Geological, Geochemical

and

Diamond Drill Report

on the

Nizi Mineral Claims

1993

Claims (record nos.): Nizi 1 (4061), Nizi 2 (4062), Nizi 3 (4063), Nizi 4 (4064), Nizi 5 (4065), Nizi 6 (4066)

Mining Division: Liard

NTS Map Sheet: 104 I/14,15 and 104 P/2,3

Latitude: 58 Degrees 59' N
Longitude: 139 Degrees 00' W

Owner of Claims: Gold Giant Minerals Inc.
1000-789 West Pender St.
Vancouver, B.C.
V6C-1H2

Project Operator: Gold Fields Canadian Mining Ltd.
123 Front St. W., Ste 909
Toronto, Ontario
M5J 2M2

Report by: W. D. Bond

Date of Report: March, 1993

SUMMARY AND CONCLUSIONS

The Nizi project includes 6 modified mineral claims (Nizi 1-6) situated in Liard Mining Division in northwestern British Columbia on NTS map sheets 104 I/14,15 and 104 P/2,3. The 6 claims total 110 units for approximately 6800 acres and are owned by Gold Giant Minerals Inc. of Vancouver, B.C.

At present the only access is by helicopter based out of the town of Dease Lake situated 80 km to the west on the Stewart-Cassiar highway. The small settlement of McDame is situated 30 km to the north-northwest and is accessible by an all weather road. A winter road leading off of the Cassiar-Alaska highway extends south to within 13 km of the property.

Under an agreement dated April 7, 1992 Gold Fields Canadian Mining Ltd. has the right to earn an interest in the property and became the operator including the data gathered for this report.

Previous geological work, sampling and geochemistry dating back to 1971 had outlined a large Au soil geochemical anomalie and revealed the existence of base metal and significant precious metal (Au + Ag) mineralization. Values up to 1.2 oz/ton Au and 22.3 oz/ton Ag/1.5 meters have been reported from a recently discovered quartz vein stockwork in a rhyolite.

The present program described in this report was primarily precious-metal oriented designed to evaluate the recently discovered quartz vein stockwork zone. The 1992 work program included:

i)	reestablishing the grid - 61.94 km		
ii)	soil sampling - 625 samples		
iii)	geological mapping at	1:1000 scale	-78 hectares
		1:2500 scale	-75 hectares
		1:10000 scale	-1300 hectares
iv)	rock/chip sampling	-650 samples	
v)	diamond drilling	-5 holes	(957.38m)

The property is underlain by Devonian to Mississippian volcanic and sedimentary rocks that are intruded by Jurassic to Cretaceous plutonic rocks. In general the key mineralized area is situated in a wedge of volcanics that is flanked on either side by metasedimentary sequences. Between the contacts of this "main" metavolcanic sequence there are

gabbro/diorite intrusions and a granodiorite to quartz monzonite intrusive. Two minor ultramafic stocks also intrude the metasediments. A second dominantly mafic volcanic sequence is situated on the northeast corner of the property. All of these units strike in a northwest-southeast regional trend. The key main volcanic formation is comprised of mafic, intermediate and more felsic units. Most of the known gold mineralization is associated with shear/fault structures within the intermediate and felsic units.

There is no evidence of major faulting although there are numerous minor shears/faults and shear fractures throughout the property.

All mineralization on the property appears to be epigenetic confined to these shears. Significant mineralization is found in the following associations:

i) gold bearing quartz veins - these also carry significant silver and varying amounts of sphalerite, chalcopyrite and galena and have associated accessory sericite and barite.

ii) dissiminated to semi-massive bands of sphalerite + galena + silver + gold + chalcopyrite - this base metal dominant mineralization can be subdivided into:

   a/ quartz-poor with nil-low gold values
   b/ quartz-bearing with low-moderate gold values

iii) silicified zones in the felsic volcanics

The highest gold values have come from the quartz veins (association i) above) with grab samples returning values in the 1.03 to 4.55 oz/ton Au range and 1992 channel/chip sampling returning highs of 0.79 oz/ton Au, 35.6 oz/ton Ag/2.0m. These veins are continuous over several 100's of meters but are fairly narrow (1.0 - 2.0 meters). The highest values have come from the Discovery Vein and the Suprise Vein.

Sampling in the "H" zone, typical of association ii) a above, returned grab sample values ranging from 0.01 to 0.068 oz/ton Au, 2 to 18.3 oz/ton Ag, 6.24 to 18.3% Zn and up to 7.5% lead. In and near the Gully Zones A and B, typical of association ii) b above, sampling has returned values of 0.1 to 0.35 oz/ton Au and very high silver values up to 100 oz/ton. These base metal zones are generally very narrow (less than 20 cm maximum) and traceable for 10's of meters.

A few zones of silicified volcanics usually spatially close to the quartz veins locally contain anomalous to low grade (<0.1 oz/ton Au) gold values.

Previous soil sampling had outlined a large gold anomalie that was found to be nearly coincident with the felsic volcanic units and the key mineralized zones. Present sampling done along strike to the southeast was only able to extend this anomalie several 100 meters and indicated the best gold in soil anomalie was directly over the known and recently discovered gold-bearing Discovery Vein. Other reconnaissance soil sampling done over selected airborne geophysical responses returned only negative values.

A 5 hole (957.38 m) drill program was done to test:

i) the Discovery and Suprise Veins and the Sericite Zone
ii) the Grizzly Ridge Vein;
iii) the "H" Zone;
iv) The "B" Gully Zone.

The drilling indicated continuity of the gold-bearing structures but returned sporadic assays that in general were lower grade than the surface sample values.

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1.0 INTRODUCTION

1.1 Location and Access

The Nizi project is located in northwestern British Columbia on NTS sheets 104 I/14, 15 and 104 P/2,3 (figure 1). The claims are within the Liard Mining Division and are situated east of Nizi Creek, and about 5 km east of Beale Lake.

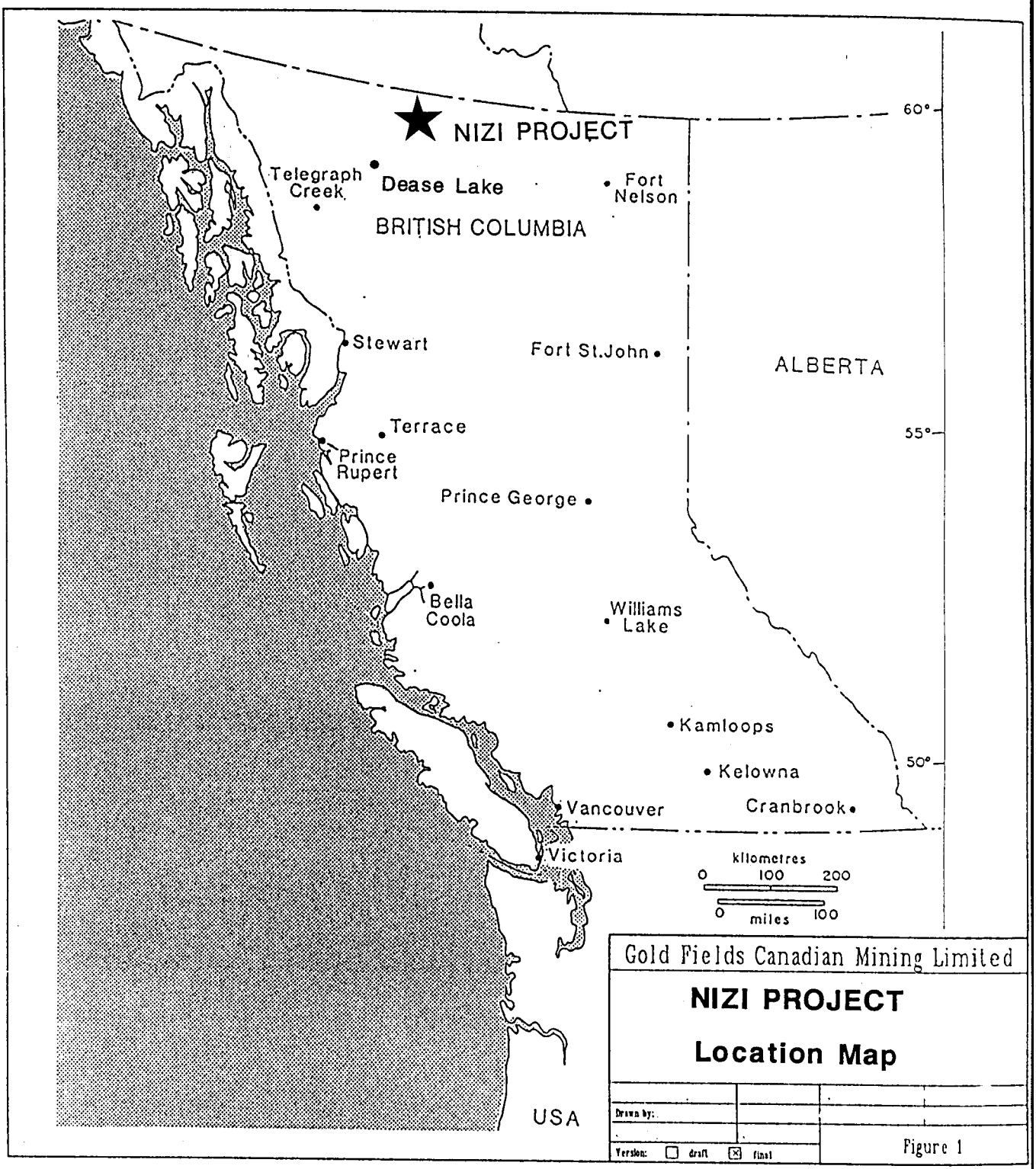
At present the only access is by helicopter based out of the town of Dease Lake situated 80 km to the west on the Stewart-Cassiar highway. The smaller settlement of McDame is situated 30 km to the north-northwest and is accessible by an all-weather road. A winter road leading off of the Cassiar-Alaska highway extends south to within 13 km of the property.

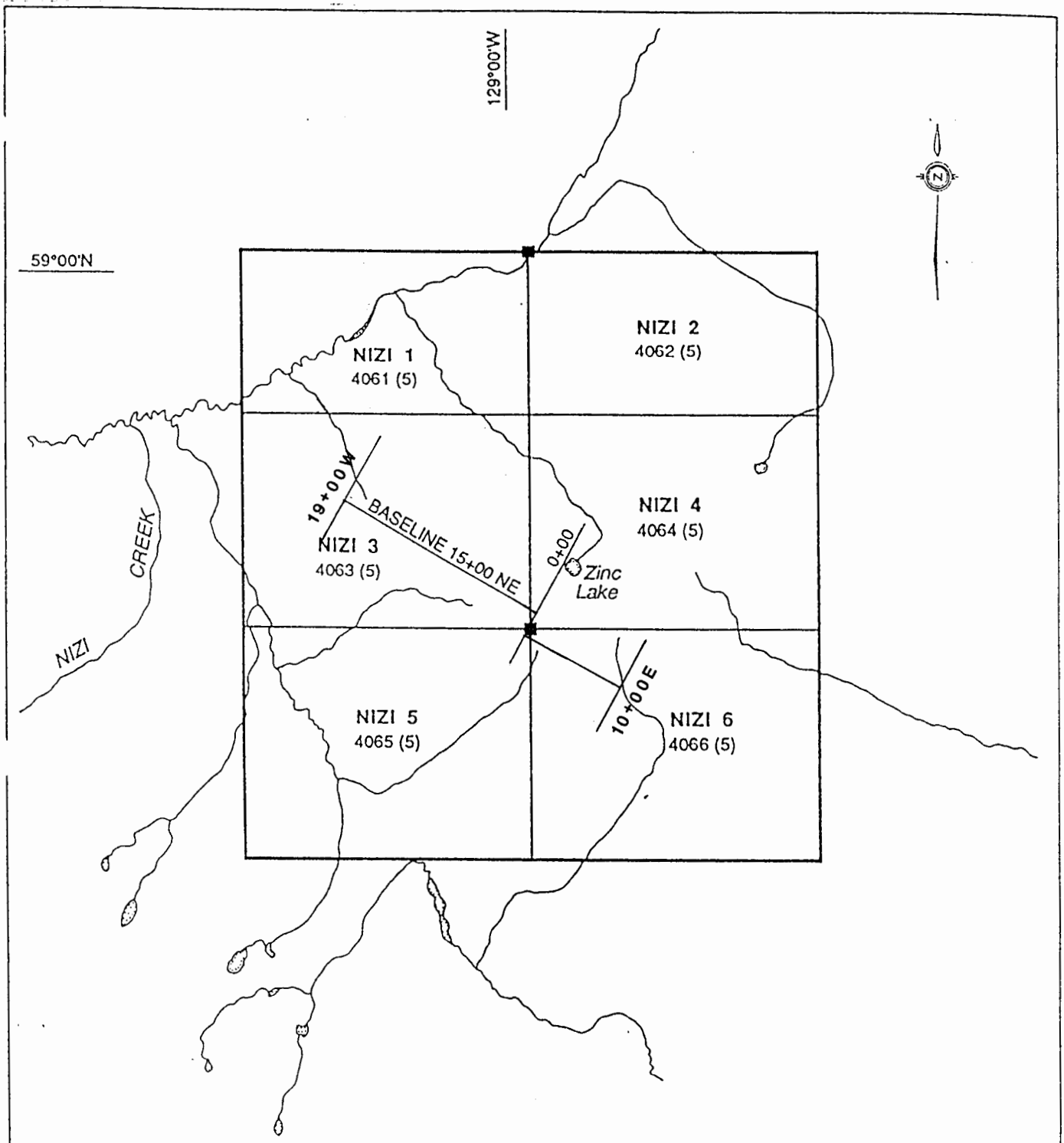
1.2 Topography

The claims are situated in the Cassiar Mountain Range. On the property itself, elevations range from 1100 m (in the northwest corner) to a peak of 2010 m above sea level in the central-east part. Slopes vary from 10 to 70 degrees but average 35-40 degrees. The steepest slopes tend to face west or northwest while the eastern slopes are gentler-sloping. Much of the property is above 1450m and is covered by only alpine grasses and low shrubs. Outcrop exposure is fairly good (about 20%) in the higher elevations (above 1700 m) but drops off to less than 3% in the lower elevations.

1.3 Claims and Ownership

The property consists of 6 modified mineral claims totalling 110 units (table 1) and encompasses a total of approximately 6800 acres within the Liard Mining Division (figure 2).


NIZI PROJECT
Telegraph Creek
Dease Lake
Fort Nelson
BRITISH COLUMBIA
Stewart
Fort St.John
ALBERTA
Terrace
Prince Rupert
Prince George
Bella Coola
Williams Lake
Kamloops
Kelowna
Vancouver
Cranbrook
Victoria
USA
60°
55°
50°
kilometres
0 100 200
0 miles 100
Gold Fields Canadian Mining Limited
NIZI PROJECT
Location Map
Drawn by:
Version: draft final
Figure 1



after Cavey and Chapman, 1992

0 1000 2000
metres

Figure 2
NIZI PROJECT

CLAIM MAP

Liard Mining Division
British Columbia
NTS 104I/14E, 15W, 104P/2W, 3E

July 1991 XY3

CLAIM#	RECORD #	# UNITS	EXPIRY DATE
Nizi 1	4061	15	May 1, 1993
Nizi 2	4062	15	May 1, 1993
Nizi 3	4063	15	May 1, 1993
Nizi 4	4064	15	May 1, 1993
Nizi 5	4065	20	May 1, 1993
Nizi 6	4066	20	May 1, 1993

TABLE 1: List of Claims in the Nizi Property

The claims are owned by: Gold Giant Minerals Inc.
1000-789 West Pender St.
Vancouver, B.C.
V6C 1H2

Under an agreement dated April 7, 1992 Gold Fields Canadian Mining Ltd. has the right to earn an interest in the property and became the operator including the data gathered for this report.

1.4 Exploration History

The property was first staked by J. J. Altenbury in 1969. A small geochemical/geological survey (Zimmerman (1970)) was completed over selective gossanous areas the following year and identified vein and shear-controlled zinc/lead/silver mineralization with a coincident soil anomaly. In 1971/72 Sumac Mines Limited optioned the property and conducted further geological/geochemical surveys (Rodgers (1972)). They identified a zinc/silver soil anomaly southeast of Zinc Lake and a large gold anomaly west of Zinc Lake. The claims were allowed to lapse and were restaked in 1979 by Regional Resources Ltd. in order to determine their gold/silver potential. They also completed detailed geological and soil geochemical surveys which confirmed previous findings. Regional Resources Ltd. did further selected, detailed mapping and sampling (Rowe (1989, 1983); Fleming (1983)) of some of the sulphide veins but allowed the claims to lapse. In 1987 Izumi Exploration Ltd. staked the claims and completed geological, geochemical and geophysical (Mag/VLF-EM/EM-16R resistivity) surveys (Rebagliati (1987, 1990); Augusten (1987)). In 1989 Izumi Exploration Ltd. changed their name to Gold Giant Minerals Inc. In 1991 Orequest Consultants Ltd. (Cavey and Chapman, 1992) and Gold Giant (McIntosh and Scott 1991) did further selective sampling over some of the known mineralized zones and discerned a new quartz vein stockwork system that returned some very high gold values: up to 1.196 oz/ton Au,

22.3 oz/ton Ag/1.5 m ; 1.046 oz/ton Au, 37.91 oz/ton Ag/33 cm (chip samples). This new stockwork system became the focus of the work done in this report.

Under the direction of Gold Fields Canadian Mining Ltd., an Aerodat airborne geophysical survey was completed over the property in April 1992 (Woolham, 1992).

1.5 Economic Potential

The prior work on the Nizi property has identified 3 major styles of mineralization two of which are dominated by base metal mineralization and one which yields high precious metal values:

i) dominantly north-trending (locally northeast to northwest-trending), shear-hosted quartz + carbonate veins carrying disseminated to semi-massive sphalerite+ galena+pyrite +silver $\pm$ trace to minor gold found throughout the key mineralized area (L10E-L17W main grid). Values up to 10-15% Zinc, 57.64 oz/ton Ag 0.285 oz/ton Au and 1.1% lead have been reported.

ii) silicified and rhyolite breccia (with associated quartz-carbonate flooding/veining with sphalerite $\pm$ galena + silver are present near Zinc Lake (figure 2). Values up to 21.56% zinc, 24.5 oz/ton Ag and 0.18% lead/1.0 meters have been reported in this area (Cavey and Chapman, 1992, pg 12).

iii) a quartz vein stockwork with precious metal values up to 1.196 oz/ton Au and 22.3 oz/ton Ag/1.5 meters (Cavey and Chapman, 1992 pg. 13).

The purpose of the 1992 program was to determine the distribution and extent of the mineralization, to further characterize the style of this mineralization and to develop potential drill targets if warranted.

1.6 Work Program

The work program covered by this report included :

i) reestablishing the previous grid including emplacement of in-fill lines to make it a more detailed grid;

ii) soil sampling
a/ along strike from the previous geochemical anomaly zone as discerned in the previous geochemical survey to determine further strike potential.
b/ over selected geophysical anomalies as determined from an airborne survey (filed assessment report by Woolham (1992)

iii) detailed geological survey to determine the geological and structural control of the known mineralization and its strike potential

iv) regional geological survey and sampling to determine any further potential on the Nizi claims away from the known mineralized area.

v) diamond drilling of 3 targets (5 holes - total 957.38 m)

The establishment of the camp, the grid emplacement and soil sampling on the main grid was done by a 5 person crew hired from Orequest Consultants Ltd. and completed during the period July 2 to July 16, 1993. The geological mapping and sampling was carried out by a crew of up to 6 persons including 4 geologists and 2 helpers during the period July 2 to approximately August 15, 1993. Falcon Drilling Ltd. completed the diamond drilling between August 17-28, 1992 with a crew of 2 drillers, 2 helpers and 1 pad builder. A camp cook was on hand during the whole time July 1 to September 4th. The camp was demobed between September 1 to September 5.

The 1992 program described in this report was under the management of Gold Fields Canadian Mining Ltd. Table 2 is a summary of the work completed and described in this report.

2.0 GENERAL GEOLOGY

2.1 Regional Geology

Gabrielse (1962, 1963, 1978, 1990) has completed regional mapping over the area on several occasions with the most recent mapping being in 1978 (figure 3). The property is shown to be underlain by Devonian and Mississipian volcanics and sediments intruded by Jurassic or Cretaceous

TABLE 2: Summary of 1992 Work Program

TYPE OF WORK	SPECIFICATIONS	AMOUNT OF WORK DONE
GRID EMPLACEMENT (SEE MAP A)		
OLD MAIN GRID	-re-established by repicketing old grid (LO-L19W at 100m intervals); where no pickets present line was rechained and tied into nearest available picket	25.25 km
	-established new lines in between old grid lines (ie at 50 m spacings) (L0+50W to L16+50W)	20.0 km
	-established new lines at 25 m spacing (L5+75W to L7+75W	1.37 km
	-Tie lines and back chained to cliff (L6+50W to L9+00W)	2.46 km
	-new cross lines run by compass and chained with nylon chain and slop-corrected	
	-all stations marked at 25 m intervals with milled wooden pickets	
NEW MAIN GRID	-base line run with transit and cross lines marked as above (L1E-L10E, L12E; 5N to base line) and locally north of the base line	12.86 km
	-both new and old grid baselines at azimuth 120 degrees	
	TOTAL	61.94 km
RECON GRIDS	-grids located on map A	
	-base lines and cross lines all compassed in and chained and picketed as above	8.1 km
SOIL SAMPLING	-samples collected at 25 m intervals on cross lines on new main grid and on recon grids	
	-samples collected from colluvium soil mostly from "talus fines".	
	Main grid samples	275 samples
	Recon grid samples	350 samples

GEOLOGICAL MAPPING	-grid used for location on main grid area (Maps B and C). Topography and outcrop outlines partly controlled by tying the grid to an orthophoto base map -away from main grid an orthophoto base map was used for location control	
	-in key area L0 to ~ L10W mapping completed at scale of 1:1000	Map C-1 ~ 78 hectares
	-along strike to northwest of key area mapping completed at scale of 1:2500	Map B-1 ~ 75 hectares
	-outside of key area, selective reconnaissance traverses completed at scale of 1:10,000	Map A ~ 1300 hectares
	-approximate outline of maps B-1 and C-1 are given on map A	
ROCK SAMPLING	- 650 grab/chip samples collected during prospecting mapping -channel sampling done over main zone using diamond saw	maps A, B-2, C-2
DIAMOND DRILLING	-completed by Falcon Drilling Ltd. BGM size core, 766 samples -Holes 1 to 4 located on map C-1 -Hole 5 located on map B-1	5 holes (957.38m)

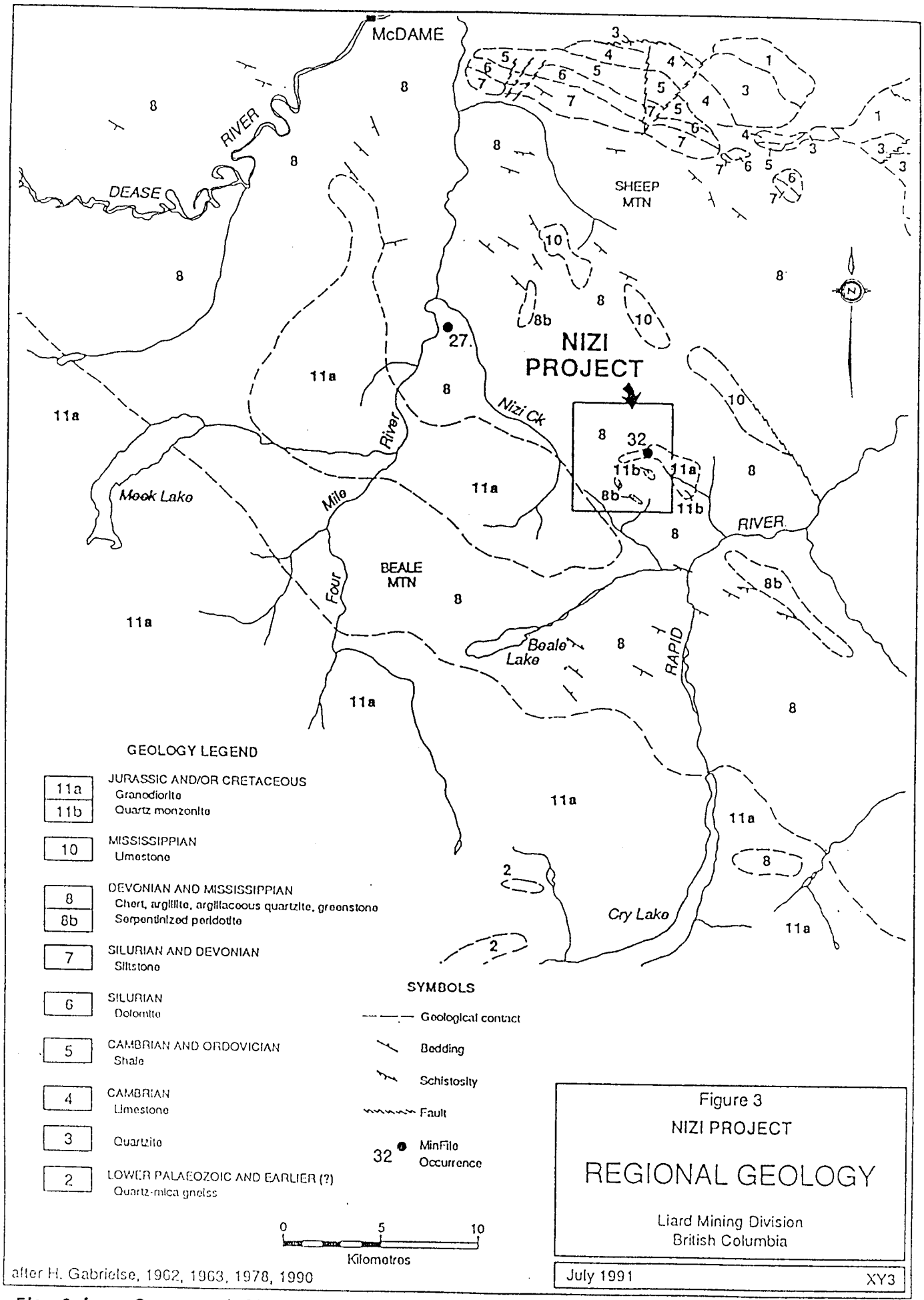


Fig. 3 from Cavey and Chapman, 1992

felsic intrusives. In addition two small serpentinized peridotite bodies are also present.

