<10	1.41	1109	19	0.02	8	1660	8	10	<20	214	0.01	<10	86	<10	14	64
Standard:																														
GEO'99		130	1.0	1.75	60	160	<5	1.85	<1	20	58	92	3.84	<10	0.90	670	<1	0.02	24	720	24	5	<20	55	0.08	<10	72	<10	8	68
GEO'99		130	1.0	1.80	70	160	<5	1.86	<1	20	54	82	3.88	<10	0.92	675	<1	0.02	23	750	22	<5	<20	55	0.08	<10	76	<10	9	70

per ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

df/541
XLS/99
cc: ron wells fax @ 372-1012

APPENDIX C

Drill Sections Figure 9 and 10
NBZ 99-01 and 02

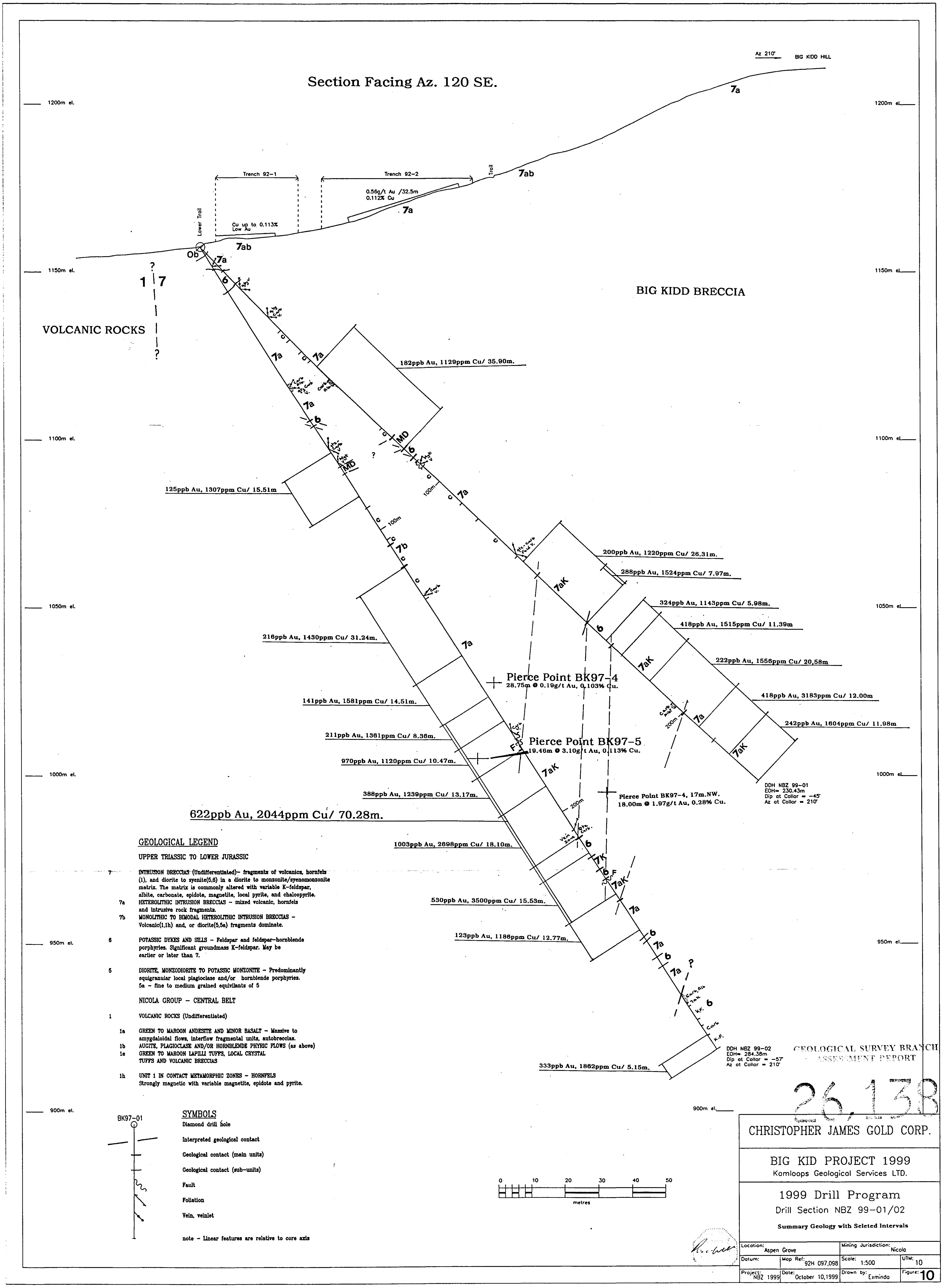


CHRISTOPHER JAMES GOLD CORP.

BIG KID PROJECT 1999
Kamloops Geological Services LTD.

1999 Drill Program
Drill Section NBZ 99-01/02
Gold Copper Values

Location: Aspen Grove		Mining Jurisdiction: Nicola	
Datum:	Map Ref: 92H 097,098	Scale: 1:500	UTM: 10
Project: NBZ 1999	Date: October 10,1999	Drawn by: Exmindo	Figure: 9



Az 210°
BIG KIDD HILL
Section Facing Az. 120 SE.
1200m el.
1150m el.
1100m el.
1050m el.
1000m el.
950m el.
900m el.
Trench 92-1
Trench 92-2
0.56g/t Au /32.5m
0.112% Cu
Cu up to 0.113%
Low Au
Lower Trail
Trail
7a
7ab
Ob
1
7
VOLCANIC ROCKS
BIG KIDD BRECCIA
182ppb Au, 1129ppm Cu/ 35.90m.
125ppb Au, 1307ppm Cu/ 15.51m
200ppb Au, 1220ppb Cu/ 26.31m.
288ppb Au, 1524ppb Cu/ 7.97m.
324ppb Au, 1143ppm Cu/ 5.98m.
418ppb Au, 1515ppm Cu/ 11.39m
222ppb Au, 1556ppm Cu/ 20.58m
418ppb Au, 3183ppm Cu/ 12.00m
242ppb Au, 1604ppm Cu/ 11.98m
216ppb Au, 1430ppm Cu/ 31.24m.
141ppb Au, 1581ppm Cu/ 14.51m.
211ppb Au, 1361ppm Cu/ 8.36m.
970ppb Au, 1120ppm Cu/ 10.47m.
388ppb Au, 1239ppm Cu/ 13.17m.
622ppb Au, 2044ppm Cu/ 70.28m.
1003ppb Au, 2698ppm Cu/ 18.10m.
530ppb Au, 3500ppm Cu/ 15.53m.
123ppb Au, 1186ppm Cu/ 12.77m.
333ppb Au, 1862ppm Cu/ 5.15m.
Pierce Point BK97-4
28.75m @ 0.19g/t Au, 0.103% Cu.
Pierce Point BK97-5
19.46m @ 3.10g/t Au, 0.113% Cu.
Pierce Point BK97-4, 17m.NW.
18.00m @ 1.97g/t Au, 0.28% Cu.
DDH NBZ 99-01
EOH= 230.43m
Dip at Collar = -45°
Az at Collar = 210°
DDH NBZ 99-02
EOH= 284.38m
Dip at Collar = -57°
Az at Collar = 210°
MD
6
7b
7aK
7K
100m
200m
GEOLOGICAL LEGEND
UPPER TRIASSIC TO LOWER JURASSIC
7 INTRUSION BRECCIAS (Undifferentiated)- fragments of volcanics, hornfels (1), and diorite to syenite(5,6) in a diorite to monzonite/syenomonzonite matrix. The matrix is commonly altered with variable K-feldspar, albite, carbonate, epidote, magnetite, local pyrite, and chalcopyrite.
7a HETEROLITHIC INTRUSION BRECCIAS - mixed volcanic, hornfels and intrusive rock fragments.
7b MONOLITHIC TO BIMODAL HETEROLITHIC INTRUSION BRECCIAS - Volcanic(1,1h) and, or diorite(5,5a) fragments dominate.
6 POTASSIC DYKES AND SILLS - Feldspar and feldspar-hornblende porphyries. Significant groundmass K-feldspar. May be earlier or later than 7.
5 DIORITE, MONZODIORITE TO POTASSIC MONZONITE - Predominantly equigranular local plagioclase and/or hornblende porphyries. 5a - fine to medium grained equivilants of 5
NICOLA GROUP - CENTRAL BELT
1 VOLCANIC ROCKS (Undifferentiated)
1a GREEN TO MAROON ANDESITE AND MINOR BASALT - Massive to amygdaloidal flows, interflow fragmental units, autobreccias.
1b AUGITE, PLAGIOCLASE AND/OR HORNBLENDE PHYRIC FLOWS (as above)
1e GREEN TO MAROON LAPILLI TUFFS, LOCAL CRYSTAL TUFFS AND VOLCANIC BRECCIAS
1h UNIT 1 IN CONTACT METAMORPHIC ZONES - HORNFELS Strongly magnetic with variable magnetite, epidote and pyrite.
SYMBOLS
BK97-01
Diamond drill hole
Interpreted geological contact
Geological contact (main units)
Geological contact (sub-units)
Fault
Foliation
Vein, veinlet
note - Linear features are relative to core axis
0 10 20 30 40 50
metres
GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT
26,138
CHRISTOPHER JAMES GOLD CORP.
BIG KID PROJECT 1999
Kamloops Geological Services LTD.
1999 Drill Program
Drill Section NBZ 99-01/02
Summary Geology with Selected Intervals
Location: Aspen Grove
Mining Jurisdiction: Nicola
Datum:
Map Ref: 92H 097,098
Scale: 1:500
UTM: 10
Project: NBZ 1999
Date: October 10,1999
Drawn by: Exminda
Figure: 10

PHASE 2 DIAMOND DRILLING 1999

APPENDIX D

Diamond Drill Logs and Relevant Analytical Data

KAMLOOPS GEOLOGICAL SERVICES LTD		SUMMARY DRILL LOG: NBZ99-03	
PROPERTY	:BIG KIDD	OWNER	:CHRISTOPHER JAMES GOLD CORP.
NTS	:92H/15E	MINING DIVISION	:NICOLA MD, BC
CLAIM	:HALO 100	LINE/STATION	:11624N : 23537E
GRID	:BIG KIDD-BIG SIOUX	INCLINATION AT COLLAR	: -67
CASING	:3.66M	AZIMUTH	: 210^0 SSW
LENGTH	:294.74M	ACID TESTS	: @ 93.88M -65; @183.00M -67; @ 290.00M -67
LOGGED BY	:Ronald Wells P.Geo., FGAC	DRILLED BY	: CORE ENTERPRISES LTD
DATE	:3 to 23/10/99	DATES	: 23/9/99 To 2/10/99
CORE LOCATION:	AMEX, KAMLOOPS	CORE SIZE	: NQ

PURPOSE OF THE HOLE: This hole was drilled from the northeastern edge of the Big Kidd breccia pipe inward. It was the steepest of the three holes drilled below Placer Dome trench 92-2 which averaged 0.56 g/t gold and 0.112% copper over 32.5 metres in altered intrusion breccia. The other holes drilled from this set-up were NBZ99-01 and 02. These holes also tested an area which at 160 to 200 vertical depth had produced 1-3 g/t gold intersections in 1997 holes BK97-04, BK97-05 and 1992 Hole 1.

DDH.NBZ99-03 Page No. 1

LITHOLOGY – MAIN UNITS	LITHOLOGY – SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
0-3.66 CASING	Talus and sandy overburden											
3.66-6.12 Heterolithic Intrusion Breccia. mod. magnetic	Very rubbly recovery in Intrusion Bx. 4.40-6.12 Fairly crowded, fine-med clasts matrix supported. Subangular meta-volcanic, diorite, monzonite clasts	Generally weak patchy pervasive carbonate. Local small epidote clots, patchy K. feldspar, local dark chlorite		Low to moderate density [illegible] Carb. and [illegible]-carb veinlets	Predominantly fine local med. dissem patches, local veinlet Py. Patchy [illegible]	2-4	Tr	14501	4.40	6.12	1923	120
6.12-16.20 Plagioclase - Hornblende Porphyry Dyke. Potassic Monzonite. weak to moderate magnetic. Local small Chloritized mafic xenoliths. These can be strongly magnetic	6.12-8.53 Fairly crowded plagioclase porphyry. 1-3% tabular Hbl to 10mm. Fine equigranular at top. Local 1-2cm xenoliths	weak pervasive carbonate, fine primary ? K. feldspar in groundmass weak groundmass chlorite alteration local med. grained dissem. magnetite		30°CA contact. Mod. density fine carb and Py veinlets 30-90° CA. Local 65°CA qtz veins [illegible]	Mainly v.fine to fine veinlet pyrite. Local fine disseminated.	1-3	–	14502	6.12	8.53	605	50
	8.53-12.93 As general description Light pinkish K. feldspar groundmass Fairly crowded plagioclase phenos >>Hbl. Xenoliths upto 15cm some with coarse magnetite. Most are chlorite	weak - moderate pervasive groundmass carbonate (K. feldsp) xenoliths are chloritized as are some hornblende phenocrysts.		General low density 30°-80°CA. carbonate ± epidote, fine veinlets. Some larger qtz-carb veins to 5mm [illegible]	As above fine veinlet and disseminated Py Local coarse magnetite with xenoliths	1-3	–	14503	8.53	10.93	632	40
								14504	10.93	12.93	1242	55
	12.93-16.20 Mixed grey to pink plagioclase > Hornblende porphyry. K. feld stronger 14.0-16.0m. Below crowded plagioclase porphyry some flow alignment. Few xenoliths	As above, Generally patchy. local moderate magnetic		Low density of fine carbonate veinlets 30°-80°CA. finer ep-carb. Flow alignment 50-55°CA [illegible]	Fine dissem. and veinlet Py. Local f/m-grained Py in dioritic xenoliths	1-3	–	14505	12.93	16.20	613	30
16.20-56.98 Heterolithic Intrusion Breccia. Variably magnetic.	16.20-30.02 Fine to medium size clast. Altered green fine grained mafic metavolcanic clasts predominate. 5-8% pink K. feldspar monzonite and plagioclase porphyry clasts. Matrix supported fine to medium grained dioritic to altered. Many smaller clasts are subangular. Larger >10cm monzonite clasts are subrounded.	Patchy pervasive generally weak local moderate matrix carbonate and some clasts. 5-7% epidote patches in matrix. K. feldspar is patchy in matrix - some is monzonite clasts other is alteration. bleached carb wallrocks to vein pink hematite, remnant magnetite [illegible] in vein of dk green chlorite		General low density of fine carbonate and local f/m grained Py veins and veinlets 40-70°CA minor epidote veinlets. @25.66m, 3cm banded carbonate-cherty quartz vein 60°CA.	significant amounts of wallrock fine Py local med/coarse cpy and magnetite.	4-7	Tr	14506	16.20	19.20	1539	80
						4-6	Tr	14507	19.20	22.20	1425	85
						4-7	Tr	14508	22.20	25.20	1698	105
						3-6	Tr-1	14509	25.20	26.70	931	60
						3-4	Tr	14510	26.70	28.20	1546	95
						2-4	Tr	14511	28.20	30.02	2069	130

DDH.NBZ99-03

LITHOLOGY – MAIN UNITS	LITHOLOGY – SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION
	30.02-40.70 Fairly distinct section of mixed fine-med size clast heterolithic breccia. More matrix (diorite) supported with 10-15% pink monzonite clasts. Rest are predominantly green mafic metavolcanic and grey monzonite-diorite. Subangular to local subrounded clasts. Matrix is fine-med. grained altered. weak to local mod. magnetic	Variable - patchy weak to moderate pervasive carbonate 5-10% green epidote clots disseminated in matrix and at clast contacts throughout. Local weak-moderate matrix K. feldspar distinct from clasts. Local M/c magnetite with epidote Some patchy light coloured matrix areas, may be albitic		weak - mod density of v-fine carbonate ± epidote veinlets at variable angles to CA. Local high angle CA. Py veinlets. minor magnetite. Some larger upto 7mm. high angle CA carb veins esp 40.0-40.70 and at 40.70 6cm 60°CA carb qtz vein	Patchy fine, med local coarse (with magnetite) pyrite in matrix. Some high angle Py veinlets. widespread <1% med/coarse grained matrix magnetite Trace fine Cpy noticeable along high angle fractures.
	40.70 - 46.06 Similar to above but includes some coarse mafic metavolcanic - hbl porphyry clasts >50cm. weak altered matrix to clast supported. 5-10% pink monzonite clasts (small) Mod magnetic	Moderate pervasive matrix carbonate. 5-8% epidote clots Locally merging into irregular pervasive patches. weak patchy K. feldspar near top ↑ to moderate downwards at lower contact.		Moderate increasing to high density of fine carbonate and epidote veinlets downhole some Py. variable angles CA local 55°CA carb veins	Fine to coarse Py often in patches and veinlets mainly matrix some clasts increases downwards Dissem M/c magnetite
	46.06-46.99 Strong alteration zone - dyke? potassic Plag-Hbl monzonite Bx/bleached	K. feldspar rich above, mod carb local epid. Bleached carb-alb, dk chl below		@46.19 70°CA 3cm banded qtz-carb-alb-Py vein	Veinlet f/m Py esp K-feld selvages. Dissem f/m Py below
	46.99-56.98 Predominantly fine clast local medium, matrix supported and heterolithic. Mainly green mafic metavolcanic clasts. 10-15% more rounded pink monzonite porphyry clasts. Strong altered fine-med grained matrix, variable weak - mod. magnetic	weak - moderate pervasive matrix carbonate. weak to non carbonated clasts however many have veinlets Variable matrix epidote clots Local finer grained pervasive zones, veinlets common. Approx 10% of clasts have K. feldspar alt. rims. Patchy weak - mod. matrix K. feldspar esp. near top & bottom. Local matrix bleaching alb?		Moderate density of 40-90°CA fine epidote ± carb. veinlets. Pervasive bands tend to be 60-90°CA. Local fine Py veinlets 50-70°CA.	Fine to med. grained Py as dissem grains commonly clusters in matrix, some monzonite clasts. Local fine Py veinlets. Patchy M/c dissem. magnetite in K. feld. and in some epidote matrix areas
56.98-57.80 Mafic Dyke Margin	Med. green, pyritic country rock to dyke	Strong pervasive Chl, carb remnant magnt.		Contacts - foliation 30-35°CA 10-20° Py v.	cm. scale patches and veins of f/m grained Py
57.80-64.00 Pink Potassic Monzonite Dyke. K-feldspar rich and altered. Equigranular to crowded plagioclase Porphyry	57.80-62.10 Fine pink K. feldspar rich groundmass, fine tabular hornblende (chloritized), plagioclase (dominant) phenocrysts often crowded. Mod. magnetic. Small <5cm mafic subrounded to angular xenoliths	Much of pink K. feldspar could be alteration as well as primary cm. scale fine grained epidote selvages to high angle epid - dk. chlorite veinlets. Local wk carb.		Local flow alignment 50-60°CA Also moderate density of 50-60°CA carb. and epid-dk chlorite veinlets Local swarms	Minor v/fine dissem. Py. Local f/m grained 40-80°CA Py veinlets upto 5mm width.

%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
2-4	Tr	14512	30.02	33.02	1403	85
2-4	Tr	14513	33.02	36.02	1619	115
2-4	Tr	14514	36.02	39.02	1452	120
3-6	Tr	14515	39.02	40.70	1785	105
4-7	Tr	14516	40.70	43.70	1741	60
4-7	Tr-1	14517	43.70	46.06	2432	120
3-5	Tr	14518	46.06	46.99	1061	95
4-7	Tr	14519	46.99	49.00	942	50
3-5	Tr	14520	49.00	52.00	1232	300
4-6	Tr	14521	52.00	55.00	1191	75
4-6	Tr	14522	55.00	56.98	945	145
5-7	–	14523	56.98	57.80	1733	135
Tr-2	Tr	14524	57.80	60.00	343	35

DDH.NBZ99-03

LITHOLOGY – MAIN UNITS	LITHOLOGY – SUB UNITS	ALTERATION	STRUCTURE	MINERALIZATION
	See Pg.2		lower sharp contact 30°CA	
	62.10-64.00 Mixed zone of K. feldspar rich monzonite dykes up to 0.35m wide and pyritic intrusion Bx with magnetite	Pink K. feldspar monzonite as above with local xenoliths. Some K feldspar is clearly alteration. Matrix has Chl. Ep. K.feld	Subparallel dykes 30°CA. Numerous fine veinlets 30-60° CA	Strong Py in breccia patchy f/m/c grained dissem. Local veinlets in mag.
64.00-75.59 Potassic Altered Intrusion Breccia. Many clasts have K. feldspar altered rims. Variably magnetic	Fine to coarse clast breccia Some clasts >50cm. Altered monzonite and green mafic metavolcanic clasts dominate Matrix supported. Matrix is strongly altered often bleached fine to medium grained locally dioritic. Probable pink monzonite dyke @ 71.80-72.32m. Large pink-grey monzonite (plag) porphyry clast 73.94-74.90m.	K. feldspar rims to many clasts. Volcanic clasts are strongly magnetic. Patchy epidote commonly as vein selvages in monzonite clasts. Matrix to breccia is altered-bleached. Variable carbonate, albite? Numerous epidote clots Local M/c grained magnetite aggregates.	Moderate density of 55°-80° epidote ± carbonate veinlets. Some 90°CA carb-epidote banded veins	Patchy f/m grained matrix Py, fine Cpy. Local coarse Py-magnetite aggregates though rare. Sparse Py veinlets generally in larger clasts. Py aggregates to cm.scale in monzonite clasts.
75.59-81.69 Heterolithic Intrusion Breccia. Weaker K.feldspar moderate magnetic throughout	Mixed fine to med. clast breccia alteration obscures textures. Appears to be matrix to weak clast supported. Mixture of mafic MV. and smaller pink monzonite clasts. A few smaller clasts have K feldspar alt. rims. Alt. fin. matrix	Weak patchy pervasive matrix carbonate. K. feldspar occurs throughout though generally weak, moderate at top and bottom. Some clasts have K. feld. rims 5-7% epidote clots and veins	General low, local moderate density of 50-80°CA epidote ± carbonate veinlets Local 50-60°CA Py veinlets.	Fine to med. grained patchy dissem. Py throughout matrix areas. Local veinlets Minor fine Cpy. Local M/c magnetite with epidote and pyrite
81.69-100.27 Potassic Altered Intrusion Breccia. Variably magnetic	81.69-86.44 Similar to 64.00m with K. feldspar alteration mod. to locally strong. Fine-medium clast matrix supported breccia Roughly equal amounts of green mafic MV and monzonite clasts. dioritic matrix	Patchy weak pervasive carbonate. Patchy moderate matrix K.feldspar Matrix bleaching due to albite? Variable weak-mod magnetic 5-10% epidote clots and patches decreasing downwards.	Low, local moderate density of 40-70°CA fine epidote ± carb veinlets. Some dark chlorite	As above patchy f/m grained dissem Py in matrix. Local coarse Py-magnetite aggregates Local fine veinlets
	86.44-91.95 Mixed fine and coarse clast breccia some large >50cm clasts. Interstitial fine heterolithic matrix supported breccia.	A large number of smaller clasts have K. feldspar alt. rims Matrix has moderate pervasive carbonate. Far less epidote than above. 89.55-89.95 Strong Chl-carb alt associated with Qtz-carb V.	Low density of 40-70°CA carb veinlets. Vein zone has foliation 40°CA Some brecciated quartz.	Predominantly fine-med. grained dissem Py in matrix. Some low angle CA. Py veinlets and patches in upper part. ↑Py downwards.