2.2 Property Geology

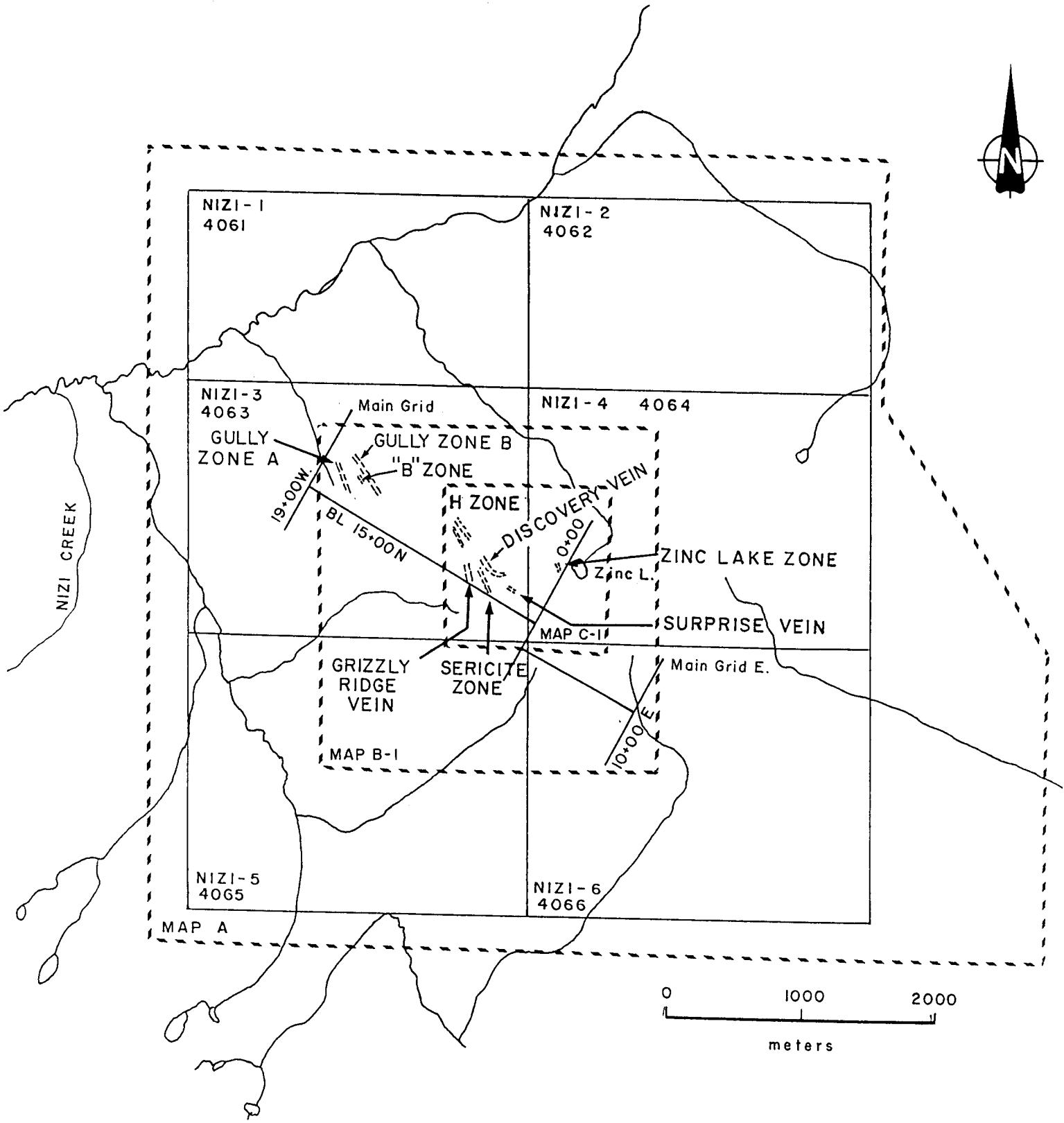
The property geology is given in maps A, B-1, C-1 (separate file folder). Figure 4 shows the approximate limits of each of these maps in relation to the claim boundary. Key topographical zones referred to in this report and also shown on figure 4.

The most detailed mapping/sampling was completed on the central portion of the main grid (located on Map A) in the vicinity of the previously-taken high grade gold samples (Cavey and Chapman, 1992; McIntosh and Scott, 1991). This detailed work was done at a scale of 1:1000 and is presented on Map C-1. Along strike from this detailed area the mapping was completed (using the grid for control) at a scale of 1:2500 (Map B-1). This latter map (B-l) also indicates the major lithologic contacts and how they tie in with the detailed mapping (Map C-l). Selected mapping and sampling was done away from the main grid. This data, see Map A (Scale 1:10,000), shows individual traverse data which are tied to an orthophoto base map. This orthophoto base map was used to tie in topography and wherever possible the outline of outcrop exposures on all 3 geological maps.

2.3 Lithologic Units

Table 3 is a list of the lithological units on the Nizi property. No attempt was made to actually date the rocks but, in keeping with the regional geological work of Gabrielse (1978), the supracrustal rocks are probably Devonian and Mississippian and the intrusives are probably of Jurassic and Cretaceous age. The sequence of numbers in the legend/table is not meant to be time-stratigraphic. it is possible that unit 10 (ultra mafic intrusives) is infact older and belongs in the same age bracket as the supracrustal rocks as indicated by Gabrielse (1978). As indicated on Map A, all of the major units form linear zones that strike northwest-southeast parallel to the regional geological trend. In general the key mineralized area is situated in a wedge of metavolcanic rocks that is flanked on either side by metasedimentary sequences. Between the contacts of the main metavolcanic and metasedimentary sequences there are gabbro/diorite intrusives and a granodiorite to quartz monzonite intrusive. A second dominantly mafic volcanic sequence is situated on the northeast corner of the property (Nizi 2).

2.31 Supracrustal Rocks



Outline of Individual Geological Maps on NIZI Property showing Location of Key Zones.

Figure 4

LEGEND

INTRUSIVE ROCKS

☐ 10 Ultra Mafic Intrusives
- 10 Unsubdivded
- 10a Peridotite
- 10b Pyroxenite
- 10c Serpentinite
- 10d Listwanite (calc-silicate alteration)

☐ 9 Felsic Intrusives
- 9 Unsubdivided
- 9a Granodiorite
- 9b Leucocratic granodiorite / quartz monzonite
- 9c Granodiorite / quartz diorite / diorite
- 9d Porphyritic granodiorite
- 9e Very fine grained leucocratic felsite

☐ 8 Mafic Intrusives
- 8 Unsubdivided
- 8a Diorite
- 8b Diorite / Gabbro
- 8c Porphyritic diorite / gabbro
- 8d Gabbro dike

☐ 7 Porphyritic Subvolcanic Rocks
- 7 Unsubdivided
- 7a Massive "Pristine" Quartz-Feldspar Porphyry
- 7b Massive Feldspar Porphyry

SUPRACRUSTAL ROCKS

☐ 4 Metasediments
- 4 Unsubdivided
- 4a Massive Wacke / Sandstone
- 4b Bedded Wacke / Sandstone +/- siltstone
- 4c Bedded Wacke / Sandstone +/- siltstone + chert layers
- 4d Calc-silicate bands (Amphibolitic)
- 4e Quartz Sweats (3-5% of rock)
- 4f Carbonate
- 4g Muscovite + Biotite Wacke

☐ 3 Felsic Volcanics / Subvolcanics
- 3 Unsubdivided
- 3a Massive rhyolite silicified
- 3b Massive < weak brittle fracturing / brecciation
- 3c Massive < mod-strong brittle fracturing
- 3d Intensely silicified / quartz vein
- 3e Massive, mod-strong brittle fracturing, > 3-5% pyrite
- 3f Prominant shear fractures (major scale)
- 3g Felsic Breccia / sulphide rich matrix
- 3h Highly sericitic
- 3i Spotted Rhyolite

☐ 2 Intermediate - Felsic Volcanic
- 2 Unsubdivided
- 2a Massive flow / tuff
- 2b Felsic - intermediate
- 2c Massive flow / tuff weakly / moderately fractured (brittle, local scale)
- 2d Weakly - moderately silicified
- 2e Prominant fracturing / shear fracturing (Major scale eg: H. Zone)
- 2f Porphyritic flow / subvolcanic
- 2x Feldspar crystal and / or felsic fragments, Brecciated / Fractured

☐ 1 Mafic Intermediate Volcanic
- 1 Unsubdivided
- 1a Massive flow
- 1b Porphyritic Flow
- 1c Mafic Volcaniclastic
- 1d Mafic gneissose volcanic
- 1x Brecciated / Fractured

The supracrustal rocks are comprised of metavolcanic and metasedimentary sequences. Due to lack of discernible top indicators, the age relationships of these sequences is unknown.

The metavolcanics form 2 sequences. In the center of the area (underlying much of the main grid) the main metavolcanics sequence forms a wedge that is at least 1200 meters thick in the northwest but thins to about 200 meters to the southeast of Zinc Lake. This southeast extension is poorly exposed except for 2 or 3 outcrops and is partly based on its airborne geophysical signature (resistivity low-moderate magnetic gradient high see Woolham, 1992). This main volcanic sequence is comprised numerous mafic, intermediate and felsic formations that form a complex interdigitating pattern. The relative age relationships of these various formations is not known and in fact some of the zones may be extensions related to one another but have been subsequently pulled apart by later deformation. A second volcanic sequence is situated in the extreme northeast corner of the Nizi 2 claim and is dominantly mafic in composition. The relationship of this second sequence to the first is not known.

All of the key mineralization known to date is hosted within the main metavolcanic wedge/sequence.

Map Unit 1: Mafic - Intermediate Volcanics

Mafic - intermediate volcanics are dominantly mafic (basaltic) in composition with greater than 35% mafic minerals. These rocks form about 35% the main volcanic sequence; they are more dominant in the northwest gradually giving way to more intermediate - felsic phases in the southeast. They also comprise all of the visible exposures in the second volcanic sequence in the extreme northeast corner of Nizi 2.

These rocks are dominantly comprised of fine- to medium-grained massive flows and lesser proportions of massive porphyritic (feldspar) flows. Locally there are brecciated and or highly fractured phases (map code 1X) that may in part be carbonatized and/or partly silicified. Rarely these rocks exhibit a weak more mafic banding that may reflect a volcaniclastic origin (map code 1C) or metamorphic reworking (map code 1d). Typically these rocks weather moderately to dark grey-green.

Map unit 2 Intermediate-Felsic Volcanics

Intermediate-felsic volcanic rocks are dominantly of andesitic to dacitic composition but locally exhibit a gradation into a more felsic (rhyolitic) composition. This more felsic phase may in part be due to silicification alteration and was coded "2b" of "2d" where appropriate. It is also possible that some of the rocks mapped as unit 2 may in part be silicified and/or carbonatized altered equivalents of the more mafic phases (unit 1). This may be especially the case in some of the intermediate (unit 2) rocks in the vicinity of the Gully Zones A and B (Map B-1) and in the vicinity of the "H" Zone (map C-1). In the field these intermediate volcanic rocks are light green, grey-green or grey to buff coloured and have a mafic content of 15 to 35% mafic minerals.

Intermediate-felsic volcanic rocks form the greatest proportion of the main volcanic wedge hosting the mineralization and are dominated by fine-to medium-grained flows and tuffs. Locally feldspar crystals are evident but for the most part discerning a pyroclastic or flow origin is difficult due to the fine grain size. Also these rocks locally exhibit strong shear fracturing (map code 2C) especially near the "H" zone and also local breccia zones (map code 2X).

Map Unit 3 Felsic Volcanic/subvolcanics

These rocks form the smallest proportion of the main volcanic sequence. They are generally massive, fine-grained light grey to buff to chalky white to locally black-coloured and contain less than 15% visible mafic minerals. Except for occasional diffuse, fine-grained (1-3m), white-weathering feldspars and feldspar crystal fragments these rocks are texturally nondescript. Locally the rocks exhibit a spotted, mottled black/white texture (map code 3C)

In the main volcanic sequence they form 2 major formations:

i) the more southern formation situated south of the 15N base line is poorly exposed but may be relatively continuous trending all the way into Gully Zone A;

ii) the northern formation, situated north of the 15N base line, is comprised of a series of lense-like zones varying up to 60 meters wide X 250 meters long. These series of lenses at one time may have been continuous but may have been attenuated during a later period of deformation.

Collectively the northern formation and the southern formation can be traced discontinuously for approximately 1500 m. The three south-easterly felsic lenses in the northern formation and host to or at least near to most of the known gold-bearing quartz vein/shear structures. These same three zones are nearly coincident with the gold soil geochemistry anomaly outlined by Rebagliati (1987).

Most of these rocks are believed to be of volcanic pyroclastic in origin. However at least portions are part flow and/or subvolcanic in origin and portions of them may be derived from silicification alteration. This may in fact be the case with the Gully Zones A and B.

Commonly the rocks in the northern formation exhibit weak to strong brittle fracturing/brecciation that may be in part either primary and/or secondary (due to later deformation). These felsic phases are variably sericitized with the most intense sericitization being confined to fractures and shears. A prominent sericite-rich zone (map code 3h) is situated between the Discovery and Grizzly Ridge Veins (map C-l). Black, very fine-grained tourmaline commonly occurs along some of the fine fracturing.

Map Unit 4 Metasediments

Metasediments form 2 major formations flanking the central volcanic wedge (map A). The metasediments are comprised of dominantly poorly bedded sandstone, minor siltstone and cherty siltstone/mudstone. Bedding, where observed, is poorly defined with diffuse bedding planes (except where the cherty layers are present). The sandstone units are commonly magnetic carrying disseminated 2-3% fine-grained magnetite. Near the north central part of Nizi 2 and the east part of Nizi 6 the metasediments contain isolated diffuse layers/lenses of mafic amphibole $\pm$ quartz veinlets/lenses and these are believed to be original calc-silicate layers with the quartz being of metamorphic origin. The development of the amphibole/quartz assemblage may be related to the mafic (diorite/gabbro) intrusives. Locally there are Fe-carbonate-rich bands/veins confined to local thin shears/shear fractures within the metasediments.

2.32 Intrusive Rocks

Map unit 7 Porphyritic Subvolcanic Rocks

Massive quartz-feldspar porphyry with mega-crystic K-feldspar crystals up to 3-5 cm forms two sills/dikes on the property. One sill is situated within the thin portion of the main volcanic sequence southeast of Zinc Lake and a second dike is situated in the granodiorite/quartz porphyry intrusive to the north of Zinc Lake (Map A). Both sills/dikes trend parallel to the regional geological trend.

The age relationship of these porphyries with respect to the other rocks is not known for sure. Their pristine condition and the fact that one location appears to be a possible dike in the felsic plutonic rocks suggests they have a young history. Where the intrusive-hosted dike crosses the creek flowing out of Zinc Lake, the outer 2-3 meter margin of the prophyry is intensely sheared. This shearing was either done by dragging during intrusion or this "dike?" is actually an inclusion in the felsic plutonic unit.

Map unit 8 Mafic Intrusive Rocks

Mafic intrusives form 2 bodies in the map area (map A). A small stock of diorite/gabbro is situated just south of Zinc Lake wedged between the metasediments and the main volcanic sequence. A more linear intrusive parallel to the regional geological trend is situated in the northern corner of Nizi 4 underlying Boo Lake (Map A).

These mafic intrusive phases are massive, fine-medium grained (locally diffuse portions are medium-coarse grained) and are dominantly diorite to gabbro in composition. They appear fresh, mostly unaltered and are grey to grey/black in the field. Locally there are rare silicified and sericitized zones in the small stock south of Zinc Lake. Fe-carbonate rich bands/veins are fairly common, confined to local shear fractures within these two intrusives. At two localities (the south side of the small stock and the northside of the Boo Lake Intrusive) the Fe-carbonate is concentrated along with disseminated 3-5% pyrite at the margin of these two intrusives.

The diorite/gabbro contains varying proportions of plagioclase+hornblende $\pm$ biotite $\pm$ minor quartz $\pm$ magnetite. The presence of the magnetite is the cause of the large airborne total field VLF-EM anomaly coincident with the Boo Lake intrusive (see map 7 in Woolham, 1992).

The fresh appearance and presence of rare mafic dikes in the felsic intrusive suggest it is one of the latest if not the latest intrusive in the map area.

Map Unit 9 Felsic Intrusive Rocks.

A large linear felsic intrusive is in contact with the north side of the main volcanic sequence. This intrusive is dominantly granodioritic to quartz-monzonite in composition. It is generally massive, fine-medium grained, equigranular (map codes 9a, 9b) to locally subtly porphyritic (map code 9d). Towards the southwest margin of the intrusive the rock is locally more intermediate in composition (map code 9c) and this may be due to hybridization along the contact. A single exposure of very fine grained, leucocratic felsic intrusive? (map code 9e) was found situated with and near the northwest end of the Boo Lake mafic intrusive. The variations noted above are subtle and these differences probably do not represent multiple phases - more likely the intrusive is a single phase pluton.

In the field the felsic intrusive is light pink to light grey and commonly exhibits a light rusty/gossany colour due to the common present of 1-2% weathered pyrite. The pyrite possibly represents a sulphide halo related to intrusion of the nearby Boo Lake Mafic Intrusive. The felsic intrusive commonly exhibits widely-spaced jointing trending north-northeast perpendicular to and possibly related to the mafic Boo Lake intrusive.

Map unit 10: Ultramafic Intrusives

Two small massive peridotite stocks intrude the metasediments in the southeast part of the map area (Nizi 6). These intrusives are locally sheared with serpentine (map code 10c) and calc-silicate alteration (map code 10d) associated with these shears. Minor fuchsite, pyrite and quartz stringers are also locally contained within these shears.

3.0 STRUCTURAL GEOLOGY

There is no field evidence to suggest that the two metasedimentary sequences and the two volcanic sequences are related to each other but whether or not the entire sequence is a simple homoclinal succession is not known.

There are numerous minor faults/shear fractures in the map area. The greater majority of these are situated within the main mineralized volcanic sequence on the main grid area. On an individual basis, most of these minor structures are less than 3 meters wide and there does not appear to be an area of major faulting in the map area. Two exceptions to the apparent absence of major deformation might be:

i) in the "H" zone area where the minor northwest-trending fault structures are numerous and fairly evenly spaced at 2-10 m intervals;

ii) the overall outline of the three felsic volcanic lenses in the southeast part of the northern felsic formation suggests they may be attenuated lenses related to major deformation but there is no evidence in the form of major shearing to support this theory.

3.1 Minor Structures

3.11 North to Northwest-Trending Faults

These are most evident in the vicinity of the "H" zone where they form dextral-trending shear/fractures varying from less than a few centimeters up to 2 or 3 meters wide. These shears are near vertical and are easily marked by more intense Fe-carbonate $\pm$ sericite alteration. In actual fact these structures are comprised of conjugate shears (dextral and sinistral) that trend at about 30 degrees apart; the dextral set tends to be the more prominent and through-going structure. These faults locally contain base metal mineralization such as in the "H" zone (map C-1), the sericite (3h) zone (map C-1), and in several unnamed zones in the vicinity of the "A" and "B" Gully Zones.

3.12 East to Southeast-Trending Shear/Fractures

Many of the quartz veins/veinlets found throughout the property and especially in the he vicinity of the key felsic volcanic lenses occupy shear/fractures that trend mostly between 100 degrees to 150 degrees azimuth. These shear/fractures average about 125 degrees azimuth which is approximately parallel to regional stratigraphy. This trend includes the east part of the Discovery quartz vein. These E-SE shears/fractures may be a conjugate system related to the N-NW trending faults.

3.13 North East - Trending Fractures/Jointing

The northeast-trending structures are found throughout the property including the granodiorite-quartz monzonite intrusive (unit 9). They are not that prominent in the mafic Boo Lake intrusive and in fact, their orientation (perpendicular to this intrusive) suggests these structures are related to the intrusion of this unit. In general these structures tend to be very narrow and unmineralized.

3.14 North to Northeast-Trending Shear/Fractures

These are similar to (but narrower than) the north to northwest-trending shear fractures in that they tend to host some of the base metal mineralization such as the "B" zone (map B-1). They are most abundant in the vicinity of the two Gully Zones.

3.15 Veins

Most of the veins in the area are comprised of quartz and quartz and/or carbonate but some zones of nearly massive carbonate are also present in the volcanics and sediments. The smaller quartz veins tend to be narrow and are commonly boudined. The largest quartz veins found on the property to date are the Discovery and the Grizzly Ridge Veins which are between 1-2 m wide

3.16 Breccia Zones

There are local breccia zones that we variably silicified found throughout the key volcanic stratigraphy. Some of these tend to be directional but many tend to be non-directional isolated patches that are irregular in shape.

4.0 ALTERATION

Visible alteration in the form of carbonate, Fe-limonitic staining silicification, sericite, and tourmaline are locally evident throughout the map area. The alteration is controlled by and is commonly more intense along the numerous shear/fractures/veins. Only the most evident and intense zones of carbonate, silicification and sericite are indicated on the maps.

4.1 Carbonate

Carbonate is a common accessory of many of the quartz veins. The massive carbonate is commonly Fe-rich, appearing as a deep red-brown stain and locally it forms as nearly massive structurally-controlled veins/lenses generally less than 0.3 meters wide. These nearly massive to semi-massive lenses tend to be discontinuous. Some of the more prominent zones occur in both volcanic and sedimentary sequences and as subparallel structures within and at the contacts of both the Boo Lake Diorite and the Diorite Intrusive near the east side of the main grid. Carbonate is also present along with serpentine in some of the shear/fractures associated with the ultramafic intrusives.

4.2 Fe-Limonitic Stain

An Fe-limonitic stain that is partly related to a continuation of weathering of Fe-sulphides and carbonate is present in many of the wider shears and shear/fractures throughout the main volcanic sequence and are especially abundant in the vicinity of the area between the 'H' Zone and Zinc Lake. In fact the presence of the stain helps to identify the presence of the shears and shear/fractures.

4.3 Silicification

Various intensities of silicification are present mostly within the main volcanic sequence but locally also within the metasediments. As previously indicated portions of the intermediate-felsic volcanics may be partly silicified equivalents of more mafic-intermediate phases. This may especially be the case of the extensive intermediate-felsic phases in the vicinity of the two Gully Zones (A and B). In most cases silicification forms as narrow, structurally controlled diffuse bands that have a similar structurally controlled habit to actual quartz/carbonate veining.

4.4 Sericite

Disseminated sericite is wide spread through out the more felsic volcanic units but is commonly concentrated in many of the Fe-limonitic-stained faults/shears/shear fractures. A zone of intense sericite (greater than 50%) is situated between the Discovery and Grizzly Ridge Veins and is mapped as unit 3H. This zone is thought to represent an intense fault that is a splay off of the "H" Zone/Discovery Vein Structure.

4.5 Tourmaline

A very fine-grained black mineral is evident along abundant hairline fractures in many of the intermediate-felsic and felsic volcanic units between the "H" zone and Zinc Lake. These black fractures are believed to be a mixture of very fine silica/quartz plus tourmaline.

5.0 MINERALIZATION

5.1 General Statement

Economically interesting mineralization is mainly associated with minor shear/shear fracture structures within the main volcanic sequence. A few minor quartz ± carbonate ± pyrite ± chalcopyrite shears/veins are hosted by both metasedimentary sequences and the Diorite/Quartz Diorite (Boo Lake) Intrusive but to date these appear to be economically insignificant. Disseminated pyrite is found in large irregular patches throughout the felsic intrusive (map unit 9) northeast of Zinc Lake. All of this mineralization appears to be epigenetic, associated with quartz/carbonate veins controlled by shears/shear fractures.

Three main types of economically interesting mineralization are present in the map area:

i) gold ± silver ± sphalerite ± galena ± chalcopyrite associated with quartz/carbonate veins/breccia in the felsic volcanic units. (dg Discovery, Grizzly Ridge, Suprise Veins, Sericite Zone)

ii) sphalerite + galena + silver ± gold ± rare chalcopyrite associated with shears/shear fractures ± quartz/carbonate veins/breccia in intermediate and intermediate-felsic volcanics (partly silicified). This base-metal dominant mineralization can be further subdivided into zones that are

   a) semi-massive - massive characterized by no quartz that contain very low to nil gold values (H Zone)
   b) semi-massive to disseminated/pods of sulphides associated with some quartz ± carbonate veins/breccia/lenses that con - tain low-moderate gold values.

Both of these quartz poor and quartz present base metal types do contain some very high silver values (up to 96 oz/ton Ag in the "B" zone).

iii) gold ± silver ± sphalerite ± galena associated with silicified zones in the felsic volcanic unit near the key area (Discovery Vein and Sericite Zones) and the Zinc Lake occurrence.

As a general rule, for gold to be present, one of two key requirements are needed: the presence of quartz and/or the presence of significant amounts of sulphides. Both of these in general require the presence of a structural focus.

5.11 Rock Sampling

A list of all rock samples taken on the property, including their location, description, mineralization and sample type (grab, float, chip, channel) is given in Appendix 1. Copies of the original assay results are given in Appendix 2. The location of the samples are plotted on maps A, B-2, C-2 and D. Only those assays greater than 100 ppb gold have been plotted with the sample numbers shown on the various maps. Almost all of the sample numbers have the prefix "SP:" and fall within the range 49001 to 50740. However, the samples taken in this range do not form a continuous sequence. Approximately 30 samples numbered 4371-4400 have a "GP" prefix. In a few cases where previous sample sites from previous workers were located these are also shown on the various maps. These latter numbers include:

i) a few RGC#'s from Regagliati (1990) in the Zinc Lake Zone (map C-2)

ii) NZ#s from Augsten (1987) - mostly in the Zinc Lake Zone (map C-2) plus a few in the "B" Zone (map B-2)

iii) a few RC#'s from unreported previous 1991 Gold Fields sampling in the Zinc Lake Zone (map C-2)

iv) a few 79,000 series samples from Cavey and Chapman - Grizzly Ridge Vein (map C-2)

Chip sampling was done by hammer and chisel while channel sampling was done using a diamond saw. The channel sampling was confined to only the

Discovery Vein (map D) and the Surprise Vein (map C-2). All float samples taken were in the form of a grab sample.

5.12 Assaying

The program was essentially precious-metal oriented and all samples were analyzed by T.S.L. Laboratories in Saskatoon, Saskatchewan for gold and silver. A few samples in the vicinity of the "B" zone gully area and the "H" zone were also analyzed for zinc, lead and/or copper. The samples were all initially analyzed geochemically and those indicating values greater than 1000 ppb Au, 50 ppm Ag, 5000 ppm Zn, 5000 ppm Pb were further defined using a fire assay procedure. A more detailed description of the Laboratory procedure is given in Appendix 2.

5.2 Mineralized Zone

5.21 Gold-Bearing Quartz Veins

Gold-bearing quartz veins are spotted throughout the main volcanic sequence. In the key area they occupy the east-southeast trending shear fractures (Discovery Vein, Surprise Vein, Sericite Zone) and locally south-southeast-trending structures (Grizzly Ridge Vein). North-south trends are indicated in the vicinity of Zinc Lake and northwest to northeast trends are apparent in the vicinity of the Gully Zones A and B. On surface, most of these veins to date are narrow (less than 0.5m) with the largest being the Discovery Vein (1.5 - 2.5 meters - see map D). Most of the smaller veins appear to be discontinuous over 10's of meters but some like the Grizzly Ridge Vein can be traced for up to 150 meters.

These veins typically are white to grey blue to locally limonitic-stained and contain fracture controlled pockets of sphalerite + galena $\pm$ chalcopyrite and silver. Locally there are hairline fractures with tourmaline and also abundant zones of barite.

Surface sampling on the property to date indicates the Discovery Vein area has the best potential. Grab samples (see map D) have returned numerous values of greater than 0.5 oz/ton including several values in the 1.03 to 4.55 oz/ton range. Channel sampling across this Discovery Vein (map D) have returned values of:

Channel Cut #	Au oz/ton	Ag/oz/ton	Width (meters)	Strike Distance between successive cuts (meters)
1	0.79	35.6	2.0	4.6
2	0.44	31.3	3.5	9.1
3	0.26	17.4	1.0	22.9
4	0.045	5.55	1.0	

The relationship of the Surprise Vein (60m to the southeast) to the Discovery Vein is not known but it appears to be a second unrelated vein. Channel sampling there returned the following assays:

Channel Cut #	Au oz/ton	Ag oz/ton	Width (meters)	Strike Distance between cuts (meters)
1	0.19/1.3m	13.5/0.8m		7.62
2	0.063	14.5	1.0	

Selected grab samples (SP 50600, 50601) of the Surprise Vein have returned higher values of 0.58 and 0.4 respectively. As a general rule the samples returning the higher values in both of these veins usually have fracture-controlled, disseminated and podiform blebs of chalcopyrite $\pm$ sphalerite $\pm$ galena. The high gold values also tend to return high silver values up to as much as 160 oz/ton Ag in grabs.

In the Discovery Vein area almost all of the samples that assayed significant gold were taken from the actual quartz vein or had some quartz vein component. However, there are a few samples taken of felsic volcanic or silicified felsic volcanic near to the quartz vein that also ran gold (Sp 49502 = .042 oz/ton Au, 13 oz/ton Ag; Sp 49533 = .24 oz/ton Au/1.4m chip; SP 49534=0.574 oz/ton Au). Also the spotted rhyolite (white porphyroblasts) map unit 3i and the black rhyolite locally carry anomalous but low gold values.

There are numerous other minor, thin quartz veins situated throughout the Discovery Vein - Zinc Lake area within the intermediate - felsic volcanic sequence. Many of these assayed only low anomalous gold values. There is however a general concentration of structurally unrelated quartz veins that assayed higher gold values (greater than .04-.05 oz/ton Au) in the area adjacent to and along a 140 degree trend marked out by the "H" Zone Discovery Vein, Surprise Vein and Sericite Zone.

The Grizzly Ridge Vein is poorly exposed and yielded low anomalous gold values up to 270 ppb Au (SP 49511). A previous sample from Cavey and Chapman however assayed 0.094 oz/ton Au.

In the west part of the main grid there are numerous quartz-veins that carry gold values. Within the confines of the more intermediate to felsic (silicified?) map phases (especially Gully Zone A) many of the quartz veins are oriented north-northwest parallel to the stratigraphy. However outside of this Gully Zone A the dominant direction of veining is north to northeast (see map B-1 area L1450-1600W/1300-1500N). These veins are generally narrow (less than 0.5 m) and rarely up to 1.5 m. Overall the veins appear to be randomly oriented, discontinuous and unrelated to any single structure. Three veins located outside; of the Gully zones at L15+75W/15+00N, L15+25W/13+75N and L16+10W/14+50N) all assayed up to 0.13, 0.36 and 0.22 oz/ton Au respectively. All of these veins trend approximately east but exhibit spotty high assay values.

At Zinc Lake there is a large zone of intensely carbonatized silicified felsic volcanics. Within this sequence there are numerous north-trending quartz veins. Previous sampling has indicated the highest gold values are generally in the range of .034 to .099 oz/ton Au. (see Cavey and Chapman 1992 - zone E, Pg. 10). Sampling during the present program indicated some of the carbonatized host rocks are also locally anomalous in gold but the values are low (< 300 ppb gold). The highest value taken in this area was from a shear zone with 2-5% py which assayed 0.199 oz/ton Au (SP49088).

5.22 Gold + Silver Bearing Base Metal $\pm$ Quartz structures/Zones

Most of the mineralized zones within the "H" Zone and Gully Zones A and B are characterized by abundant, disseminated to semi-massive to massive sphalerite$\pm$ galena $\pm$pyrite $\pm$ chalcopyrite associated with or without quartz. The ratio of sphalerite/galena/chalcopyrite is commonly in the order of 10:2:<0.5 but all variations in this combination are possible. While the "H" Zone is dominantly semi-massive to massive sulphides and quartz

poor on surface, the base metal mineralized shears/shear fractures in the Gully Zones contain varying amounts of quartz. In the case of the latter zones, the quartz is locally observed to vary in content along strike such that the same structure is mainly base metal rich at one point but along strike is characterized by an increased quartz component.

The "H" zone mineralization carries significant sphalerite + galena but over a fairly narrow width of 1 to 2 meters. Grab sampling (SP 494539 - 49544) returned 0.01 to 0.068 oz/ton Au, from 2 to 18.3 oz/ton Ag, from 6.24 to 18.3% Zinc and up to 7.5% lead. The best chip sample (SP 49544 returned 0.066 oz/ton Au, 8.11 oz/ton Ag and 32.1% Zinc over 1.8 meters.

The base metal-bearing shear/fractures associated within and near the two Gully Zones (A and B) are generally much narrower than the "H" zone and probably average less than 20 cm in width. However some of these zones returned spectacular silver values up to 100 oz/ton Ag (SP 50698). There appears to be a fairly direct relationship with base metal content and silver content. Gold appears to be more sporadic with the higher values being in the range of 0.1 to 0.2 oz/ton Au. The best gold zones associated with the base metal mineralization in the Gully Zones trend north and northeast. Near Gully Zone A, grab samples (SP 50707-710) from a sphalerite + galena + quartz bearing north-trending structure located at L14+75W-15N yielded values of 0.096, 0.19, 0.31 and 0.35 oz/ton Au and up to 4.8 oz/ton Ag. A 2 m chip sample (SP 50706) in the same area returned 0.155 oz/ton Au. Sampling in the "B" zone near Gully Zone B has returned values up to 0.098 oz/ton Au and 96.5 oz/ton Ag (SP 50641). Another mineralized zone just north of the "B" zone returned a grab value of 0.108 oz/ton Au (SP 50590).

In places gold values are associated with sulphide-rich (mainly pyrite) shear/fractures that are splays off of the main quartz filled shear fractures. An example of this situation is located at L4W-15+20N where samples (SP49071-49074) of the quartz vein were only anomalous (75-660 ppb) in gold while a related sulphide filled fracture (SP 49072) returned an assay of 0.25 oz/ton Au.

5.3 Other Mineralized Zone

5.31 Diorite-Hosted Carbonate ± Quartz ± Chalcopyrite Zones

Within the Boo Lake Diorite Intrusive there are several major carbonate-rich shear zones that locally contain discontinuous lenses of quartz and disseminated/blebs of chalcopyrite. The most extensive of these zones,

located near the east boundary of Nizi 4, is 3-10m wide and traceable for 200-300 meters along its southeast strike. However none of the samples (SP 50512-50517) returned any significant gold values. Sampling in other carbonate zones in the same vicinity also returned nil gold values.

A similar carbonate-rich contact zone occurs on the south side of the Diorite situated at the Southeast extension of the Main Grid but sampling there also returned nil gold values. A few narrow quartz/carbonate shear zones near the west end of this same diorite did return very low anomalous gold values (less than 130 ppb Au) and one 6" quartz vein returned a value of 0.59 oz/ton Au (SP49189)

5.32 Ultramafic-Hosted Carbonate ± Quartz ± Serpentine Shear Zones

Narrow shear zones are locally present in the ultramafic intrusive which underlies the southeast part of the main grid. Sampling (SP50550-50558) returned a high of 120 ppb Au but fairly significant silver values (3.88 to 27.8 oz/ton Ag).

6.0 SOIL GEOCHEMISTRY

6.1 Location and Soil Profile

Soil sampling was completed over the southeast extension of the main grid and on two lines (LW4 and L6W) extending south from the main grid. This work was done to define the strike potential/extension of the previous geochemical anomaly outlined by Rebagliati (1987) and Augusten (1987). This part of the soil geochemical sampling was completed by the crew establishing the grid (ie: Orequest Consultants Ltd.).

Soil sampling was also completed over several isolated grid areas to the east of the main grid. These smaller reconnaissance grids were located over unexposed geophysically "interesting" areas as defined by the airborne geophysical survey (Woolham, 1992). The positions of these grids are shown on Map A. In general these grids were located over electromagnetic conductive zones some of which had associated magnetic highs. This sampling work was done by a 2 man Gold Fields Canadian Mining crew.

The areas where most of the sampling was done are in a high alpine environment but for the most part the slopes were only moderately steep. On the Main Grid (South and Southeast Extension) and grids K4/K5 and N there is a thin to moderate veneer of colluvium which supports grass,

moss and some small annual leafy plants which locally grow to 0.5 meters in height. The soil profile consists mainly of stabilized talus locally with an immature c-horizon developed that supports the above vegetation. About 10-15% of the area is comprised of coarse talus with minimal fines and/or unstabilized talus. Both grids K6 and RS are in lower elevation areas where the colluvium appears to be much thicker and the soils may be partly comprised of partly reworked moraine material. This is especially the case in grid RS which is partly covered by moraine material left behind by receding alpine glaciers and has been partly reworked by braided streams from spring runoff. In the sampling, none of the sample types were distinguished but, except for grid RS, at least 95% of the samples could be classified as "talus fines".

6.2 Sample Procedure

The sampling was done on 25 meter spacings. A total of 275 samples were taken on the south and southeast extensions of the main grid and 350 samples were taken on the various recon grids. Each sample was placed in a numbered kraft paper bag and shipped to T.S.L. Laboratories in Saskatoon, Saskatchewan. The previous soil sampling Rebagliati (1987), Augusten (1987) had indicated an excellent near coincident correlation of gold in soil (greater than 50 ppb Au) to the felsic volcanic horizons and the key gold zones especially between the "H" zone and Zinc Lake. Therefore it was decided to analyse the present samples for only gold. The procedure for the gold analyses is given in appendix 3 and the results for the various grids are given in appendices 3a through 3e.

6.3 Results of Soil Sampling

6.31 Main Grid-Southeast Extension

This portion of the main grid was extended to help outline anomalous gold silver, zinc mineralization (associated with the diorite) sampled in the "F" zone described by Augsten (1987, pg 12, 15). The results (appendix 3a, figure 5) are negative except for a spot high of 0.1 oz/ton Au (L2E=13+75N) and anomalous values of 15-620 ppb Au (LlE/14-15N) and 20-200 ppb Au (L2E/19-21N). These are a few narrow anomalous gold-bearing quartz veins in the vicinity of the first two sites but they are not coincident with the geochemistry. The geochemical anomaly at L2E/19-21N undoubtedly reflects the Zinc Lake Zone mineralization and represents a 200 m extension of the main soil geochemical anomalie previously outlined in this area. The results on L12E indicate this soil anomalie does not extend to the south east.

NIZI PROJECT

SOIL GEOCHEMISTRY

MAIN Grid – EAST

Scale 1:5000

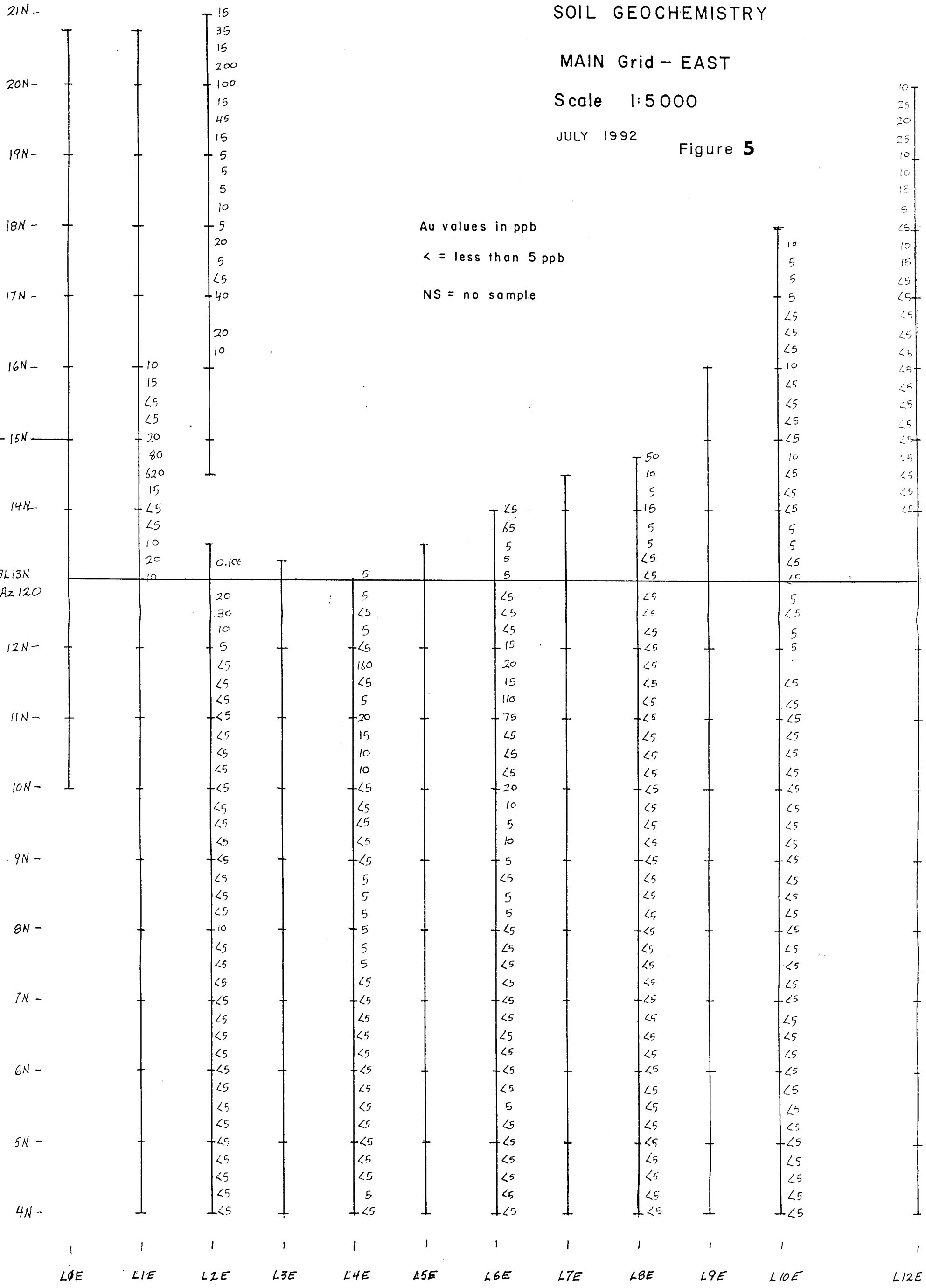
JULY 1992

Figure **5**

Au values in ppb

< = less than 5 ppb

NS = no sample



See Map A for grid locations.

6.32 Main Grid-South Extension

This portion of the main grid was extended to further define a small geochem soil anomalie in the extreme south part of the original grid as defined by Rebagliati (1987-figure5). Previous nearby sampling in the area had returned values up to 0.084 oz/ton Au and 1.37 oz/ton Ag (Cavey and Chapman 1992, pg 10) but much of the area is poorly exposed. The sample results (appendix 3b, figure 6) indicated only a few low anomalous values (10-110 ppb Au) down to about 8N - approximately 250 meters south of the previous geochemical anomaly. No exposure was observed in the area to explain the geochemistry.

6.33 Grid K6

Grid K6 was placed to test a long airborne EM conductor situated within the possible strike extension of the key volcanic sequence. (In fact it could mark an actual contact). Except for a few spotty weak values up to 20 and 25 ppb Au the results (appendix 3c) are negative (figure 7).

6.34 Grid K4/K5

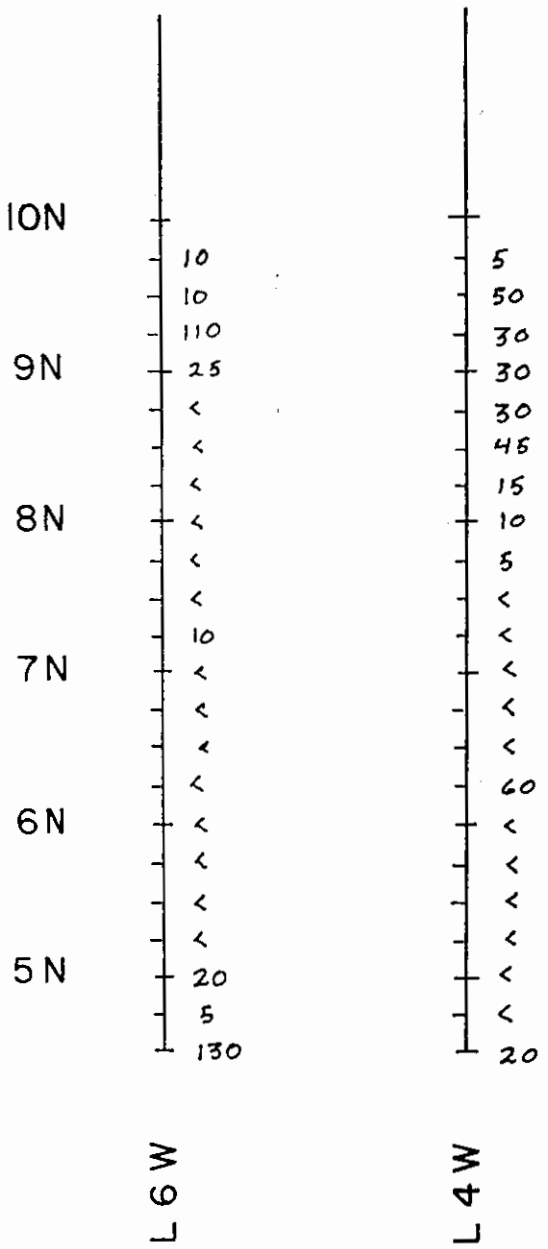
Similarly Grid K4/K5 was placed to cover 2 weak, small conductors as outlined by the airborne geophysical survey. The area is underlain by metasediments and the possible strike extension of the key volcanic stratigraphy. The results (appendix 3d, figure 8) indicate a few minor elevated values (35-60 ppb Au) in the vicinity of LIW/0+50 south but, overall, the values appear to indicate no economic significance.