%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
Tr-2	Tr	14525	60.00	62.10	305	15
2-5	Tr	14526	62.10	64.00	1292	90
2-4	Tr	14527	64.00	67.00	1025	35
3-6	Tr	14528	67.00	70.00	991	60
3-4	Tr	14529	70.00	73.00	1099	80
1-3	Tr	14530	73.00	75.59	980	35
3-5	Tr	14531	75.59	78.00	1841	60
2-3	Tr	14532	78.00	80.00	1470	100
3-5	Tr	14533	80.00	81.69	1917	180
4-5	Tr	14534	81.69	84.00	1842	160
3-5	Tr	14535	84.00	86.44	1920	65
1-3	Tr	14536	86.44	89.30	1822	195
2-4	Tr	14537	89.30	91.15	1380	85

NORTH BRECCIA ZONE. **DIAMOND DRILL LOG** BIG KIDD PROPERTY

DDH.NBZ99-03

LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA: Sample No.	From	To	Cu ppm	Au ppb	m
	See Pg. 3.												90
	91.15-96.37 Mixed fine-medium clast breccia. Few clasts >20cm. Similar to 81.69m. Matrix supported, subangular breccia 30-40% clasts have K.feld. rims Altered dioritic matrix	Numerous epidote clots. weak pervasive matrix carbonate ↑ downwards. K.feldspar rims to many clasts. Variable often weak magnetic. Local albitic patches up to several cm.		low density of fine 40-70°CA carbonate and, or epidote veinlets.	Patchy f/m dissem. Py. often as matrix patches. Some coarse matrix Py aggregates. Rare veinlets.	3-5	Tr	14538	91.15	93.70	1923	160	
						3-5	Tr	14539	93.70	96.37	1528	235	
	96.37-100.27 Strong alteration zones overprinting predominantly f/m clast bx some coarse below some albite?	96.37-97.48 bleached and strong carbonated 5-7% dark chlorite patches. Patchy weak K.feldspar		Low-med density of 30-70°CA carb veinlets	significant amounts of fine Py as matrix clusters	4-5	Tr	14540	96.37	97.48	1551	115	
		97.48-100.27 Moderate to strong patchy K.feldspar some of which is related to potassic monzonite clasts. Strong carb throughout rare Ep. Bleached alk [illegible]		Numerous hairline carb. veinlets variable angles to CA. More near lower contact.	Patchy f/m grained matrix Py. Some stringer like zones.	2-4	Tr	14541	97.48	100.27	1029	40	100
100.27-113.40 Heterolithic Intrusion Breccia. Variable often moderate to strong magnetic.	100.27-106.00 Weak heterolithic fine-med clast, matrix supported. Predominantly green subangular mafic MV clasts. <15% small pink monzonite clasts. Altered med. grained dioritic matrix	Matrix is weak carbonated with patchy epidote and local K.feldspar. Matrix K feldspar ↑ downward, generally weak. Patchy weak-mod. magnetic		Low density of 40-70°CA fine epidote and, or carbonate veinlets	Patchy fine-med dissem Py in matrix Local irregular veinlet Py zones in volcanic clasts.	3-4	Tr	14542	100.27	103.00	1117	140	
						3-4	Tr	14543	103.00	106.00	809	465	
	106.0-113.40 Mixed fine, med, coarse clast. Matrix to weak clast supported breccia. Some clasts >30cm. Mixture of f.g. green mafic MV. porphyritic monzonite and dioritic clasts. Matrix is variably altered. Mod to local strong magnetic.	Weak matrix carbonate. Epidote clots throughout matrix, local fine grained pervasive patches and selvages to veinlets. K.feld. is weak in matrix Local stronger patches. Disseminated dark chlorite in matrix. Local m/c magnetite		Low to moderate density of 30-70°CA carb and, or epidote veinlets. Local 2-5 cm. zones of intense veinlets ep, carb 40°CA also fine chl.	Fine to med grained patches of Py in matrix. Stronger in K.feld. altered areas. Local med/coarse dissem Magnetite in matrix	3-4	Tr	14544	106.00	109.00	1100	275	
						3-4	Tr	14545	109.00	112.00	1060	140	110
						2-3	Tr	14546	112.00	113.40	789	500	
113.40-117.70 Plagioclase-Hornblende Porphyry Dyke. Monzonitic composition	In upper part to 114.50m green fine grained with fine tabular phenocrysts. Below variably crowded Plag>> hornblende porphyry Mod. magnetic. Numerous subrounded mafic xenoliths	Strong pervasive carbonate with fine chlorite to 14.50m. Weak pervasive carbonate, primary? K.feldspar below. Some veinlet related epidote.		Irregular contact 40°CA several carb and one qtz vein to 1cm wide. High density of fine carb, qtz, chl veinlets. Some epid 30-50°CA weak K.f selv	In upper part some fine Py veinlets + carb. Lower part sparse fine disseminated Py	1-2	Tr	14547	113.40	115.00	309	80	
						Tr	—	14548	115.00	117.70	814	45	
117.70-160.93 Heterolithic Intrusion Breccia.	117.70-125.84 Predom. fine clast Some med. Matrix supported intrusion breccia. variably magnetic Variety of green mafic MV and monzonite clasts. MV clasts are subangular. Larger rounded monzonite	Fairly uniform throughout with variable weak matrix carbonate 3-4% matrix epidote clots. Local fine epidote alt. veinlet selvages weak K.feldspar.		Sparse epidote ± carb veinlets 60-70°CA mod. epid veinlet density 117.7-119.0 60-80°CA.	Fine, locally med grained disseminated matrix Py. Some small clusters. Minor fine Cpy.	3-4	Tr	14549	117.70	119.20	1442	45	
						3-5	Tr	14550	119.20	122.20	1727	40	120

NORTH BRECCIA ZONE. **DIAMOND DRILL LOG** **BIG KIDD PROPERTY**

DDH.NBZ99-03

LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb	m
	clasts. variably altered, med. grained dioritic matrix.	Some k. feldspar rims to clasts. Local small patches in matrix. slightly stronger k. feldspar for 1-2m close to dyke (hp)				3-5	Tr	14550	119.20	122.20	1727	40	120
						3-4	Tr	14551	122.20	124.00	1396	15	
					Some medium grained Py clusters in matrix to 3cm	3-5	Tr	14552	124.00	125.84	1211	40	
	125.84-130.94 As above more medium size clasts. More crowded weak matrix to clast supported, less matrix. Dioritic matrix - vague textures due to alteration. Patchy moderate magnetic	As above, epidote clots and some wider 2-3 cm wide patches and bands. Matrix k. feldspar is stronger than above. weak-moderate patchy		Low-moderate density of 10-30°CA and 50-70°CA epidote > carbonate veinlets. Some larger epid. veins	Fine to med. grained disseminated matrix Py commonly in small patches and aggregates	2-3	Tr	14553	125.84	128.20	783	20	
						3-5	Tr	14554	128.20	130.94	1262	30	130
	130.94-143.25 Fine to medium clast size, matrix supported. Large proportion of grey, some pink monzonite clasts. 10-20% green mafic metavolcanic clasts. Max. clast size 20cm. usually <10cm Med. grained altered dioritic matrix. Variable w/m. magnetic @137.60-140.25 Some 20-30cm monzonite clasts - tighter packing vague matrix textures.	weak to local moderate pervasive matrix carbonate some of which may be albitic alteration. K. feldspar is local and weak. 3-5% epidote clots in matrix generally <1cm.		Low, local mod. density of fine 60-70°CA epidote and or carbonate veinlets also some 10-30°CA carb veinlets. Local high angle Py veinlets to 2mm wide.	Fine to fine-med. grained dissem. Py local patches in matrix some f/m grained Py veinlets cut larger metavolc. clasts Local fine irregular Cpy grains with Py in matrix	3-4	Tr	14555	130.94	132.94	1436	30	
						3-4	Tr	14556	132.94	135.94	1450	30	
						3-4	Tr	14557	135.94	137.60	1460	35	
						2-3	Tr	14558	137.60	140.25	989	20	140
					Local 1-3 cm f/m grained Py patches in matrix + fine Cpy.	3-5	Tr	14559	140.25	143.25	1324	65	
	143.25-157.88 Predominantly fine clast local med. Matrix supported - matrix rich. Same clast lithologies as above. Clasts quite angular. Good medium grained dioritic matrix. Patchy alteration. Weak-med. magnetic local subrounded 10-25cm pink monzonite clasts.	weak to moderate patchy pervasive matrix carbonate, albitic in part? Patchy local matrix k. feldspar a little stronger than above. 5% sub-cm matrix epidote clots.		Low density of 50-80°CA fine carb and or epid. veinlets. Local weak irregular k. feldspar veining in monzonite clasts ↑ fine epidote veinlets downwards	Fine to med. grained disseminated matrix Py local fine Cpy. Local cm. scale patches of f/m grained Py in matrix, rare Py veinlets.	2-4	Tr	14560	143.25	145.25	1281	35	
						4-5	Tr	14561	145.25	148.25	1261	35	
						4-5	Tr	14562	148.25	151.25	1237	20	150

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LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION
	continued from Pg. 5.				
	157.88-160.93 Medium size clast breccia in upper part strongly overprinted, veined. Below fine clast breccia. Dioritic Mg matrix becoming vague with depth. Variable weak-strong magnetic	As above to 159.0m Some coarse magnetite - Py - K.feldspar - epidote patches. Below 159.0m pervasive med/strong pervasive and veinlet Ep. pervasive. Carbonate pink patchy K.feld		@159.90 CW. fracture zone 40°CA. 7cm wide. Above 159.0m carbonate veinlets 30-35°CA. Below high density stringer veinlet Epidote	Disseminated and local aggregates of coarse magnetite to 159.0m and dissem to clusters of film. Below 159m sparsely
160.93 - 193.20 Heterolithic Intrusion Breccia. More potassic altered with moderate patchy pervasive K.feldspar in matrix Moderate to strong magnetic	160.93-193.70 Predominantly fine local med. clast. Matrix supported. Mixed pink monzonite, mafic mu clasts many are subrounded. Vague matrix textures due to stronger alteration - vague dioritic.	Patchy moderate matrix K.feldspar. Epidote veinlet zones commonly have K.feld. rich selvages. V. weak to non-carbonated. Sparse smaller epidote clots (f.g.) Mod-strong magnetic.		weak-mod density of 60-70°CA epidote veinlets with cm scale ep-K.feld. selvages. Sparse carbonate veinlets	very fine disseminated Py. local small aggregates.
	173.70-185.66 As above predominantly fine local med. clast. Clear medium grained dioritic matrix (supported). Mixed monzonite - metavolcanic clasts. Sections with m/c grained magnetite more matrix Py. Subangular clasts some subrounded.	weak to non-carbonated. Patchy moderate matrix K.feldspar. Epidote is generally veinlet and selvage plus alteration of plagioclase.		low to moderate density of 40-70°CA epidote veinlets. Sections with coarse magnetite, Py + Cpy + K.feldspar veins to 1cm wide, variable angles CA.	Fine local medium grained disseminated matrix Py local fine Cpy. Local medium grained Py veinlets. Coarse Mgt + Py + Cpy veining @ 179.90-180.60

%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
4-6	Tr	14563	151.25	154.25	1546	55
3-5	Tr	14564	154.25	156.25	1416	50
4-5	Tr	14565	156.25	157.88	1590	70
2-4	Tr	14566	157.88	159.00	1024	100
Tr-2	Tr	14567	159.00	160.93	1130	250
Tr-2	Tr	14568	160.93	162.93	975	110
Tr-2	Tr	14569	162.93	164.93	655	30
Tr-2	Tr	14570	164.93	166.93	993	155
Tr-2	Tr	14571	166.93	168.93	900	230
Tr-2	Tr	14572	168.93	170.93	1675	390
1-2	Tr	14573	170.93	173.70	2542	490
4-5	Tr-1	14574	173.70	176.36	2303	420
2-3	Tr	14575	176.36	179.36	1788	630
4-5	1	14576	179.36	180.70	3522	790

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LITHOLOGY		ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA				
MAIN UNITS	SUB UNITS							Sample No.	From	To	Cu ppm	Au ppb
	see Pg. 6.					2-3	Tr	14577	180.70	182.70	1689	245
					increasing number of fine Py veinlets downwards.	2-3	Tr	14578	182.70	185.66	1077	85
	185.66-191.70 Mixed coarse and fine clast breccia. Two large subrounded monzonite clasts >50cm. Small clasts are mafic mv. and diorite. Matrix supported - vague textures due to alteration. mod. magnetic	As above, non carbonated. More spotty fine epidote also as vein selvage (alt.) Variably often moderate matrix k. feldspar alteration.		Low to moderate density of fine 30-90°CA epidote veinlets. Some ep. vein-alteration zones upto 6cm wide 70°CA Local carb veinlets 25-30°CA	Fine, local medium grained. dissem. Py often in clusters in matrix. Large clasts are weak pyritic with a few fine veinlets	1-3	Tr	14579	185.66	188.66	1507	190
						1-3	Tr	14580	188.66	191.70	1324	105
	191.70-193.20 Fine clast matrix supported. Strongly altered and veined variably magnetic	weak-mod. pervasive carbonate and epidote. Local k. feldspar, some veining.		Numerous fine epidote - carbonate and hematite veinlets Variable angles	Patchy fine Py and Cpy as dissem matrix grains and clusters	4-5	1-2	14581	191.70	193.20	5660	1550
193.20-194.85 Plagioclase-Hornblende Porphyry Dyke	Potassic monzonite. med. green fine grained with plagioclase > hornblende phenocrysts - crackled. Mod. magnetic.	Numerous fine epidote veinlets narrow K. feldspar selvages. weak carbonate		Sharp 40°CA contacts Numerous veinlets 40°CA epidote 20-30°CA Carb [illegible]	V. sparse fine dissem. and veinlet Py	Tr	—	14582	193.20	194.85	801	130
194.85-210.32 Potassic Heterolithic Intrusion Breccia. Strongly altered, variably magnetic.	194.85-198.40 Strongly altered with variable matrix K. feldspar. Fine to medium clast matrix supported. Mixed monzonite, mafic mv. diorite clasts. Vague matrix textures.	Non to weak carbonated matrix Patchy dissem. veinlet ep and local clots. Patchy matrix K. feldspar.		Low density of high and low angle CA carbonate and or epidote veinlets. Local coarse magnetite-Py [illegible]	Patchy fine dissem. matrix Py and Cpy often in separate clusters local coarse Py-magnetite	3-4	Tr-1	14583	194.85	196.60	1442	275
						2-3	Tr	14584	196.60	198.40	1146	130
	198.40-200.92 Very strong alteration obscuring primary textures. @ 200.25-200.78 Possible altered plagioclase > Hbl. Porphyry dyke	Intense K. feldspar with variable weak-mod carbonate, some albite in upper part. Patchy epidote. Strong bleaching, remnant magnetite local [illegible]		Mod. density of carbonate, some dk chlorite in upper part variable angles CA	Patchy fine dissem Py matrix clusters - vein selvages. Local fine Cpy Patchy M/C dissem. Mgt	2-3	Tr	14585	198.40	200.92	1488	205
	200.92-210.32 moderate to strongly altered, fine to medium clast, matrix supported breccia. Heterolithic, high percentage of monzonite clasts > mafic mv. Alteration obscures textures with local strong matrix bleaching Variable weak-mod. magnetic local M/C grained magnetite	Alteration is highly variable. Matrix weak to local strong bleached from carbonate alt. Other lighter areas in matrix albitic? Patchy pervasive weak to strong K. feldspar. Epidote mainly in veinlets Local matrix clots.		moderate to high veinlet density mainly fine carbonate local epidote. Some k. feldspar and albite? Also minor qtz veinlets. @ 206.16-206.33 Several carb veins 60°CA up to 1cm chlorite wallrocks. 45°CA contact.	Patchy fine-medium grained Py often patchy in vein wallrocks. Local M/C grained Py-Mgt aggregates with epid in matrix. Some low angle CA (subparallel) fine Py veinlets 207.0-208.0 with bleaching + Kf.	3-5	Tr	14586	200.92	202.92	2222	225
						3-4	Tr	14587	202.92	204.92	1979	125
						2-3	Tr	14588	204.92	206.92	1317	55
						3-4	Tr	14589	206.92	208.92	1295	95
						2-3	Tr	14590	208.92	210.32	1846	130

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LITHOLOGY – MAIN UNITS	LITHOLOGY – SUB UNITS	ALTERATION	STRUCTURE	MINERALIZATION
210.32-217.35 Plagioclase-Hornblende Porphyry Dyke. Potassic Monzonite	210.32-211.10 Crowded plagioclase hornblende porphyry, fine grained k.feldspar rich groundmass. Mod. magnetic some small 1cm mafic xenoliths. Below 211.10 Patchy strong pervasive alteration and veining obscures textures porphyritic sections.	Below 211.10m Patchy mod to strong K.feldspar - mixed pervasive and veinlet. Bleached sections below 214.0m are non carbonated - albite? and minor chlorite. Local alternating veinlet bands of k.feldspar and bleached zones. Epidote throughout mainly as veinlets and selvage alt.	Moderate density of fine epidote, carbonate, some K-feldspar veinlets 45-60°CA Below 214.0m more banded 60°CA K.feld, alb bands some fine 50-60°CA qtz v.	fine - med veinlet Py throughout. Local disseminated fine to coarse magnetite med-coarse Py-magnetite veins locally to 1cm below 214m. Strong dissem Py local Cpy
217.35-229.55 Potassic Altered Heterolithic Intrusion Breccia moderate to strong magnetic	217.35-221.50 Strong alteration overprinting fine to coarse clast, matrix supported breccia. matrix is med. grained distinctly dioritic. Pink monzonite and green mafic mv clasts. Monzonite dykes @ 220.20-221.50m	weak to moderate pervasive matrix carbonate. Patchy moderate, Local strong k.feldspar. Epidote veinlets and selvage zones.	general low density of 50-60°CA fine epidote veinlets, less fine carb.	Fine disseminated commonly patchy/cluster Py with fine Cpy. Local coarse magnetite Py veins 60-70°CA. Matrix Mgt
	221.50-225.22 Patchy bleached and veined. Predominantly fine local med. clast matrix supported breccia. Alteration obscures textures Mod to strong magnetic.	very patchy weak to moderate pervasive matrix carbonate. Patchy zones of mod-strong k-feldspar some albite bleaching. Local magnetite with the K.feldspar.	Moderate to high density of carbonate K.feld, epid, alb, Py, chl veinlets. Variable angles CA. Some qtz vlts	Fine to medium grained disseminated Py Local Cpy mainly in matrix Some Py veins to 7mm 20-90°CA. M/c dissem. Mgt.
	225.22-229.55 Fine to medium clast, matrix supported. Vague textures due to alteration. Mod. to strong magnetic	Patchy weak-mod pervasive matrix carbonate, mod-strong k.feld also in some clasts. Irregular epidote clots in matrix, some fine magnetite clusters cm scale.	V. fine epidote and of carbonate veinlets variable angles to CA Low density Local Py ± magnetite veins.	Fine dissem. matrix Py sparse Cpy. Local M/C Py blebs and veins with M/C magnetite
229.55-238.65 Plagioclase Porphyry Dyke(s) Grey to pink potassic monzonites. Crowded plagioclase porphyries variably weak to moderate magnetic. Local 1-4cm xenoliths. Subrounded partially assimilated.	229.55-231.85 Crowded plagioclase porphyry. weak magnetic	Quartz and carb. veinlets have cm. scale bleached selvages. Local dark chlorite selvages ± carbonate.	Variably aligned phenocrysts 70°CA Bleached veinlet zones 50-60°CA. Low density carb-qtz veinlets	Very fine dissem. Py locally in veinlets
	231.85-234.40 As above but pinker - K.feldspar rich groundmass weak magnetic	Strong bleached zones surrounding quartz veinlets 1-30cm wide 50-70°CA.	Moderate density of fine qtz veinlets/fine carb outside of these areas.	Sparse dissem groundmass Py often v.fine. Higher concentrations with some Cpy in bleached zones
	234.40-235.90 Pinkish grey crowded plagioclase porphyry	weak-moderate pervasive carb weak magnetic.	Low density of fine carb veinlets 40°? phenocryst alignment	V. fine dissem. and weak fracture Py
	235.90-238.25 Pink, plagioclase-tabular hornblende porphyry. Strong K.feld. groundmass. Local xenoliths partially assimilated. Weak/mod magnetic	Some intrusion breccia to 30cm. Significant groundmass k.feld (primary?) Narrow bleached selvages to carb veinlets - pervasive fine carbonate	Weak becoming moderate carb veinlet downwards 45-70°CA assoc. bleached zones	Fine local med grained veinlet Py Local med. Mgt. Fine dissem Py in [illegible]
	238.25-238.65 Strong bleached [illegible]	Strong silicification less chlorite alt.	veinlet [illegible] to CA.	Sparse Py
238.65-262.33 Potassic Altered Heterolithic Intrusion Breccias	238.65-239.56 Bleached and carbonated remnant angular breccia (fine) texture	M/S carbonated, variable weak-mod magnetic.	Baked-chloritic fracture carb veinlets, variable CA	Sparse V. fine Py.
	239.56-244.40 Fault Zone			

%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
2-3	Tr	14591	210.32	212.00	1057	105
1-2	Tr	14592	212.00	214.00	1342	130
2-3	Tr	14593	214.00	215.80	911	45
3-4	Tr-1	14594	215.80	217.35	3092	150
4-7	Tr-1	14595	217.35	219.35	3080	165
3-5	Tr	14596	219.35	221.50	2659	130
3-4	Tr	14597	221.50	223.50	1706	65
2-4	Tr	14598	223.50	225.22	2590	170
2-3	Tr	14599	225.22	227.55	1260	70
2-4	Tr	14600	227.55	229.55	1707	90
1	Tr	14601	229.55	231.85	142	5
1-2	Tr	14602	231.85	234.40	225	5
1-2	Tr	14603	234.40	235.90	170	5
2-3	Tr	14604	235.90	238.25	530	30
Tr	—	14605	238.25	239.56	767	30

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LITHOLOGY – MAIN UNITS	LITHOLOGY – SUB UNITS	ALTERATION	STRUCTURE	MINERALIZATION
	239.56-244.40 Fault Zone in altered breccia. Chloritic fracturing with variable bleaching obscures textures	Chloritic fractures throughout. Intrusion breccias appear quite potassic (K. feldspar). Variable carbonate some silicification – albite?	Many fractures subparallel to 20°CA. Fine carbonate local qtz veinlets 70-90° CA.	V. fine fracture-veinlet Py. Local disseminated.
	244.40-246.93 Potassic fine clast and tightly packed but matrix supported. Mod. magnetic	moderate to strong pervasive carbonate matrix and clast. Patchy moderate K.feld. widespread dissem Mgt vein	Mod. density of carb veinlets variable angles CA. Local fine Py veinlets	V. patchy fine Py in matrix as clusters. Local coarse Py. Mgt ± Cpy aggregates. Mgt Py
	246.93-260.80 Predominantly fine clasts local medium. Dominated by pink-grey monzonite. Vague textures due to alteration. Matrix diorite supported. Mod. magnetic. 253.95-258.65 Crowded fine plagioclase porphyry probably a boulder size clast.	Variable weak-moderate pervasive carbonate in matrix same for K. feldspar. Rare epidote as small clots and veinlets	Low to moderate carbonate veinlets 30-60° CA. Local fine epidote and fine Py veinlets. Local low angle chloritic fractures. @ 256.90-257.12 strong bleached zone associated with 25°CA carb vein 0.5cm. Below 257. fewer but larger low angle carb veins 10-25°CA to 1cm.	Patchy disseminated and veinlet fine-medium grained Py often in cm scale clusters. Fine-med. grained disseminated Magnetite in matrix. Local irregular coarse Py-magnetite veins
	260.30-261.05 Bleached fracture-fault zone	Central bleached chlorite-clay fault carbonate [illegible]	Slip surfaces [illegible]	wallrock fine dissem. Py
	261.05-262.33 Fine-med clast potassic altered. Matrix supported Bx.	Pervasive moderate carbonate. Mod magnetic. Patchy M/S K.feldspar. Local [illegible]	Sparse epidote near carb veinlets 40-50°CA	Patchy fine local med grained Py
262.33-264.63 Crowded Plagioclase Porphyry – Monzonite Dyke	Dark pink-red, potassic (K.feld) monzonite. Crowded plagioclase phenocrysts in K.feld rich groundmass	weak saussuritized plagioclase moderate magnetic. Flow aligned plagioclase phenocrysts 60°CA.	55°CA sharp contacts. Low angle 0-20° CA and high angle 60-80° carb veinlets.	Local fine-med grained disseminated to fracture Py. One subparallel Py-fine Mgt vein.
264.33-279.75 Potassic Altered Heterolithic Intrusion Breccias.	264.63-267.04 As above dyke. Fine, local med. clast (much magnetite) breccia. Matrix to weak clast supported. Alt. obscures text.	Patchy pervasive weak to mod. carbonate, patchy K.feldspar. Local M/S magnetic. Up to 10cm wide bleached alb-carb-sil? zones.	A few high and low angle carb. veinlets. In bleached zone banded qtz-carb [illegible]	Patchy fine dissem matrix Py. Local med grained Py & Mgt in 40-50°CA veins. To 1cm.
	267.04-269.89 Alternating 40-50cm strongly bleached carb-alb-sil? bands with K.feld rich breccia as above. Bleached zones wk. magnetic	Pervasive bleaching-carb-alb-sil.? obscures textures. Mod. magnetic weak carbonate.	V. fine carbonate veinlets variable angles CA. Local ep. [illegible] 15cm 70°CA	Patchy fine dissem. Py in bleached zone. Dissem Py in potassic breccia.