6.35 Grid RS

The grid was completed to cover 2 weak but sizeable airborne conductors (conductors R & S, Woolham 1992) situated in the second mafic volcanic sequence in the northeast corner of the property. All results (appendix 3e, figure 9) were completely negative and this may be a reflection of the surmised deeper overburden cover.

6.36 Grid N

Grid N was located over a small conductor situated in the granitic intrusive. Except for 1 spot 90 ppb Au value (L2-1+75N) (appendix 3E, figure 10) all values were negative.



Au values in ppb

= less than 5 ppb

NS = no sample

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SOIL GEOCHEMISTRY

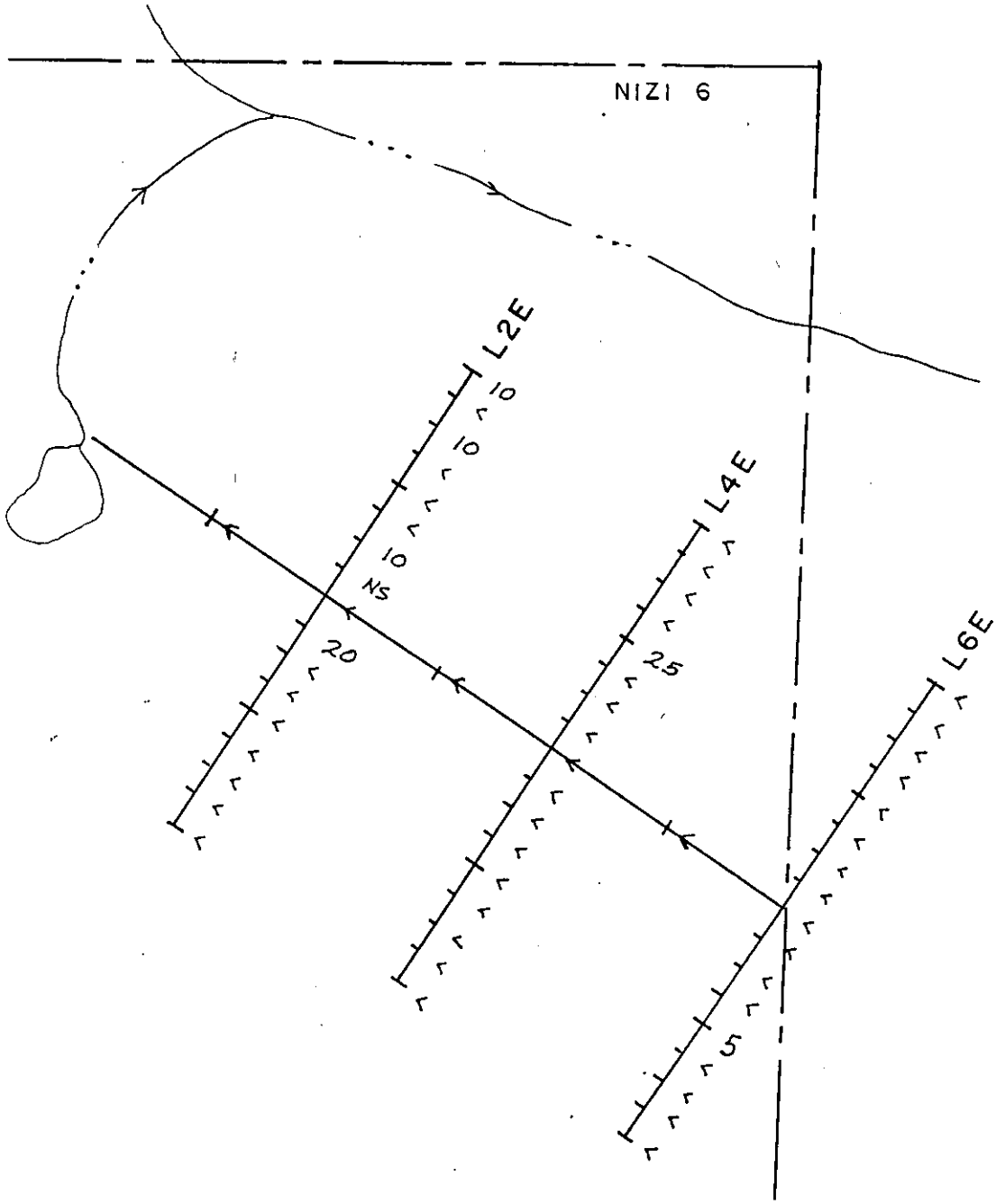
Main Grid – South Extension

Scale 1:5000

JULY 1992

Figure **6**

See Map A for grid locations.



Au values in ppb

< = less than 5 ppb

NS = no sample

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SOIL GEOCHEMISTRY

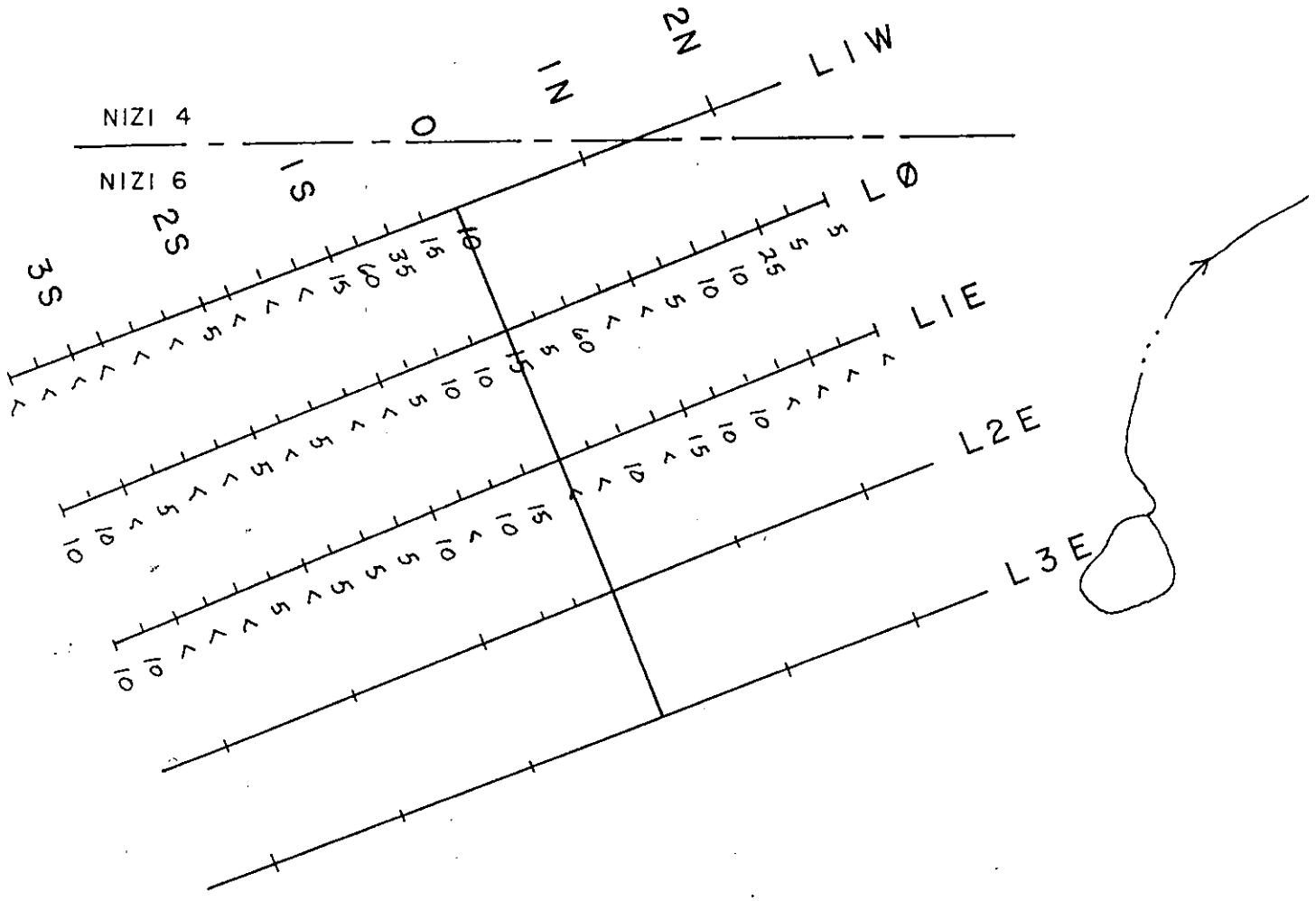
K6 Grid

Scale 1:5000

JULY 1992

Figure 7

See Map A for grid locations.



Au values in ppb

< = less than 5 ppb

NS = no sample

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SOIL GEOCHEMISTRY

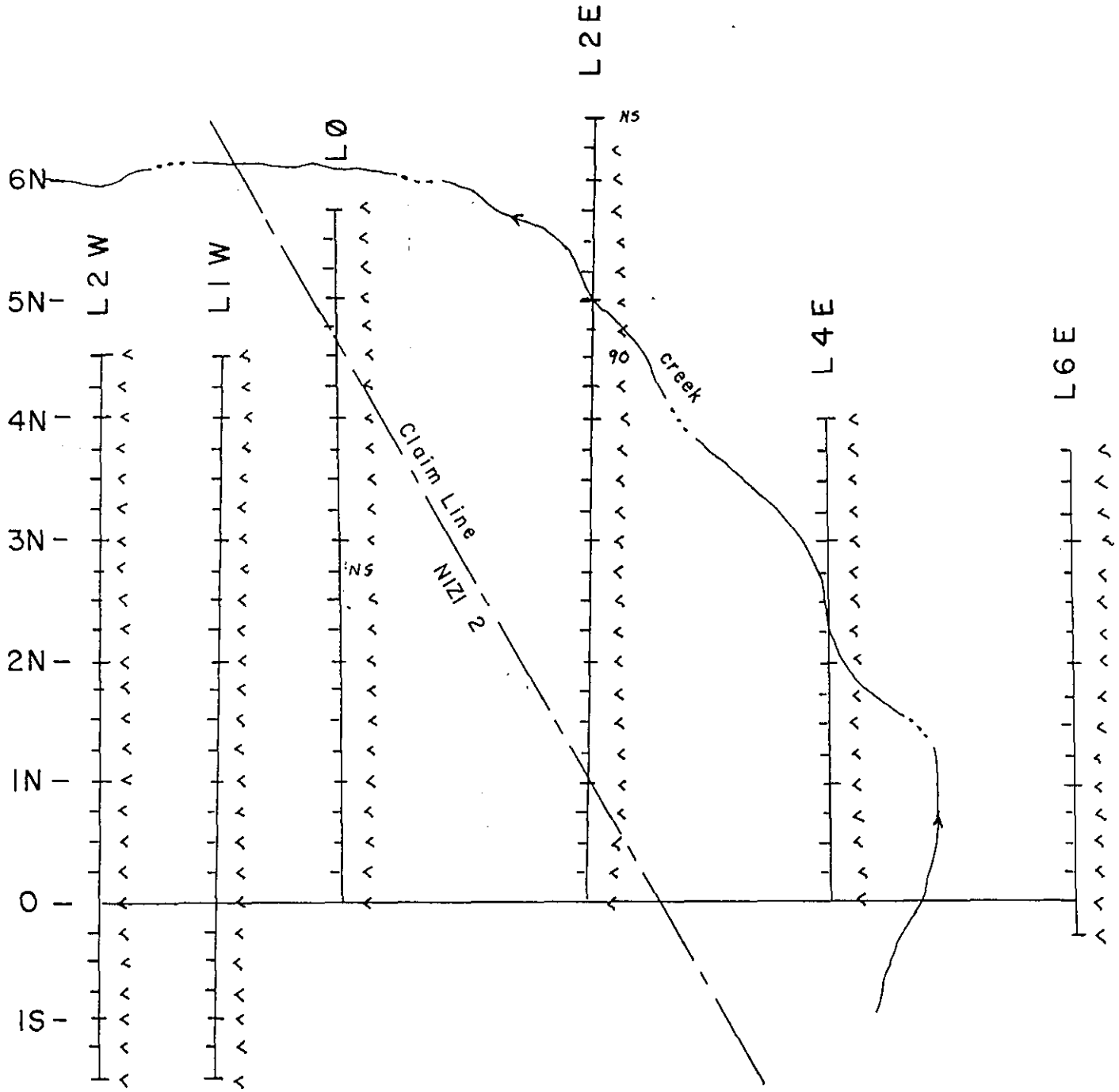
K4/K5 Grid

Scale 1:5000

JULY 1992

Figure **8**

See Map A for grid locations.



Au values in ppb

< = less than 5 ppb

NS = no sample

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SOIL GEOCHEMISTRY

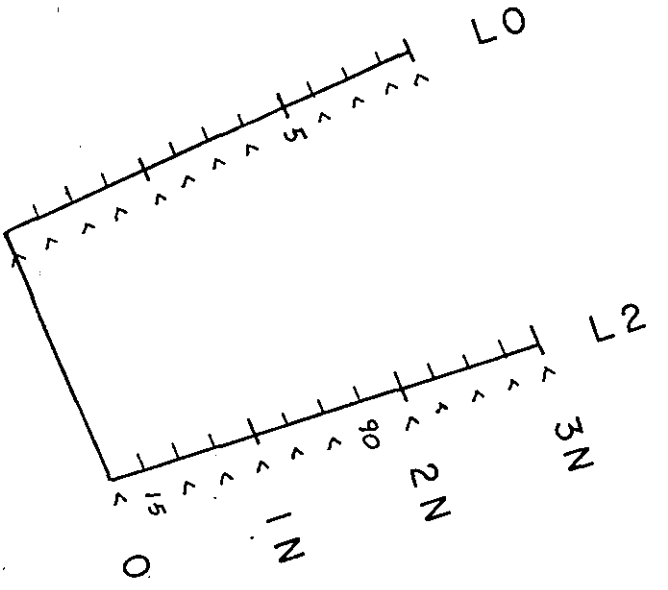
R S Grid

Scale 1:5000

JULY 1992

Figure 9

See Map A for grid locations.



Au values in ppb

< = less than 5 ppb

NS = no sample

NIZI PROJECT

SOIL GEOCHEMISTRY

N Grid

Scale 1:5000

JULY 1992

See Map A for grid locations.

Figure 10

6.4 Summary Statement

Overall, the present soil geochemistry program served to:

i) limit the southeast strike potential of the previous key geochemical gold anomalie to the area northwest of Zinc Lake;

ii) indicate that the best gold in soil anomaly remains essentially in the area defined by the previous sampling.

7.0 DIAMOND DRILL PROGRAM

7.1 Drill Program

The highest gold/silver values on the property to date are associated with the:

i) Discovery-Surprise Veins;

ii) the quartz veins and base metal structures near and within the Gully Zones A and B;

iii) the "H" zone has only moderate gold values but has returned significant silver, zinc and lead values, (up to 0.042 oz/t Au, 11.1 oz/t Ag, 18.3% Zn, 2.3% Pb/1.524m).

Five holes totalling 3141 feet (957.38m) were completed between August 18th and 28th, 1992 to test these zones.

The diamond drill program was carried out by:

Falcon Drilling Ltd.
P.O. Box 2520
Prince George, B.C.
V2N 2S6

The drilling was done using a DMW 65 Hydraulic Drill which provided a core size of BDBGM (1.654" or 4.2 cm).

Two of the five holes were drilled to test the Discovery/Surprise Vein structures but also included testing of the sericite zone. A third hole tested all of these veins/structures including the Grizzly Ridge Vein. The remaining two holes tested the "H" zone and Gully Zone A. A summary of the drill hole location data and target is given in Table 4 (following page).

Hole #	Location (Grid Ref)	Map #	Azimuth /Dip	Length (meters)	Collar	Target Elevation (meters)
1	L6+64W/ 16+38N	C-1	210/-45	130.45	1778	Discovery Vein
2	L6+00W/ I6+50N	C-1	215/-45	237.14	1741	Suprise + strike extent of Discovery Veins
3	L9+05W/ 16+19N	C-1	054/-47	225.55	1820	"H" Zone
4	L7+99W/ 15+28N	C-1	069/-45	182.27	1800	Grizzly Ridge Vein Sericite Zone, Discovery Vein (deeper intersection)
5	L15+45W/ 14+46N	B-1	058/-45	181.97	1730	Gully Zone A
			TOTAL	957.38M		

TABLE 4: Summary of Diamond Drilling

7.2 Drill Results

The drill holes are located on maps B-1 and C-1. All analyses and the method of analysis is given in appendix 4 and detailed drill logs are given in appendix 5 (in a separate binder from this report). Drill Sections showing the individual holes #1 to 5 are given in the map file folder for this report. It should be noted that one of the sections (section 6+65W) shows a sixth hole. This sixth hole was drilled by the joint venture partner (Gold Giant Minerals Inc.) and is not reported on in this assessment report.

The three holes (#1 2, and 4) that tested the main Discovery Vein area intersected the expected stratigraphy as observed on surface and indicated continuity of the zones/structures. The sericite-rich (unit 3h) zone on surface yielded only anomalous gold values .01-.05 oz/ton Au except for 1 sample (#78,998) taken by Cavey and Chapman. This sample taken just north of the main 3h unit assayed 0.345 oz/ton Au. Because of the low surface values the economic significance of the 3h unit was not recognized until after the interpretation of the drill program results. Holes 1, 2 and 4 indicated continuity of the Sericite Zone, Discovery Vein

and Grizzly Ridge Vein. The former two zones appear to dip vertical while the Grizzly Ridge vein dips steeply (-75 degrees) southwest. On at least two sections the sericite zone (6+65W and 6+00W) and the Discovery Vein Zone (6+65W and N39 degrees E) appear to be increasing in width. The sericite zone contained a much higher quartz/silica component at depth than on surface. Correlation of the Suprise Vein in hole #2 (section 6+00W) was difficult but it is possible that it might correspond to an area of higher silver mineralization (2.29 oz/tonAg/1.52m).

Although the various zones are structurally continuous the gold values indicated by the drilling are inconsistent. Only one hole (#l) returned significant gold values and these appeared to be associated with the Sericite Zone. This zone intersected up to 0.37 oz/ton Au, 5.89 oz/ton Ag/0.52 m in a zone averaging 0.167 oz/ton Au/13.77 m. The drill intersections of the Discovery Vein (hole #1 - .066 oz/t Au/6.86m; hole #2 - .032 oz/t Au/.61m, hole #3 - .032 oz/t Au/1.52m - see sections) were much lower in grade than indicated in the surface sampling.

Hole #3, which tested the "H" Zone did intersect a thin (0.4 m) band of massive sulphides (sphalerite + galena) plus other zones of disseminated sulphides (pyrite + chalcopyrite) but none of these assayed any gold. However, a thin (0.31m) quartz vein did assay 2.09 oz/t Au, 61.4 oz/t Ag/0.31 m.

The last GFCM drill hole (#5) was drilled to test the Gully Zone A (map B-1) situated approximately 0.9km west of the main discovery zone. This hole tested an area of numerous, anomalous gold surface grab samples which assayed from 0.1 - 0.3 oz/ton. The hole intersected a wide (18.8m), strongly silicified zone carrying 1-2% disseminated pyrite but all assays were negative.

7.3 Conclusions

While the drilling indicated continuity of the gold-bearing structures at depth the assay values are considerably lower than some of the surface assays.

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List of Personnel

GOLD FIELDS CANADIAN MINING CREW

W. Bond	Supervisor
I. Cunningham Dunlop	Geologist
R. McIntosh	Geologist
G. Scott	Geologist
B. Baker	Geologist Assistant
E. Moriarty	Geologist Assistant
M. Porter	Cook/First Aid

OREQUEST CONSULTANTS LTD

W. Raven	Geologist
D. Pickston	Geological Technician
T. McGowen	Geological Technician
R. Mackie	Geological Technician
S. Sheldon	Student Assistant

FALCON DRILLING CREW

K. Blackett	Driller
R. Good	Driller
B. Shorter	Drillers Helper
K. Sundale	Drillers Helper

STATEMENT OF COSTS

GEOLOGICAL SURVEY (June 29-August 15)

SALARIES (field work)

W. Bond 19 days at 345.00/daY	organization, mapping	$ 6,555.00	
I. Dunlop 49 days at 300.00/day	sampling	$14,700.00	
R. McIntosh 40 days at 240.00/day	mapping, sampling	$ 9,600.00	
G. Scott 46 days at 240.00/day		$11,040.00	
B. Baker 36 days at 150.00/day*	stripping,channel	$ 5,400.00	
E. Moriarty 38 days at 150.00/day*	sawing,sampling	$ 5,700.00	
M. Porter 49 days at 240.00/day	cook	$11,760.00	
		$64,755.00	

*approximately 18 days each or $5400.00 spent on stripping of the Discovery Vein and Suprise Veins and channel sampling (physical labor)

SALARIES (report writing, compilation)

W. Bond 17 days at 350.00/day		$ 5,950.00	
W. Zalken 13 days at 200.00/day	drafting	$ 2,600.00	
L. McDermott 10 days at 130.00/day	typing	$ 1,300.00	
		$ 9,850.00	

SALARIES(field preparation)

I. Dunlop 15 days at 287.00/day	$ 4,300.00	
R. McIntosh 5 days at 240.00/day	$ 1,200.00	
G. Scott 5 days at 240.00/day	$ 1,200.00	
	$ 6,700.00	
		$81,305.00

CAMP CONSTRUCTION (OREQUEST)

mob/demob	$ 5,600.00	
lumber etc. supplies	$ 9,500.00	
transportation costs	$11,000.00	
field costs (salaries)	$ 6,000.00	
equipment rental (2500.00/mo)	$ 6,250.00	
(May 20 - Sept. 5 = 2.5 mon	$38,350.00	$38,350.00

LINECUTTING (OREQUEST)

61.94 km at 220.00/km + GST		
Main Grid (total)	$14,580.00	$14,580.00

SAMPLING ASSAYING

(sample prep (3.70) + Au, Ag (geochem) (9.35)
+10% Au Assay (8.00) +GST = 14.85/sample
650 samples at 14.85 = $9,650.00 $ 9,650.00

TRANSPORTATION (air)

B.C. Border - Vancouver 6 trips at 250.00	$ 1,500.00	
Vancouver - Dease/Smithers 10 grips at 350.00	$ 3,500.00	
Fixed Wing Dease Lake to camp 17 trips at 385.00/trip	$ 6,545.00	
Helicopter 74.3 hours at 775.00/hour (includes fuel+GST)	$57,582.00	
Truck Rental 2.5 month at 1800/mon. (includes gas)	$ 337.00	
	$73,964.00	$73,964.00

RADIO COMMUNICATION RENTALS

$920.00 X 1.75 months	$ 1,610.00	$ 1,610.00

SUBSISTANCE(food) $ 6,545.00

SUPPLIES (field) $ 8.100.00

EXPEDITING SERVICES (including freight charges) $ 3,190.00

FUEL(gas + deisel for camp + propane) $ 5,750.00

ACCOMODATION $ 1,200.00

COPYING, ZEROX, MAPS (for report) $ 110.00

TELEPHONE $ 600.00

TOTAL (Geol. Surv.) $244,954.00

GEOCHEMICAL SURVEY

SALARIES (field)

i)	MAIN GRID -	included in cost of linecutting in geological report		
ii)	OTHER GRIDS			
		B. Baker 10 days at 150.00/day	$1,500.00	
		E. Moriarty " " "	$1,500.00	
			$3,000.00	$ 3,000.00
	(Report Writing)			
		W. Bond1/2 day at 350.00	$175.00	
		W.Zalken 1 day at 200.00	$200.00	
			$375.00	$ 375.00

SAMPLING

625 soil samples at $8.93	$5,581.25	$ 5,581.25

FREIGHT(shipping)

1 fixed wing flight camp to Dease Lake	$385.00	
Bandstra trucking to Smithers	$100.00	
	$485.00	$ 485.00

HELICOPTER

8.0 hours X 775.00	=	6200.00	$ 6,200.00
		TOTAL (Geochem Survey)	$15,641.25

DIAMOND DRILLING (Aug. 16 - Sept. 5)

SALARIES*(field)

W. Bond (Supervising)	20 days at 350.00/day	$ 7,000.00	
I. Dunlop Geologist	16 days at 300.00/day	$ 4,800.00	
R. McIntosh Geologist	21 days at 240.00/day	$ 5,040.00	
B. Baker(core splitter)	22 days at 150.00/day	$ 3,300.00	
E. Moriarty "	22 days at 150.00/day	$ 3,300.00	
M. Porter (cook/lst aid)	21 days at 240.00/day	$ 5,040.00	
	*includes 5 days to demob camp + transportation home		
N. Baker (Gold Giant Consultant)	3 days at 500.00/day	$ 1,500.00	
		$29,980.00	$29,980.00
(Report Writing)			
I. Dunlop	6 days at 300.00/day (data entry into computer)	$1,800.00	
W. Bond	Report writing, creating sections, interpretation 6 days at 350.00/day	$2,100.00	
		$3,900.00	$ 3,900.00

DRILLING AND RELATED COSTS

3,141 ft at 16.75/foot	$52,611.75	
16 diptests at 30.00 each	$ 480.00	
moving/setup/tear down 56 hours at 30.00/hr	$ 1,680.00	
water line emplacement 53 hours at 30.00/hr	$ 1,590.00	
mob/demob 153.5 hours at 30.00/hr	$ 4,605.00	
pad building 102.5 hours at 27.50/hr	$ 2,818.75	
Standby time 25 hours at 30.00/hr	$ 750.00	
hole stabalization/reaming 9 hours at 30.00/hr	$ 270.00	
travel time 46 hours at 30.00/hr	$ 1,380.00	
materials and supplies	$ 1,592.84	
materials rental (generator, Sperry Sun)	$ 2,623.50	
materials consumed	$ 2,340.00	
GST	$ 4,796.80	
TOTAL DRILL COSTS	$77,538.76	$77,538.76

TRANSPORTATION COSTS

Chopper mob of drill 33.7 hrs X 775.00	$26,175.00
demob of drill 29.52 hrs X 775.00	$22,875.00
moving and setups 44.71 hours X 775.00	$34,650.00
TOTAL HELICOPTER	$83,700.00

Fixed Wing 12 trips X 385.00/trip	$ 4,620.00	
Truck Rental 0.75 month X 1800/month	$ 1,350.00	
Bandstra truck rental	$ 1,980.00	
Sample shipping freight	$ 2,300.00	
TOTAL (trans costs)	$93,950.00	$93,950.00
SAMPLE ASSAYS 766 samples X 13.52	$10,356.00	$10,356.00
COMMUNICATION		
Radios 920.00 X 0.5	$ 460.00	
Telephone transmitter installation + rental	$2,800.00	
	$3,260.00	$ 3,260.00
FOOD SUPPLIES		$ 2,200.00
EXPEDITING SERVICE		$ 1,350.00
FUEL propane, gas/deisel		$ 1,100.00
TELEPHONE		$ 280.00
TOTAL (DIAMOND DRILLING)		$223,914.76

CERTIFICATE

I, William D. Bond, of the City of North York, Province of Ontario, do hereby certify that:

I am a professional geologist residing at 137 Alfred Avenue, Willowdale, Ontario, M2N 3J1

1. I have an Hons. B. Sc. (1970) from the University of Waterloo and an M. Sc. (1973) from the University of Manitoba.

2. I have been practising my profession for 23 years and am a Fellow of the Geological Association of Canada and the Prospectors and Developers Association of Canada.

I am presently employed by Gold Fields Canadian Mining, Ltd. with office located at:

123 Front Street West, Suite 909
Toronto, Ontario
M5J 2M2
416-865-0945

I participated in and supervised the field work described in this report.

I have no direct or indirect interest in the property covered by this report, nor in any corporation or other entity whose value would be affected by conclusions expressed herein.

Dated at Toroto, Ontario
this 24th day of March 1993

William D. Bond

APPENDIX 1: Sample Descriptions for Grab/Chip Assays

SAMPLE #	LOCATION	DESCRIPTION	MINERALIZATION	SAMPLE TYPE	VALUE (ppb or oz/ton Au) unless indicated otherwise
49001	Discovery Vein Area	Felsic Volc/Rhyolite silicified	1-2% py	1m chip	200
49002	" "	" "	1-5% py	1m chip	45
49003	" "	" "	3-10% py	1m chip	40
49004	" "	" "	3-5% py	1m chip	30
49005	" "	" "	3-7% py, tr gal	1m chip	25
49006	"	Int. felsic Volc, silicified	2-5% py, barite	grab	10
49007	" "	Fel. Volc/Rhyolite	5-10% py	grab	15
49008	L5W, 16+25N	Int. fel. volc. sil'd	3-5% py	grab	400
49009	L1W cirque	" "	3-10% py	"	280
49010	L1W-10m NE of 49009	" "	7-10% py	"	35
49011	L1W-100m NE of 49009	" "	2-3% py	"	15
49012	L5+95W,15+28N	" "	" "	"	10
49013	L5+80W,15+20N	Qz Vn(6")in int.fel. volcanic	1-2%	6" chip	45
49014	L5+55W,15+18N	Qz vn(3") in " "	1% py	grab	320
49015	L5+55W,15+20N	int. fel.volc/tuff stronge Fe	1-2%py	2' chip	40
49016	L5+55W,15+20N	Qz vn (6") in int. fel volc Mod. Fe	1-2% py	6" chip	110
49017	L5+55W,15+20N	Int fel volc/tuff strong Fe	1-2% py	2' chip	80
49018	L5+70W,15+35N	Qz vn (6") int.fel. vol. strong Fe	1-3% py	6" chip	50
49019	L5+45W,15+15N	" "	1-10% py	grab	230
49020	L5+50W,15+25N	Shear zone in fel. vol. stronge Fe+lim	2-3% py	3' chip	30
49021	L4+50W,15+20N	Bull qz vn (6"-1')	1%py	grab	45
49022	L4+80W,15+00N	qz vn (2"-6")in maf. int wk carb.	3-5% py	grab	10
49023	L4+75W,15+00N	qz vn (6"-1') in maf. int.	1-2% py	1' chip	70
49024	L4+05W,15+00N	Felsic volc. strong Fe	1-2% py	4' chip	55
49025	L3+80W,14+95N	Felsic Volc. wk-med sil'n	1-2 py	2' chip	< 5
49026	L3+50W,15+20N	Felsic-int. Volc. Strong Fe+lim.	3-5% py	grab	200
49027	L3+70W,15+25N	Felsic-int. volc.	2-3% py	"	35
49028	L2+40W,15+40N	Felsic Volc/rhyolite	1-2% py	"	5
49029	L2+40W,15+45N	" "	2-3 % py	"	25

SAMPLE #	LOCATION	DESCRIPTION	MINERALIZATION	SAMPLE TYPE	VALUE (ppb or oz/ton Au)
49030	L1+10W,16+00N	int.felsic volc/rhyolite sil'd	1-2% py	grab	<5
49031	L0+90W,16+20N	Felsic.volc/rhyolite sil'd	1-2% py	4' chip	5
49032	L0+55W,16+50N	Shear/Bx zone in Felsic	1-2% py	3' chip	5
49033	10+55W,16+50N	" "	1-3% py	"	20
49034	L0+55W,16+50N	" "	1-2% py	"	15
49035	L0+55W,17+10N	Intxtal tuff, mod. wil'n	1% py	grab	<5
49036	L0+75W,16+60N	int tuff/breccia zone sheared + frac'd	1% py	3' chip	<5
49037	L0+75W,16+60N	" "	1-2% py	3' chip	<5
49038	L1+10W,16+40N	Felsic volc/rhyolite Mod. sil'n	1-2% py	grab	20
49039	L1+15W,16+40N	Int. lap tuff/breccia strong ser'n	1-3% py	4' chip	<5
49040	L1+05W,16+75N	int. lap. tuff/breccia strong lim + Fe	3-7% py	3' chip	<5
49041	L1+25W,16+65N	" "	3-10% Py	2' chip	5
49042	L1+25W,16+65N	Felsic Volc/rhyolite strong Fe+lim	2-5% py	3' chip	5
49043	L1+50W,16+60N	Int. tuff/volc. wk sil'n	2-5% py	grab	<5
49044	L1+50W,16+60N	" "	3-5% py	grab	<5
49045	L1+40W,16+70N	Int xtal tuff wk-mod sil'n	3-5% py	2' chip	10
49046	L1+20W,16+10N	Felsic volc/rhyolite Mod. sil'n	1-3% py	grab	<5
49047	L1+50W,16+50N	Int. felsic volc.strong sil'n	3-5% py	"	<5
49048	L1+60W,16+20N	Shear gossan zone in felsic	2-5% py	1.5'chip	630
49049	L1+60W,16+00N	"black" rhyolite strong sil	3-5% py	2' chip	15
49050	L1+65W,16+00N	" "	3-5% py	3' chip	10
49051	L1+90W,15+85N	" "	3-7% py	3' chip	25
49052	L1+90W,15+85N	"	2-5% py	"	20
49053	L1+80W,15+85N	"	10-15% py	float sample	20
49054	L6+00W,16+75N	Int. tuff mod. sil'n	2-3% py	grab	<5
49055	L6+10W,16+85N	" "	3-7% py	"	10
49056	L6+10W,16+85N	Int. felsic tuff st. Fe	3-7% py	"	10
49057	L5+75W,16+65N	Int. tuff, strong sil'n	3-7% py	"	15
49058	L5+60W,16+35N	Int. felsic tuff st. sil'n	3-5% py	"	30
49059	L5+20W,16+20N	" "	3-7% py	"	70
49060	L5+10W,16+15N	Int. felsic volc/rhyolite Strong sil'n strong Fe	3-5% py	2' chip	110
49061	L6+20W,15+35N	felsic volc/gossan intense Fe	2-5% py	float sample	650
49062	L4+90W,15+55N	shear/frac zone in int.	1-2% py	3' chip	5

SAMPLE #	LOCATION	DESCRIPTION	MINERALIZATION	SAMPLE TYPE	VALUE (ppb or oz/ton Au)	
49063	L4+95W,15+70N	Shear/frac zone in int. strong Fe	2-3% py	1' chip	5	
49064	L3+40W,16+40N	Maf-int xtal tuff	1-2% py	grab	5	
49065	L3+50W,16+40N	Shear zone at int/maf strong Fe	2-5% py	1' chip	440	
49066	L3+55W,16+45N	Int. tuff wk-mod sil'n	3-5% py	grab	55	
49067	L3+45W,16+45N	Int. tuff, strong sil'n	3-5% py tr. gal	float sample	15	
49068	L3+70W,16+45N	Gossan in int-fel tuff strong Fe	3-5% py	1' chip	230	
49069	L3+10W,15+35N	Felsic volc/rhyolite strong Fe	2-5% py	grab	35	
49070	L3+10W,15+30N	Felsic Volc/gossan int. Fe	3-5% py	2' chip	< 5	
49071	L4+05W,15+20N	Qz vn. (1') in int. tuff	3-5% py	1' chip	75	
49072	L4+05W,15+20N	Splay off Qz vn Int. Fe	10-20% py	grab	> 1000	0.25
49073	L4+05W,15+20N	qz vn Intense Fe	5-10% py	folat sample	660	
49074	L4+00W,15+20N	qz. vn (1') in int tuff	2-3% py, tr gal	1 ' chip	30	
49075	L1+95W,16+10N	Felsic vein/shear zone strong Fe + lim	3-5% py	grab	65	
49076	L0+60W,16+20N	"Black" fhyolite st. Fe	3-5% py	"	180	
49077	L0+15W,16+35N	Felsic volc/rhyolite	2-3% py	"	< 5	
49078	L0+60E,15+60N	Mafic Volc/intrusive	1-2% py	"	10	
49079	L0+35E,14+95N	Diorite wk sil'n + ser'n	Tr py + gal(?)	"	< 5	
49080	L0+40E,14+90N	" Mod ser'n+sil'n	3-5% py tr gal + cpy	"	< 5	
49081	L1+05E,14+55N	Diorite, Stronge Fe	Semi-massive Py, Cpy	float sample	300	
49082	L1+05E,24+55N	" Minor Alt'n	Tr py	grab	< 5	
49083	L1+05E,14+55N	Shear zone (1") in diorite strong Fe	semi-massive py	grab	< 5	
49084	L1+50E,15+75N	Diorite/mafic Vol. strong Fe	1-2%py tr sph	grab	< 5	
49085	L0+85E,16+10N	Diorite, strong Fe	1-2% py	float sample	30	
49086	L0+95E,16+15N	Diorite, mod sil'n	2-3% py	grab	< 5	
49087	L0+90E,16+25N	Diorite, strong Fe	1-2% py	"	20	

SAMPLE #	LOCATION	DESCRIPTION	MINERALIZATION	SAMPLE TYPE	VALUE (ppb or oz/ton Au)
49088	L0+90E,20+05N	shear zone/fel. volc. strong Fe	2-5% py	2' chip	>1000 0.199
49089	L0+95E,20+10N	int. felsic volc	2-3% py		
49090	L1+00E,20+15N	shear zone/fel. volc strong Fe	3-5% py	grab	200
				"	410
49091	L0+90E,20+15N	int. xtal tuff	2-5% py		
49092	L0+95E,20+05N	felsic volc/rhyolite	2-5% py	"	35
49093	L1+50E,19_55N	rhyolite/qz vn. strong Fe	10-15% py	"	130
49094	L1+40E,19+60N	argillic rhyolite, strong Fe	3-5% py	float sample	760
49095	L1+40E,19+70N	rhyolite, strong Fe	3-5% py	grab	55
49096	L1+30E,19+65N	rhyolite/sulphide bx	10-20% py	"	70
49097	L1+30E,19+65N	rhyolite/sulphide bx	5-15% py	"	390
49098	L1+25E,19+55N	shear zone in rhyolite argillic	3-5% py	1' chip	>1000 0.038
49099	L1+30E,19+80N	qz vn (4") in rhyolite	5-10% py	1.5' chip	40
49100	L1+30E,19+78N	" "	5-10% py	4' chip	>1000 0.088
49101	L1+30E,19+76N	" "	5-10% py	"	" 0.056
49102	L1+30E,19+80N	sheared argillic rhyolite	2-3% py	4' chip	310
49103	L1+30E,19+80N	qz vn (5') in rhyolite	5-10% py	3' chip	360
49104	L1+35E,19+75N	qz vn (2') in rhyolite	3-5% py	5' chip	>1000 0.082
49105	L1+35E,19+75N	sil'd zone/qz vn in rhyolite	2-3% py	2'chip	830
49106	L1+40E,19+75N	sheared argillic rhyolite strong Fe	2-5% py	4' chip	40
				"	45
49107	L0+50W,19+45N	diorite/mafic flow,strong Fe	1-2% py	grab	15
49108	L0+40W,19+60N	gossan zone in int tuff stronge Fe	3-5% py	4' chip	160
49109	L0+40W,19+60N	felsic volc/rhyolite strong Fe	2-5% py	float sample	10
49110	L1+65W,19+70N	int. tuff, strong Fe	3-5% py	grab	10
49111	L0+65W,20+25N	diorite(?), stronge sil'n	3-5% py	"	>5 —
49112	L0+40W,20+40N	diorite/mafic flow,strong sil'n	2-5% py	"	"
49113	L1+00W,20+85N	gossan zone in diorite,strong Fe	1-2% py	"	70
49114	L1+10W,21+10N	qtz-feld porphyry,strong Fe	1% py	"	>5 —
49115	L1+10W,21+20N	gossan/bx zone in int. intense Fe carb.	2-3% py	"	20
49116	L0+25W,18+80N	int xtal tuff, med sil'n	2-3% py	"	340
49117	L0+20W,19+00N	int-felsic volc. strong Fe+lim	2-3% py	2' chip	<5
49118	L0+25W,19+00N	int. felsic volc. strong lim+Fe	2-3% py	1' chip	"
49119	L0+50W,17+95N	mafic-int. xtal tuff	3-5% py tr. po	3' chip	45
49120	L0+50W,17+95N	qz/shear zone fe staining	3-5% py	grab	<5
49121	L0+50W,18+25N	shear zone in int. tuff	2-3% py	2' chip	"
49122	L0+50W,18+35N	int. tuff, strong fe, carb sil'n	3-5% py, 2-3% s	float sample	370
49123	L0+45W,18+35N	int. tuff-edge of shear zone	2-5% py	grab	20

49124	L0+45W,18+35N	shear/gossan zone	2-3% py tr sph	2.5' chip	130	
49125	L0+45W,18+35N	shear/gossan zone	1-2% py	3' chip	45	
49126	L0+50W,18+45N	qz vn/sil'd zone,med-st. Fe	1-2% py	2' chip	<5	
49127	L0+40W,18+30N	qz vn (8") in ser. schist strong Fe	2-5% py	3' chip	"	
49128	L0+35W,18+30N	int-felsic volc.	1-3% py	"	80	
49129	L0+60W,17+20N	"black" rhyolite,strong sil'n	3-7% py	grab	100	
49130	L0+60W,17+20N	" "	2-5% py	grab	5	
49131	L1+00W,17+20N	felsic volc/rhyolite strong Fe	1-2% py	"	"	
49132	L1+50W,17+50N	shear zone in int. tuff,strong Fe	1-2% py	1' chip	"	
49133	L6+50W,15+80N	qz vn in rhyolite	tr-1% py	grab	530	
49134	L6+57W,15+85N	" "	1-2% py	"	290	
49135	L6+50W,15+85N	" "	1-2% py	"	160	
49136	L6+45W,15+83N	" "	1-2% py	"	20	
49137	L6+50W,15+90N	" "	2-5% py, 1-2% gal	grab	>1000	0.098/0.104
49138	L6+50W,15+90N	qz stringers in rhy.	2-5% py, 1-2% gal	"	"	0.0346/0.342
49139	L6+55W,15+95N	qz vn in rhyolite	1% py	"	610	
49140	L6+25W,16+90N	qz in float	tr-1% py	grab/float sample	530	
49141	L6+25W,16+85N	qz stringers in rhy. strong Fe	tr-1% py	grab	640	
49142	L6+20W,15+80N	qz zone/sil'd rhyolite	tr-1% py, tr gal	grab	>1000	0.062
49143	L6+35W,15+65N	qz units in rhyolite	1-2% py	"	40	
49144	L6+25W,15+70N	qz vn in rhyolite	1-2% py	"	220	
49145	L2+65W,16+90N	int tuff. strong Fe	2-5% py	"	490	
49146	L2+75W,17+00N	int tuff/flow, strong Fe	5-10% py local masses	"	>1000	0.178/0.178
49147	L1+55W,16+60N	felsic-Int. volc, strong Fe	1-2% py	2' chip	60	
49148	L1+70W,16+20N	felsic-int. volc, sheared	1-2% py	"	25	
49149	L1+90W,16+20N	" "	3-7% py	grab	5	
49150	L1+90W,16+70N	qz vn in int. tuff, wk-mod carb.	tr- 1% py	grab	>1000	0.108
49151	L1+90W,16+90N	felsic - int volc.strong Fe+lim	5-10% py	2' chip	85	
49152	L1+90W,17+00N	felsic volc. strong Fe	5-20% py	grab	25	
49153	L1+90W,17+15N	int. tuff/flow	1% py	"	<5	
49154	L1+90W,17+15N	int. xtal tuff, sheared	2-7% py	"	100	
49155	L1+90W,17+15N	Int. tuff, local Fe	band of semi massive Py+sph	"	>1000	0.148/-.156
49156	L1+90W,17+15N	int. tuff, local Fe	band of semi massive py+sph	1' chip	"	0.147
49157	L1+95W,17+15N	qz vn, rhyolite/int contact	1-2% py, tr gal	grab	25	
49158	L1+45W,18+55N	mafic-int tuff, sheared	1-2% py	4' chip	35	
49159	L0+40W,18+75N	sil'd int. tuff, sheared	1-3% py	grab	30	
49160	L0+75W,18+50N	sil'd int tuff, strong ser'n	2-5% py	1.5' chip	140	
49161	L0+75W,18+50N	int. tuff, strong ser'n	2-3% py	6" chip	25	
49162	L1+00W,18+25N	mafic-int xtal tuff, intense sil'n	1-2% py	grab	<5	
49163	L1+45W,18+50N	felsic volc/rhyolite	1-2% py	1' chip	30	
49164	L1+40W,18+55N	" "	1-2% py	"	35	

49165	L1+00W,19+25N	mafic-int. tuff, sheared strong Fe carb,	1-2% py	3' chip	40
49166	L1+00W,19+75N	int-felsic tuff	1-2% py	grab	70
49167	L1+05W,19+75N	qz carb. breccia, strong sil'n	2-5% py	float sample	30
49168	L0+95W,19+75N	felsic volc. strong ser'n	1-2% py	grab	50
49169	L1+60W,18+35N	felsic volc/rhyolite, strong Fe	3-5% py	"	<5
49170	L1+90W,17+75N	" " "	2-5% py	"	35
49171	L2+50W,17+75N	qz vn in int volc (6")	1% py	6" chip	>60
49172	L2+40W,17+80N	qz/py vn in int. volc.strong Fe	seimi-massive py (2-3%)	"	10
49173	L0+90W,20+80N	alt'd int. volc (?)	1% py	grab	<5
49174	L0+90W,20+85N	gossan, highly def'd	1-3% py	"	"
49175	L0+95W,20+95N	gossan, Med. sil'n, strong Fe	1-2% py	float sample	45
49176	L1+00W,20+85N	gossan, strong Fe carb,	1-3% py	"	70.
49177	L1+00W,21+05N	cherty sediment, wk Fe.	1% py	grab	10
49178	L0+95W,21+20N	gossan, strong Fe carb.	1-3% py	float sample	120
49179	L1+00W,21+95N	qz mass. in diorite	1% py	grab	<5
49180	L0+70E,21+20N	"black" whyolite, intense sil'n	3-5% py	float sample	5
49181	L0+75E,21+05N	qz vn float, intense Fe	2-3% py	"	<5
49182	L1+85E,19+45N	felsic volc/rhyolite,strong sil'n	2-5% py	frost heave grab	<5
49183	L1+85E,19+55N	felsic volc/rhyolite,	3-5% oy	" "	15
49184	L0+90E,20+00N	felsic volc/rhyolite, strong Fe	3-5% py	3' chip	590
49185	L2+00W,11+30N	gossan, intense Fe carb.	1-2% py	float sample	10
49186	L2+00W,11+65N	gossan, Fe carb breccia,	nil- 1% py	" "	<5
49187	L2+00W,11+65N	quartz float, minor carb + Fe	nil	" "	"
49188	L2+05W,12+00N	qz. carb. vn (1") diorite	3-5% py	grab	<5
49189	L2+02W,12+00N	qz/sulphide vein, strong Fe	10-15% py, 3-5% sph, tr gal	6" chip	>1000 0.586/0.599
49190	L2+00W,12+50N	diorite, sheared, strong Fe	1-2% py	2' chip	210
49191	L2+20W,12+35N	gossan, intense Fe carb.	1-2% py	grab	30
49192	L3+15W,11+10N	dioritic-Py shear, strong Fe	5-10% py	"	100
49193	L3+50E,13+10N	qz vn (2-3") in diorite,	1-2% py	"	<5
49194	L1+30E,12+25N	qz carb. (1-2:) in diorite	<1% py	"	"
49195	L1+15E,12+25N	gossanous float, strong Fe	2-5% py	float sample	80
49196	L1+00E,10+25N	diorite, wk sil'n.	2-3% py	"	<5
49197	L3+65E,13+05N	biotite schist/sed, qz stringers	1% py	"	"
49198	L4+75E,13+50N	py/sph shear (1-2") in sed. strong Fe	5-10%, 3-5% sph	grab	25
49199	L3+05E,12+50N	qz vn/frost heave	<1% py	grab	<5
49200	L2+70E,12+80N	gossan in talus, strong sil'n	3-5% py	float sample	<5
49201	L2+25E,12+75N	gossan in talus, intense Fe car.	2-3% py	"	100
49202	L2+75E,12+40N	greywacke/siltstone,	1-2% py	grab	
49203	L2+75E,12+40N	shear/breccia zone, strong Fe	2-3% py	3' chip	
49204	L2+75E,12+40N	biotite-rich sediment	1% py	grab	
49205	L2+60E,12+10N	calc-silicate bands, sil'd,	1-2% py	"	
49206	L2+60E,12+10N	gossan/calc-silicate strong Fe	<1% py	"	