%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
1-2	Tr	14606	239.56	242.00	793	40
Tr-1	–	14607	242.00	244.40	616	40
2-3	Tr	14608	244.40	246.93	614	25
2-3	Tr	14609	246.93	249.93	495	25
1-3	Tr	14610	249.93	252.93	644	45
2-3	Tr	14611	252.93	255.93	1056	40
1-3	Tr	14612	255.93	257.95	974	45
2-4	Tr	14613	257.95	260.30	1065	40
Tr-2	–					
2-4	Tr	14614	260.30	262.33	723	30
Tr-2	–	14615	262.33	264.63	630	15
2-4	Tr	14616	264.63	267.04	1407	65
1-3	Tr	14617	267.04	269.57	700	35

m 240 250 260 270

NORTH BRECCIA ZONE. DIAMOND DRILL LOG BIG KIDD PROPERTY

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LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA: Sample No.	From	To	Cu ppm	Au ppb	m 270
	269.57-275.65 Fine to med. clast predom. Monzonite. Subangular to local rounded. Vague textures due to alteration and veining. Variable dioritic m.grained matrix Mod. magnetic.	Weak-moderate pervasive clast + matrix carbonate. K. feldspar is patchy weak local weak, not as strong as above. Weak epidote as saussuritized plagioclase + veinlets. Some albite? bleaching.		Low to moderate carbonate veinlet density 30-70°CA. Local swarms of 60°CA veinlets. High veinlet density ep+carb below 274 m	Patchy fine dissem matrix Py, local fine Cpy. Rare Py veinlets	1-3	Tr	14618	269.57	272.60	695	25	
						1-2	Tr	14619	272.60	275.65	664	35	
	275.65-279.75 Strong alteration zone. Fairly massive-bleached with fine greenish alteration Some sericite? Possibly an altered dyke. Weak-Mod. magnetic	Pervasive bleached, moderate carbonate + albite? fine grained. Local remnant K. feldspar. No epidote		weak to moderate fine veinlets of carb. Local qtz variable angles CA. Local fine stockwork fine low angle chl fract.	Local small patches of fine disseminated Py, some fine Cpy.	Tr-1	Tr	14620	275.65	277.70	394	25	
						Tr-1	Tr	14621	277.70	279.75	709	30	
279.75 - 281.75 EOH. Mixed Heterolithic Intrusion-Volcanic Breccias. Variably magnetic.	279.75-281.95 Fine crowded clast to matrix supported with altered medium grained matrix. Matrix locally chloritic + magnetic. mainly monz clasts	Non to weak patchy pervasive carb. weak patchy K. feldspar local weak/mod epidote as veinlets and pervasive f.g. bands to 5cm.		Numerous v.fine carb. veinlets, few larger epid veins some bands	Patchy fine dissem matrix Py as clusters Some high angle Py veins 50-80°CA	2-3	Tr	14622	279.75	281.95	788	30	280
	281.95-286.60 Fine clasts predominantly subangular fine grained K. feldspar rich monzonites vague textures due to alteration and veining. Matrix supported. F/m grained matrix with dissem. Mgt Mod. magnetic	Mainly non carbonated, local weak pervasive patches. Widespread carbonate veinlets. Patchy bleaching may be due to fine dissem. ep. or alb.? K. feld in clasts also veinlet related.		Moderate density of v.fine to fine high angle carb veinlets, several are vuggy + druse local fine chl. fractures	Patchy matrix and veinlet related fine Py, minor v.fine Cpy	1-3	Tr	14623	281.95	284.30	1024	70	
						1-2	Tr	14624	284.30	286.60	890	90	
	286.60-292.90 Fine-med. clast Subangular with vague textures. Monzonite and metavolcanic, some hbl. porphyries. Matrix is either med. grained dioritic or fine chloritic with magnetite Mod. magnetic throughout.	Moderate pervasive carbonate -weak downwards. Little obvious K. feldspar alteration. Matrix is more chloritic-magnetic. Sparse epidote.		Numerous fine carbonate and dark chlorite veinlets and fractures mainly 60-80°CA. Local Py veinlets	Patchy fine dissem. and local Py veinlets to 7mm wide.	1-2	Tr	14625	286.60	289.60	414	15	
						1-2	Tr	14626	289.60	292.60	479	15	290
	292.90-294.74 EOH light green hornblende plagioclase porphyry dyke f.g. groundmass. Mod. magnetic	Carbonate and epidote are vein related. Narrow selvages with ep.		Low density fine carb or ep. veinlets 60°CA.	Minor low angle fine Py veinlets.	Tr	Tr	NS.					
				294.74 EOH.									

KAMLOOPS GEOLOGICAL SERVICES LTD. LOGGED BY R.C. Wells DATE 23 October 1999.

DDH.NBZ99-3

SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)	Cu (ppm)	L X Au	Au-Comp	L X Cu	Cu-Comp	From	To	Length	Au (ppb)	Cu (ppm)
14501	4.40	6.12	1.72	120	1423	206.40		2447.56						
14502	6.12	8.53	2.41	50	605	120.50		1458.05						
14503	8.53	10.93	2.40	40	632	96.00		1516.80						
14504	10.93	12.93	2.00	55	1242	110.00		2484.00						
14505	12.93	16.20	3.27	30	613	98.10		2004.51						
14506	16.20	19.20	3.00	80	1539	240.00		4617.00						
14507	19.20	22.20	3.00	85	1425	255.00		4275.00						
14508	22.20	25.20	3.00	105	1698	315.00		5094.00						
14509	25.20	26.70	1.50	60	931	90.00		1396.50						
14510	26.70	28.20	1.50	95	1546	142.50		2319.00						
14511	28.20	30.02	1.82	130	2069	236.60		3765.58						
14512	30.02	33.02	3.00	85	1403	255.00		4209.00						
14513	33.02	36.02	3.00	115	1619	345.00		4857.00						
14514	36.02	39.02	3.00	120	1452	360.00		4356.00						
14515	39.02	40.70	1.68	105	1785	176.40		2998.80						
14516	40.70	43.70	3.00	60	1741	180.00		5223.00						
14517	43.70	46.06	2.36	120	2432	283.20	1836.20	5739.52	31148.90	28.20	46.06	17.86	102.81	1744.06
14518	46.06	46.99	0.93	95	1061	88.35		986.73						
14519	46.99	49.00	2.01	50	942	100.50		1893.42						
14520	49.00	52.00	3.00	300	1232	900.00		3696.00						
14521	52.00	55.00	3.00	75	1191	225.00		3573.00						
14522	55.00	56.98	1.98	145	945	287.10		1871.10						
14523	56.98	57.80	0.82	135	1733	110.70	4590.35	1421.06	62291.71	16.20	57.80	41.60	110.34	1497.40
14524	57.80	60.00	2.20	35	343	77.00		754.60						
14525	60.00	62.10	2.10	15	305	31.50		640.50						
14526	62.10	64.00	1.90	90	1292	171.00		2454.80						
14527	64.00	67.00	3.00	35	1025	105.00		3075.00						
14528	67.00	70.00	3.00	60	991	180.00		2973.00						
14529	70.00	73.00	3.00	80	1099	240.00		3297.00						
14530	73.00	75.59	2.59	35	980	90.65		2538.20						
14531	75.59	78.00	2.41	60	1841	144.60		4436.81						
14532	78.00	80.00	2.00	100	1470	200.00		2940.00						
14533	80.00	81.69	1.69	180	1917	304.20		3239.73						
14534	81.69	84.00	2.31	160	1842	369.60		4255.02						
14535	84.00	86.44	2.44	65	1920	158.60		4684.80						
14536	86.44	89.30	2.86	195	1822	557.70		5210.92						
14537	89.30	91.15	1.85	85	1380	157.25		2553.00						
14538	91.15	93.70	2.55	160	1923	408.00		4903.65						
14539	93.70	96.37	2.67	235	1528	627.45	2927.40	4079.76	36303.69	78.00	96.37	18.37	159.36	1976.25
14540	96.37	97.48	1.11	115	1551	127.65		1721.61						
14541	97.48	100.27	2.79	40	1029	111.60		2870.91						
14542	100.27	103.00	2.73	140	1117	382.20		3049.41						
14543	103.00	106.00	3.00	465	809	1395.00		2427.00						
14544	106.00	109.00	3.00	275	1100	825.00		3300.00						
14545	109.00	112.00	3.00	140	1060	420.00		3180.00						
14546	112.00	113.40	1.40	500	789	700.00	3722.20	1104.60	13061.01	100.27	113.40	13.13	283.49	994.75
							13005.35		141892.95	4.40	113.40	109.00	119.32	1301.77
14547	113.40	115.00	1.60	80	309	128.00		494.40						
14548	115.00	117.70	2.70	45	814	121.50		2197.80						
14549	117.70	119.20	1.50	45	1442	67.50		2163.00						
14550	119.20	122.20	3.00	40	1727	120.00		5181.00						
14551	122.20	124.00	1.80	15	1396	27.00		2512.80						
14552	124.00	125.84	1.84	40	1211	73.60		2228.24						
14553	125.84	128.20	2.36	20	783	47.20		1847.88						
14554	128.20	130.94	2.74	30	1262	82.20		3457.88						
14555	130.94	132.94	2.00	30	1436	60.00		2872.00						
14556	132.94	135.94	3.00	30	1450	90.00		4350.00						
14557	135.94	137.60	1.66	35	1460	58.10		2423.60						
14558	137.60	140.25	2.65	20	989	53.00		2620.85						
14559	140.25	143.25	3.00	65	1324	195.00		3972.00						
14560	143.25	145.25	2.00	35	1281	70.00		2562.00						
14561	145.25	148.25	3.00	35	1261	105.00		3783.00						
14562	148.25	151.25	3.00	20	1237	60.00		3711.00						
14563	151.25	154.25	3.00	55	1546	165.00		4638.00						
14564	154.25	156.25	2.00	50	1416	100.00		2832.00						
14565	156.25	157.88	1.63	70	1590	114.10		2591.70						
14566	157.88	159.00	1.12	100	1024	112.00		1146.88						
14567	159.00	160.93	1.93	250	1130	482.50		2180.90						
14568	160.93	162.93	2.00	110	975	220.00		1950.00						
14569	162.93	164.93	2.00	30	655	60.00		1310.00						
14570	164.93	166.93	2.00	155	998	310.00		1996.00						
14571	166.93	168.93	2.00	230	900	460.00		1800.00						
14572	168.93	170.93	2.00	390	1675	780.00		3350.00						
14573	170.93	173.70	2.77	490	2542	1357.30		7041.34						
14574	173.70	176.36	2.66	420	2303	1117.20		6125.98						
14575	176.36	179.36	3.00	630	1788	1890.00		5364.00						
14576	179.36	180.70	1.34	790	3522	1058.60	5423.10	4719.48	23250.80	170.93	180.70	9.77	555.08	2379.82
14577	180.70	182.70	2.00	245	1689	490.00	8337.60	3378.00	40362.58	157.88	182.70	24.82	335.92	1626.21
14578	182.70	185.66	2.96	85	1077	251.60		3187.92						

14579	185.66	188.66	3.00	190	1507	570.00		4521.00						
14580	188.66	191.70	3.04	105	1324	319.20		4024.96						
14581	191.70	193.20	1.50	1550	5660	2325.00	10158.90	8490.00	50202.68	168.93	193.20	24.27	418.58	2068.51
14582	193.20	194.85	1.65	130	801	214.50		1321.65						
14583	194.85	196.60	1.75	275	1442	481.25		2523.50						
14584	196.60	198.40	1.80	130	1146	234.00		2062.80						
14585	198.40	200.92	2.52	205	1488	516.60		3749.76						
14586	200.92	202.92	2.00	225	2222	450.00		4444.00						
14587	202.92	204.92	2.00	125	1979	250.00	5612.15	3958.00	38283.59	182.70	204.92	22.22	252.57	1722.93
							13075.25		72058.39	164.93	204.92	39.99	326.96	1801.91
14588	204.92	206.92	2.00	55	1317	110.00		2634.00						
14589	206.92	208.92	2.00	95	1295	190.00		2590.00						
14590	208.92	210.32	1.40	130	1846	182.00		2584.40						
14591	210.32	212.00	1.68	105	1057	176.40		1775.76						
14592	212.00	214.00	2.00	130	1342	260.00		2684.00						
14593	214.00	215.80	1.80	45	911	81.00		1639.80						
14594	215.80	217.35	1.55	150	3092	232.50		4792.60						
14595	217.35	219.35	2.00	165	3080	330.00		6160.00						
14596	219.35	221.50	2.15	130	2659	279.50		5716.85						
14597	221.50	223.50	2.00	65	1706	130.00		3412.00						
14598	223.50	225.22	1.72	170	2590	292.40	1264.40	4454.80	24536.25	215.80	225.22	9.42	134.23	2604.70
							16213.55		117090.38	157.88	225.22	67.34	240.77	1738.79
							30956.10		315422.48	4.40	225.22	220.82	140.19	1428.41
14599	225.22	227.55	2.33	70	1260	163.10		2935.80						
14600	227.55	229.55	2.00	90	1707	180.00		3414.00						
14601	229.55	231.85	2.30	5	142	11.50		326.60						
14602	231.85	234.40	2.55	5	225	12.75		573.75						
14603	234.40	235.90	1.50	5	170	7.50		255.00						
14604	235.90	238.25	2.35	30	530	70.50		1245.50						
14605	238.25	239.56	1.31	35	767	45.85		1004.77						
14606	239.56	242.00	2.44	40	793	97.60		1934.92						
14607	242.00	244.40	2.40	40	616	96.00		1478.40						
14608	244.40	246.93	2.53	35	614	88.55		1553.42						
14609	246.93	249.93	3.00	25	485	75.00		1455.00						
14610	249.93	252.93	3.00	45	644	135.00		1932.00						
14611	252.93	255.93	3.00	40	1056	120.00		3168.00						
14612	255.93	257.95	2.02	45	974	90.90		1967.48						
14613	257.95	260.30	2.35	40	1065	94.00		2502.75						
14614	260.30	262.33	2.03	30	723	60.90		1467.69						
14615	262.33	264.63	2.30	15	630	34.50		1449.00						
14616	264.63	267.04	2.41	65	1409	156.65		3395.69						
14617	267.04	269.57	2.53	35	700	88.55		1771.00						
14618	269.57	272.60	3.03	25	695	75.75		2105.85						
14619	272.60	275.65	3.05	35	664	106.75		2025.20						
14620	275.65	277.70	2.05	25	394	51.25		807.70						
14621	277.70	279.75	2.05	30	709	61.50		1453.45						
14622	279.75	281.95	2.20	30	788	66.00		1733.60						
14623	281.95	284.30	2.35	70	1024	164.50		2406.40						
14624	284.30	286.60	2.30	90	890	207.00		2047.00						
14625	286.60	289.60	3.00	15	414	45.00		1242.00						
14626	289.60	292.60	3.00	15	479	45.00		1437.00						

5-Nov-99

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
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ICP CERTIFICATE OF ANALYSIS AK 99-625

CHRISTOPHER JAMES GOLD CORP.
C/O RON WELLS
910 HEATHERTON CRT.
KAMLOOPS, BC, V1S 1P9

ATTENTION: RON WELLS

No. of samples received: 126
Sample type: Core
PROJECT #: NBZ-03
SHIPMENT #: 1
Samples submitted by: R. Wells

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	14501	120	0.2	1.40	<5	50	<5	2.80	<1	31	50	1423	5.93	<10	1.52	561	9	0.03	15	1550	2	10	<20	45	0.16	<10	135	<10	1	34
2	14502	50	<0.2	1.07	<5	40	<5	2.13	<1	18	32	605	3.83	<10	1.04	347	9	0.03	11	1540	6	10	<20	34	0.12	<10	105	<10	7	19
3	14503	40	<0.2	0.92	<5	40	<5	2.67	<1	14	34	632	3.54	<10	0.87	367	10	0.03	8	1400	4	10	<20	42	0.08	<10	82	<10	9	20
4	14504	55	0.2	0.87	<5	40	<5	2.38	<1	23	32	1242	3.62	<10	0.83	401	5	0.02	7	1390	6	10	<20	39	0.06	<10	84	<10	15	31
5	14505	30	<0.2	0.88	<5	45	<5	2.50	<1	17	32	613	3.54	<10	0.67	347	13	0.03	6	1590	4	5	<20	49	0.08	<10	73	<10	9	15
6	14506	80	0.4	1.61	<5	45	<5	2.12	<1	32	34	1539	6.35	<10	1.82	469	12	0.03	16	1660	6	10	<20	37	0.13	<10	132	<10	<1	28
7	14507	85	0.2	1.15	<5	35	<5	2.01	<1	28	30	1425	5.38	<10	1.28	382	18	0.02	10	1520	4	10	<20	34	0.12	<10	105	<10	<1	28
8	14508	105	0.4	1.42	<5	40	<5	1.75	<1	35	42	1698	6.56	<10	1.65	400	19	0.02	19	1560	4	10	<20	29	0.14	<10	121	<10	<1	31
9	14509	60	0.6	1.26	<5	30	<5	3.32	2	31	41	931	4.47	<10	1.47	517	11	0.02	11	1460	14	15	<20	84	0.17	<10	109	<10	9	35
10	14510	95	0.2	1.16	<5	40	<5	2.15	<1	32	40	1546	4.80	<10	1.29	430	19	0.02	13	1440	4	10	<20	33	0.09	<10	94	<10	<1	28
11	14511	130	0.2	1.47	<5	45	<5	2.06	<1	46	64	2069	6.31	<10	1.63	460	43	0.03	16	1610	8	25	<20	36	0.09	<10	119	<10	<1	37
12	14512	85	<0.2	1.46	<5	40	<5	1.63	<1	50	94	1403	6.42	<10	1.77	460	24	0.02	34	1570	8	<5	<20	33	0.08	<10	87	<10	<1	35
13	14513	115	<0.2	1.37	<5	40	<5	1.59	<1	49	58	1619	5.97	<10	1.36	381	20	0.03	16	1590	8	10	<20	32	0.12	<10	95	<10	<1	33
14	14514	120	0.2	1.53	<5	35	<5	2.92	<1	51	33	1452	5.88	<10	1.77	525	19	0.02	14	1620	34	10	<20	60	0.10	<10	87	<10	<1	39
15	14515	105	0.2	1.40	<5	35	<5	2.94	<1	50	48	1785	6.13	<10	1.63	523	24	0.02	17	1520	6	15	<20	75	0.14	<10	90	<10	<1	34
16	14516	60	0.2	1.53	<5	35	<5	2.07	<1	40	45	1741	6.27	<10	1.81	526	29	0.02	18	1800	8	<5	<20	47	0.17	<10	121	<10	<1	42
17	14517	120	0.4	1.14	<5	50	<5	1.68	<1	76	51	2432	7.31	<10	1.16	407	25	0.03	16	1480	6	5	<20	35	0.07	<10	94	<10	<1	33
18	14518	95	1.6	0.57	<5	35	<5	3.85	2	31	27	1061	3.96	<10	0.99	630	44	0.01	9	1360	36	15	<20	101	<0.01	<10	37	<10	3	45
19	14519	50	<0.2	1.46	5	40	<5	1.63	<1	27	60	942	5.50	<10	1.63	522	9	0.03	18	1880	10	5	<20	29	0.13	<10	133	<10	<1	44
20	14520	300	<0.2	1.17	<5	45	<5	1.71	<1	62	35	1232	6.05	<10	1.30	450	7	0.02	12	1560	6	10	<20	33	0.09	<10	122	<10	<1	38

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
21	14521	75	<0.2	1.31	<5	40	<5	2.00	<1	52	75	1191	5.42	<10	1.52	499	9	0.04	17	1620	10	10	<20	38	0.12	<10	119	<10	2	37
22	14522	145	<0.2	1.78	<5	45	<5	2.57	<1	39	79	945	6.01	<10	2.05	675	10	0.02	22	1710	10	20	<20	43	0.08	<10	134	<10	<1	44
23	14523	135	0.6	2.50	10	40	<5	5.35	<1	51	135	1733	6.65	<10	2.78	1041	11	0.02	39	1600	18	15	<20	133	0.08	<10	126	<10	3	51
24	14524	35	<0.2	0.61	<5	20	<5	1.75	<1	12	27	343	2.23	<10	0.61	327	7	0.02	4	1130	6	10	<20	44	0.04	<10	55	<10	14	18
25	14525	15	<0.2	0.78	<5	90	<5	2.15	<1	11	43	305	2.41	<10	0.69	431	6	0.03	2	1160	6	<5	<20	48	0.06	<10	71	<10	18	21
26	14526	90	<0.2	0.90	<5	35	<5	1.88	<1	45	45	1292	3.80	<10	0.91	406	32	0.02	10	1290	6	5	<20	34	0.06	<10	51	<10	4	30
27	14527	35	<0.2	1.23	<5	35	<5	1.49	<1	53	46	1025	6.02	<10	1.28	424	29	0.03	13	1540	10	<5	<20	24	0.05	<10	81	<10	<1	37
28	14528	60	<0.2	0.95	<5	35	<5	1.56	<1	36	34	991	4.51	<10	1.00	354	18	0.02	9	1460	6	<5	<20	33	0.04	<10	80	<10	<1	29
29	14529	80	0.2	1.17	<5	40	<5	1.90	<1	29	59	1099	4.61	<10	1.16	470	10	0.03	9	1420	8	<5	<20	46	0.06	<10	76	<10	<1	32
30	14530	35	<0.2	0.98	<5	35	<5	1.64	<1	40	40	980	4.61	<10	0.88	385	14	0.03	7	1350	6	5	<20	27	0.07	<10	89	<10	<1	28
31	14531	60	0.2	1.25	<5	40	<5	1.30	<1	39	51	1841	6.40	<10	1.28	424	19	0.03	13	1450	8	<5	<20	26	0.08	<10	101	<10	<1	40
32	14532	100	0.2	1.23	<5	35	<5	1.80	<1	32	40	1470	5.32	<10	1.26	493	16	0.02	11	1370	8	5	<20	28	0.06	<10	90	<10	<1	36
33	14533	180	0.2	1.43	<5	35	<5	1.42	<1	35	67	1917	6.14	<10	1.49	486	18	0.03	23	1590	8	10	<20	30	0.07	<10	92	<10	<1	44
34	14534	160	0.2	1.18	<5	35	<5	1.70	<1	37	41	1842	5.61	<10	1.21	467	12	0.03	12	1410	6	<5	<20	27	0.04	<10	70	<10	<1	36
35	14535	65	0.2	1.29	<5	35	<5	2.04	<1	40	54	1920	5.59	<10	1.51	579	26	0.03	12	1440	8	20	<20	32	0.06	<10	81	<10	<1	40
36	14536	195	0.4	1.67	5	60	<5	3.89	<1	40	49	1822	6.01	<10	1.67	759	18	0.02	16	1610	8	15	<20	96	0.14	<10	134	<10	3	41
37	14537	85	<0.2	1.40	<5	35	<5	2.55	<1	62	63	1380	5.15	<10	1.32	558	59	0.03	11	1430	10	15	<20	52	0.13	<10	92	<10	6	35
38	14538	160	0.2	1.49	<5	35	<5	2.10	<1	50	52	1923	5.89	<10	1.55	640	42	0.03	12	1590	10	10	<20	54	0.14	<10	106	<10	<1	43
39	14539	235	0.2	1.40	<5	40	<5	2.81	<1	51	41	1528	5.93	<10	1.44	654	26	0.02	12	1500	10	15	<20	60	0.12	<10	121	<10	<1	40
40	14540	115	0.2	1.82	10	45	<5	4.97	<1	49	42	1551	6.53	<10	1.77	883	16	0.02	12	1480	12	15	<20	115	0.05	<10	132	<10	3	43
41	14541	40	<0.2	1.28	10	45	<5	4.16	<1	26	35	1029	4.35	<10	1.35	823	10	0.02	9	1410	8	10	<20	103	0.07	<10	117	<10	18	32
42	14542	140	0.2	1.72	5	35	<5	2.40	<1	47	35	1117	5.95	<10	1.83	680	37	0.03	14	1730	14	10	<20	50	0.19	<10	137	<10	<1	46
43	14543	465	<0.2	1.60	5	40	<5	2.48	<1	41	54	809	5.29	<10	1.55	624	12	0.03	13	1700	10	10	<20	54	0.14	<10	135	<10	2	41
44	14544	275	<0.2	1.21	<5	35	<5	2.32	<1	63	33	1100	5.19	<10	1.10	525	16	0.03	10	1450	8	10	<20	42	0.09	<10	108	<10	1	33
45	14545	140	<0.2	1.45	<5	45	<5	2.30	<1	28	46	1060	4.96	<10	1.39	554	11	0.03	11	1680	10	5	<20	56	0.12	<10	124	<10	14	38
46	14546	460	<0.2	1.36	<5	30	<5	2.60	<1	26	43	789	4.62	<10	1.32	606	5	0.03	11	1620	10	10	<20	55	0.11	<10	115	<10	7	37
47	14547	80	<0.2	1.44	5	85	<5	4.90	<1	12	33	309	3.03	<10	1.06	723	13	0.02	4	1420	10	10	<20	73	0.05	<10	81	<10	21	25
48	14548	45	<0.2	1.27	<5	25	<5	2.53	<1	12	37	814	3.30	<10	0.71	422	10	0.04	5	1470	10	5	<20	46	0.07	<10	115	<10	18	24
49	14549	45	0.2	1.56	<5	30	<5	2.38	<1	41	59	1442	5.10	<10	1.59	672	18	0.03	12	1640	8	5	<20	94	0.09	<10	86	<10	5	41
50	14550	40	0.2	1.81	<5	30	<5	2.12	<1	55	60	1727	5.80	<10	1.69	674	37	0.03	14	1730	12	<5	<20	49	0.13	<10	104	<10	<1	46
51	14551	15	<0.2	1.70	<5	30	<5	2.21	<1	29	50	1396	5.25	<10	1.44	614	21	0.04	11	1700	12	<5	<20	45	0.13	<10	113	<10	4	39
52	14552	40	<0.2	1.62	<5	35	<5	2.64	<1	42	54	1211	5.84	<10	1.64	742	34	0.03	13	1580	10	5	<20	51	0.12	<10	98	<10	<1	42
53	14553	20	<0.2	1.50	<5	35	<5	2.25	<1	24	49	783	4.45	<10	1.10	543	16	0.03	7	1540	12	15	<20	36	0.11	<10	121	<10	8	34
54	14554	30	0.2	1.58	<5	40	<5	2.44	<1	29	50	1262	5.56	<10	1.47	630	20	0.03	13	1570	<2	15	<20	68	0.15	<10	129	<10	14	39
55	14555	30	0.2	1.47	<5	30	<5	2.09	<1	27	36	1436	5.52	<10	1.45	607	14	0.03	13	1690	8	10	<20	46	0.12	<10	118	<10	<1	39