49207	L2+90E,12+10N	gossan/calc-silicate strong-intense Fe	<1% py	"	<5
49208	L4+80E,11+85N	greywacke/siltstone	3-5% py, 1-2% sph	"	150
49209	L4+80E,11+85N	" "	2-3% py, 1-2% sph ?	3' chip	200
49210	L4+80E,11+85N	" "	2-3% py, 1-2% sph ?	4' chip	280
49211	L4+70E,11+50N	wacke/fg volc.	2-5% py, po,	grab	<5
49212	L4+70E,11+50N	qz vn in (1') wacke/volc	2-3% py + po	"	<5
49213	L4+79E,11+40N	qz vn in wacke, strong Fe	3-5% py	1' chip	130
49214	L4+70E,11+35N	sil'd wacke/volc, intense sil.	3-10% py	grab/float	<5
49215	L4+40E,11+25N	gossan in wacke, mod-strong sil'n	3-10% py	grab	<5
49216	L6+30E,10+75N	bull qz vn (2'),	<1% py	2' chip	<5
49217	L6+10E,10+60N	qz vn/felsite dike	<1% py	3' chip	<5
49218	L6+20E,10+75N	gossanous float, strong Fe	3-5% py+po	float sample	<5
49219	L6+80E,11+85N	Bull qz vn (4')	<1% py	4' chip	<5
49220	L6+80E,11+85N	sheared volc/sediment	1-2% py	3' chip	<5
49221	L6+85E,11+80N	qz vn in (3') sediments	<1% py	3' chip	<5
49222	SE corner of NW part of Nizi group	mafic volc. strong Fe	3-10% py	float sample	300
49223	" "	" "	3-7% py	3.5' chip	590
49224	" "	carb. breccia zone,strong Fe	1-2% py	grab	<5
49225	" "	mafic volc. mod. sil'n	3-5% py, 3-5% mal	grab	340
49226	" "	brecciated mafic vol, strong Fe	3-7% py	grab	40
49227	" "	sulphide zone in siltstone intense Fe carb.	5-15% py, 5-10% mag	2' chip	0.04
49228	" "	volc/diorite contact, strong Fe	<1% py	grab	10
49229	" "	" "	<1% py	grab	15
49230	" "	diorite, strong Fe carb.	1% py	grab	<5
49231	" "	Mafic volc. intense Fe	5-10% po, 2-3% cpy,	grab	<5
49232	NW corner of airphoto A3, NW part of Nizi group	sediments-qz vn (4")	<1% py	grab	<5
49233	" "	sediments, wk sil'n,	3-5% py	grab	5
49234	" "	wacke/siltstone, strong Fe	2-5% py	1' chip	5
49235	" "	sil'd/py bands in seds, strong Fe	3-5% py	2' chip	<5

SAMPLE #	LOCATION	DESCRIPTION	MINERALIZATION	SAMPLE TYPE	VALUE(ppb or oz/ton Au)
49501	7+00W,15+55N	intermed. vol. qtz. stringers	1-2% py	grab	50
49502	7+05W,15+80N	felsic volcanic (rhyolite)	gossneous-leached py	grab over 3m	>1000 0.042
49503	" "	" "	Tr-1% py	grab	420
49504	7+50W,16+00N	felsic volcanic (rhyolite)	gssneous	1.5m chip	360
49505	14+00W,18+00N	Interm. volc. Q.V. smokey	1-3% Ga. tr. py	2m grab	20
49506	14+00W,18+10N	felsic volc. sil. rhy. sph.	15-20% sph (highly gssneous)	grab	520
49507	7+40W,16+23N	Interm. volc. Q.V. smokey	tr. py	1.7m chip	790
49508	" 16+19N	" "	1-2% py	1.6m chip	>1000 0.056
49509	" "	" " "	Tr py	2.6m chip	>1000 0.145
49510	7+41W,16+19N	" " "	2-3% py	2.8m chip	860
49511	8+00W,15+85N	rhyolite	1-2% f.g. diss. py	2.5m chip	270
49512	7+90W,16+00N	felsic volcanic gossneous	3% py	1m chip	40
49513	" "	" "	tr py	1m chip	40
49514	8+50W,15+90N	felsic-interm. volc. sil'n	1-3% py	grab	<5
49515	8+20S,17+00N	felsic-Volc (rhyyolite)	tr py	2m chip	45
49516	" "	" "	1% py	3m chip	80
49517	" "	" "	tr py	grab	95
49518	10+00W,15+50N	fel. volc. mod sil'n	tr py	2m chip	70
49519	6+80W,15+90	fel. volc. (rhy)	tr-2% py	2.3m chip	>1000 0.419
49520	6+80W,15+91N	fel. intermed.	n.v.s.	1.0m chip	>1000 0.122
49521	6+86W,15+90N	" "	3-5% py	1.2m chip	" 0.078
49522	6+93W,15+90N	intermed. volc.	n.v.s.	30cm chip	" 0.074
49523	" "	" "	tr py-cpy. ma	40cm chip	" 0.131
49524	7+60W,15+25N	felsic volc.	5-7% py	grab	70
49525	9+10W,15+45N	felsic-interm. volc.	tr py	75cm chip	20
49526	9+09W,15+45N	"	1% py	70cm chip	90
49527	10+50W,18+50N	"	n.v.s.	grab	<5
49528	10+20W,19+30N	felsic volcaic	leached gssneous	grab	"
49529	10+50, 20+24N	"	tr py	3m chip	10
49530	8+75 TL (H zone)	felsic volc.	30% sp, 5% ga, tr py	1m chip	10
49531	" "	"	15% py, tr ga. sp.	grab	35
49532	6+00W,15+62N	black rhyolite	5% py	50cm chip	830
49533	" "	" "	1-2% py	1.4m chip	>1000 0.242
49534	" "	" "	leached py	grab	" 0.574
49535	" "	" "	1-3% py. tr. ga	60cm chip	260
49536	6+60W,17+25N	" "	5-30% py	grab	290
49537	6+75W,17+25N	Interm. felsic volc. sil'n	7-10% py	grab	15
49538	6+50W,18+50N	felsic volc.	n.v.s.	grab	5
49539	10+00W,16+75N	" "	50-70% sp. 3-5% py	1m chip	65
49540	" "	" "	" "	1.5m chip	>1000 0.042

49541	9+00W,17+00N	" "	70% sp. 10% ga. 5% py	2.8m chip	280
49542	" "	" "	" "	High grade grab	>1000 0.068
49543	9+00W,17+50N	" "	25% total sulphide py	grab	450
49544	9+00W,17+75N	" "	30% " " "	1.8m chip	>1000 0.066
49545	7+37W,16+80N	int. volcanic	2-3% py	grab	<5
49546	7+75W,16+90N	" "	3-5% py	"	25
49547	7+60W,17+20N	" "	1-3% diss/fract py	"	60
49548	7+50W,17+50	" "	2% py	"	50
49549	7+60W,17+30	" "	n.v.s.	"	>1000 0.030
49550					
49551	Ridge N of Zinc Lake	granite/qtz monz	nil	grab	5
49552	" "	" "	nil	"	<5
49553	" "	" " strong Fe	nil	"	20
49554	" "	pristine Q.F.P.	tr py	"	<5
49555	" "	granodiorite/qtz monz.	tr -1% py	"	<5
49556	NE corner of Nizi A6	shear frac zone in Granodiorite	nil	5' chip	15
49557	By river below Zinc Lk	granodiorite, biotitic	1-2% py	"	<5
49558	L0-24N near to of talus	granodiorite/qtz. monz.	nil sulphides	"	10
49559	" "	" "	" "	"	<5
49560	Nizi Creek bed	granodiorite/qtz.diorite	2-4% py+po, tr cpy	"	<5
49561	" "	" "	2-4% po,	"	<5
49562	" "	granodiorite	2-3% py	"	10
49563	" "	granodiorite/qtz. diorite	nil sulphides	"	<5
49564	" "	green pristine Q.F.P.	" "	"	<5
49565	" "	granodiorite	tr. py	"	<5
49566	Above Zinc Lake	int.-maf. volc.	tr. py	"	<5
49567	Top of ridge, N of Au Zn	granodiorite/gossan	2-4% po + py	"	<5
49568	" "	" " "	2-3% po	"	<5
49651	6+39W,15+40N	int. volcanic, qtz vein	n.v.s.	float	50
49652	6+45W,15+40N	felsic volc.	float - n.v.s.	float	120
49653	6+52W,15+90N	" "	3% py	grab	50
49654	6+20W,15+60N	" " • minor qtz	n.v.s.	"	120
49655	6+30W,15+60N	" "	1-5% py	"	20
49656	6+50W,15+95N	" " + qtz vein	n.v.s.	"	600
49657	6+52W,16+24N	" "	tr py		>1000 0.090
49658	6+52W,16+25N	" " + qtz vein	"		" 0.130
49659	6+72,16+02N	" "	1-3% py	1m chip	610
49660	7m BL dis. vein trench	" " ,silicified, bx	2-3% py	grab	400
49661	6+87W,16+20N	" "	5-7% py	"	>1000 0.238/0.226
49662	Discovery vein	qtz. vein	1% py	"	" 0.614/0.680
49663	" "	" "	1% py tr. ga.	"	" 0478/0510
49664		" "	1-2% ga. 1% py	"	" 0.250/0.252
49665		" "	ma, az, ga. 7% py	"	" 0.828/0.776

49666		qtz vein	2% cpy. 5% ga 3% py		"	1.32/1.21
49667		" ",bx + rhyolite	cpy/ga	"	"	4.72/4.59/4.34
49668		felsic vol.	py + cpy-2%	"	"	0.060/0.062
49669	Discovery Vein	qtz vein	1-2% ma/az/cpy, 2% py,	"	"	2.59/2.65/2.63
49670		fel. volcanic	10% total above sulphide	"	"	1.07/1.02/0.990
49671		" ", brecciated, qtz.	7-10% py, tr ma.	"	"	0.178/0.168
49672		" ", 20% qtz.vein	3% py	"	"	0.308/0.276
49673		" ",bx'd + qtz vein	3% cpy, 5% py tr. ga.	"	"	0.182/0.170
49674		" "	n.v.s.	"	"	6.28/6.13/6.09
49675		qtz. vein,fault gouge	"	"	"	0.066/0.074
49676	Discovery Vein	" "	3-5% py	1.6m chip	"	0.074/0.058
49677		" ", barite	15-20% py	grab	"	0.047/0.046
49678		" "	1-2% py	"	380	
49679	7+25W,15+90N	int. volcanic	3% py	"	210	
49680	" "	" ", shear zone	"	"	280	
49681						
49682	Discovery Vein	int. volcanic, qtz vein	n.v.s.	grab	>1000	0.092
49683	North Trench	" "	n.v.s., fe stain	"	"	0.030
49684	" "	" ", shear, 10% qtz	n.v.s.	"	110	
49685		qtz. carb. bx	3% py	"	900	
49686		main vein	1% py		>1000	0.152/0.148
49687		qtz. vein	5% py	"	"	0.154/0.186
49688	Suprise Vn. trench Area	felsic volcanic,bl. rhy.	5-7% v.f.g. py	grab	550	
49689	" "	" "	10% py	"	*>1000*	*0.198/0.198*
49690	" "	" "	5% py	longitudual grab	220	
49691	" "	" "	3-5% py	"	360	
49692	8+00W,14+75N	" "	n.v.s.	"	100	
49693	Wayne Ewert samp.	int. volcanic	n.v.s.	"		
49694	Dis. Vein Channel Sam.	Line 1 , rhyolite	n/a	"		
49695		LIne l		1.2m channel	30	
49696		Line l rhyolite		1.0m channel	>1000	1.18/1.09/1.32
49697		Line 1 "		" "	"	0.375/0.384
49698		Line 1 "		" "	790	
49699		Line 2		" "	500	
49700		Line 2		" "	>1000	0.029
49701		Line 2		" "	410	
49702		Line 2		" "	>1000	0.771/0.714/0.836
49703		Line 2 rhyolite		" "	"	0.139/0.114
49704		Line 2 "		" "	"	.492/.497/0.498
49705		Line 3, rhyolite		0.5m channel	"	0.029
49706		Line 3 "		1.0m channel	140	
49707		Line 3 "		"	310	
49708		Line 3 "		"	210	
				"	50	

49709		Line 3 vein			>1000 0.27/0.252
49710		rhyolite		1.2m channel	100
49711		Line 4, rhyolite+int volc.		1.0m channel	310
49712		Line 4,vein		" "	>1000 0.045
49713		Line 4,vein+shear		1.3m channel	70
49714				1.2m channel	>1000 0.045
49715	Suprise Vein Chn. Sam.	Line 1		0.5m channel	" 0.075
49716		Line 1		0.8m channel	" 0.257/0.236
49717	" " "	Line 1		0.7m channel	480
49718	" " "	Line 2, rhyolite		0.5m channel	330
49719	" " "	Line 2, vein		1.2m "	>1000 0.063
49720	" " "	Line 2, rhyolite		1.0m "	660
49721	" " "	Line 2, "		1.0m "	>1000 0.059
49722	" " "	Line 2, "		" "	" 0.032
50501	SE of Zinc Lake	amphibole schist,qtz string.	tr py	grab	<5
50502	"	" , carbonatized	tr py, cpy	"	10
50503	"	metasediments	tr py	"	5
"	"	qtz car. vein	tr py	"	5
50505	"	metasediments		"	60
50506	"	QFP	rusty	"	<5
50507	Traverse S of Boo Pond	diorite, carbonate zone		"	<5
50508	"	carbonate vein	tr. py	" ,frost heave?	130
50509	"	silicified diorite	3% py	" , float	140
50510	"	qtz. carbonate vein	tr py	"	<5
50511	"	qtz carb vein in diorite	tr py	"	<5
50512	"	diorite	tr py		
50513	"	gabbro/diorite contact	10% cpy	grab(float,	260
50514	"	" "	5-10% cpy	"	10
50515	"	footwall of contact zone	2-3% mal.	lm chip	<5
50516	S. of 50515	carb bx zone in gabbro	tr py	grab	<5
50517	"	sheared gabbro ? sil'n	tr py	grab	<5
50518	S. of Zinc Lake	diorite	tr sphal	"	<5
50519	"	metasediments Q.V.	tr cpy, sph, ga	grab (frost line)	20
50520	"	carb. sed, near diorite	1-3% py	"	<5
50521	LIW, 10+75N	gossanous, float		"	35
50522	LO, 10+60N	cb alteration zone in ultram	1-2% py	"	10
50523	L0, 10+50	carb alt zone	3% py	"	<5
50524	L2, 12+000N	diorite, qtz. carb. seam	3% py ?	" ,float	100
50525	"	" fractured		"	30
50526	"	fel vol., qtz car. vein	3-5% py	"	15
50527	"	gossan zone		"	70
50528	"	carbon. fel. vol.	1% py, tr sph	grab (float)	100
50529	"	"		"	25

50530	L4, 12+00N	rhyolite	1-2% py	grab	<5
50531	" 10 miles E of 50530	"	5-10% py	"	<5
50532	" "	felsics	1-2% py	"	60
50533	"	diorite, qtz stringers shear	2-4% py ?	20cm chip	130
50534	"	qtz. carb. zone in diorite	3% py	grab	<5
50535	S. of Zinc Lake	diorite/sed. contact	3-5% py	"	<5
50536	"	peridotic contact	tr py	"	10
50537	"	serpentized contact	tr py	1m chip	<5
50538	"	UM contact	tr py	grab	<5
50539	"	wacke, pyritic zone	1% py	"	<5
50540	"	" " "	3-5% py	"	<5
50541	"	" " "		2m chip	<5
50542	S. of Zinc Lake	", carb. shear zone	no py	1m chip	5
50543	"	", qtz. carb. vein	1% py	grab	<5
50544	"			1m chip	<5
50545	"	inter. vol.	tr py	grab	5
50546	"	int. fel. vol.	tr-5% sph	"	5
50547	"	" "		sph.	20
50548	"	" "	tr-1% py	grab	<5
50549	"	" "		2m chip	<5
50550	"	Uutramafic contact	3-5% py,1-3% ga	grab	120
50551	"	ultramafic		"	15
50552	"			1.5m chip	10
50553	"			representative	40
50554	South L of Zinc Lake	Wacke		grab	<5
50555	"		3-5% py	"	5
50556	"	wacke/diorite contact	3-5% py	"	<5
50557	Grizzly Creek area	qtz. vein in silic. sed	tr py	"	<5
50558	"	mafic volc./sed contact	1-2% py	"	30
50559	"	maf. volc	tr-2% py	grab	<5
50560	"		3-5% py	"	<5
50561	"	maf. volc	no py	"	<5
50562	"	do-cbl-ser. schist	tr py	"	<5
50563	"	"	1-2% py	"	<5
50564	S. of Grizzly Creek	maf. volc.	1-2% py	"	5
50565	South of property	Quartize	1-2% py	"	<5
50566	13+50-14W,17+18N	felsics, qtz. vein	3% py, 5% ga	"	120
50567	" "	brecciated fel. vol	3-5% py	float	75
50568	L3W 16N	int. fels. volc with qtz. vein	1-2% py	"	<5
50569	"	rhyolite with qtz vein network	3-5% py	grab,float	60
50570	"	" fractured	2-5% py	"	180
50571	"	", with sulphide seam	"	"	85

50572	"	"	"	2m chip	71	
50573	"	"	"	"	45	
50574	"	"	"	"	250	
50575	"	"	"	"	95	
50576	L8W, 14+75N	qtz vein in fel. vol	3-5% py	grab	85	
50577	L8W, 14+75N	" " "	"	"	75	
50578	"	bleached fel. vol. host		"	45	
50579	L12W, 16+25N	int. mafic volc., qtz. string.	1-2% py, tr ga.	"	10	
50580	L12W, 16+75N	" " " "	"	"	50	
50581	12+65W, 15+20N	felsics, semi massive sulphide	ga, sph, 10%	float	960	
50582	14+00W,15+00N	" " " "	ga, sph massive	"	480	
50583	L16+00W,14+50N	mafic int. volc	1-3% py	grab	85	
50584	L16W, 14+50N	qtz. vein	tr py	"	>1000	0.213
50585	L16W, 15+35	qtz carb. bx	1% ga sph	float	>1000	0.034
50586	L15+50,17+25N	qtz. feld. spathic rk	10-15% ga. 1-2% sph	grab	140	
50587	13+50W, 17+50N	zinc carb. bx zone	sph	"	65	
50588	"	" " "		"	<5	
50589	14+50W, 17+75N	int. volc with carb, shal. vein		"	110	
50590	14+50,17+60	" " with fracture	massive galena	"	>1000	0.106
50591	L15+50W,17+25N	quartz veining	5-10%cpy	2m chip	230	
50592	"	" "		grab	80	
50593	"	silic andesite	1% ga, cpy	"	60	
50594	L15W,17+50N	rhyolite, silicified	5-7% py	"	55	
50595	L16W, 19+00N	felsics, shear zone	3-5% py	"	660	
50596	L16W, 19+00N	qtz. vein, silic in fel. vol.	3-5% py	"	540	
50597	NW property Bound.	feldspar porphyry, carb.zone	n.v.p.	"	10	
50598	"	metasediment, shear zone	1-2% py + po	"	20	
50599	"	py zone in qtz barite bx	1-2% py	"	5	
50600	Surprise Vein	rhyolite, Q.V.	1-2% py	"	>1000	0.580
50601	"	"	2-5% py	"	>1000	0.402
50602	5+50W, 15+75N	int. volc., thin qtz vein	10% py	"	480	
50603	"	" " " "	10% py	float	140	
50604	L5, 17+25N	quartz		grab (float)	>1000	0.063
50605	15+50W,15N	qtz. vein	1-2% cpy, ga, 1-2% py	lm chip	>1000	0.096
50606	"	" "	1-2% cpy, ga 1-2% py	grab	>1000	0.113
50607	"	silicified int. vol	3-5% py, tr cpy	"	300	
50608	"	qtz vein	1-2% ga	"	>1000	0.118
50609	L18+00W, 16+35N	silic zone in maf. int. vol.	tr-1% py	"	15	
50610	" "	int. vol. 3-5% py		"	20	
50611	L18W, 17+00N	fels. volc., minor qtz. veins	tr py	"	5	
50612	L19W, 17+15N	int. fels. volc.	3-5% diss py	"	5	
50613	L16, 16+00N	int. volc.	3-5% py	"	35	
50614	L16, 16+15N	sphal, carb bx zone	sph. massive	lm chip	620	
50615	L16, 16+35N	felsics	thin seam sph, 1-2% py	rep over lm	<5	