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
56	14556	30	0.2	1.60	<5	35	<5	2.49	<1	30	47	1450	5.72	<10	1.38	663	25	0.03	12	1700	10	<5	<20	53	0.18	<10	136	<10	4	39
57	14557	35	0.2	1.58	<5	40	<5	2.85	<1	30	41	1460	5.70	<10	1.47	737	43	0.04	10	1690	10	10	<20	60	0.11	<10	123	<10	4	41
58	14558	20	<0.2	1.87	5	65	<5	3.00	<1	27	71	989	5.85	<10	1.58	766	11	0.04	20	1690	12	10	<20	56	0.15	<10	182	<10	8	44
59	14559	65	0.2	1.69	<5	40	<5	2.45	<1	27	36	1324	5.74	<10	1.47	692	23	0.03	9	1690	12	5	<20	56	0.09	<10	135	<10	1	42
60	14560	35	0.2	1.79	<5	40	<5	4.69	<1	28	46	1281	5.89	<10	1.75	987	19	0.03	12	1660	10	10	<20	79	0.12	<10	148	<10	5	46
61	14561	35	0.2	1.40	<5	35	<5	2.82	<1	25	40	1261	4.87	<10	1.40	735	17	0.03	9	1550	8	15	<20	48	0.07	<10	110	<10	1	39
62	14562	20	<0.2	1.49	<5	35	<5	2.88	<1	27	50	1237	5.68	<10	1.48	748	16	0.03	10	1680	12	5	<20	50	0.08	<10	136	<10	6	44
63	14563	55	0.2	1.55	10	30	<5	2.41	<1	29	49	1546	5.85	<10	1.55	753	19	0.03	11	1710	14	<5	<20	41	0.08	<10	111	<10	<1	45
64	14564	50	0.2	1.50	<5	35	<5	2.83	<1	26	51	1416	5.74	<10	1.40	752	26	0.03	10	1620	14	15	<20	44	0.07	<10	141	<10	3	40
65	14565	70	0.2	1.49	<5	35	<5	2.88	<1	25	38	1590	5.85	<10	1.53	882	47	0.03	10	1620	12	10	<20	44	0.13	<10	116	<10	<1	43
66	14566	100	<0.2	1.39	<5	45	<5	3.77	<1	24	49	1024	4.65	<10	1.28	889	33	0.04	8	1410	10	5	<20	84	0.06	<10	113	<10	15	38
67	14567	250	<0.2	1.62	<5	45	<5	4.91	<1	23	34	1130	4.57	<10	1.39	966	7	0.02	7	1470	12	10	<20	164	0.05	<10	74	<10	11	41
68	14568	110	<0.2	1.48	<5	40	<5	2.59	<1	24	40	975	5.51	<10	1.46	712	7	0.03	8	1580	8	5	<20	93	0.07	<10	135	<10	<1	43
69	14569	30	<0.2	1.37	<5	40	<5	1.98	<1	18	35	655	6.44	<10	1.05	467	6	0.03	8	1670	8	<5	<20	50	0.13	<10	170	<10	<1	35
70	14570	155	0.2	1.35	<5	45	<5	1.92	<1	16	45	998	5.44	<10	0.92	420	6	0.04	6	1560	10	<5	<20	50	0.08	<10	141	<10	2	32
71	14571	190	<0.2	1.44	<5	55	<5	1.92	<1	16	46	900	5.61	<10	0.88	383	7	0.04	8	1530	8	10	<20	45	0.11	<10	162	<10	<1	30
72	14572	340	0.2	1.28	<5	45	<5	1.70	<1	19	41	1675	5.78	<10	0.90	374	6	0.04	8	1520	8	<5	<20	46	0.06	<10	153	<10	<1	32
73	14573	380	0.4	1.16	<5	90	<5	1.94	<1	21	46	2542	5.69	<10	0.98	451	7	0.03	9	1450	6	<5	<20	52	0.06	<10	139	<10	<1	48
74	14574	420	0.4	1.31	<5	50	<5	1.84	<1	27	31	2303	6.43	<10	1.15	465	9	0.03	11	1490	8	5	<20	45	0.06	<10	143	<10	<1	35
75	14575	445	0.4	1.27	<5	50	<5	1.62	<1	19	39	1788	6.00	<10	1.01	399	14	0.03	7	1600	8	<5	<20	40	0.06	<10	146	<10	<1	34
76	14576	770	0.8	1.26	<5	45	<5	1.66	<1	66	39	3522	8.36	<10	1.03	415	10	0.04	9	1380	6	<5	<20	35	0.11	<10	118	<10	<1	36
77	14577	245	0.2	1.32	<5	45	<5	1.55	<1	20	54	1689	5.65	<10	1.02	381	8	0.04	8	1620	8	<5	<20	42	0.08	<10	129	<10	<1	34
78	14578	85	0.2	1.10	<5	45	<5	2.06	<1	14	34	1077	4.16	<10	0.81	420	7	0.03	5	1400	10	<5	<20	36	0.08	<10	113	<10	5	30
79	14579	190	0.2	1.11	<5	50	<5	1.77	<1	16	44	1507	4.21	<10	0.74	334	8	0.03	5	1420	10	<5	<20	45	0.07	<10	104	<10	8	28
80	14580	105	0.2	1.23	<5	55	<5	2.05	<1	15	42	1324	4.64	<10	0.90	476	7	0.03	6	1570	10	<5	<20	56	0.10	<10	141	<10	2	34
81	14581	>1000	1.8	1.53	<5	50	<5	4.05	<1	19	38	5660	5.29	<10	1.36	832	11	0.02	8	1300	20	5	<20	94	0.04	<10	124	<10	5	50
82	14582	130	0.2	1.15	<5	125	<5	2.84	<1	10	43	801	3.01	<10	0.77	576	9	0.04	4	1190	8	<5	<20	76	0.06	<10	94	<10	16	27
83	14583	275	0.4	1.48	<5	50	<5	2.49	<1	25	44	1442	5.13	<10	1.25	652	6	0.03	9	1600	10	<5	<20	70	0.05	<10	122	<10	<1	42
84	14584	130	0.2	1.72	<5	55	<5	3.42	<1	23	36	1146	6.44	<10	1.66	872	7	0.03	11	1720	10	<5	<20	72	0.09	<10	197	<10	<1	52
85	14585	205	0.8	1.11	<5	60	<5	4.18	<1	16	33	1488	4.89	<10	1.39	896	10	0.03	7	1600	6	10	<20	115	0.03	<10	112	<10	6	40
86	14586	225	0.6	1.50	<5	35	<5	2.82	<1	32	33	2222	7.10	<10	1.57	726	18	0.03	10	1470	12	<5	<20	58	0.07	<10	124	<10	<1	43
87	14587	125	0.6	1.50	<5	40	<5	3.76	<1	27	46	1979	6.19	<10	1.56	831	28	0.03	8	1500	10	<5	<20	96	0.05	<10	108	<10	5	40
88	14588	55	0.8	1.01	<5	45	<5	5.48	<1	21	43	1317	5.39	<10	1.57	1027	28	0.03	6	1390	8	15	<20	235	<0.01	<10	77	<10	9	43
89	14589	95	0.8	0.77	<5	50	<5	4.32	<1	23	30	1295	5.16	<10	1.28	852	17	0.02	5	1460	8	10	<20	142	0.02	<10	85	<10	7	40
90	14590	130	0.4	1.33	<5	45	<5	2.79	<1	27	33	1846	5.56	<10	1.21	673	23	0.03	9	1550	12	10	<20	61	0.05	<10	129	<10	4	43

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
91	14591	105	0.2	0.97	<5	65	<5	3.17	<1	17	36	1057	4.26	<10	1.00	696	8	0.03	5	1280	8	10	<20	83	0.04	<10	104	<10	12	42
92	14592	130	0.4	0.90	<5	70	<5	2.64	<1	15	28	1342	3.83	<10	0.79	577	11	0.03	4	1230	8	5	<20	73	0.03	<10	95	<10	11	32
93	14593	45	0.2	0.69	5	65	<5	3.57	<1	18	35	911	3.71	<10	0.88	698	13	0.02	3	1210	6	10	<20	94	0.01	<10	69	<10	15	34
94	14594	150	2.6	0.75	<5	30	<5	3.45	<1	32	28	3092	5.02	<10	1.00	662	37	0.02	2	1220	6	<5	<20	89	0.03	<10	65	<10	9	37
95	14595	165	0.6	1.56	<5	45	<5	2.59	<1	42	62	3080	8.39	<10	1.51	762	24	0.04	8	1420	12	<5	<20	50	0.07	<10	140	<10	<1	48
96	14596	130	0.4	1.38	<5	40	<5	2.56	<1	34	39	2659	6.28	<10	1.25	662	15	0.03	8	1500	10	5	<20	48	0.09	<10	126	<10	<1	41
97	14597	65	0.2	1.06	<5	45	<5	3.73	<1	25	40	1706	7.12	<10	1.37	865	14	0.03	6	1620	16	5	<20	105	0.03	<10	154	<10	<1	47
98	14598	170	0.4	1.41	<5	50	<5	2.91	<1	29	50	2590	8.29	<10	1.49	809	13	0.03	8	1580	6	<5	<20	74	0.04	<10	152	<10	<1	44
99	14599	70	0.2	1.37	<5	50	<5	3.14	<1	27	52	1260	6.53	<10	1.40	788	14	0.03	8	1490	10	5	<20	71	0.05	<10	143	<10	1	42
100	14600	90	0.2	1.50	<5	40	<5	2.77	<1	30	34	1707	7.28	<10	1.44	804	10	0.03	5	1510	10	<5	<20	45	0.05	<10	163	<10	<1	43
101	14601	5	<0.2	0.68	<5	55	<5	2.64	<1	9	52	142	2.68	<10	0.63	501	7	0.03	2	960	6	5	<20	63	0.02	<10	57	<10	19	22
102	14602	5	<0.2	0.50	<5	45	<5	2.58	<1	10	45	225	2.71	<10	0.68	527	8	0.03	1	950	6	10	<20	74	<0.01	<10	50	<10	13	25
103	14603	5	<0.2	0.79	<5	75	<5	2.17	<1	20	51	170	2.89	<10	0.63	471	6	0.03	<1	970	6	5	<20	43	0.04	<10	62	<10	18	23
104	14604	30	<0.2	0.81	<5	50	<5	3.89	<1	32	32	530	3.78	<10	0.95	772	5	0.02	4	1300	8	<5	<20	98	0.02	<10	102	<10	17	34
105	14605	35	<0.2	0.76	5	50	<5	6.07	<1	27	33	767	4.72	<10	1.21	1175	8	0.02	4	1370	2	<5	<20	173	<0.01	<10	76	<10	8	32
106	14606	40	<0.2	1.12	<5	50	<5	4.65	<1	23	30	793	6.16	<10	1.70	1083	18	0.03	8	1630	4	10	<20	180	<0.01	<10	139	<10	<1	43
107	14607	40	<0.2	0.71	<5	45	<5	5.00	<1	18	30	616	4.85	<10	1.36	1007	10	0.02	5	1570	6	10	<20	229	<0.01	<10	58	<10	9	36
108	14608	35	<0.2	1.10	<5	50	<5	4.98	<1	23	37	614	4.98	<10	1.30	955	10	0.02	6	1480	6	10	<20	138	<0.01	<10	94	<10	10	42
109	14609	25	<0.2	1.28	<5	40	<5	3.48	<1	22	35	485	5.64	<10	1.23	778	9	0.03	6	1530	8	<5	<20	66	0.06	<10	155	<10	3	44
110	14610	45	<0.2	1.41	<5	35	<5	4.33	<1	30	32	644	6.06	<10	1.42	1015	9	0.03	6	1610	8	5	<20	71	0.05	<10	149	<10	2	50
111	14611	40	<0.2	1.38	<5	45	<5	2.88	<1	32	32	1056	6.64	<10	1.44	821	10	0.03	9	1620	12	<5	<20	64	0.10	<10	182	<10	<1	50
112	14612	45	<0.2	1.20	<5	45	<5	3.47	<1	25	39	974	6.13	<10	1.39	913	10	0.03	7	1520	6	10	<20	99	0.04	<10	154	<10	<1	46
113	14613	40	<0.2	1.29	<5	40	<5	2.68	<1	29	32	1065	5.70	<10	1.29	782	13	0.03	7	1470	8	15	<20	67	0.04	<10	130	<10	<1	43
114	14614	30	<0.2	1.22	<5	50	<5	2.91	<1	22	31	723	5.90	<10	1.37	791	9	0.02	7	1530	6	10	<20	94	0.03	<10	138	<10	<1	44
115	14615	15	<0.2	1.27	<5	35	<5	2.80	<1	19	22	630	4.90	<10	1.28	548	9	0.02	3	1910	8	5	<20	46	0.04	<10	166	<10	4	47
116	14616	65	0.2	1.27	<5	45	<5	3.27	<1	80	41	1409	7.85	<10	1.43	777	11	0.03	9	1680	10	5	<20	102	0.05	<10	152	<10	<1	50
117	14617	35	<0.2	1.05	<5	60	<5	4.05	<1	22	32	700	5.96	<10	1.42	816	10	0.02	7	1770	10	<5	<20	119	0.02	<10	117	<10	5	49
118	14618	25	<0.2	1.40	<5	60	<5	4.44	<1	24	35	695	6.18	<10	1.46	1045	8	0.03	8	1620	10	5	<20	84	0.03	<10	160	<10	10	55
119	14619	35	<0.2	1.32	<5	60	<5	3.83	<1	24	35	664	5.63	<10	1.45	887	29	0.04	6	1680	10	10	<20	74	0.05	<10	165	<10	6	48
120	14620	25	<0.2	0.48	<5	185	<5	5.45	<1	11	24	394	4.25	<10	1.44	1138	5	0.02	4	1690	2	10	<20	133	<0.01	<10	72	<10	11	45
121	14621	30	<0.2	0.47	<5	60	<5	4.90	<1	22	26	709	5.40	<10	1.48	982	9	0.02	5	1730	<2	10	<20	159	<0.01	<10	56	<10	<1	42
122	14622	30	<0.2	1.60	<5	45	<5	2.51	<1	29	39	788	7.99	<10	1.69	873	11	0.03	9	1790	10	10	<20	70	0.04	<10	183	<10	<1	47
123	14623	70	0.2	0.53	<5	35	<5	4.64	<1	51	34	1024	7.23	<10	1.53	1010	8	0.03	7	1630	2	<5	<20	114	<0.01	<10	113	<10	<1	44
124	14624	90	0.2	0.73	<5	45	<5	4.81	<1	37	32	890	7.57	<10	1.63	1023	14	0.03	6	1640	4	<5	<20	125	<0.01	<10	136	<10	<1	42
125	14625	15	<0.2	2.38	<5	85	<5	5.21	<1	27	201	414	6.22	<10	2.73	1096	8	0.03	67	1630	16	20	<20	118	0.03	<10	151	<10	9	51

CHRISTOPHER JAMES GOLD CORP. ICP CERTIFICATE OF ANALYSIS AK 99-625 ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
126	14626	15	<0.2	1.62	<5	45	<5	3.93	<1	44	33	479	5.45	<10	1.44	835	11	0.03	8	1680	12	5	<20	83	0.04	<10	146	<10	9	40
127	14512A	90	<0.2	1.38	5	30	<5	1.88	<1	31	40	1179	4.93	<10	1.42	460	19	0.03	14	1830	12	5	<20	40	0.05	<10	84	<10	<1	37
QC DATA:																														
Resplit:																														
1	14501	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	14536	295	0.4	1.62	5	50	<5	3.79	<1	39	43	1783	6.07	<10	1.61	742	19	0.02	16	1640	10	5	<20	88	0.10	<10	126	<10	4	41
71	14571	190	<0.2	1.35	<5	40	<5	1.82	<1	18	40	914	5.69	<10	0.91	390	7	0.03	8	1600	10	<5	<20	40	0.07	<10	161	<10	<1	31
106	14606	30	<0.2	1.12	<5	45	<5	4.50	<1	22	38	770	5.94	<10	1.65	1065	18	0.03	9	1630	8	15	<20	171	<0.01	<10	138	<10	2	42
Repeat:																														
1	14501	130	<0.2	1.29	<5	40	<5	2.66	<1	29	48	1343	5.60	<10	1.41	530	8	0.03	15	1490	4	15	<20	42	0.16	<10	123	<10	2	34
10	14510	110	<0.2	1.17	<5	30	<5	2.16	<1	33	40	1554	4.86	<10	1.29	437	20	0.02	12	1490	6	15	<20	30	0.10	<10	96	<10	<1	29
19	14519	50	<0.2	1.34	<5	35	<5	1.55	<1	25	56	888	5.17	<10	1.50	490	10	0.03	17	1820	10	15	<20	25	0.10	<10	130	<10	<1	43
28	14528	-	<0.2	0.94	<5	30	<5	1.56	<1	36	33	1015	4.50	<10	1.00	354	19	0.02	8	1460	6	5	<20	31	0.04	<10	79	<10	<1	29
36	14536	230	<0.2	1.62	5	55	<5	3.78	<1	36	45	1802	5.86	<10	1.60	724	17	0.02	16	1490	8	5	<20	92	0.10	<10	128	<10	3	37
45	14545	115	<0.2	1.44	<5	45	<5	2.31	<1	28	44	1083	4.99	<10	1.38	548	15	0.03	11	1580	8	10	<20	63	0.14	<10	136	<10	16	37
54	14554	20	<0.2	1.58	5	35	<5	2.40	<1	29	51	1216	5.55	<10	1.46	629	21	0.03	13	1660	2	10	<20	63	0.10	<10	121	<10	10	39
71	14571	175	<0.2	1.45	<5	50	<5	1.94	<1	17	46	897	5.65	<10	0.88	385	5	0.04	7	1580	10	5	<20	41	0.15	<10	170	<10	1	31
80	14580	115	<0.2	1.30	<5	55	<5	2.14	<1	16	41	1350	4.78	<10	0.93	491	6	0.03	7	1610	10	<5	<20	57	0.07	<10	138	<10	5	35
89	14589	90	<0.2	0.80	<5	50	<5	4.48	<1	24	32	1335	5.38	<10	1.32	883	17	0.02	6	1540	10	10	<20	152	0.02	<10	91	<10	9	41
106	14606	35	<0.2	1.02	<5	40	<5	4.23	<1	21	27	772	5.83	<10	1.61	985	16	0.03	8	1550	6	5	<20	178	<0.01	<10	130	<10	<1	39
115	14615	20	<0.2	1.29	<5	35	<5	2.82	<1	19	23	635	4.92	<10	1.29	548	8	0.02	2	1890	12	10	<20	47	0.05	<10	170	<10	6	47
Standard:																														
GEO'99		120	1.4	1.76	65	160	5	1.84	<1	20	59	82	3.86	<10	0.96	686	2	0.01	22	670	24	15	<20	55	0.09	<10	75	<10	8	65
GEO'99		135	1.4	1.71	60	165	<5	1.80	<1	20	62	82	3.82	<10	0.98	694	2	0.02	24	660	22	5	<20	60	0.08	<10	76	<10	7	67
GEO'99		125	1.4	1.74	65	155	10	1.82	<1	19	62	88	3.88	<10	0.98	678	3	0.02	22	710	20	10	<20	56	0.10	<10	76	<10	7	71
GEO'99		130	1.2	1.73	65	150	<5	1.86	<1	19	63	88	3.86	<10	0.96	680	2	0.02	25	750	22	10	<20	57	0.10	<10	78	<10	8	71

df/625
XLS/99
cc: ron wells fax @ 372-1012

per ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

KAMLOOPS GEOLOGICAL SERVICES LTD		SUMMARY DRILL LOG: DDH NBZ99-04	
PROPERTY	:BIG KIDD	**OWNER**	: CHRISTOPHER JAMES GOLD CORP.
NTS	:92H/15E	**MINING DIVISION**	: NICOLA MD, BC
CLAIM	:HALO 100	**LINE/STATION**	: 11610N:23585E
GRID	:BIG KIDD-BIG SIOUX	**INCLINATION AT COLLAR**	: -55
CASING	:3.66M	**AZIMUTH**	: 210^0 SSW
LENGTH	:270.66M	**ACID TESTS**	: @91.00M -55; @270M -55
LOGGED BY	:Ronald Wells P.Geo., FGAC	**DRILLED BY**	: CORE ENTERPRISES LTD
DATE	:25/10/99 to 31/10/99	**DATES**	: 3/10/99 TO 8/10/99
CORE LOCATION:	AMEX, KAMLOOPS	**CORE SIZE**	: NQ

PURPOSE OF THE HOLE:

This hole was drilled from the northeastern edge of the Big Kidd breccia pipe inwards. It was the first step-out hole drilled on a parallel SSW section 47 metres east of holes NBZ99-01 to 03.

R.C. Wells, P.Geo, FGAC, Kamloops Geological Services Ltd.

NORTH BRECCIA ZONE. *DIAMOND DRILL LOG* BIG KIDD PROPERTY

DDH.NBZ99-04 Page No.1

LITHOLOGY		ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA				
MAIN UNITS	SUB UNITS							Sample No.	From	To	Cu ppm	Au ppb
0-3.66 Casing	Sandy overburden and Talus											
3.66-12.53 Crowded Plagioclase Porphyry-Monzonite Dyke (potassic)	3.66-5.80 Rubbly core recovery light-medium green, crowded plagioclase porphyry-Monzonite. Weak/mod. magnetic	oxidized fractures. Non carbonated		Rubbly recovery many low angle fractures 10-30°CA	Fine pyritic veinlets along low angle fractures strong oxidation below 6.5m.	1-2	–	14651	4.50	5.80	869	550
	5.80-12.53 Light green, crowded plagioclase porphyry-monzonite. >70% tabular plagioclase 1-3mm with local crude flow alignment. Fine groundmass with significant K. feldspar. Local subrounded xenoliths some >10cm dark m/c grained mafic hornblende hornfels MV	Alteration is mainly veinlet related, weak carbonate selvages. Background K feldspar primary in large part.		Crude flow alignment 60°CA. Low density of fine carbonate veinlets local qtz. Both at low & high angles CA. Some have narrow bleached selvages local Py veinlets	Both fine dissem. and veinlet Py some fine Py in qtz and carb. veinlets.	Tr-2	Tr	14652	5.80	9.10	520	275
						Tr-2	Tr	14653	9.10	12.53	646	205
12.53-29.42 Mafic Volcanics-Hornfels. Medium green, fine grained Trachyandesite-basalt rich in K. feldspar. Moderate to strong magnetic.	12.53-14.00 Mixed zone of green meta-andesite, basalt with narrow crowded feldspar porphyry dykes, strong Py.	Mod becoming weak magnetic downward some strong magnetic pyritic sections Local patchy bleaching. Non carbonated		High angle CA contact Local fine epid ± carb veinlets 60-70 CA	Patchy fine-med grained dissem Py ± Mgt coarse Py-Mgt veinlets	4-5	Tr	14654	12.53	14.00	373	215
	14.00-17.57 Med. green, fine grained trachy-andesite/basalt mod. magnetic. Patchy textures -basic hornfels. Short weakly brecciated sections, strong alt, magnetic	Significant amounts of fine background K. feldspar. Non to weak carbonated. Ep veinlets local stockworks with more pervasive Ep. alteration ep 16.80-17.10.		To 15.50 Numerous Py veinlets high angle CA. Some 70-90CA Carb-Py-Mgt veinlets and Mgt only veinlets. Ep±carb vts	Generally fine Py local Mgt veinlets to 15.50. Below mainly carb-epid veinlets ± fine Py and Mgt	2-3	Tr	14655	14.00	15.60	832	190
						Tr-2	Tr-1	14656	15.60	17.57	2678	900
	17.57-20.90 Green fine grained mod. magnetic trachyandesite with brecciated sections. Altered Py-Mgt mineralized matrix, some dioritic matrix	There are magnetic hornfels. Crackle to weak mosaic breccias are altered with epidote clots to 1cm. Some pink K. feld. Dk. Chl, Py, Mgt		To 18.30 numerous 40°CA Py veinlets Below low density of epid veinlets 40-50°CA	Veinlet Py at top Bx has fine to coarse matrix Py, Mgt.	2-3	Tr-1	14657	17.57	19.00	2049	720
						2-4	Tr	14658	19.00	20.90	995	190
	20.90-23.12 Med. to dark green more massive trachyandesite. Fine grained, mod. magnetic hornfels Patchy epidote.	Fine grained epidote patches, veinlets with selvages. Weak pervasive carbonate with or without epidote		Low to mod density 40-50°CA ep. veinlets some 40°CA fine carbonate veinlets	Local 60-90°CA Py veinlets less than 5mm wide.	1-2	Tr	14659	20.90	23.12	582	70
	23.12-25.90 medium to dark green weakly brecciated trachyandesite mod to local strong magnetic 'hornfels'. More bx sections altered+Py, Mgt	Massive sections are v. weak carbonated with local ep patches. Weak mosaic breccias are more carbonated with epid, Py, Mgt.		Variety of vein types at variable angles CA generally fine. Ep-Py, carb±epid±Py, Py±Mgt	Veins and matrix Py minor Mgt, cpy. General fine/med grained, local coarse	2-3	Tr	14660	23.12	25.90	1045	315
	25.90-29.42 Weak to well developed mosaic breccia in trachyandesite. Minor intrusive matrix weak to strong magnetic 27-[illegible] coarse Py Mgt	Weak to mod. patchy pervasive carbonate mainly in matrix to bx. Fine to med. epid. Local clots in matrix		Outside of Py-Mgt breccia low/med density of 50-60° carb vein, v.fine Py.	Coarse Mgt-Py in mosaic bx. Other breccia has f/m matrix Py patches and veinlets	3-5	Tr	14661	25.90	27.36	309	115
						1-2	Tr	14662	27.36	29.42	602	95
29.42-34.12 Monolithic to weak Heterolithic (Bimodal) Intrusive Breccia.	29.42-32.[illegible] Mosaic to matrix supported fine clast breccia with more massive sections vague textures - due to alteration. Subangular clasts.	Weak to moderate pervasive carbonate in matrix. Patchy K. feldspar. Small epid. clots are quite common. Some K.f. veins		Sparse fine carbonate veinlets subparallel to 40°CA.	Small patches of fine Py in matrix local v.fine Cpy. Minor Py veinlets, Local m/c matrix Mgt	2-3	Tr	14663	29.42	30.50	1829	425

KAMLOOPS GEOLOGICAL SERVICES LTD. LOGGED BY Ric Wells DATE 25 October 99.

DDH.NBZ99-04

LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb	m
Predominantly mafic metavolcanic (hornfels) clasts, some diorite.	brachyandesite dominates with local pink crowded plagioclase porphyry. variable weak-strong magnetic					2-3	Tr	14664	30.50	32.77	456	120	30
	32.77-34.12 Section of more massive green brachyandesite. Local crackle breccia. Patchy epid. Mod. magnetic	Patchy pervasive fine grained epidote and as veinlets. Non carbonated		Low density of epidote ± carbonate veinlets some Mgt veins. 40-50°CA	V. minor fine dissem. and veinlet Py	Tr-1	—	14665	32.77	34.12	761	75	
34.12-60.55 Heterolithic Intrusion Breccia. Mixed mafic metavolcanic, pink to grey monzonite clasts Subangular to subrounded Variably altered dioritic matrix. Variably magnetic.	34.12-41.05 Fine to medium clast, heterolithic breccia. Matrix to weak clast supported. Variable proportions of grey to pink monzonite and green mafic MV. clasts. Some Monz. clasts to 60cm dia. Vague textures in f/m. grained dioritic matrix. Mod. magnetic	Non to weak carbonated matrix weak patchy epidote generally fine grained local clots to 1cm. in matrix areas. Weak to mod. patchy pervasive (matrix) K.feld. local clast rims.		Low density of fine carbonate ± epidote veinlets 30-70°CA.	Patchy fine to med. grained dissem matrix Py commonly in patches Coarse Py with magnetite in vein like zones upto 2cm wide between monzonite clasts. Local Mgt	2-6	Tr	14666	34.12	36.50	1130	160	
						1-3	Tr	14667	36.50	39.01	1009	205	
						1-2	Tr	14668	39.01	41.05	2521	1320	40
	41.05-46.46 As above, fine to med clast heterolithic breccia Predominantly weak clast supported variably altered matrix, less potassic (K.feld) than above. Weak to local strong magnetic.	Non to very weak carbonated Local weak matrix epidote and K.feldspar - patchy.		As above low density of epidote ± carbonate veinlets Some subparallel carb-Py veinlets	Fine to med. grained dissem. matrix Py local clusters. Some med/coarse Py + Mgt with epid, K.feld, albite?	2-3	Tr	14669	41.05	43.05	1004	1800	
						2-3	Tr	14670	43.05	45.05	1132	590	
						1	—	14671	45.05	46.46	525	115	
	46.46-49.27 Fine clast heterolithic breccia. matrix supported. More monzonite than mafic MV clasts most are angular. Alt. diorite matrix	Mod. to strong K. feldspar in matrix - patchy. weak patchy pervasive matrix carb. Sparse epidote. M/c dissem matrix Mgt		sparse high angle CA. carbonate ± epidote veinlets.	Predominantly fine some med. dissem Py in matrix Local clusters fine Cpy.	2-3	Tr	14672	46.46	49.27	789	190	
	49.27-51.48 As above but weaker K.feldspar, local bleaching + carbonate with depth. ↓ magnetic down	weak to mod/strong pervasive carbonate downwards. K. feldspar decreases down weak spotty epidote		@ 50.57 and 51.21m 2-3cm wide 30-70°CA carb veins, chl. selvages mod. density of fine carb veinlets [illegible]	Patchy fine, local med. grained Py. clusters common to 2cm. Local Mgt	4-5	Tr	14673	49.27	51.21	926	185	50
	51.48-54.10 Section is dominated by large green mafic MV. clasts >1m. Some interstitial fine heterolithic breccia, minor matrix	Mod. magnetic with patchy fine epidote. V. weak patchy pervasive carbonate outside of veinlet areas. Matrix hosts most epid, carb, K.feld.		Mod. density of 3-70°CA carb veinlets fewer epid. veinlets Local Py.	Dissem fine matrix Py elsewhere fine Py veinlets variable angles CA	1-2	Tr	14674	51.21	54.10	1423	325	
	54.10-57.95 Medium to fine clast, clast to weak matrix supported breccia. Green mafic MV. clasts dominate. Smaller Monzonite clasts. Strong alt. matrix	Mafic MV. clasts - hornfels with patchy epid., weak-non carbonated. Matrix has variable epid, K.feld, w/m carb Local Mgt.		weak local mod density of 40-60° carb veinlets ± epid some band to 1.5cm wide.	Sparse matrix fine & local med. grained dissem Py	1-2	—	14675	54.10	56.00	1057	245	
						1-2	—	14676	56.00	57.95	339	20	
	57.95-60.55 Matrix supported to crowded clast supported. fine/med clast - heterolithic as above. M/S magnetic. variably alt. matrix	weak to non carbonated, spotty epidote. Local w/m K.feldspar in matrix.		Low density of V.fine epidote ± carb veinlets variable angles CA. Some Py Vts.	Deceptive amounts of v.fine dissem matrix Py, local aggregates.	2-3	Tr	14677	57.95	59.50	312	20	
						3-6	Tr	14678	59.50	60.55	291	35	60

DDH.NBZ99-04

LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
60.55-121.94 Plagioclase (Hornblende) Porphyry Dykes. Local crowded Plagioclase Porphyry. Much groundmass K. feldspar - Potassic Monzonites. Small mafic often magnetic xenoliths <5cm Moderately magnetic	60.55-62.03 pink-green crowded feldspar porphyry. Textures overprinted by alt. + veining. Mod. magnetic	saussuritized plagioclase. widespread weak brecciation + K.feld		irregular upper contact 80°CA. K.feld. fine carb, ep + Py veinlets	V. fine Py at contact local fine Py veinlets.	1-2	–	14679	60.55	62.03	1640	190
	62.03-64.35 Light green crowded plagioclase > hornblende porphyry variable fine K. feldspar rich groundmass. Small angular xenoliths to 1cm.	K. feld veining - alt. decreases downwards. Mod. magnetic throughout, non carbonated.		weak-mod density fine ep-carb veinlets 30-35° CA. @ 63.6-63.6 several qtz-carb veins	Fine to very fine dissem. local veinlet Py Mainly near top.	1-2	–	14680	62.03	64.35	1593	155
	64.35-69.95 Light green to greenish grey, predominantly med. grained. Tabular hornblende upto 4mm and saussuritized plagioclase. K.feld rich fine groundmass. Subangular mafic xenoliths 1-3cm.	Non carbonated outside of veinlet/vein areas. V. weak pervasive epidote - saussurite 65.70-66.50 Pervasive w/m. carb in wallrocks to veins		Mod density of v. fine to fine carb. ± epid. veinlets variable angles CA @65.80-66.10 qtz > carb vein stockwork fine grained chl [illegible]	Sparse v. fine dissem Py outside of qtz veins The qtz - stockwork has local clusters of fine dissem. Py.	Tr-1	–	NS				
								14681	65.70	66.45	1404	215
								NS				
	69.95-73.34 Hornblende Porphyry with plagioclase microphenocrysts. More fine groundmass than above patchy epidote and K.feld. alt. weak magnetic, local mafic xenoliths	Patchy weak local moderate epidote and K. feldspar alt. Non carbonated.		weak - moderate density of epidote veinlets. Some Py 10-40°CA. Local K.feld veinlets higher [illegible]	Mainly fine Py veinlets with or without epid.	1-2	Tr	14682	69.95	72.00	1625	135
						1-2	Tr	14683	72.00	73.34	1826	125
	73.34-81.23 Pink, crowded plagioclase porphyry minor hornblende, significant groundmass K. feldspar. Tabular plagioclase with local flow alignment [illegible] Mafic volcanic xenoliths subangular to subrounded to 8cm Local fine to coarse magnetite.	Patchy weak pervasive carb. Both plagioclase and hornblende are altered. Primary groundmass K. feldspar Mod. magnetic.		Sharp contact [illegible] Low to moderate density of fine carb. veinlets 30-80°CA. Rare fine Py veinlets	Sparse v. fine dissem, local veinlet Py Some fine Cpy stringers near upper contact. Local high angle chloritic veinlets specks of Cpy	1	Tr	14684	73.34	75.34	320	15
						1	Tr	14685	75.34	77.34	1929	120
						Tr-1	Tr	14686	77.34	80.00	2613	190
	81.23-92.25 Grey to pink grey, crowded plagioclase porphyry as above Groundmass K. feldspar is weaker than above. Several subrounded to subangular mafic xenoliths to 15cm dia. per/m. Commonly 1-3cm.	Non to patchy weak pervasive carb. w/m magnetic magnetite follow K. feldsp. Both primary and secondary K. feld? Saussuritic to Chloritized plagioclase Local epid selvages to veinlets.		Non to poor alignment of phenocrysts. Low density of 60-80°CA epidote veinlets fewer carbonate, 40-50°CA. @87.80-88.12 qtz-carb veining veins upto 10cm @ 60°CA. Weak broken with dark chl. [illegible] as small patches	Sparse very fine disseminated Py.	Tr-1	Tr	NS				
								14687	84.00	85.00	1145	115
								NS				
								14688	87.20	89.20	1839	135
								NS				

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LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
	98.25-101.60 Pinkish grey as above not as crowded, saussuritized plagioclase. Local chloritized. Minor chloritized hornblende 1-3mm. Generally weak magnetic local moderate. No flow alignment of phenocrysts. Local cm scale altered mafic xenoliths. Subangular to subrounded	Variable very weak to moderate patchy pervasive carbonate. Variable weak to m/s background K. feldspar - primary ± secondary? saussuritized plagioclase common. Local fine grained epidote in vein selvages.		Low density of fine epid, carb veinlets, variable angles CA. Some veins to 5mm 20-30°CA. @100.75-100.87 zone of white carb. and glossy qtz veins 90°CA	V. sparse, V. fine disseminated Py.	Tr-1	Tr	NS				
								14689	94.30	95.30	2003	125
								NS				
								14690	100.00	101.00	828	75
	101.60-106.45 As above - med. pink. Altered plagioclase, minor hbl. fairly crowded. Local subangular mafic xenoliths to 8cm most are 1cm. More crowded porphyry.	Moderate background K-feldspar. Generally v. weak pervasive carbonate. Epidote veinlets and vein selvages upto 2cm wide. Moderate magnetic throughout.		Low to moderate density of epidote - carbonate veinlets most are 40°-60°CA	As above			NS				
								14691	104.06	105.06	1442	140
								NS				
	106.45-109.0 Crowded fine plag. porphyry. Mottled green to pinkish. Small altered xenoliths and Mgt? 3-5% tabular hbl. to 5mm. Mod. Magnetic	Non to weak patchy carbonate. Weak K. feldspar increasing downwards. Local ep, K. feld-Mgt patches		Many veinlets and patches 40°-60°CA epid-carb. Phenocryst alignment 50°CA.	M/c dissem. magnetite with K. Feld. alt. Fine dissem Py close to contact.	Tr	–	14692	106.45	108.00	731	75
						1-2	Tr	14693	108.00	109.00	677	65
109.00-122.95 Heterolithic Intrusion Breccia.	109.0-111.60 Fine to med. clast mixed mafic metavolcanic and monzonite. Some dyke? Matrix supported. Alt. dioritic. Wk-m Magnetic	K. feldspar alteration strong at contact - pervasive grading downwards to K. feld. rims to clasts. Epid clots		Contact 40°CA uneven. Variety of fine epid, carb and Py veinlets 30°-60°CA	V. fine to fine dissem. and veinlet Py and Cpy in matrix. Some coarse Py aggregates + Cpy.	3-5	Tr-1	14694	109.00	110.00	1371	75
						3-5	Tr-1	14695	110.00	111.60	821	60
	111.60-114.12 As above. Some coarse mafic MV clasts near bottom. Vague textures. Weak-moderate magnetic. Alt. dioritic matrix. Mod. Mag.	Weak K. feldspar, moderate pervasive matrix carbonate. Stronger @113.0-114.12 in vein area. Local hematite.		Low-mod. fine carb veinlet density to 113.0. 113-114.12 50°CA banding, qtz + carb veins + chlorite	Fine-med grained dissem. and veinlet Py above. Local selvage Py below.	3-5	Tr	14696	111.60	113.00	960	75
						1-2	Tr	14697	113.00	114.12	972	120
	114.12-120.32 Fine to medium clast, mixed mafic MV. and monzonite. Intrusive matrix supported. Vague textures due to alt. Non to weak magnetic	Non to patchy weak carbonate. Patchy weak matrix K. feld. 5-8% matrix epidote clots throughout.		Low to moderate density of fine carbonate, pyrite and local Cpy veinlets at variable angles CA. Many 30-60°CA	Fine locally med. grained disseminated Py. Local fine Cpy also both in veinlets at variable angles CA.	3-5	Tr	14698	114.12	116.12	1263	90
						3-4	Tr	14699	116.12	118.12	989	55
						3-5	Tr	14700	118.12	120.32	1186	70
Dyke	120.32-121.04 Plagioclase Hornblende Porphyry	Epidote veinlets with broad selvages upto 10cm wide ep+carb		High density of epid. Some K. feldspar								

DDH.NBZ99-04

LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb
Dyke	see Pg 4. Local dark mafic xenoliths to 1cm. Mod. magnetic	20% of dyke. Some associated fine K.feldspar alt. Non carb.		veins and bands many 50°CA	Sparse fine dissem. Py.	Tr	-	14701	120.32	121.04	1300	70
Heterolithic intrusion Breccia	121.04-122.95 Predominantly fine crowded breccia intrusive matrix vague textures w/m. magnetic	Non to weak matrix carbonate patchy w/m K.feldspar. Local matrix epid clots.		← contact 40°CA. Local fine epid veinlets, fine Py, some Cpy	Fine to med. dissem Py local v. fine Cpy.	3-5	Tr	14702	121.04	122.95	1793	130
122.95-124.36 Porphyritic Potassic Monzonite Dyke	Plagioclase-Hornblende potassic monzonite dyke. K.feldspar groundmass moderate v magnetic	Primary and secondary (veinlet) K.feld. Local epid clots. Non carb. 40°CA contacts		Local fine epidote veinlets also fine Py some Cpy high angles	Local fine Py and Cpy veinlets.	1-3	Tr-1	14703	122.95	124.36	2936	245
124.36-137.65 Heterolithic Intrusion Breccias	124.36-131.40 Fine to medium clast heterolithic breccia - matrix supported subangular clasts. Vague textures due to alteration. Mixed green mafic MV. and pink to grey monzonite clasts. Variable weak to mod. magnetic. Max clast size 20-25cm	variable weak-moderate pervasive matrix carbonate. Patchy weak local moderate K. feldspar. 2-4% matrix epidote clots generally small dark green to black chlorite patches - after magnetite.		sparse fine carb veinlets, local fine Py veinlets possibly v fine Cpy at variable angles CA. Larger are at 20-30°CA.	Disseminated after patchy matrix Py. Fine local med grained. Some assoc. with dark chlorite. Widespread fine, v.fine dissem Cpy. Local fine Py veinlets some Cpy.	3-5	Tr	14704	124.36	127.00	563	40
								14705	127.00	129.50	267	25
								14706	129.50	131.40	142	90
	131.40-137.65 Fine to med. clast breccia as above textures are strongly overprinted by alt. Majority of clasts appear to be monzonitic pink or grey matrix med grained textures - vague weak local mod. magnetic.	Moderate pervasive carbonate matrix and many clasts. weak to moderate pervasive matrix K. feldspar widespread, patchy matrix bleaching - not all is carbonate some alb? irregular 2-4mm chl. aggregates		General low local mod density of fine carbonate veinlets most are 60-70°CA others are 20-30°CA. 90° contact	Fine to medium matrix Py often in clusters to usually <1cm local fine Cpy. Some 10-30° CA Py veinlets	3-5	Tr	14707	131.40	134.00	305	15
								14708	134.00	136.00	312	10
								14709	136.00	137.65	1646	240
137.65-138.65 Plagioclase-Hornblende Potassic Monzonite Dyke	Pinkish green crowded plagioclase laths, < 3% tabular hbl. Small xenoliths	Non carbonated - much primary K.feld weak veinlet epidote.		weak-mod density epid-carb veinlets 50°CA	Sparse v.fine dissem. Cpy.	Tr-3	Tr	14710	137.65	139.60	513	100
138.65-190.67 Heterolithic Intrusion Breccias.	138.65-141.68 Predominantly fine clast, intrusive matrix supported breccia. Rare pink Monzonite clasts 20cm most are <10cm Altered dioritic matrix good to vague textures General weak spotty Moderate magnetic.	weak to moderate pervasive carbonate. Patchy weak matrix K. feldspar. 2-4% epidote clots in matrix to 1cm. Local pervasive patches of fine epidote upto 10cm.		90°CA contact. Low to mod. density of fine carbonate ± epid veinlets 30-60°CA.	General fine dissem local aggregates of Py. Rare high angle CA 70-80°CA Py veinlets. Fine Py forms distinct patches in matrix 1cm size.	3-4	Tr	14711	139.60	141.68	428	30
						3-5	Tr	14712	141.68	144.00	493	45
						3-5	Tr	14713	144.00	146.00	554	30
						3-6	Tr	14714	146.00	148.00	445	25
						3-7	Tr	14715	148.00	150.00	623	25

NORTH BRECCIA ZONE. DIAMOND DRILL LOG BIG KIDD PROPERTY

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LITHOLOGY – MAIN UNITS	LITHOLOGY – SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	Sample No.	From	To	Cu ppm	Au ppb	m
	See Pg 5.					3-7	Tr	14716	150.00	152.00	904	390	150
						3-5	Tr	14717	152.00	153.29	227	20	
	153.29-158.27 Predominantly fine clast, intrusive matrix supported. High volume of matrix 30-40%. Mixture of clast lithologies - mafic MV., monzonite. Alt. med. grained matrix local good diorite textures though usually overprinted.	Patchy weak pervasive to local moderate matrix carbonate. K. feldspar is generally weak local moderate in finer matrix rich areas. 2-5% matrix epid. clots upto 1cm. Some larger patches		low density of very fine epid veinlets often 50-60°CA. Some carb veinlets - fine irregular	Fine local med grained dissem Py in matrix local clusters upto 2cm. fine Cpy in some areas. Rare Py veinlets	3-5	Tr-1	14718	153.29	156.00	172	10	
						3-6	Tr-1	14719	156.00	158.27	668	20	
	158.27-164.65 Mixed fine to med some coarse clast breccia, heterolithic supported by alt. dioritic matrix as above. Many clasts have narrow k. feld. alt. rims. Dissem M/c magnetite. Variable commonly mod. magnetic	General weak local moderate patchy pervasive matrix carb. 3-4% matrix epid. clots. weak - mod. very localized matrix and clast rim k. feld.		Low density of fine epidote. Some carbonate veinlets most are 50-80°CA. A few lower angle 20-35°CA	Fine - med grained dissem. matrix Py commonly as clusters - aggregates. Coarser Py + Mgt aggregates some with associated epid. Local specks Cpy	2-3	Tr	14720	158.27	160.00	2377	65	160
						3-4	Tr	14721	160.00	162.40	2056	60	
						3-4	Tr	14722	162.40	164.65	1078	50	
	164.65-175.90 As above mixed fine, med, coarse clast bx. Intrusive matrix supported. Very similar to above but less obvious k. feldspar, more matrix epidote clots 4-7%. Large porphyritic monzonite clast 169.56-170.42. Mainly subangular clasts, larger are subrounded.	As above less k. feldspar rare clast rims. More epidote clots in matrix. K. feldspar alteration is slightly stronger at end of section a few clast rims, patchy matrix.		As above. @173.55 Banded carbonate with chlorite vein 2cm wide 45°CA	Fine-med grained dissem. Py in matrix as above. Coarse magnetite-Py aggregates are rare. Local fine 40° Py veinlets	3-4	Tr	14723	164.65	167.00	1243	40	
						3-5	Tr	14724	167.00	169.00	1345	60	
						Tr-3	Tr	14725	169.00	170.50	1643	60	170
						3-4	Tr	14726	170.50	172.50	380	80	
						3-4	Tr	14727	172.50	174.50	1451	135	
						3-6	Tr	14728	174.50	175.90	518	235	
	175.90-181.07 More crowded fine-medium clast breccia. Clast to weak matrix supported. Less matrix than above. More mafic MV. than diorite clasts. Vague matrix textures - fine grained, mod magnetic	Patchy weak local moderate pervasive matrix carbonate. 4-6% matrix epidote clots and patches. Weak-moderate patchy matrix k. feldspar.		Hairline epidote and carbonate veinlets throughout low/mod. density. Local stronger epid veining some pervasive bands	Fine to local med grained dissem. matrix Py decreases downwards	3-5	Tr	14729	175.90	178.00	1470	220	
						2-4	Tr	14730	178.00	180.00	956	120	180

KAMLOOPS GEOLOGICAL SERVICES LTD. LOGGED BY K. Lilly DATE 28 Oct 1999.