50616	L16, 16+65N	silic. fel. vol	1-3% py	grab	130
50617	L16W, 18+70N	felsic. volc.	1-2% py	"	10
50618	L16W, 19+15N	fel/int. contact	3-5% py	"	<5
50619	L16+30 -20+00N	int. volc.	5-10% py	"	60
50620	L16+50, 20+00N	qtz carb. silic band	1-2% py	"	80
50621	16+80W, 20+25N	felsics ?, 3m gossan	10% py	rep chip 3m	40
50622	L17W, 15+75N	int. volc.	3-5% py	grab	15
50623	L17W, 16+75N	felsic volc., qtz. veining	1-2% cpy, bo	"	15
50624	"	" " " "	"	"	10
50625	"	silic felsic vol. host to 624	"	"	10
50626	L17, 17+25N	felsic. volc., qtz veining	1-2% sph, ga, py	"	230
50627	"	" , host to 626	1-2% py tr. ga.	"	20
50628	15M E of 50626	rhyolite, carb/qtz vein	3% cpy	"	90
50629	L16+50, 17+15N	silicified fel. vol	3-5% py	"	15
50630	10m E of L16+50 17+15N	inter. fels. volc., shear zone	3-5% py, tr ga.	4m chip	70
50631	"	" " " "	"	grab	45
50632	"	rhyolite, sheared	py	"	35
50633	L16+50N, 17+25N	qtz. carb. vein	10% py	"	270
50634	13+00W, 17+75N	qtz. seam	tr cpy, 3% ga, 1% py	"	85
50635	L12+50W, 17+75N	quartz vein	3-5% py, 1% ga	float	30
50636	12+20W, 16+30N	rhyolite	tr-1% py	grab	20
50637	L12W, 16+50N	felsics, qtz. vein	1-2% py	"	340
50638	L12W, 16+60	quartz scree	2% py	float	>1000 0.078
50639	L12W, 16+75N	felsic volcanics, qtz. stockwork	tr py	grab	80
50640	L13W, 17+50N	black rhyolite	3-5% py	"	10
50641	L14W, 16+75N	felsics " B" zone	sph, 10-50% py	"	>1000 0.098
50642	L14W, 17+00N	felsics, shear zone	1-2% sph. ga. py	"	550
50643	L3+70W, 17+20N	fel. vol, shear zone	seams of sph	1.25m chip	240
50644	L13, 17+50N	rhyolite, bx'd	3-5% py	grab	<5
50645	L14W, 17+50N	inter. volc., qtz. vein	3-5% cpy, ga, 5-8% py	"	170
50646	L14W, 17+50N	" " "	1-2% ga, cpy	grab	300
50647	" "	silc. bx zone, silic rhyolite	"	2m chip	70
50648	"	silc rhyolite+vein margin	5% py, 1-2% cpy	grab	150
50649	L14W, 18+10N	inter. volc., sh'd, alt'd zone	3% py	"	<5
50650	L14+50, 17+75N	felsics, shear zone	very weathered	"	50
50651	L17+50, 19+50N	felsics vol ?	tr. py	"	15
50652	"	massive int-fel. vol	tr. py	"	130
50653	L15W, 15+60N	felsic volc., shear zone	sph,ga	"	>1000
50654	L15W, 15+60N	" "	2-5% py, tr sph	lm chip	40
50655	"	silic margin of shear	3-5% py	grab	>1000 0.07
50656	"	silic zone	1-2% py, tr ga.	"	>1000 0.35
50657	15+30W, 15+40N	sphal/qtz. seam	sph 2%, tr ga	"	110
50658	L16, 16+00N	sphal. zone with qtz.	10% sph		30

50659	16+70W, 17+00N	qtz. vein	2-3% ga, cpy.	"		820
50660	L6 15+63N	rhyolite, silicified	tr py	grab		500
50661	"	" "	2-3% py	"		>1000 0.115
50662	"	" "		"		>1000 0.626
50663	"	black rhyolite, + qtz. vein	1-2% py	"		>1000 0.040
50664	L6+25W, 15+80N	qtz. vein in rhyolite	tr py	"		>1000 0.070
50665	L13, 14+25N	black rhyolite	1-2% py	"		5
50666	13+30W, 14+20N	int. volc.	clots py 1%	"		<5
50667	"	xtal tuff? , silicified	2-3% py	"		<5
50668	L14, 14+50N	qtz vein	tr-1% py	"		>1000 0.298
50669	"	silic. rhyolite	10% fine py	"		>1000 0.068
50670	L14+50, 14+30N	int. volc, Q.V.	1% py	"		35
50671	"	int. vol. margin to 670	gossan	"		5
50672	15+30W, 14+25N	mafic volc.with qtz. vein	1% py	"		15
50673	13+75W, L15+00N	"		"		>1000 0.03
50674	"	", with qtz. vein		"		>1000 0.363
50675	"	" " "		rep. of vein		980
50676	"	" " "		1.5m chip		>1000 0.109
50677	"	", silicified vein margin	5-8% py	rep. sample		50
50678	L15, 13+50N	mafic. volc.shear zone c qtz v.	gossaneous	grab		>1000 0.032
50679	"	" , qtz vein	tr py			>1000 0.06
50680	"	"	gossan pyrititeros shear zone	"		190
50681	"	", qtz. vein	tr. py	"		180
50682	14+75W, 13+50N	" , with qtz. vein	rusty	"		>1000 0.032
50683	L16W, 14+50N	" " "	tr py	"		850
50684	" "	" " "	tr py	"		480
50685	L16W, 14+00N	", with 10-20 cm q. vein	10-20%	"		90
50686	"	qtz. vein	1% spy, tr ga, 1% py	"		750
50687	"	" "	" " "	"		>1000 0.098
50688	S. of Zinc Lake	(EM anom. K-6)qtz. vein w. py.	near anomaly	float		140
50689	L12+50W, 13+50N	int. volc.	1-2% py	grab		10
50690	L12, 12+90N	"	1% py	"		170
50691	L11+50, 12+50N	"	1-2% py	"		10
50692	"	black quartz	1-2% py	float		50
50693	L11+50, 12+25N	mafic volc., with q. vein	tr. py	grab		55
50694	L12W, 11+75N	" " " "	tr. py	"		190
50695	L13+50, 12+25N	" , with qtz. veinlets	tr-1% py	"		>1000 0.296/0.350
50696	"	" , with qtz. vein	"	"		>1000 0.034
50697	12+70W, 15+50N	felsic. volc. 1 m. shear zone	sph, ga, py	"		250
50698	L15, 16+70N	shear zone	massive sph	"		690
50699	15_20W, 16+40N	shear zone in int. vol.	tr. py.	"		20
50700	L7, 16+92	shear zone	gossaneous	"		>1000 0.186/0.186
50701	15m from L7	inter. volc., with qtz. vein	3% py	"		>1000 0.030
50702	L15, 14+60N	shear zone	3-5% py	"		90
50703	"	" zone with qtz. vein	tr. py	"		>1000 0.180/0.184

50704	15+25W, 15+05N	inter. volc., qtz. vein	1% py	grab	>1000 0.122/0.130
50705	L15, 15+05N	silicified zone	1-2% py	2m chip	550
50706	15W, 15+25N	felsic volc., qtz. vein	1-2% py, tr ga, sph,	2m chip	>1000 0.16/0.150
50707	" "	" " "		grab	>1000 0.312/0.410
50708	" "	" " "	cpy	"	>1000 0.190/0.178
50709	"	inter. volc. qtz. veining	tr ga, sph 1-2% py	"	>1000 0.096/0.096
50710	B.L. 15+25W	quartz vein	tr. ga, sph, 1% py	"	>1000 0.345/0.316
50711	19+20W, 14+25N	int. vol. shear zone	tr py	2m chip	70
50712	L19, 14+00N	qtz. carb. vein in shear zone	tr py	2m chip	30
50713	L19, 14+00N	int. volc.	gossan	grab	50
50714	L19, 13+75N	"	gossan	"	40
50715	L2E, 13+25N	diorite, qtz. carb. vein	3% py, 1% sph	"	35
50716	"	" " " "	tr cpy	"	<5
50717	1+20E, 13+50N	" " " "	1-2% py	"	15
50718	Top of cirque bearing 160 degrees from Zn.Lk	shear zone in diorite	massive ph, sph	lm chip	160
50719	"	diorite	"	grab	140
50720	Top of cirque bearing 140 d. from Zinc Creek	silc. vol.	sph, py	"	20
50721	Top of cirque bearing 147 d. from Zinc Creek	felsic. volc., weakly silic.	3-5% py	grab	100
50722	14W, 14+60N	rhyolite, silic. with qtz.	tr py	lm chip	150
50723	14W, 14+60N	" " " "	1-2% py	lm chip	930
50724	14W, 14+60N	", qtz. vein	10% py	grab	70
50725	14W, 14+60N	", silicified	5% py	"	130
50726	15N, 14+25W	"	10% py	"	25
50727	14+25W, 15+05N	" , quartz vein	tr py	0.5m chip	20
50728	L15W, 15+60N	" " "	5% py, tr sph, ga	1.5m chip	>1000 0.208/0.19
50729	L15W, 15+60N	quartz vein	1% py, tr ga,	grab	>1000 0.219/0.193
50730	L10+50W, 14+50N	int. volc., quartz vein	10% sph, 3% py	"	25
50731	L10+50W, 14+50N	int. volc.	gossan sph.	float	30
50732	13+70W, 14+40N	Q.V.	tr. py.	"	660
50733	13+70W, 14+40N	felsic. volc.	tr py	1.5m chip	240
50734	14+00W, 14+80N	qtz. vein	5% py	grab	660
50735	10+20W, 13+10N	inter/mafic contract,qtz lenses	5% py	"	60
50736	10+20W, 13+10N	" " "	"	2m chip	15
50737	10+10W, 12+75N	inter. volc., qtz vein	tr py, sph	grab	80
50738	10+30W, 10+50N	" , qtz. veinlets	3% py, tr cpy	lm chip	15
50739	10+10W, 10+40N	" , qtz. vein	tr py	grab	20
50740	NE Zinc Lake	meta. sed. chlorite	3% py, po	"	25

GP4371	SE corner of Nizi	qtz lense in sediment	tr py	grab	<5
GP4372	50'-70' S. of 437'	metased + 5-7% qtz vng.	tr-1% py	"	<5
GP4373	SE corner of Nizi	peridotite	nil sulphides	"	<5
GP4374	" "	inclusion of ed. in periodite	nil sulphides	"	<5
GP4375	" "	siliceous sediment	tr-1% py	"	<5
GP4376	SE end of cirque valley near SE end of Nizi	int. vo./flow	tr py	"	<5
GP4377	NE corner of Nizi	granodiorite/porphyry	tr py	"	<5
GP4378	" "	siliceous siltstone + carb.	nil sulphides	1.5' chip	<5
GP4379	" "	qz vn (8")	nil sulphides	8" chip	<5
GP4380	" "	magnetite-rich sed.	tr py + po	grab	<5
GP4381	Nizi	f.g.sediment	5-10% py, 1-2% po	"	<5
GP4382	NE corner of Nizi A6	sediment	tr py	6" chip	<5
GP4383	" "	sediment	tr py	1' chip	<5
GP4384	Boo Lake Creek	massive carbonate	nil sulphides	grab	<5
GP4385	NE corner of Nizi bottom of traverse in Cr. bed	qtz pos	nil shlphides	6" chip	<5
GP4386	NE corner of Nizi	mafic volc.	tr py	grab	<5
GP4387	N. of main grid A3	wacke/sandstone	nil sulphides	"	<5
GP4388	" "	granodiorite/gabbro, biotitic	<1% py	"	<5
GP4389	" "	porph'c granodiorite, sil'd	<1% py	"	<5
GP4390	" "	diorite/qtz diorite	nil sulphides	"	<5
GP4391	" "	" "	diffuse blebs of py+cpy	grab	30
GP4392	NE corn. of Nizi A6	felsite dike sil'd	nil sulphides	"	<5
GP4393	NE cor. of Nizi 2	granodiorite/GP/porp	tr py	"	<5
GP4394	T-Horn Drilling	Hole #7 40-45' min. qtz vn'g	1-3% py	5' core	<5
GP4395	" "	Hole #7 35-40' " "	1-3% py	"	<5
GP4396	" "	Hole #7 57-59.5 fg subvolc.	1-3% py	2.5' core	<5
GP4397	T-Horn Grizzly Lake	mafic vo.c/qtz bx float	2-3% py+cpy,gal/sph	grab float	30
GP4398	" "	int. maf. volc 5-10% qtz units	2-4% gal, sph, minor cpy	"	20
GP4399	Midway down S face of ridge of creek N. of Nizi grid	qtz monzonite, rusty	nil sulphides	grab	<5
GP4400	NE corner of Nizi A6	granitoid	nil sulphides	"	950

APPENDIX 2: List of Rock Sample (Grab/Chip) Assays

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SASKATOON, SASKATCHEWAN
S7K 6A4
(306) 931-1033 FAX: (306) 242-4717

Nov. 02, 1992

Gold Fields Canadian Mining Ltd.
#909 - 123 Front Street West
Toronto, Ontario
M5J 2M2

Attn: Bill Bond

1 - SAMPLE PREPARATION PROCEDURES
Rock and Core

- Entire sample is crushed, riffled and the subsequent split is pulverized to -150 mesh.

2 - FIRE ASSAY PROCEDURES
Assay Gold (Au oz/ton) -
A 29.16g subsample is fused, cupelled and the subsequent dore' bead is parted with a dilute nitric acid solution. The gold obtained is rinsed with DI water, annealed and weighed on a microbalance.

Assay Silver (Ag oz/ton) -
A 2.00g sample is digested with 15mls HCl plus 5mls HNO3 for 1 hour in a covered beaker; diluted to 100mls with 1:1 HCl. The solution is run on the Atomic Absorption.

Assay Base Metals (Cu, Pb, Zn %) -
A 0.500g sample is taken to dryness with 15mls HCl plus 5mls HNO3, then redissolved with 10mls HNO3 and diluted to 100mls with DI H2O. The solution is run on the Atomic Absorption.

3 - GEOCHEM GOLD (Au ppb)
- A 30g subsample is fused, cupelled and the subsequent dore' bead is dissolved in aqua regs. The solution is then analyzed on the Atomic Absorption.

4 - GEOCHEM SILVER - BASE METALS (Ag, Cu, Pb, Zn ppm)
- A 1g subsample is digested with 4mls of aqua regs for 1 hour, then diluted to 20mls with DI H2O. The solutions are then run on the Atomic Absorption.

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#909 - 123 Front Street West
Toronto, Ontario
M5J 2M2

REPORT No.
S4443

INVOICE #: 19653
P.O.: PN: NZ-1

SAMPLE(S) OF Rock / 2 Core

B. Bond

	Au ppb	Ag ppm
GP4371	<5	<.2
GP4372	<5	<.2
GP4373	<5	<.2
GP4374	<5	<.2
GP4375	<5	<.2
GP4376	<5	<.2
GP4377	<5	<.2
GP4378	<5	<.2
GP4379	<5	<.2
GP4380	<5	<.2
GP4381	<5	<.2
GP4382	<5	<.2
GP4383	<5	.4
GP4384	<5	<.2
GP4385	<5	<.2
GP4386	<5	<.2
GP4387	<5	<.2
GP4388	<5	<.2
GP4389	<5	<.2
GP4390	<5	<.2

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SAMPLE(S) OF Rock / 2 Core

B. Bond

	Au ppb	Ag ppm	Ag ozt
GP4391	30	.4	
GP4392	<5	.2	
GP4393	<5	<.2	
GP4394	<5	.8	
GP4395	<5	.8	
GP4396	<5	.8	
GP4397	30	4.8	
GP4398	20	5.4	
RC09422	340	2.0	
RC09424	5	.2	
RC09425	<5	<.2	
SP49001	200	>50.	1.78
SP49002	45	4.8	
SP49003	40	1.8	
SP49004	30	1.6	
SP49005	25	1.6	
SP49006	10	1.2	
SP49007	15	1.4	
SP49008	400	4.8	
SP49009	280	14.8	

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SAMPLE(S) OF Rock / 2 Core

B. Bond

	Au ppb	Au ozt	Ag ppm	Ag ozt
SP49010	35		13.4	
SP49011	15		5.6	
SP49012	10		4.6	
SP49013	45		15.4	
SP49014	320		1.4	
SP49015	40		7.6	
SP49016	110		>50.	4.40
SP49017	80		20.6	
SP49018	50		18.0	
SP49019	230		21.4	
SP49501	50		1.4	
SP49502	>1000	.042	>50.	13.0
SP49503	420		38.2	
SP49504	360		>50.	3.20
SP49505	20		.8	
SP49506	520		>50.	110.
SP50501	<5		4.6	
SP50502	10		11.4	
SP50503	5		.8	
SP50504	5		.4	

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SAMPLE(S) OF Rock / 2 Core

B. Bond

	Au ppb	Ag ppm
SP50505	60	.4
SP50506	<5	.6
SP50507	<5	<.2
SP50508	130	<.2
SP50509	140	.6
SP50510	<5	<.2
SP50511	<5	<.2
SP50512	260	1.4
SP50513	10	20.0
SP50514	<5	4.4
SP50515	<5	1.0
SP50516	<5	<.2
SP50517	<5	1.2
SP50518	<5	<.2
SP50519	20	1.8
SP50520	<5	.4
SP50521	35	12.2
SP50522	10	6.0
SP50523	<5	.4
SP50524	100	6.2

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P.O.: PN: NZ-1

SAMPLE(S) OF Rock / 2 Core

B. Bond

	Au ppb	Ag ppm
SP50525	30	7.2
SP50526	15	3.2
SP50527	70	7.4
SP50528	100	8.0
SP50529	25	6.0
SP50530	<5	1.2
SP50531	<5	.4
SP50532	60	4.0
SP50533	130	20.4
SP50534	<5	.4
SP50535	<5	.4
SP50536	10	<.2
SP50537	<5	<.2
SP50538	<5	<.2
SP50539	<5	<.2
SP50540	<5	<.2
SP50541	<5	<.2
SP50542	5	.4
SP50543	<5	<.2
SP50544	<5	<.2

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INVOICE #: 19653
P.O.: PN: NZ-1

SAMPLE(S) OF Rock / 2 Core

B. Bond

	Au ppb	Ag ppm	Ag ozt
SP50545	5	40.2	
SP50546	5	5.4	
SP50547	20	2.2	
SP50548	<5	.8	
SP50549	<5	<.2	
SP50550	120	>50.	11.0
SP50551	15	>50.	3.88
SP50552	10	>50.	27.2
SP50553	40	>50.	27.8
SP50554	<5	4.2	
SP50555	5	2.4	
SP50563	5	<.2	
SP50564	5	3.2	
SP50565	<5	.8	
SP50566	120	12.0	
SP50567	75	3.4	

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REPORT No.
S4449

INVOICE #: 19666
P.O.: PN:NZ-2

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-2

	Au ppb
SP50556	<5
SP50557	<5
SP50558	30
SP50559	<5
SP50560	<5
SP50561	<5
SP50562	<5
SP50568	<5
SP50569	60
SP50570	180
SP50571	85
SP50572	75
SP50573	45
SP50574	250
SP50575	95
SP50576	85
SP50577	75
SP50578	45
SP50579	10
SP50580	50

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REPORT No.
S4449

INVOICE #: 19666
P.O.: PN:NZ-2

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-2

	Au ppb	Au ozt	Ag ppm	Ag ozt
SP50581	960			
SP50582	480			
SP50583	85			
SP50584	>1000	.220/.206	34.8	
SP50585	>1000	.034	9.0	
SP50586	140			
SP50587	65			
SP50588	<5			
SP50589	110			
SP50590	>1000	.108/.104	>50.	160.
SP50591	230			
SP50592	80			
SP50593	60			
SP50594	55			
SP50595	660			
SP50596	540			
SP49507	790			
SP49508	>1000	.056	>50.	5.98
SP49509	>1000	.146/.144	>50.	20.1
SP49510	860			

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REPORT No.
S4449

INVOICE #: 19666
P.O.: PN:NZ-2

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-2

	Au ppb
SP49511	270
SP49512	40
SP49513	40
SP49514	<5
SP49515	45
SP49516	80
SP49517	95
GP4399	<5
GP4400	950
SP49551	5
SP49552	<5
SP49553	20
SP49554	<5
SP49555	<5
SP49556	15
SP49557	<5
SP49558	10
SP49559	<5
SP49560	<5
SP49561	<5

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REPORT No.
S4449

INVOICE #: 19666
P.O.: PN:NZ-2

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-2

	Au ppb
SP49562	10
SP49563	<5
SP49564	<5
SP49565	<5
SP49566	<5
SP49567	<5
SP49568	<5
SP49020	30
SP49021	45
SP49022	10
SP49023	70
SP49024	55
SP49025	<5
SP49026	200
SP49027	35
SP49028	5
SP49029	25
SP49030	<5
SP49031	5
SP49032	5

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S4449

INVOICE #: 19666
P.O.: PN:NZ-2

SAMPLE(S) OF Rock

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Shipment: NZ-2

	Au ppb
SP49033	20
SP49034	15
SP49035	<5

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REPORT No.
S4449
S4499
S4500

SAMPLE(S) OF

B. Bond

Additional Ag Assays

				Ag ozt
S4449	21	NZ-2	SP 50581	17.5
	36		SP 50596	10.6
	49		GP 4400	10.8
S4499	25	NZ-5	SP 50642	43.0
	26		SP 50643	13.2
S4500	37	NZ-6	SP 50658	34.6

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#909 - 123 Front Street West
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M5J 2M2

REPORT No.
S4477

SAMPLE(S) OF Rock

INVOICE #: 19676
P.O.: PN:NZ-3/2S-150

B. Bond
Shipment: NZ-3

	Au ppb	Au ozt	Ag ppm	Ag ozt
SP-49036	<5			
SP-49037	<5			
SP-49038	20			
SP-49039	<5			
SP-49040	<5			
SP-49041	5			
SP-49042	5			
SP-49043	<5			
SP-49044	<5			
SP-49045	10			
SP-49046	<5			
SP-49047	<5			
SP-49048	630			
SP-49049	15			
SP-49050	10			
SP-49051	25			
SP-49052	20			
SP-49053	20			
SP-49518	70			
SP-49519	>1000	.428/.410	>50	18.9

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REPORT No.
S4477

SAMPLE(S) OF Rock

INVOICE #: 19676
P.O.: PN:NZ-3/2S-150

B. Bond
Shipment: NZ-3

	Au ppb	Au ozt	Ag ppm	Ag ozt
SP-49520	>1000	.122	>50	7.20
SP-49521	>1000	.078	>50	2.86
SP-49522	>1000	.074	>50	3.27
SP-49523	>1000	.130/.132	>50	4.78
SP-50597	10			
SP-50598	20			
SP-50599	5			
SP-50600	>1000	.566/.594	>50	36.8
SP-50601	>1000	.404/.400	>50	17.5
SP-50602	480			
SP-50603	140			
SP-50604	>1000	.064/.062	18.0	
SP-50605	>1000	.100/.092	6.8	
SP-50606	>1000	.110/.116	16.2	
SP-50607	300			
SP-50608	>1000	.120/.116	6.6	
SP-50609	15			
SP-50610	20			
SP-50611	5			
SP-50612	5			

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REPORT No.
S4493

INVOICE #: 19702
P.O.: PN:NZ-4/2S-165

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-4

	Au ppb
SP 49054	<5
SP 49055	10
SP 49056	10
SP 49057	15
SP 49058	30
SP 49059	70
SP 49060	110
SP 49061	650
SP 50613	35
SP 50614	620
SP 50615	<5
SP 50616	130
SP 50617	10
SP 50618	<5
SP 50619	60
SP 50620	80
SP 50621	40
SP 50622	15
SP 50623	15
SP 50624	10

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REPORT No.
S4493

SAMPLE(S) OF Rock

INVOICE #: 19702
P.O.: PN:NZ-4/2S-165

B. Bond
Shipment: NZ-4

	Au ppb
SP 50625	10
SP 50626	230
SP 50627	20
SP 50628	90
SP 50629	15
SP 50630	70
SP 50631	45
SP 50632	35
SP 50633	270
SP 50634	85

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Toronto, Ontario
M5J 2M2

REPORT No.
S4499

INVOICE #: 19713
P.O.: PN:NZ-5/2S-178

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-5

	Au ppb	Au ozt	Ag ppm
SP 49062	5		
SP 49063	5		
SP 49064	<5		
SP 49065	440		
SP 49066	55		
SP 49067	15		
SP 49068	230		
SP 49069	35		
SP 49070	<5		
SP 49071	75		
SP 49072	>1000	.250/.250	25.2
SP 49073	660		
SP 49074	30		
SP 49524	70		
SP 49525	20		
SP 49526	90		
SP 49527	<5		
SP 50635	30		
SP 50636	20		
SP 50637	340		

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SAMPLE(S) FROM Gold Fields Canadian Mining Limited
#909 - 123 Front Street West
Toronto, Ontario
M5J 2M2