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LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA: Sample No.	From	To	Cu ppm	Au ppb	m
				Several cm in width local 70-80°CA Py veins		1-2	-	14731	180.00	181.07	427	130	180
	181.07-190.67 Predominantly fine clast - subangular and matrix rich breccia with local medium to coarse more rounded monzonite clasts. Smaller clasts are mixed mafic MV. and pink monzonite matrix is generally altered commonly fine grained. Mod. magnetic. Matrix textures become more med grained-intrusive below 188m still alt.	Non to patchy moderate pervasive carbonate in matrix. Generally small matrix epidote clots. K. feldspar is very localized as small matrix patches. Significant amounts of fine disseminated matrix chlorite. An increase in K feldspar occurs below 188 - patchy weak.		Moderate density of fine epidote, carbonate, local hematite-carbonate veinlets many 35-55°CA @187.23 two to three adjacent med-coarse carb. veins 40° CA.	Generally fine grained patchy dissem. Py in matrix. Some matrix rich sections are notably Py poor. A high angle M/C grained Py vein cuts large pink monzonite clast.	2-3	Tr	14732	181.07	184.00	795	30	
						1-3	Tr	14733	184.00	187.00	74	115	
						2-4	Tr	14734	187.00	189.00	1554	140	
						2-4	Tr-1	14735	189.00	190.67	482	315	190
190.67-194.90 Crowded Plagioclase Porphyry Dyke Potassic Monzonite.	Fine K. feldspar rich groundmass. Light-med. green fine-medium grained plagioclase (rich) Local 1-2cm partially assimilated xenoliths (mafic). No Hornblende. Mod magnetic	Non carbonated. Much groundmass K. feldspar. Also local veins-bands. Minor veinlet related epidote		40°CA contact. Low density of fine epidote veinlets 50-60° CA. Local subparallel CA. Py veinlets 90°CA contact.	V. fine to fine disseminated Py local aggregates.	1-2	-	14736	190.67	192.67	1565	710	
						1-2	-	14737	192.67	194.90	1414	310	
194.90-244.70 Heterolithic Intrusion Breccias.	194.90-202.50 Fairly crowded medium-fine clast heterolithic breccia. mixed angular to subrounded clasts. Monzonite and green mafic MV. Fine to local medium grained matrix some of which appears to be altered intrusive. W/m magnetic	Patchy weak to moderate matrix K. feldspar. Weak epidote, few matrix clots mainly veinlets. Non to weak patchy matrix carbonate.		Mod. density of veinlets and narrow veins 50-60°CA widespread hairline ep. veinlets ± carb. Local 2-3cm carb, qtz-carb. veins some with druse, local Py, variable angles	Fine disseminated Py-matrix clusters. F/m grained Py veinlets, veins, lenses variable angles CA. Local fine Cpy.	3-4	Tr	14738	194.90	197.00	782	120	
						3-5	Tr	14739	197.00	199.00	788	140	
						3-4	Tr	14740	199.00	201.00	1226	70	200
						2-3	Tr	14741	201.00	202.50	731	235	
	202.50-209.71 Fine clast-matrix supported heterolithic intrusion breccia. Up to 40% altered fine to medium grained intrusive matrix. Same clast types as above. Weak-moderate magnetic	Patchy weak to moderate matrix K. feldspar. Non to weak/mod. matrix carbonate. Patchy fine grained weak pervasive epidote. @204.60-205.13 Strong bleached zone - fine grained carbonate with milky qtz veins dissem Py some epid.		General low density of v-fine to fine carb. and epidote veinlets low angles. Local qtz carb veinlets 10-30°CA ↑ downwards. Rare Py veinlets	Patchy fine dissem. matrix Py often in clusters. Local small med. grained Py aggregates.	2-4	Tr	14742	202.50	205.00	1072	255	
						2-3	Tr	14743	205.00	207.50	706	85	
						2-5	Tr	14744	207.50	209.70	1042	145	
	209.71-210.95 As above strong bleaching.	Bands of bleaching - pervasive carb. + albite? Weak pervasive K. feldspar		Numerous carbonate local qtz carb veinlets	Fine Py form cm. scale patches, dissem.	3-7	Tr	14745	209.70	210.95	983	70	210

KAMLOOPS GEOLOGICAL SERVICES LTD.

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DATE 28/29.Oct.1999.

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LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA: Sample No.	From	To	Cu ppm	Au ppb
	210.95 - 219.33 Mixed medium and fine clast heterolithic breccia. Angular to subrounded mafic MV and monzonite clasts. Altered fine to medium grained intrusive? matrix. Matrix to weak clast supported. Non to mod. magnetic	Variable weak to moderate pervasive matrix carbonate, some clasts. Patchy bleaching as above to 213m. Weak epidote-rare clots. K. feldspar in matrix is patchy weak. Below 217.0m moderate pervasive matrix K. feldspar.		Low density of 40-50°CA carb. veinlets @112.45 10cm zone of narrow qtz-carb and carb veins 70°CA chloritic partings @116.75 coarse carb. chl vein 30°CA 1cm wide	Fine, local med. grained dissem. Py commonly matrix clusters and aggregates upto 2cm. Some fine generally irregular Py veinlets. Local high angle 60-90° CA Py veinlets below 217	3-5	Tr	14746	210.95	213.00	985	150
						4-6	Tr	14747	213.00	215.50	381	370
						2-4	Tr	14748	215.50	217.50	1003	215
						2-4	Tr	14749	217.50	219.33	1105	225
	219.33 - 222.05 Strong bleached zone obscuring original textures. Chloritic veinlets and aggregates.	Pervasive weak-moderate carbonate, fairly hard areas - albite? Dark chloritic patches to 6mm locally after magnetite?		Many carbonate minor qtz veinlets. Some chlorite-clay partings 60-80°CA.	Patches and dissem fine to v. fine Py. Local clusters of fine Cpy	2-5	Tr-1	14750	219.33	222.05	573	65
	222.05 - 227.48 Very fine to fine clast heterolithic breccia. Matrix supported to dominated >50% matrix does not appear to be intrusive rather alt/fine grained ash?	Vague textures due to alteration. Weak to moderate pervasive matrix carbonate. Local weak K. feldspar.		Weak to moderate fine to v. fine veinlets many 40-60°CA. Most are carbonate ± epid minor Py veinlets.	fine to v. fine dissem Py local clusters. Larger Py veinlets and lensy aggregates - med. grained.	2-4	Tr	06560	222.05	224.50	1095	420
						2-4	Tr	06561	224.50	227.48	794	455
	227.48 - 228.87 Strong banding and bleaching 50°CA irregular vein zones local vein breccias.	bleached - carbonated plus albite? Local dark chloritic patches some weak pervasive K. feldspar patches.		50° banding and irregular carb vein breccia zones	Both fine disseminated local veinlet/lens Py (late)	2-4	Tr	06562	227.48	228.87	1100	225
	228.87 - 233.88 Mixed fine, med. clast heterolithic breccia. Matrix to weak clast supported. Angular to rounded clasts rarely >12cm dia. Matrix is fine-med. grained and altered.	Patchy K. feldspar and albite - carbonate bleaching. Highly variable and patchy pervasive carbonate (non to mod. strong) some with K. feldspar. Local chl. partings.		Several qtz-carb veins 30-40°CA upto 1.5cm wide, white carb. selvages of dk green chl. Some vein bx. mod density of fine carb veinlets	Both fine dissem. and lensy tensional Py veinlets. Small clusters of fine dissem. Py. Local Py. v.	2-3	Tr	06563	228.87	231.40	858	80
						2-3	Tr	06564	231.40	233.88	658	120
	233.88 - 244.70 As above but clast to weak matrix supported. Matrix is fine-med. grained altered dioritic - intrusive? An apparent ↑ in matrix K. feldspar + pyrite downwards towards dyke contact. Clasts rarely >15cm mixed monzonite, mafic MV.	Patchy weak-mod pervasive matrix carbonate. Patchy pervasive epidote above 236m ↓ downwards. K. feldspar is weak patchy - becoming mod. patchy downwards esp below 240m. Epidote clots follow this trend (matrix).		Weak-mod. fine carbonate, local epid. veinlets above 239m. Below fewer veinlets - hairline carb. veinlets. Rare fine Py veinlets 70-90°CA mainly near top.	Patchy fine dissem matrix Py commonly in clusters. ↑ in Py content downwards also local fine Cpy	2-5	Tr	06565	233.88	236.00	156	20
						2-4	Tr	06566	236.00	238.00	477	100
						3-6	Tr	06567	238.00	240.00	495	80

NORTH BRECCIA ZONE. DIAMOND DRILL LOG BIG KIDD PROPERTY

DDH.NBZ99-04

LITHOLOGY: MAIN UNITS	LITHOLOGY: SUB UNITS	ALTERATION	G.L.	STRUCTURE	MINERALIZATION	%Py	%Cpy	SAMPLING DATA: Sample No.	From	To	Cu ppm	Au ppb
	See Pg. 8.					3-5	Tr	06568	240.00	242.50	1214	185
						4-6	Tr	06569	242.50	244.70	1630	235
244.70-246.17 Crowded Plagioclase Porphyry Dyke - Potassic Monzonite	Crowded plagioclase laths 1-4mm in fine K.feldspar rich groundmass Local subrounded mafic xenoliths upto 10cm	Carbonate altered vein selvages + weak pervasive groundmass.		Contact 90° CA flow alignment 90°CA fine epid-carb veinlets	Fine to med. grained dissem Py. Local clusters more abundant near contacts	3-4	—	06570	244.70	246.17	63	35
246.17-270.66 EOH. Potassic Altered Heterolithic Intrusion Breccia. Mixed monzonite and green mafic metavolcanic clasts. Matrix to clast supported. Fine to medium grained matrix commonly altered - vague textures appears to be dioritic in part.	246.17-248.45 Predominantly fine clasts matrix supported. Local ?40% matrix-intrusive? Mod magnetic	weak patchy pervasive matrix carb. Local weak epid patches + selvages Patchy weak/mod matrix K. feld.		A few 10-30°CA epidote veinlets bands + fine carb v.	fine dissem. matrix Py commonly in clusters	2-3	—	06571	246.17	248.15	46	10
	248.45-257.46 Fine to medium heterolithic clasts. Clast to weak matrix supported. Textures are commonly vague due to alteration. Many clasts have narrow K.feldspar alt. rims	Patchy moderate pervasive matrix carbonate. Local small epidote clots in matrix. Local 1cm wide fine grained epidote bands. Weak-mod. matrix K.feldspar as rims and matrix alt.		Carb, epid and Py veins and veinlets @ 10-30°CA and 70-90°CA. Low-moderate density @253.20-254.13 Py-Mgt veins 30-40°CA	Patchy fine dissem local f/m cluster of pyrite. Local Py veinlets Brecciated with M/c Py-Mgt-Cpy veins upto 2cm wide	3-4	Tr	06572	248.15	250.15	943	270
						2-3	Tr	06573	250.15	252.15	1199	330
						3-5	Tr	06574	252.15	253.20	836	295
						7-10	1-2	06575	253.20	254.13	1015	340
						4-5	Tr	06576	254.13	256.13	1529	330
						3-4	Tr	06577	256.13	257.46	1365	330
	257.46-261.05 Fine-med-coarse clast breccia - med grained dioritic matrix. Mainly pink porphyritic monzonite clasts many K.feldsp rims. Weak-mod. magnetic	Weak patchy matrix and clast carbonate mod-strong K. feld. matrix and clast rims. Some white albite in matrix. Minor magnetite in matrix. Sparse epidote		Sparse hairline carbonate veinlets	Clusters of fine/med grained Py in matrix local blebs in clasts Some areas with upto 20% matrix Py.	5-6	Tr	06578	257.46	259.40	1503	370
						3-5	Tr	06579	259.40	261.05	794	230
	261.05-267.53 Mixed fine-med clast, some coarse. Monzonite, mafic MV. Matrix to weak clast supported. Angular to subrounded clasts. Alt. dioritic matrix weak-mod. magnetic.	Weak patchy matrix carbonate local 5-10cm epidote patches K.feldspar occurs throughout generally weak-few clast rims, patchy matrix		Low density of fine carbonate ± epidote veinlets 40-50°CA. Rare low angle 10-20°CA Chlorite-hematite	Fine - local medium grained disseminated Py often in clusters within matrix. Py content drops near bottom with large clasts	1-3	Tr	06580	261.05	263.55	1051	255
						2-3	Tr	06581	263.55	266.00	993	330
						1-3	Tr	06582	266.00	267.53	1083	255
	267.53-270.66 Fine clasts, matrix supported clast compositions as above. The matrix is fine-med. grained. vague texture	weak-mod. pervasive matrix carbonate. Variable K.feldsp more prominent clast rims in upper part. Local epidote clots and vein selvages.		Moderate density of fine epidote and carb veinlets 30°CA + 50-60°CA Py veinlets	fine to med. dissem. Py in matrix common as clusters. Local fine Py veinlets.	2-4	Tr	06583	267.53	269.20	865	240
						2-3	Tr	06584	269.20	270.66	1639	400
				270.66 EOH.								

KAMLOOPS GEOLOGICAL SERVICES LTD.

LOGGED BY R.C. Wells

DATE 31 Oct. 1999.

DHNBZ99-04

SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)	Cu (ppm)	L X Au	Au-Comp	L X Cu	Cu-Comp	From	To	Length	Au (ppb)	Cu (ppm)
14651	4.50	5.80	1.30	550	869	715.00		1129.70						
14652	5.80	9.10	3.30	275	520	907.50		1716.00						
14653	9.10	12.53	3.43	205	646	703.15	2325.65	2215.78	5061.48	4.50	12.53	8.03	289.62	630.32
14654	12.53	14.00	1.47	215	373	316.05		548.31						
14655	14.00	15.60	1.60	190	832	304.00		1331.20						
14656	15.60	17.57	1.97	900	2678	1773.00		5275.66						
14657	17.57	19.00	1.43	720	2049	1029.60		2930.07						
14658	19.00	20.90	1.90	190	995	361.00		1890.50						
14659	20.90	23.12	2.22	70	582	155.40		1292.04						
14660	23.12	25.90	2.78	315	1045	875.70		2905.10						
14661	25.90	27.36	1.46	115	309	167.90		451.14						
14662	27.36	29.42	2.06	95	602	195.70	5178.35	1240.12	17864.14	12.53	29.42	16.89	306.59	1057.68
14663	29.42	30.50	1.08	425	1829	459.00		1975.32						
14664	30.50	32.77	2.27	120	456	272.40		1035.12						
14665	32.77	34.12	1.35	75	761	101.25		1027.35						
14666	34.12	36.50	2.38	160	1130	380.80		2689.40						
14667	36.50	39.01	2.51	205	1009	514.55		2532.59						
14668	39.01	41.05	2.04	1320	2521	2692.80		5142.84						
14669	41.05	43.05	2.00	1800	1004	3600.00		2008.00						
14670	43.05	45.05	2.00	590	1132	1180.00	7472.80	2264.00	9414.84	39.01	45.05	6.04	1237.22	1558.75
14671	45.05	46.46	1.41	115	525	162.15		740.25						
14672	46.46	49.27	2.81	190	789	533.90		2217.09						
14673	49.27	51.21	1.94	185	926	358.90		1796.44						
14674	51.21	54.10	2.89	325	1423	939.25		4112.47						
14675	54.10	56.00	1.90	245	1057	465.50	11660.50	2008.30	29549.17	29.42	56.00	26.58	438.69	1111.71
							19164.50		52474.79	4.50	56.00	51.50	372.13	1018.93
14676	56.00	57.95	1.95	20	339	39.00		661.05						
14677	57.95	59.50	1.55	20	312	31.00		483.60						
14678	59.50	60.55	1.05	35	291	36.75		305.55						
14679	60.55	62.03	1.48	190	1640	281.20		2427.20						
14680	62.03	64.35	2.32	155	1593	359.60	640.80	3695.76	6122.96	60.55	64.35	3.80	168.63	1611.31
14681	65.70	66.45	0.75	215	1404	161.25		1053.00						
14682	69.95	72.00	2.05	135	1625	276.75		3331.25						
14683	72.00	73.34	1.34	125	1826	167.50		2446.84						
14684	73.34	75.34	2.00	15	320	30.00		640.00						
14685	75.34	77.34	2.00	120	1929	240.00		3858.00						
14686	77.34	80.00	2.66	190	2613	505.40	1219.65	6950.58	17226.67	69.95	80.00	10.05	121.36	1714.10
14687	84.00	85.00	1.00	115	1145	115.00		1145.00						
14688	87.20	88.20	1.00	135	1839	135.00		1839.00						
14689	94.30	95.30	1.00	125	2003	125.00		2003.00						
14690	100.00	101.00	1.00	75	828	75.00		828.00						
14691	104.06	105.06	1.00	140	1442	140.00		1442.00						
14692	106.45	108.00	1.55	75	731	116.25		1133.05						
14693	108.00	109.00	1.00	65	677	65.00		677.00						
14694	109.00	110.00	1.00	75	1371	75.00		1371.00						
14695	110.00	111.60	1.60	60	821	96.00		1313.60						
14696	111.60	113.00	1.40	75	940	105.00		1316.00						
14697	113.00	114.12	1.12	120	872	134.40		976.64						
14698	114.12	116.12	2.00	90	1263	180.00		2526.00						
14699	116.12	118.12	2.00	55	989	110.00		1978.00						
14700	118.12	120.32	2.20	70	1186	154.00		2609.20						
14701	120.32	121.04	0.72	70	1300	50.40		936.00						
14702	121.04	122.95	1.91	130	1793	248.30	771.25	3424.63	9067.05	109.00	122.95	13.95	55.29	649.97
14703	122.95	124.36	1.41	245	2936	345.45	593.75	4139.76	7564.39	121.04	124.36	3.32	178.84	2278.43
14704	124.36	127.00	2.64	40	563	105.60		1486.32						
14705	127.00	129.50	2.50	25	267	62.50		667.50						
14706	129.50	131.40	1.90	90	142	171.00		269.80						
14707	131.40	134.00	2.60	15	305	39.00		793.00						
14708	134.00	136.00	2.00	10	312	20.00		624.00						
14709	136.00	137.65	1.65	240	1646	396.00		2715.90						
14710	137.65	139.60	1.95	100	513	195.00	591.00	1000.35	3716.25	136.00	139.60	3.60	164.17	1032.29
14711	139.60	141.68	2.08	30	428	62.40		890.24						
14712	141.68	144.00	2.32	45	499	104.40		1157.68						
14713	144.00	146.00	2.00	30	554	60.00		1108.00						
14714	146.00	148.00	2.00	25	445	50.00		890.00						
14715	148.00	150.00	2.00	25	623	50.00		1246.00						
14716	150.00	152.00	2.00	390	904	780.00		1808.00						
14717	152.00	153.29	1.29	20	227	25.80		292.83						
14718	153.29	156.00	2.71	10	172	27.10		466.12						
14719	156.00	158.27	2.27	20	668	45.40		1516.36						
14720	158.27	160.00	1.73	65	2377	112.45		4112.21						
14721	160.00	162.40	2.40	60	2056	144.00		4934.40						
14722	162.40	164.65	2.25	50	1078	112.50		2425.50						
14723	164.65	167.00	2.35	40	1243	94.00		2921.05						
14724	167.00	169.00	2.00	60	1345	120.00		2690.00						
14725	169.00	170.50	1.50	60	1443	90.00		2164.50						
14726	170.50	172.50	2.00	10	380	20.00	692.95	760.00	20007.66	158.27	172.50	14.23	48.70	1406.02

SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)	Cu (ppm)	L X Au	Au-Comp	L X Cu	Cu-Comp	From	To	Length	Au (ppb)	Cu (ppm)
14727	172.50	174.50	2.00	135	1451	270.00		2902.00						
14728	174.50	175.90	1.40	235	518	329.00		725.20						
14729	175.90	178.00	2.10	220	1470	462.00		3087.00						
14730	178.00	180.00	2.00	120	956	240.00		1912.00						
14731	180.00	181.07	1.07	130	427	139.10		456.89						
14732	181.07	184.00	2.93	30	795	87.90		2329.35						
14733	184.00	187.00	3.00	115	754	345.00		2262.00						
14734	187.00	189.00	2.00	140	1554	280.00		3108.00						
14735	189.00	190.67	1.67	315	482	526.05	2679.05	804.94	17587.38	172.50	190.67	18.17	147.44	967.94
14736	190.67	192.67	2.00	710	1565	1420.00		3130.00						
14737	192.67	194.90	2.23	310	1414	691.30	2111.30	3153.22	6283.22	190.67	194.90	4.23	499.13	1485.39
14738	194.90	197.00	2.10	120	782	252.00		1642.20						
14739	197.00	199.00	2.00	140	788	280.00		1576.00						
14740	199.00	201.00	2.00	70	1226	140.00		2452.00						
14741	201.00	202.50	1.50	235	731	352.50		1096.50						
14742	202.50	205.00	2.50	255	1072	637.50		2680.00						
14743	205.00	207.50	2.50	85	706	212.50		1765.00						
14744	207.50	209.70	2.20	135	1042	297.00		2292.40						
14745	209.71	210.95	1.24	70	983	86.80	2258.30	1218.92	14723.02	194.90	210.95	16.05	140.70	917.32
14746	210.95	213.00	2.05	150	985	307.50		2019.25						
14747	213.00	215.50	2.50	370	881	925.00		2202.50						
14748	215.50	217.50	2.00	215	1003	430.00		2006.00						
14749	217.50	219.33	1.83	225	1105	411.75	2074.25	2022.15	8249.90	210.95	219.33	8.38	247.52	984.47
14750	219.33	222.05	2.72	65	573	176.80		1558.56						
6560	222.05	224.50	2.45	420	1095	1029.00		2682.75						
6561	224.50	227.48	2.98	455	794	1355.90		2366.12						
6562	227.48	228.87	1.39	225	1100	312.75	2697.65	1529.00	6577.87	222.05	228.87	6.82	395.55	964.50
6563	228.87	231.40	2.53	80	858	202.40		2170.74						
6564	231.40	233.88	2.48	120	658	297.60		1631.84						
6565	233.88	236.00	2.12	20	156	42.40		330.72						
6566	236.00	238.00	2.00	100	477	200.00		954.00						
6567	238.00	240.00	2.00	80	495	160.00		990.00						
6568	240.00	242.50	2.50	185	1214	462.50		3035.00						
6569	242.50	244.70	2.20	235	1630	517.00	4756.35	3586.00	20834.73	219.33	244.70	25.37	187.48	821.23
6570	244.70	246.17	1.47	35	63	51.45		92.61						
6571	246.17	248.15	1.98	10	46	19.80		91.08						
6572	248.15	250.15	2.00	270	943	540.00		1886.00						
6573	250.15	252.15	2.00	330	1199	660.00		2398.00						
6574	252.15	253.20	1.05	285	836	299.25		877.80						
6575	253.20	254.13	0.93	340	1015	316.20		943.95						
6576	254.13	256.13	2.00	330	1529	660.00		3058.00						
6577	256.13	257.46	1.33	330	1365	438.90		1815.45						
6578	257.46	259.40	1.94	370	1503	717.80		2915.82						
6579	259.40	261.05	1.65	230	794	379.50		1310.10						
6580	261.05	263.55	2.50	255	1051	637.50		2627.50						
6581	263.55	266.00	2.45	330	993	808.50		2432.85						
6582	266.00	267.53	1.53	255	1083	390.15		1656.99						
6583	267.53	269.20	1.67	240	865	400.80		1444.55						
6584	269.20	270.66	1.46	400	1639	584.00	6832.60	2392.94	25759.95	248.15	270.66	22.51	303.54	1144.38
							20783.10		93621.89	172.50	270.66	98.16	211.73	953.77

16-Nov-99

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 99-643

CHRISTOPHER JAMES GOLD CORP.
C/O RON WELLS
910 HEATHERTON CRT.
KAMLOOPS, BC, V1S 1P9

ATTENTION: RON WELLS

No. of samples received: 125
Sample type: Core
PROJECT #: NBZ-04
SHIPMENT #: None Given
Samples submitted by: R. Wells

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	14651	300	<0.2	1.48	<5	45	<5	3.64	1	28	31	869	5.72	<10	1.53	830	9	0.03	7	1410	<2	5	<20	84	0.08	<10	117	<10	3	59
2	14652	275	<0.2	1.32	<5	40	<5	2.78	<1	23	36	520	4.90	<10	1.34	739	5	0.03	9	1420	<2	5	<20	54	0.08	<10	121	<10	<1	50
3	14653	205	0.4	0.90	<5	45	<5	5.23	3	29	36	646	5.45	<10	1.17	840	11	0.02	8	1540	12	<5	<20	164	<0.01	<10	44	<10	3	50
4	14654	215	<0.2	1.41	<5	50	<5	3.62	<1	16	44	373	5.39	<10	1.37	818	7	0.03	5	1610	<2	<5	<20	89	0.09	<10	135	<10	9	53
5	14655	190	<0.2	1.22	<5	60	<5	4.27	2	21	44	832	5.36	<10	1.47	913	11	0.03	8	1690	2	10	<20	179	0.05	<10	103	<10	8	73
6	14656	900	1.0	1.23	<5	35	<5	2.49	2	33	33	2678	5.28	<10	1.12	624	7	0.03	9	1230	<2	15	<20	46	0.07	<10	92	<10	<1	76
7	14657	545	0.8	1.28	<5	30	<5	2.89	2	21	55	2649	4.37	<10	1.17	637	6	0.04	5	1270	<2	5	<20	68	0.10	<10	108	<10	15	113
8	14658	190	<0.2	1.30	<5	35	<5	2.37	1	33	40	995	5.17	<10	1.11	594	6	0.03	8	1460	<2	5	<20	45	0.09	<10	116	<10	3	56
9	14659	70	<0.2	1.38	<5	35	<5	2.80	<1	29	39	582	5.95	<10	1.17	612	6	0.03	8	1540	2	10	<20	52	0.09	<10	128	<10	<1	49
10	14660	315	<0.2	1.58	<5	40	<5	2.92	<1	30	47	1045	7.05	<10	1.42	694	7	0.03	9	1730	4	<5	<20	51	0.10	<10	145	<10	<1	65
11	14661	115	<0.2	1.45	<5	45	<5	3.24	<1	19	42	309	4.82	<10	1.23	718	2	0.03	4	1860	4	10	<20	62	0.11	<10	136	<10	9	56
12	14662	95	<0.2	1.41	<5	30	<5	2.18	1	26	40	602	5.20	<10	1.08	537	5	0.04	7	1690	4	<5	<20	50	0.10	<10	131	<10	4	49
13	14663	425	0.6	1.42	<5	40	<5	2.45	2	48	50	1829	6.40	<10	1.12	598	7	0.03	8	1680	4	<5	<20	49	0.10	<10	117	<10	<1	97
14	14664	120	<0.2	1.35	<5	35	<5	2.75	<1	26	37	456	5.29	<10	1.10	669	5	0.03	6	1600	4	10	<20	55	0.08	<10	124	<10	5	54
15	14665	75	<0.2	1.39	<5	55	<5	2.67	1	44	36	761	6.43	<10	1.16	677	8	0.03	6	1730	6	<5	<20	53	0.10	<10	138	<10	2	72
16	14666	160	<0.2	1.46	<5	45	<5	2.38	2	99	36	1130	9.15	<10	1.31	749	9	0.03	8	1550	2	<5	<20	46	0.10	<10	119	<10	<1	95
17	14667	205	<0.2	1.47	<5	45	<5	2.89	<1	31	55	1009	6.17	<10	1.25	750	7	0.04	8	1690	6	5	<20	51	0.12	<10	142	<10	4	81
18	14668	925	0.6	1.39	<5	45	<5	3.16	2	50	45	2521	6.29	<10	1.22	750	9	0.03	9	1630	12	5	<20	65	0.08	<10	111	<10	2	98
19	14669	>1000	<0.2	1.34	<5	40	<5	2.30	<1	37	47	1004	5.19	<10	1.20	665	9	0.04	4	1600	8	5	<20	39	0.10	<10	100	30	7	68
20	14670	590	<0.2	1.11	<5	40	<5	2.27	2	36	33	1132	2.93	<10	0.81	532	26	0.03	4	1410	8	5	<20	40	0.09	<10	59	<10	16	69

CHRISTOPHER JAMES GOLD CORP. ICP CERTIFICATE OF ANALYSIS AK 99-643 ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
21	14671	115	<0.2	1.47	<5	70	<5	3.27	1	20	40	525	5.68	<10	1.14	728	9	0.03	7	1780	10	<5	<20	73	0.08	<10	145	<10	10	60
22	14672	190	<0.2	1.48	<5	40	<5	2.61	<1	20	44	789	6.50	<10	1.23	751	11	0.04	9	1810	8	<5	<20	60	0.12	<10	160	<10	2	64
23	14673	185	<0.2	1.38	<5	35	<5	2.89	2	24	58	926	5.08	<10	1.07	676	7	0.04	10	1600	10	5	<20	63	0.11	<10	112	<10	14	59
24	14674	325	0.4	1.44	<5	25	<5	3.28	<1	26	35	1423	5.11	<10	1.35	809	8	0.03	7	1620	6	5	<20	52	0.09	<10	107	<10	6	73
25	14675	245	<0.2	1.49	<5	45	<5	3.09	<1	32	39	1057	8.40	<10	1.27	764	10	0.03	13	1740	8	<5	<20	67	0.10	<10	155	<10	<1	60
26	14676	20	<0.2	1.48	<5	35	<5	1.65	<1	13	56	339	3.14	<10	0.75	333	3	0.03	6	840	10	5	<20	9	0.10	<10	87	<10	16	25
27	14677	20	<0.2	1.38	<5	45	<5	2.42	<1	14	95	312	3.11	<10	0.82	391	5	0.04	10	740	8	5	<20	20	0.10	<10	82	<10	14	22
28	14678	35	<0.2	0.99	<5	30	<5	1.59	<1	12	57	291	2.67	<10	0.59	281	5	0.04	3	750	4	10	<20	18	0.09	<10	61	<10	17	21
29	14679	190	<0.2	1.59	<5	50	<5	1.89	<1	52	37	1640	7.78	<10	1.33	482	2	0.04	8	1490	10	<5	<20	26	0.18	<10	136	<10	<1	51
30	14680	155	<0.2	2.31	<5	55	<5	2.51	<1	36	14	1593	7.60	<10	2.05	530	9	0.03	11	1960	12	5	<20	34	0.24	<10	194	<10	<1	53
31	14681	215	<0.2	2.04	<5	45	<5	2.30	<1	28	43	1404	7.64	<10	1.87	459	<1	0.04	12	1930	8	<5	<20	62	0.23	<10	201	<10	<1	45
32	14682	135	<0.2	1.82	<5	40	<5	2.18	1	49	56	1625	8.31	<10	1.73	468	3	0.03	15	2010	8	<5	<20	26	0.18	<10	177	<10	<1	52
33	14683	125	<0.2	1.89	<5	45	<5	2.71	1	56	37	1826	8.75	<10	1.87	554	2	0.04	16	2160	8	5	<20	41	0.22	<10	185	<10	<1	54
34	14684	15	<0.2	1.64	<5	35	<5	3.03	<1	30	44	320	5.87	<10	1.51	542	<1	0.04	8	2280	8	<5	<20	64	0.23	<10	179	<10	16	41
35	14685	120	<0.2	1.90	<5	60	<5	2.75	2	58	132	1929	9.40	<10	2.22	636	5	0.03	41	1750	10	<5	<20	32	0.20	<10	182	<10	<1	59
36	14686	190	<0.2	1.96	<5	70	<5	2.47	<1	71	43	2613	>10	<10	2.01	555	8	0.04	19	1930	8	<5	<20	45	0.22	<10	189	<10	<1	62
37	14687	115	<0.2	1.78	<5	50	<5	3.59	<1	51	37	1145	8.49	<10	1.88	606	1	0.03	17	1930	6	<5	<20	50	0.19	<10	189	<10	<1	49
38	14688	135	<0.2	1.58	<5	45	<5	2.88	1	68	76	1839	9.34	<10	1.64	575	4	0.04	20	1850	6	<5	<20	37	0.19	<10	150	<10	<1	50
39	14689	125	<0.2	1.16	<5	65	<5	2.88	2	43	40	2003	7.83	<10	1.13	454	4	0.03	8	1740	6	<5	<20	45	0.14	<10	144	<10	<1	38
40	14690	75	<0.2	1.77	<5	40	<5	2.54	1	36	34	828	7.54	<10	1.46	458	<1	0.04	11	2270	10	5	<20	53	0.21	<10	184	<10	3	40
41	14691	140	<0.2	1.19	<5	50	<5	2.28	1	41	41	1442	7.71	<10	1.02	401	4	0.03	12	1630	<2	<5	<20	32	0.13	<10	162	<10	<1	35
42	14692	75	<0.2	1.06	<5	45	<5	2.49	<1	27	34	731	6.20	<10	0.93	424	4	0.03	9	1450	4	10	<20	47	0.09	<10	123	<10	<1	33
43	14693	65	<0.2	1.30	<5	55	<5	1.76	1	23	34	677	7.51	<10	0.99	360	4	0.03	10	1900	4	5	<20	38	0.13	<10	179	<10	<1	42
44	14694	75	<0.2	1.45	<5	60	<5	2.38	<1	63	47	1371	8.72	<10	1.37	451	2	0.04	14	1850	6	<5	<20	38	0.17	<10	182	<10	<1	40
45	14695	60	<0.2	1.76	<5	50	<5	2.56	1	40	36	821	7.90	<10	1.14	383	3	0.04	15	1970	8	<5	<20	44	0.17	<10	188	<10	<1	39
46	14696	75	<0.2	1.37	<5	50	<5	2.33	<1	55	33	940	6.77	<10	1.36	500	<1	0.04	11	2050	10	<5	<20	39	0.20	<10	150	<10	9	47
47	14697	120	<0.2	1.27	<5	60	<5	2.34	<1	31	43	872	6.67	<10	1.03	394	5	0.03	13	1920	8	5	<20	32	0.12	<10	156	<10	4	37
48	14698	90	<0.2	1.85	10	55	<5	5.58	<1	44	52	1263	7.54	<10	1.82	650	11	0.03	16	1690	12	<5	<20	169	0.12	<10	137	<10	<1	42
49	14699	55	<0.2	1.81	<5	45	<5	3.72	<1	29	14	989	7.65	<10	1.85	625	3	0.03	12	2200	10	10	<20	90	0.15	<10	202	<10	3	41
50	14700	70	<0.2	1.78	<5	70	<5	2.49	2	34	36	1186	7.22	<10	1.74	497	1	0.03	15	2170	10	<5	<20	59	0.19	<10	169	<10	<1	42
51	14701	70	<0.2	1.73	<5	55	<5	2.32	1	63	52	1300	6.84	<10	1.67	470	<1	0.03	19	2190	12	10	<20	57	0.20	<10	197	<10	4	50
52	14702	130	<0.2	1.68	<5	45	<5	1.68	1	41	59	1793	7.05	<10	1.55	373	2	0.04	18	1960	8	10	<20	37	0.18	<10	153	<10	<1	41
53	14703	245	<0.2	1.54	<5	45	<5	1.83	1	54	43	2936	7.42	<10	1.49	412	5	0.04	17	1820	10	<5	<20	39	0.15	<10	117	<10	<1	43
54	14704	40	<0.2	1.61	<5	45	<5	2.50	<1	34	62	563	4.50	<10	0.81	403	5	0.04	7	1860	14	<5	<20	39	0.14	<10	125	<10	16	30
55	14705	25	<0.2	1.51	<5	30	<5	3.26	<1	21	54	267	4.09	<10	0.89	516	3	0.04	6	1780	14	<5	<20	48	0.13	<10	137	<10	19	32

CHRISTOPHER JAMES GOLD CORP. ICP CERTIFICATE OF ANALYSIS AK 99-643 ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
56	14706	90	<0.2	1.24	10	115	<5	6.33	1	13	81	142	3.25	<10	1.06	801	10	0.01	5	1410	18	10	<20	171	<0.01	<10	32	<10	31	32
57	14707	15	<0.2	1.30	<5	25	<5	2.33	<1	16	49	305	2.91	<10	0.78	390	23	0.04	6	1790	10	10	<20	85	0.14	<10	95	<10	23	25
58	14708	10	<0.2	1.38	<5	40	<5	2.41	<1	18	69	312	3.92	<10	0.62	352	13	0.05	9	1840	12	5	<20	47	0.12	<10	143	<10	18	21
59	14709	240	<0.2	1.42	<5	40	<5	3.56	<1	32	42	1646	4.89	<10	0.99	468	12	0.03	8	1630	10	5	<20	65	0.09	<10	124	<10	9	27
60	14710	100	<0.2	1.65	<5	35	<5	3.04	1	11	55	513	5.06	<10	1.15	481	3	0.03	8	1620	8	10	<20	38	0.11	<10	141	<10	4	32
61	14711	30	<0.2	1.78	<5	50	<5	3.03	<1	11	38	428	5.07	<10	1.12	479	<1	0.02	9	1770	12	<5	<20	34	0.10	<10	149	<10	4	32
62	14712	45	<0.2	1.89	<5	30	<5	4.40	1	12	53	499	4.79	<10	1.43	716	1	0.03	10	1900	12	10	<20	69	0.10	<10	142	<10	7	37
63	14713	30	<0.2	1.67	<5	50	<5	5.58	<1	10	72	554	4.26	<10	1.16	816	2	0.02	7	1650	10	10	<20	87	0.07	<10	111	<10	11	29
64	14714	25	<0.2	2.07	<5	40	<5	4.85	<1	17	55	445	4.76	<10	1.38	815	2	0.02	9	1760	14	10	<20	95	0.10	<10	131	<10	12	32
65	14715	25	<0.2	1.76	<5	60	<5	6.15	<1	13	47	623	4.47	<10	1.38	918	2	0.02	7	1710	12	15	<20	133	0.08	<10	95	<10	20	34
66	14716	390	<0.2	1.96	<5	40	<5	3.37	<1	13	52	904	4.63	<10	1.06	638	<1	0.04	8	1680	16	15	<20	37	0.13	<10	189	<10	12	44
67	14717	20	<0.2	1.88	<5	110	<5	3.84	<1	13	47	227	3.89	<10	1.09	699	<1	0.04	7	1760	16	10	<20	75	0.14	<10	138	<10	21	37
68	14718	10	<0.2	1.75	<5	35	<5	3.02	<1	11	51	172	3.54	<10	0.87	565	1	0.05	6	1770	14	5	<20	74	0.14	<10	134	<10	21	32
69	14719	20	<0.2	1.42	<5	55	<5	3.09	<1	17	41	668	4.06	<10	1.06	727	2	0.03	5	1460	14	15	<20	45	0.11	<10	85	<10	13	48
70	14720	65	0.2	1.65	<5	45	<5	3.18	<1	31	72	2377	6.31	<10	1.11	709	10	0.04	10	1620	16	5	<20	46	0.13	<10	121	<10	3	49
71	14721	60	<0.2	1.52	<5	50	<5	4.25	2	27	40	2056	6.64	<10	1.37	862	12	0.03	10	1790	10	15	<20	79	0.06	<10	122	<10	<1	58
72	14722	50	<0.2	1.86	45	35	<5	6.87	<1	18	47	1078	5.18	<10	1.53	1127	9	0.02	10	1960	38	15	<20	259	0.03	<10	122	<10	27	94
73	14723	40	<0.2	1.48	<5	40	<5	3.09	<1	33	57	1243	5.77	<10	1.29	790	18	0.04	8	1800	14	15	<20	44	0.09	<10	109	<10	1	45
74	14724	60	<0.2	1.40	<5	25	<5	3.86	2	30	50	1345	5.55	<10	1.42	931	16	0.03	10	1710	14	25	<20	80	0.09	<10	134	<10	5	49
75	14725	60	<0.2	1.42	10	30	<5	3.51	<1	47	46	1443	6.14	<10	1.32	828	19	0.03	9	1830	10	<5	<20	45	0.10	<10	115	<10	<1	51
76	14726	10	<0.2	1.02	5	15	<5	1.76	<1	10	43	380	2.66	<10	0.49	350	4	0.04	4	1540	12	<5	<20	55	0.08	<10	81	<10	15	29
77	14727	135	0.2	1.19	10	40	<5	3.11	<1	73	43	1451	5.53	<10	0.96	722	13	0.03	6	1710	16	<5	<20	40	0.09	<10	90	10	4	50
78	14728	235	<0.2	1.03	5	20	<5	2.67	<1	24	31	518	3.07	<10	0.67	573	7	0.03	2	1450	16	10	<20	30	0.07	<10	81	<10	16	41
79	14729	220	<0.2	1.27	15	40	<5	4.12	<1	57	30	1470	6.06	<10	1.19	868	7	0.03	8	1860	18	10	<20	77	0.05	<10	113	10	5	48
80	14730	120	<0.2	1.59	<5	55	<5	3.68	<1	37	43	956	6.22	<10	1.65	899	2	0.03	13	1880	16	<5	<20	53	0.14	<10	174	<10	<1	50
81	14731	130	<0.2	1.51	15	35	<5	5.11	<1	44	36	427	6.22	<10	1.37	870	15	0.03	11	1820	18	25	<20	103	0.05	<10	108	<10	7	44
82	14732	30	<0.2	1.40	<5	40	<5	4.80	<1	51	31	795	6.24	<10	1.30	885	22	0.03	8	1780	28	15	<20	100	0.05	<10	99	10	16	49
83	14733	115	<0.2	1.42	<5	35	<5	4.07	<1	50	120	754	5.93	<10	1.39	923	23	0.03	12	1830	20	10	<20	54	0.08	<10	131	<10	10	55
84	14734	140	0.4	1.48	15	45	<5	4.65	1	44	24	1554	6.04	<10	1.32	921	9	0.03	8	1840	20	10	<20	74	0.07	<10	109	<10	1	47
85	14735	315	<0.2	1.35	<5	40	<5	3.44	<1	16	36	482	4.00	<10	0.92	744	6	0.04	6	1570	14	10	<20	45	0.09	<10	110	<10	11	42
86	14736	645	<0.2	1.65	<5	40	<5	3.45	<1	31	40	1565	5.42	<10	1.34	840	11	0.04	10	1930	18	10	<20	55	0.11	<10	127	<10	<1	51
87	14737	310	<0.2	1.58	10	40	<5	4.95	<1	37	36	1414	6.40	<10	1.62	987	26	0.03	10	1940	18	10	<20	85	0.09	<10	120	<10	2	51
88	14738	120	<0.2	1.60	10	40	<5	3.32	<1	46	36	782	6.38	<10	1.54	877	26	0.04	7	2080	18	5	<20	42	0.13	<10	140	<10	<1	55
89	14739	140	<0.2	1.46	<5	30	<5	2.69	1	47	51	788	6.69	<10	1.29	752	31	0.03	10	2050	14	5	<20	28	0.10	<10	124	<10	<1	52
90	14740	70	<0.2	1.53	<5	35	<5	2.49	1	52	52	1226	6.93	<10	1.52	766	32	0.03	11	2000	14	5	<20	34	0.12	<10	134	<10	<1	56

CHRISTOPHER JAMES GOLD CORP. ICP CERTIFICATE OF ANALYSIS AK 99-643 ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
91	14741	235	<0.2	1.49	<5	30	<5	3.10	<1	49	34	731	6.51	<10	1.41	817	14	0.03	11	2080	18	10	<20	39	0.09	<10	135	<10	<1	56
92	14742	255	<0.2	1.42	<5	35	<5	2.11	<1	52	60	1072	6.73	<10	1.27	687	19	0.04	11	2100	16	<5	<20	35	0.09	<10	117	<10	<1	58
93	14743	85	<0.2	1.54	<5	40	<5	2.95	<1	38	45	706	6.29	<10	1.31	756	12	0.03	8	2010	18	10	<20	46	0.09	<10	141	<10	<1	55
94	14744	135	<0.2	1.79	<5	45	<5	2.45	<1	50	68	1042	6.91	<10	1.60	785	6	0.04	13	2170	22	5	<20	34	0.15	<10	160	<10	<1	63
95	14745	70	<0.2	1.38	<5	40	<5	2.67	<1	23	49	983	5.03	<10	1.05	674	7	0.04	9	1910	16	5	<20	41	0.10	<10	116	<10	1	48
96	14746	150	<0.2	1.55	<5	40	<5	2.93	<1	53	52	985	8.17	<10	1.52	807	20	0.03	13	2040	18	<5	<20	38	0.09	<10	146	<10	<1	61
97	14747	370	<0.2	1.42	<5	35	<5	2.56	<1	46	55	881	6.32	<10	1.27	742	34	0.04	10	2020	22	<5	<20	34	0.11	<10	115	<10	<1	54
98	14748	215	<0.2	1.51	5	40	<5	2.40	1	39	41	1003	6.52	<10	1.41	753	37	0.03	9	2220	18	10	<20	32	0.10	<10	129	<10	<1	65
99	14749	225	<0.2	1.61	<5	40	<5	2.07	1	38	61	1105	6.73	<10	1.46	742	8	0.05	13	2240	20	10	<20	38	0.14	<10	132	<10	<1	69
100	14750	65	<0.2	1.07	<5	25	<5	1.70	<1	21	36	573	3.84	<10	0.65	368	9	0.03	6	1880	12	<5	<20	26	0.08	<10	97	<10	4	36
101	6560	420	<0.2	1.50	<5	45	<5	1.84	<1	31	54	1095	6.74	<10	1.24	533	12	0.04	13	2170	18	10	<20	28	0.11	<10	120	<10	<1	52
102	6561	455	<0.2	1.68	<5	40	<5	2.27	1	36	99	794	7.24	<10	1.66	653	12	0.04	22	2250	22	15	<20	52	0.13	<10	144	<10	<1	64
103	6562	225	<0.2	1.70	<5	45	<5	2.62	<1	44	62	1100	7.06	<10	1.43	639	15	0.04	11	2150	20	5	<20	46	0.15	<10	146	<10	<1	56
104	6563	80	<0.2	1.72	<5	60	<5	3.81	1	33	40	858	6.61	<10	1.61	848	10	0.03	13	2190	24	10	<20	58	0.09	<10	144	<10	<1	62
105	6564	120	<0.2	1.91	<5	35	<5	3.06	2	29	63	658	6.87	<10	1.71	830	10	0.04	15	2210	26	10	<20	57	0.13	<10	149	<10	<1	61
106	6565	20	<0.2	1.85	<5	45	<5	2.71	<1	15	76	156	6.15	<10	1.37	692	7	0.03	11	2340	22	5	<20	54	0.11	<10	181	<10	<1	61
107	6566	100	<0.2	1.70	<5	35	<5	3.72	1	24	68	477	5.65	<10	1.33	781	8	0.04	11	2100	22	10	<20	69	0.10	<10	138	<10	2	51
108	6567	80	<0.2	1.71	<5	55	<5	2.98	1	16	59	495	5.67	<10	1.13	692	5	0.04	10	2030	20	5	<20	57	0.10	<10	147	<10	<1	46
109	6568	185	<0.2	1.40	<5	75	<5	3.18	<1	25	36	1214	5.96	<10	1.05	669	6	0.03	10	2020	16	<5	<20	67	0.08	<10	128	<10	<1	53
110	6569	235	<0.2	1.39	<5	45	<5	2.12	<1	18	50	1630	5.49	<10	0.99	529	6	0.04	11	2050	18	<5	<20	37	0.10	<10	128	<10	<1	49
111	6570	35	<0.2	1.20	<5	45	5	2.34	<1	17	65	63	3.43	<10	0.55	436	5	0.04	3	1240	24	5	<20	21	0.08	<10	69	<10	12	27
112	6571	10	<0.2	1.16	<5	35	10	2.37	<1	10	59	46	3.04	<10	0.64	469	5	0.04	3	1260	18	15	<20	28	0.08	<10	73	10	17	28
113	6572	270	<0.2	1.56	<5	50	<5	2.33	<1	24	59	943	6.41	<10	1.14	574	6	0.04	12	2170	20	<5	<20	41	0.13	<10	162	<10	<1	67
114	6573	330	0.2	1.52	<5	35	<5	2.58	<1	27	52	1199	5.83	<10	1.10	584	16	0.04	8	2060	26	5	<20	40	0.10	<10	122	<10	<1	89
115	6574	285	<0.2	1.68	10	45	<5	3.71	1	30	65	836	6.63	<10	1.46	882	10	0.03	11	2120	26	10	<20	64	0.08	<10	138	<10	<1	77
116	6575	340	<0.2	1.77	<5	30	<5	2.92	1	20	63	1015	6.17	<10	1.38	830	7	0.04	10	2050	20	10	<20	33	0.10	<10	134	<10	<1	85
117	6576	330	0.6	1.81	<5	55	<5	4.65	<1	20	40	1529	6.44	<10	1.58	1083	8	0.03	10	2160	22	<5	<20	83	0.08	<10	140	<10	2	108
118	6577	330	1.0	1.67	<5	45	<5	3.31	2	24	47	1365	6.08	<10	1.39	859	6	0.04	12	2090	22	25	<20	58	0.08	<10	134	<10	<1	87
119	6578	370	0.4	1.69	<5	60	<5	4.35	2	33	37	1503	7.21	<10	1.57	1032	15	0.03	10	2040	20	20	<20	78	0.06	<10	132	<10	<1	111
120	6579	230	<0.2	1.10	<5	60	<5	5.05	2	35	30	794	6.94	<10	1.67	1173	9	0.03	9	2130	14	10	<20	156	0.04	<10	99	<10	<1	95
121	6580	255	<0.2	1.75	<5	50	<5	4.69	<1	33	46	1051	7.33	<10	1.60	1073	10	0.03	6	2120	26	<5	<20	114	0.06	<10	126	<10	1	111
122	6581	330	<0.2	1.75	10	50	<5	3.70	1	41	42	993	7.44	<10	1.69	1007	8	0.03	11	2100	24	10	<20	55	0.10	<10	148	10	<1	93
123	6582	255	0.4	1.42	<5	55	<5	5.09	1	30	38	1083	6.20	<10	1.35	1061	10	0.03	9	1870	18	20	<20	122	0.04	<10	123	<10	2	93
124	6583	240	<0.2	1.55	10	50	<5	3.48	<1	21	49	865	5.94	<10	1.29	962	7	0.04	7	1960	22	10	<20	60	0.08	<10	139	<10	<1	83
125	6584	400	1.0	1.06	5	50	<5	7.00	2	39	32	1639	6.19	<10	1.18	1305	11	0.02	9	1760	14	10	<20	197	0.02	<10	61	<10	6	105

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC DATA:																														
Resplit:																														
1	14651	570	<0.2	1.53	<5	45	<5	3.76	1	32	36	904	5.86	<10	1.63	870	10	0.03	9	1500	2	15	<20	85	0.11	<10	120	<10	5	64
36	14686	215	<0.2	2.02	<5	65	<5	2.68	1	75	50	2658	>10	<10	2.00	581	8	0.05	21	2090	10	<5	<20	45	0.24	<10	203	<10	<1	68
71	14721	80	<0.2	1.61	5	50	<5	4.39	<1	29	50	1994	6.75	<10	1.36	874	10	0.04	10	1960	14	10	<20	78	0.08	<10	125	<10	<1	60
106	06565	25	<0.2	1.77	<5	35	<5	2.60	1	14	61	155	5.89	<10	1.24	677	5	0.03	9	2130	18	5	<20	50	0.09	<10	177	<10	<1	55
Repeat:																														
1	14651	465	<0.2	1.54	<5	45	<5	3.82	<1	30	35	925	5.86	<10	1.68	860	10	0.03	8	1500	2	<5	<20	83	0.10	<10	121	<10	5	63
10	14660	360	<0.2	1.50	<5	40	<5	2.84	<1	29	42	1015	6.86	<10	1.35	676	8	0.03	9	1700	6	<5	<20	48	0.10	<10	138	<10	<1	65
19	14669	>1000	0.2	1.27	<5	40	<5	2.22	<1	35	44	962	4.94	<10	1.14	638	8	0.03	5	1520	8	<5	<20	37	0.09	<10	95	20	5	65
36	14686	185	<0.2	1.90	<5	65	<5	2.45	2	70	42	2577	>10	<10	1.95	544	8	0.04	20	1970	10	<5	<20	42	0.21	<10	183	<10	<1	62
45	14695	65	<0.2	1.67	<5	40	<5	2.50	2	38	33	803	7.56	<10	1.09	370	3	0.04	13	1980	6	10	<20	40	0.16	<10	176	<10	<1	37
54	14704	45	<0.2	1.61	<5	40	<5	2.51	<1	33	60	535	4.38	<10	0.79	398	5	0.04	8	1810	14	5	<20	40	0.14	<10	123	<10	15	28
71	14721	65	<0.2	1.53	5	40	<5	4.27	<1	28	39	2072	6.74	<10	1.38	866	12	0.03	10	1870	14	10	<20	68	0.06	<10	122	<10	<1	58
80	14730	125	<0.2	1.61	<5	50	<5	3.78	<1	37	44	961	6.40	<10	1.68	921	2	0.03	13	1960	20	5	<20	53	0.13	<10	176	<10	<1	52
89	14739	150	<0.2	1.52	5	35	<5	2.75	<1	50	52	815	7.03	<10	1.35	784	32	0.03	10	2170	16	<5	<20	29	0.10	<10	128	10	<1	54
106	06565	20	<0.2	1.78	5	40	<5	2.62	<1	14	66	145	5.86	<10	1.32	672	4	0.03	9	2150	20	15	<20	50	0.09	<10	177	<10	<1	54
115	06574	250	<0.2	1.57	5	50	<5	3.51	2	28	57	793	6.21	<10	1.37	832	8	0.03	9	2010	24	15	<20	63	0.09	<10	131	<10	<1	71
Standard:																														
GEO'99		115	1.0	1.76	60	145	<5	1.86	<1	20	66	86	3.68	<10	0.96	663	<1	0.02	25	780	22	10	<20	56	0.10	<10	73	<10	8	79
GEO'99		130	1.0	1.80	60	155	10	1.75	<1	22	64	84	4.00	<10	0.98	719	<1	0.03	24	740	22	5	<20	57	0.11	<10	79	<10	9	74
GEO'99		120	1.2	1.78	70	150	<5	1.84	<1	20	64	90	3.77	<10	0.96	696	<1	0.02	26	760	24	15	<20	56	0.08	<10	77	<10	8	72
GEO'99		120	1.0	1.79	65	160	<5	1.88	<1	19	64	82	3.86	<10	0.92	660	<1	0.02	22	750	22	15	<20	54	0.08	<10	76	<10	9	76

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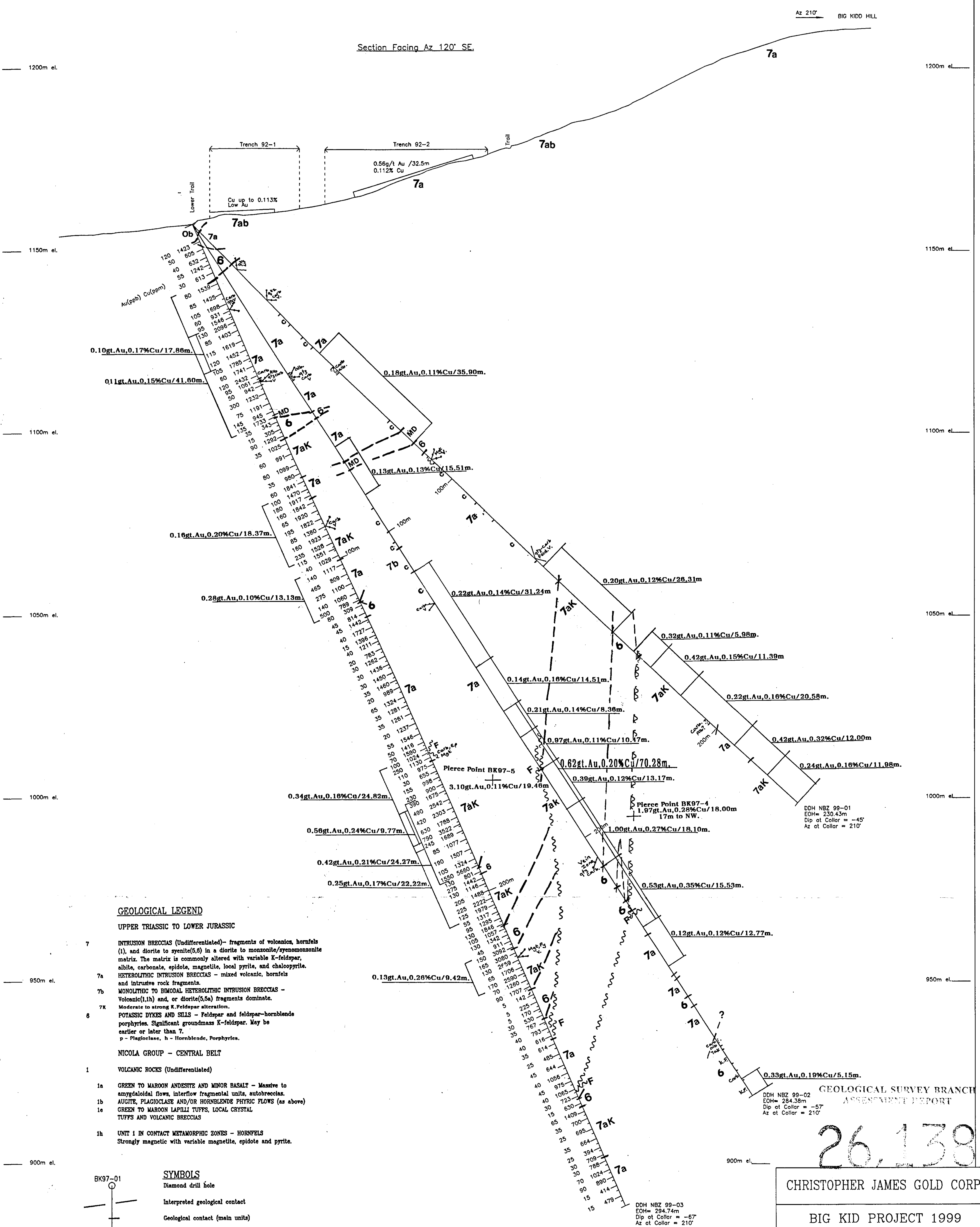
APPENDIX E

Drill Sections, Figures 13 and 14
NBZ99-03 and 04



GEOLOGICAL LEGEND

UPPER TRIASSIC TO LOWER JURASSIC

7 INTRUSION BRECCIAS (Undifferentiated)– fragments of volcanics, hornfels (1), and diorite to syenite(5,6) in a diorite to monzonite/syenomonzonite matrix. The matrix is commonly altered with variable K-feldspar, albite, carbonate, epidote, magnetite, local pyrite, and chalcopyrite.

7a HETEROLITHIC INTRUSION BRECCIAS – mixed volcanic, hornfels and intrusive rock fragments.

7b MONOLITHIC TO BIMODAL HETEROLITHIC INTRUSION BRECCIAS – Volcanic(1,1h) and, or diorite(5,5a) fragments dominate.

7K Moderate to strong K.Feldspar alteration.

6 POTASSIC DYKES AND SILLS – Feldspar and feldspar–hornblende porphyries. Significant groundmass K-feldspar. May be earlier or later than 7.
p – Plagioclase, h – Hornblende, Porphyries.

NICOLA GROUP – CENTRAL BELT

1 VOLCANIC ROCKS (Undifferentiated)

1a GREEN TO MAROON ANDESITE AND MINOR BASALT – Massive to amygdaloidal flows, interflow fragmental units, autobreccias.

1b AUGITE, PLAGIOCLASE AND/OR HORNBLENDE PHYRIC FLOWS (as above)

1e GREEN TO MAROON LAPILLI TUFFS, LOCAL CRYSTAL TUFFS AND VOLCANIC BRECCIAS

1h UNIT 1 IN CONTACT METAMORPHIC ZONES – HORNFELS
Strongly magnetic with variable magnetite, epidote and pyrite.

SYMBOLS

BK97–01

Diamond drill hole

Interpreted geological contact

Geological contact (main units)

Geological contact (sub-units)

Fault

Foliation

Vein, veinlet

note – Linear features are relative to core axis

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

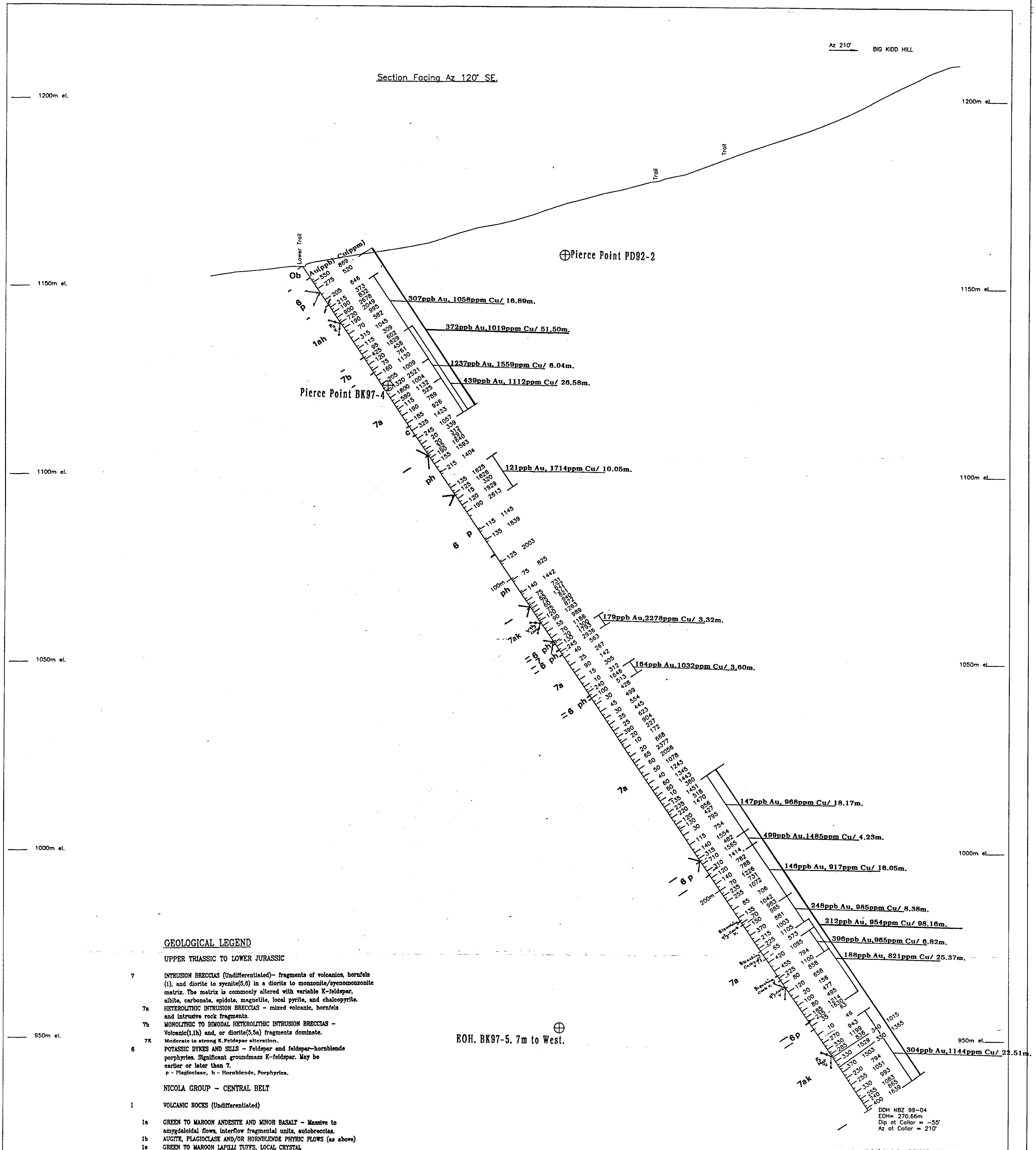
26,138

CHRISTOPHER JAMES GOLD CORP.

BIG KID PROJECT 1999
Kamloops Geological Services Ltd.

1999 Drill Program
Drill Section NBZ 99-01/02/03
SUMMARY GEOLOGY
Gold Copper Values
and Selected Intervals.

Location: Aspen Grove		Mining Jurisdiction: Nicola	
Datum:	Map Ref: 92H 097,098	Scale: 1:500	UTM: 10
Project: NBZ 1999	Date: December 5,1999	Drawn by: Exminda	Figure: 13



26,138

CHRISTOPHER JAMES GOLD CORP.

BIG KID PROJECT 1999

Kamloops Geological Services Ltd.

1999 Drill Program

Drill Section NBZ 99-04

SUMMARY GEOLOGY

Gold Copper Values

and Selected Intervals.

Location: Aspen Grove		Mining Jurisdiction: Nicola	
Datum:	Map Ref: 92H 097,098	Scale: 1:500	UTM: 10
Project: NBZ 1999	Date: December 5,1999	Drawn by: Exmindo	Figure: 14

APPENDIX F

Analytical Gold Checks
Phase 1 and 2 Drilling Programs
Figures 11 and 15

ANALYTICAL CHECKS ON CORE SAMPLE RESULTS

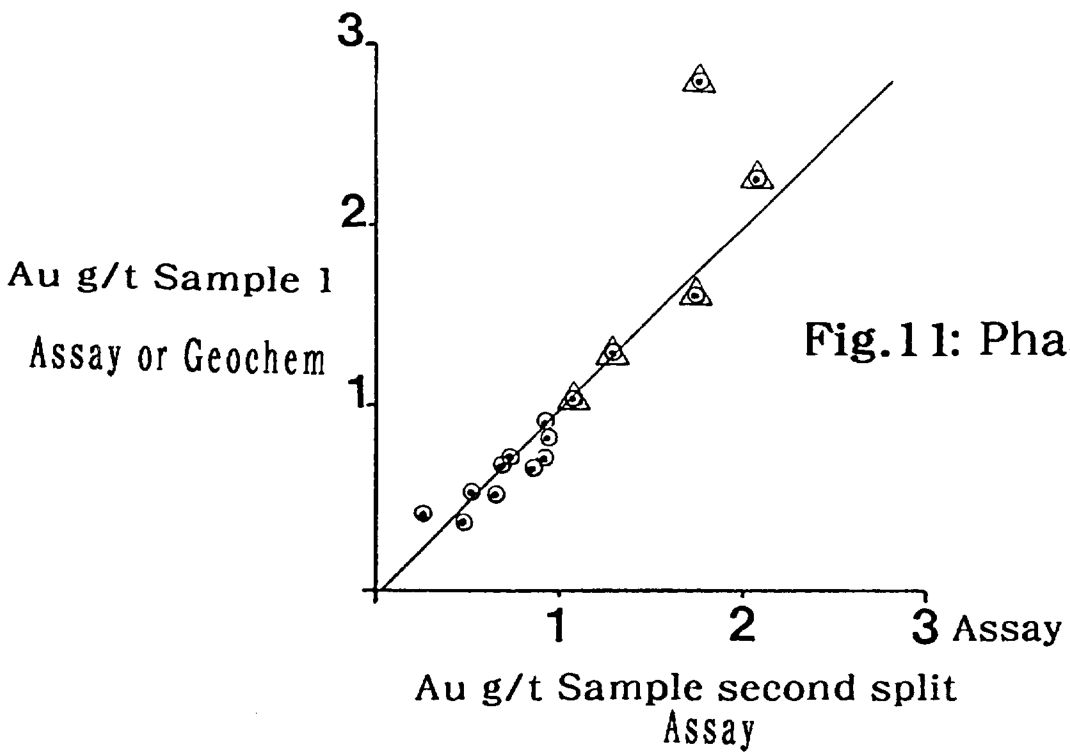


Fig.11: Phase 1 Drilling

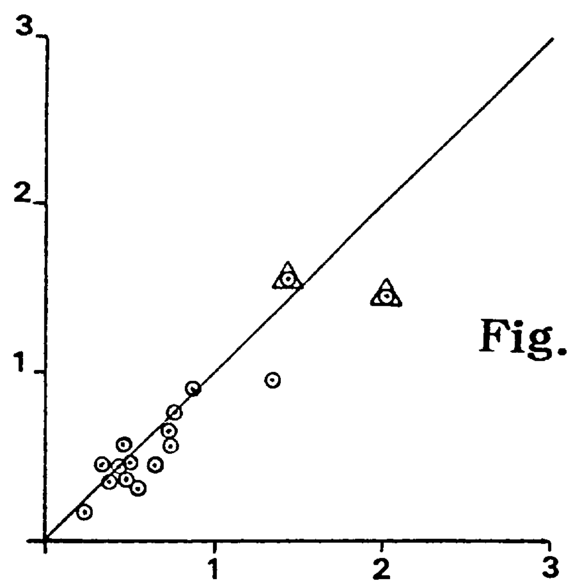


Fig.15: Phase 2 Drilling

LEGEND

△ 1st Split Au assay

⊙ 1st split 30g Au geochem.

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CERTIFICATE OF ASSAY AK 99-509

CHRISTOPHER JAMES GOLD CORP.
C/O RON WELLS
910 HEATHERTON CRT.
KAMLOOPS, BC, V1S 1P9

14-Oct-99

ATTENTION: RON WELLS

No. of samples received: 50
Sample type: Core
PROJECT #: NBZ-01
SHIPMENT #: 1
Samples submitted by: R. Wells

ET #.	Tag #	Au (g/t)	Au (oz/t)
32	14282	0.55	0.016

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CERTIFICATE OF ASSAY AK 99-523

14-Oct-99

CHRISTOPHER JAMES GOLD CORP.
C/O RON WELLS
910 HEATHERTON CRT.
KAMLOOPS, BC, V1S 1P9

ATTENTION: RON WELLS

No. of samples received: 47
Sample type: Core
PROJECT #: NBZ-01
SHIPMENT #: 2
Samples submitted by: R. Wells

ET #.	Tag #	Au (g/t)	Au (oz/t)
23	14323	0.93	0.027
38	14338	0.73	0.021
39	14339	0.21	0.006
40	14340	0.45	0.013

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email: ecotech@direct.ca

CERTIFICATE OF ASSAY AK 99-541A

14-Oct-99

CHRISTOPHER JAMES GOLD CORP.
C/O RON WELLS
910 HEATHERTON CRT.
KAMLOOPS, BC, V1S 1P9

ATTENTION: RON WELLS

No. of samples received: 68
Sample type: Core
PROJECT #: NB2-02
SHIPMENT #: 2
Samples submitted by: R. Wells

ET #.	Tag #	Au (g/t)	Au (oz/t)
17	14417	0.82	0.024
18	14418	0.70	0.020
19	14419	1.74	0.051
27	14427	0.93	0.027
28	14428	1.72	0.050
29	14429	0.62	0.018
30	14430	2.02	0.059
31	14431	1.13	0.033
35	14435	0.89	0.026
36	14436	1.23	0.036

QC DATA:

Repeat:			
17	14417	0.89	0.026

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email: ecotech@direct.ca

CERTIFICATE OF ASSAY AK 99-625

CHRISTOPHER JAMES GOLD CORP.
C/O RON WELLS
910 HEATHERTON CRT.
KAMLOOPS, BC, V1S 1P9

5-Nov-99

ATTENTION: RON WELLS

No. of samples received: 126
Sample type: Core
PROJECT #: NBZ-03
SHIPMENT #: 1
Samples submitted by: R. Wells

ET #.	Tag #	Au (g/t)	Au (oz/t)
81	14581	1.55	0.045

QC DATA:

		Au (g/t)	Au (oz/t)
Repeat:			
81	14581	1.28	0.037
Standard:			
STD-M		1.37	0.040

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CERTIFICATE OF ASSAY AK 99-625R

CHRISTOPHER JAMES GOLD CORP.
C/O RON WELLS
910 HEATHERTON CRT.
KAMLOOPS, BC, V1S 1P9

9-Nov-99

ATTENTION: RON WELLS

No. of samples received: 126
Sample type: Core
PROJECT #: NBZ-03
SHIPMENT #: 1
Samples submitted by: R. Wells

ET #.	Tag #	Au (g/t)	Au (oz/t)
43	14543	0.34	0.010
46	14546	0.50	0.015
71	14571	0.23	0.007
72	14572	0.39	0.011
73	14573	0.49	0.014
74	14574	0.42	0.012
75	14575	0.63	0.018
76	14576	0.79	0.023
81	14581	1.42	0.041

QC DATA:

Repeat:

43	14543	0.37	0.011

Standard:

STD-M	1.31	0.038

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CERTIFICATE OF ASSAY AK 99-643

CHRISTOPHER JAMES GOLD CORP.
C/O RON WELLS
910 HEATHERTON CRT.
KAMLOOPS, BC, V1S 1P9

16-Nov-99

ATTENTION: RON WELLS

No. of samples received: 125
Sample type: Core
PROJECT #: NBZ-04
SHIPMENT #: None Given
Samples submitted by: R. Wells

ET #.	Tag #	Au (g/t)	Au (oz/t)
19	14669	1.46	0.043

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CERTIFICATE OF ASSAY AK 99-643M

CHRISTOPHER JAMES GOLD CORP.
C/O RON WELLS
910 HEATHERTON CRT.
KAMLOOPS, BC, V1S 1P9

18-Nov-99

ATTENTION: RON WELLS

No. of samples received: 125
Sample type: Core
PROJECT #: NBZ-04
SHIPMENT #: None Given
Samples submitted by: R. Wells

		Metallic Assay	
		Au	**Au**
ET #.	**Tag #**	**(g/t)**	**(oz/t)**
1	14651	0.55	0.016

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C/O RON WELLS
910 HEATHERTON CRT.
KAMLOOPS, BC, V1S 1P9

18-Nov-99

ATTENTION: RON WELLS

No. of samples received: 125
Sample type: Core
PROJECT #: NBZ-04
SHIPMENT #: None Given
Samples submitted by: R. Wells

ET #.	Tag #	Au (g/t)	Au (oz/t)
6	14656	0.87	0.025
7	14657	0.72	0.021
18	14668	1.32	0.038
19	14669	2.13	0.062
20	14670	0.45	0.013
86	14736	0.71	0.021
QC/DATA			
Repeat:			
6	14656	0.79	0.023
Standard:			
STD-M		1.33	0.039

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