REPORT No.
S4499

SAMPLE(S) OF Rock

INVOICE #: 19713
P.O.: PN:NZ-5/2S-178

B. Bond
Shipment: NZ-5

	Au ppb	Au ozt	Ag ppm	Ag ozt
SP 50638	>1000	.080/.076	>50.	1.92
SP 50639	80			
SP 50640	10			
SP 50641	>1000	.100/.096	>50.	96.5
SP 50642	550			
SP 50643	240			
SP 50644	<5			
SP 50645	170			
SP 50646	300			
SP 50647	70			
SP 50648	150			
SP 50649	<5			
SP 50650	50			

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REPORT No.
S4500

INVOICE #: 19712
P.O.: PN:NZ-6/2S-177

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-6

	Au ppb	Au ozt	Ag ppm
SP 49075	65		
SP 49076	180		
SP 49077	<5		
SP 49078	10		
SP 49079	<5		
SP 49080	<5		
SP 49081	300		
SP 49082	<5		
SP 49083	<5		
SP 49084	<5		
SP 49085	30		
SP 49086	<5		
SP 49087	20		
SP 49088	>1000	.202/.196	46.8
SP 49089	200		
SP 49090	410		
SP 49091	35		
SP 49092	130		
SP 49528	<5		
SP 49529	10		

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REPORT No. S4500

INVOICE #: 19712
P.O.: PN:NZ-6/2S-177

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-6

	Au ppb	Au ozt	Ag ppm	Ag ozt
SP 49530	10			
SP 49531	35			
SP 49532	830			
SP 49533	>1000	.236/.250	>50.	14.1
SP 49534	>1000	.568/.580	>50.	61.2
SP 49535	260			
SP 49536	290			
SP 49537	15			
SP 49538	5			
SP 50651	15			
SP 50652	130			
SP 50653	>1000	.048	>50.	1.98
SP 50654	40			
SP 50655	>1000	.064/.076	6.60	
SP 50656	>1000	.350/.314	22.4	
SP 50657	110			
SP 50658	30			
SP 50659	820			
SP 50660	500			
SP 50661	>1000	.120/.110	>50.	1.98

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REPORT No.
S4500

INVOICE #: 19712
P.O.: PN:NZ-6/2S-177

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-6

	Au ppb	Au ozt	Ag ppm	Ag ozt
SP 50662	>1000	.628/.624	>50.	12.0
SP 50663	>1000	.040	>50.	8.40
SP 50664	>1000	.070	>50.	6.66
SP 50665	5			
SP 50666	<5			
SP 50667	<5			
SP 50668	>1000	.298/.298	>50.	9.93
SP 50669	>1000	.068	12.0	
SP 50670	35			
SP 50671	5			

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REPORT No.
S4524

INVOICE #: 19748
P.O.: PN:NZ-7/2S-193

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-7

	Au ppb	Au ozt	Ag ppm	Ag ozt	Pb ppm	Pb %
SP49093	760			1.86		
SP49094	55					
SP49095	70					
SP49096	390			4.16		
SP49097	>1000	.038				
SP49098	40					
SP49099	>1000	.088/.050		2.65		
SP49100	>1000	.056		4.14		
SP49101	310					
SP49102	360					
SP49103	>1000	.082/.072		3.07		
SP49104	830					
SP49105	40					
SP49106	45					
SP49539	65		>50.	18.6	>5000	11.4
SP49540	>1000	.042	>50.	11.1	>5000	2.31
SP49541	280		>50.	18.3	>5000	7.50
SP49542	>1000	.068	>50.	2.89	4700	
SP49543	450		>50.	2.06	2600	
SP49544	>1000	.066	>50.	8.11	1900	

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M5J 2M2

REPORT No.
S4524

INVOICE #: 19748
P.O.: PN:NZ-7/2S-193

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-7

	Zn ppm	Zn %
SP49093		
SP49094		
SP49095		
SP49096		
SP49097		
SP49098		
SP49099		
SP49100		
SP49101		
SP49102		
SP49103		
SP49104		
SP49105		
SP49106		
SP49539	>5000	8.11
SP49540	>5000	18.3
SP49541	>5000	6.24
SP49542	>5000	13.9
SP49543	>5000	12.0
SP49544	>5000	32.1

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REPORT No. S4524

INVOICE #: 19748
P.O.: PN:NZ-7/2S-193

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-7

	Au ppb	Au ozt	Ag ozt
SP50672	15		
SP50673	>1000	.030	
SP50674	>1000	.366/.360	2.01
SP50675	980		
SP50676	>1000	.122/.096	
SP50677	50		
SP50678	>1000	.032	
SP50679	>1000	.060	
SP50680	190		
SP50681	180		
SP50682	>1000	.032	
SP50683	850		
SP50684	480		
SP50685	90		
SP50686	750		
SP50687	>1000	.102/.094	
SP50688	140		

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REPORT No.
S4551

INVOICE #: 19786
P.O.: PN:NZ-8/2S-205

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-8

	Au ppb
SP 49107	15
SP 49108	160
SP 49109	10
SP 49110	10
SP 49111	<5
SP 49112	<5
SP 49113	70
SP 49114	<5
SP 49115	20
SP 49116	340
SP 49117	<5
SP 49118	<5
SP 49119	45
SP 49120	<5
SP 49121	<5
SP 49122	370
SP 49123	20
SP 49124	130
SP 49125	45
SP 49126	<5

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REPORT No.
S4551

INVOICE #: 19786
P.O.: PN:NZ-8/2S-205

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-8

	Au ppb	Au ozt	Ag ppm	Pb ppm	Zn ppm
SP 49127	<5				
SP 49128	80				
SP 49129	100				
SP 49130	5				
SP 49131	5				
SP 49132	5				
SP 49545	<5		1.8	570	340
SP 49546	25		1.4	62	120
SP 49547	60		1.2	40	90
SP 49548	50		.4	8	88
SP 49549	>1000	.030	>50	220	980
SP 50689	10				
SP 50690	170				
SP 50691	10				
SP 50692	50				
SP 50693	55				
SP 50694	190				
SP 50695	>1000	.296/.350			
SP 50696	>1000	.034			
SP 50697	250		>50	2500	>5000

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REPORT No.
S4551

INVOICE #: 19786
P.O.: PN:NZ-8/2S-205

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-8

	Ag ozt	Pb %	Zn %
SP 49127			
SP 49128			
SP 49129			
SP 49130			
SP 49131			
SP 49132			
SP 49545			
SP 49546			
SP 49547			
SP 49548			
SP 49549	2.57		
SP 50689			
SP 50690			
SP 50691			
SP 50692			
SP 50693			
SP 50694			
SP 50695			
SP 50696			
SP 50697	5.78		3.44

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REPORT No.
S4551

INVOICE #: 19786
P.O.: PN:NZ-8/2S-205

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-8

	Au ppb	Au ozt	Ag ppm	Pb ppm	Zn ppm
SP 50698	690		>50	>5000	>5000
SP 50699	20				

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REPORT No.
S4551

INVOICE #: 19786
P.O.: PN:NZ-8/2S-205

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-8

	Ag ozt	Pb %	Zn %
SP 50698	100.	15.3	2.35
SP 50699			

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REPORT No.
S4550

INVOICE #: 19773
P.O.: PN:NZ-9/2S-203

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-9

	Au ppb	Au ozt	Ag ppm	Ag ozt
SP 49133	530		5.2	
SP 49134	290		4.8	
SP 49135	160		44.	
SP 49136	20		2.4	
SP 49137	>1000	.098/.104	33.	
SP 49138	>1000	.346/.342	17.	
SP 49139	610		44.	
SP 49140	530		>50	1.77
SP 49141	640		>50	1.64
SP 49142	>1000	.062	>50	16.8
SP 49143	40		4.6	
SP 49144	220		16.	
SP 49145	490		26.	
SP 49146	>1000	.178/.178	42.	
SP 49601	25		1.8	
SP 49603	200		2.0	
SP 49604	25		.4	
SP 49605	30		<.2	
SP 49607	5		<.2	
SP 49651	50		>50	2.61

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REPORT No.
S4550

INVOICE #: 19773
P.O.: PN:NZ-9/2S-203

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-9

	Au ppb	Au ozt	Ag ppm	Ag ozt
SP 49652	120		8.4	
SP 49653	50		2.4	
SP 49654	120		16.	
SP 49655	20		1.6	
SP 49656	600		43.	
SP 49657	>1000	.090/.100	21.	
SP 49658	>1000	.130/.144	19.	
SP 49659	610		3.4	
SP 49660	400		10.	
SP 49661	>1000	.238/.226	>50	4.60
SP 49662	>1000	.614/.680	>50	17.1
SP 49663	>1000	.478/.510	>50	12.8
SP 49664	>1000	.250/.252	>50	7.11
SP 49665	>1000	.828/776/.738	>50	16.6
SP 49666	>1000	1.32/1.21	>50	24.7
SP 49667	>1000	4.72/4.59/4.34	>50	160.
SP 49668	>1000	.060/.062	>50	6.41
SP 49669	>1000	2.59/2.65/2.63	>50	35.8
SP 49670	>1000	1.07/1.02/.990	>50	36.0
SP 49671	>1000	.178/.168	>50	3.19

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REPORT No.
S4550

INVOICE #: 19773
P.O.: PN:NZ-9/2S-203

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-9

	Au ppb	Au ozt	Ag ppm	Ag ozt
SP 49672	>1000	.308/.276	>50	2.19
SP 49673	>1000	.182/.170	>50	6.12
SP 49674	>1000	6.28/6.13/6.09	>50	120.
SP 49675	>1000	.066/.074	>50	6.67
SP 49676	>1000	.074/.058	>50	29.6
SP 49677	>1000	.047/.046	>50	16.2
SP 50700	>1000	.186/.186	>50	2.02
SP 50701	>1000	.030	34.	
SP 50702	90		8.6	
SP 50703	>1000	.180/.184	>50	4.81
SP 50704	>1000	.122/.130	5.4	

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REPORT No.
S4552

INVOICE #: 19788
P.O.: PN:NZ-10/2S-208

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-10

	Au ppb	Au ozt	Ag ppm	Ag ozt
SP 49147	60		3.2	
SP 49148	25		2.0	
SP 49149	5		1.8	
SP 49150	>1000	.108	>50	6.24
SP 49151	85		11.	
SP 49152	25		3.8	
SP 49153	<5		<.2	
SP 49154	100		.8	
SP 49155	>1000	.148/.156	>50	9.60
SP 49156	>1000	.142	>50	2.58
SP 49157	25		2.4	
SP 49678	380		19.	
SP 49679	210		4.6	
SP 49680	280		>50	2.68
SP 49682	>1000	.092	>50	10.3
SP 49683	>1000	.030	>50	1.65
SP 49684	110		24	
SP 49685	900		>50	1.69
SP 49686	>1000	.152/.148	>50	7.25
SP 49687	>1000	.154/.186	>50	12.8

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#909 - 123 Front Street West
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REPORT No.
S4552

INVOICE #: 19788
P.O.: PN:NZ-10/2S-208

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-10

	Au ppb	Au ozt	Ag ppm	Ag ozt
SP 49688	550		11.	
SP 49689	>1000	.198/.198	>50	1.45
SP 49690	220		7.6	
SP 49691	360		18.	
SP 50705	560		2.2	
SP 50706	>1000	.160/.150	21.	
SP 50707	>1000	.312/.410	>50	4.80
SP 50708	>1000	.190/.178	>50	1.57
SP 50709	>1000	.096/.094	12.	
SP 50710	>1000	.345/.316	9.4	
SP 50711	70		1.2	
SP 50712	30		3.8	
SP 50713	50		1.2	
SP 50714	40		2.4	

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SAMPLE(S) FROM Gold Fields Canadian Mining Limited
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REPORT No.
S4571

INVOICE #: 19790
P.O.: PN:NZ-11/2S-217

SAMPLE(S) OF Rock

B. Bond
Shipment NZ-11

	Au ppb	Au ozt	Ag ppm	Ag ozt
SP 49158	35		1.0	
SP 49159	30		1.2	
SP 49160	140		2.4	
SP 49161	25		1.0	
SP 49162	<5		.2	
SP 49163	30		8.8	
SP 49164	35		5.2	
SP 49165	40		.6	
SP 49166	70		3.2	
SP 49167	30		2.6	
SP 49168	50		1.8	
SP 49169	<5		3.6	
SP 49170	35		4.6	
SP 49171	760		>50	9.37
SP 49172	10		18.	
SP 49692	100		9.6	
SP 49694	30		5.0	
SP 49695	>1000	1.18/1.09/1.32	>50	56.6
SP 49696	>1000	.375/.384	>50	14.6
SP 49697	790		11.	

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2 - 302 - 48th STREET, EAST
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S7K 6A4
(306) 931-1033 FAX: (306) 242-4717

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Limited
#909 - 123 Front Street West
Toronto, Ontario
M5J 2M2

REPORT No.
S4571

INVOICE #: 19790
P.O.: PN:NZ-11/2S-217

SAMPLE(S) OF Rock

B. Bond
Shipment NZ-11

	Au ppb	Au ozt	Ag ppm	Ag ozt
SP 49698	500		5.2	
SP 49699	>1000	.029	37.	
SP 49700	410		>50	1.57
SP 49701	>1000	.771/.734/.836	>50	51.7
SP 49702	>1000	.139/.114	>50	4.04
SP 49703	>1000	.492/497/.498	>50	57.9
SP 49704	>1000	.029	>50	1.93
SP 49705	140		4.4	
SP 49706	310		6.2	
SP 49707	210		2.6	
SP 49708	50		1.0	
SP 49709	>1000	.270/.252	>50	17.9
SP 49710	100		7.4	
SP 49711	310		25.	
SP 49712	>1000	.045	>50	5.55
SP 49713	70		9.6	
SP 49714	>1000	.045	>50	2.29
SP 49715	>1000	.075	36.	
SP 49716	>1000	.257/.236	>50	13.5
SP 49717	480		>50	5.53

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REPORT No. S4571

SAMPLE(S) OF Rock

INVOICE #: 19790
P.O.: PN:NZ-11/2S-217

B. Bond
Shipment NZ-11

	Au ppb	Au ozt	Ag ppm	Ag ozt
SP 49718	330		13.	
SP 49719	>1000	.063	>50	14.5
SP 49720	660		18	
SP 49721	>1000	.059	>50	6.06
SP 49722	>1000	.032	>50	1.57
SP 50715	35		4.2	
SP 50716	<5		1.6	
SP 50717	15		2.4	
SP 50718	160		4.6	
SP 50719	140		8.8	
SP 50720	20		12.	
SP 50721	100		4.0	

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REPORT No.
S4587

SAMPLE(S) OF Rock

INVOICE #: 19808
P.O.: PN:NZ-12/2S-233

B. Bond
Shipment: NZ-12

	Au ppb	Au ozt	Ag ppm
SP 49173	<5		<.2
SP 49174	<5		.2
SP 49175	45		.2
SP 49176	70		3.6
SP 49177	10		.4
SP 49178	120		7.2
SP 49179	<5		.4
SP 49180	5		1.2
SP 49181	<5		1.0
SP 49182	<5		3.2
SP 49183	15		3.6
SP 49184	590		29.
SP 49185	10		1.4
SP 49186	<5		1.2
SP 49187	<5		<.2
SP 49188	<5		2.2
SP 49189	>1000	.586/.599	17.
SP 49190	210		2.4
SP 49191	30		1.2
SP 49192	100		14.

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REPORT No.
S4587

INVOICE #: 19808
P.O.: PN:NZ-12/2S-233

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-12

	Au ppb	Au ozt	Ag ppm
SP 49193	<5		1.0
SP 49194	<5		1.8
SP 49195	80		1.4
SP 49196	<5		1.6
SP 49197	<5		.6
SP 49198	25		2.2
SP 49199	<5		.4
SP 49200	<5		.4
SP 49201	100		1.2
SP 49723	<5		.8
SP 49724	15		2.4
SP 49725	<5		1.2
SP 50722	150		2.2
SP 50723	930		6.0
SP 50724	70		3.8
SP 50725	130		4.0
SP 50726	25		4.6
SP 50727	20		2.4
SP 50728	>1000	.208/.190	10.
SP 50729	>1000	.218/.193	12.

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S4587

INVOICE #: 19808
P.O.: PN:NZ-12/2S-233

SAMPLE(S) OF Rock

B. Bond
Shipment: NZ-12

	Au ppb	Au ozt	Ag ppm
SP 50730	25		4.4
SP 50731	30		7.0
SP 50732	660		6.6
SP 50733	240		4.4
SP 50734	660		5.8
SP 50735	60		37.
SP 50736	15		2.8
SP 50737	80		16.
SP 50738	15		2.0
SP 50739	20		4.8
SP 50740	25		3.6

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REPORT No.
S4638

INVOICE #: 19885
P.O.: PN:NZ-14/2S-259

SAMPLE(S) OF Rock

B. Bond
Project: NZ-14

	Au ppb	Ag ppm
SP49202	<5	1.0
SP49203	<5	1.6
SP49204	<5	.4
SP49205	<5	.6
SP49206	<5	1.2
SP49207	<5	1.0
SP49208	150	3.4
SP49209	200	6.6
SP49210	280	4.6
SP49211	<5	.8
SP49212	<5	.4
SP49213	130	6.0
SP49214	<5	1.2
SP49215	<5	1.0
SP49216	<5	<.2
SP49217	<5	<.2
SP49218	<5	1.8
SP49219	<5	<.2
SP49220	<5	1.2
SP49221	<5	.4

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REPORT No.
S4638

INVOICE #: 19885
P.O.: PN:NZ-14/2S-259

SAMPLE(S) OF Rock

B. Bond
Project: NZ-14

	Au ppb	Au ozt	Ag ppm	Ag ozt
SP49222	300		8.8	
SP49223	590		20.	
SP49224	5		2.0	
SP49225	340		14.	
SP49226	40		2.6	
SP49227	>1000	.040	3.4	
SP49228	10		1.0	
SP49229	15		1.0	
SP49230	<5		1.4	
SP49231	<5		2.4	
SP50741	<5		1.0	
SP50742	10		1.4	
SP50743	110		.4	
SP50744	20		7.0	
SP50745	25		2.2	
SP50746	>1000	.178/.180	50.	
SP50747	500		13.	
SP50748	>1000	.072	>50.	2.24
SP50749	730		>50.	2.67
SP50750	10		3.2	

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INVOICE #: 19885
P.O.: PN:NZ-14/2S-259

SAMPLE(S) OF Rock

B. Bond
Project: NZ-14

	Au ppb	Ag ppm
SP50751	5	1.4
SP50752	45	6.0

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S4640

INVOICE #: 19871
P.O.: PN:NZ-15/2S-261

SAMPLE(S) OF Rock

B. Bond
Project: NZ-15

	Au ppb	Ag ppm
SP50753	10	1.6
SP50754	5	1.0
SP50755	<5	1.2
SP50756	80	30.
SP50757	190	44.
SP50758	10	3.6
SP50759	<5	1.0
SP50760	85	5.0
SP50761	20	3.4
SP50762	5	.8
SP50763	<5	1.8
SP50764	20	3.4
SP50765	50	.4
SP50766	<5	1.8
SP50767	<5	.4
SP50768	<5	1.8
SP50769	<5	2.2
SP49232	<5	.4
SP49233	5	1.8
SP49234	5	2.4

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REPORT No.
S4640

INVOICE #: 19871
P.O.: PN:NZ-15/2S-261

SAMPLE(S) OF Rock

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Project: NZ-15

	Au ppb	Ag ppm
SP49235	<5	1.4

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APPENDIX 3: List of Soil Geochemical Sample Results

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March 9, 1993

Attn: Bill Bond

Soil Sample Preparation Procedure

The sample is dried and sieved through an 80 mesh screen. The -80 fraction is used for any analysis.

Fire Assay Procedures

Geochem Gold - A 30 gram sample is fused, cupelled and the subsequent dore' bead is dissolved in aqua regia. The solution is then analyzed by Atomic Absorption. A geochem value of >1000 ppb is routinely assayed by the following procedure.

Assay Gold - A 29.16 sample is fused, cupelled and the subsequent dore' bead is parted with a dilute nitric acid solution. The gold obtained is decanted with DI water, annealed and weighed on a microbalance.

Yours truly,

Dennis Pilipiak
DP/vh

Appendix 3A: Main Grid East
Soil Geochemistry Results

TSL LABORATORIES

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SAMPLE(S) FROM Gold Fields Canadian Mining Limited
#909 - 123 Front Street West
Toronto, Ontario
M5J 2M2

REPORT No.
S4489

INVOICE #: 19694
P.O.: PN:NZ-3

SAMPLE(S) OF Soil

B. Bond
Shipment: NZ-3

	Au ppb	Au ozt
L2E 13+25N	>1000	.106
L2E 12+75N	20	
L2E 12+50N	30	
L2E 12+25N	10	
L2E 12+00N	5	
L2E 11+75N	<5	
L2E 11+50N	<5	
L2E 11+25N	<5	
L2E 11+00N	<5	
L2E 10+75N	<5	
L2E 10+50N	<5	
L2E 10+25N	<5	
L2E 10+00N	<5	
L2E 09+75N	<5	
L2E 09+50N	<5	
L2E 09+25N	<5	
L2E 09+00N	<5	
L2E 08+75N	<5	
L2E 08+50N	<5	
L2E 08+25N	<5	

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REPORT No.
S4489

INVOICE #: 19694
P.O.: PN:NZ-3

SAMPLE(S) OF Soil

B. Bond
Shipment: NZ-3

	Au ppb
L2E 08+00N	10
L2E 07+75N	<5
L2E 07+75N	<5
L2E 07+25N	<5
L2E 07+00N	<5
L2E 06+75N	<5
L2E 06+50N	<5
L2E 06+25N	<5
L2E 06+00N	<5
L2E 05+75N	<5
L2E 05+50N	<5
L2E 05+25N	<5
L2E 05+00N	<5
L2E 04+75N	<5
L2E 04+50N	<5
L2E 04+25N	<5
L2E 04+00N	<5
L4E 13+00N	5
L4E 12+75N	5
L4E 12+50N	<5

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REPORT No.
S4489

INVOICE #: 19694
P.O.: PN:NZ-3

SAMPLE(S) OF Soil

B. Bond
Shipment: NZ-3

	Au ppb
L4E 12+25N	5
L4E 12+00N	<5
L4E 11+75N	160
L4E 11+50N	<5
L4E 11+25N	5
L4E 11+00N	20
L4E 10+75N	15
L4E 10+50N	10
L4E 10+25N	10
L4E 10+00N	<5
L4E 09+75N	<5
L4E 09+50N	<5
L4E 09+25N	<5
L4E 09+00N	<5
L4E 08+75N	5
L4E 08+50N	5
L4E 08+25N	5
L4E 08+00N	5
L4E 07+75N	5
L4E 07+50N	5

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REPORT No.
S4495

INVOICE #: 19697
P.O.: PN:NZ-3

SAMPLE(S) OF Soils

B. Bond
Shipment: NZ-3

	Au ppb
L4E 07+25N	<5
L4E 07+00N	<5
L4E 06+75N	<5
L4E 06+50N	<5
L4E 06+25N	<5
L4E 06+00N	<5
L4E 05+75N	<5
L4E 05+50N	<5
L4E 05+25N	<5
L4E 05+00N	<5
L4E 04+75N	<5
L4E 04+50N	<5
L4E 04+25N	5
L4E 04+00N	<5
L6E 13+00N	5
L6E 12+75N	<5
L6E 12+50N	<5
L6E 12+25N	<5
L6E 12+00N	15
L6E 11+75N	20

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REPORT No.
S4495

INVOICE #: 19697
P.O.: PN:NZ-3

SAMPLE(S) OF Soils

B. Bond
Shipment: NZ-3

	Au ppb
L6E 11+50N	15
L6E 11+25N	110
L6E 11+00N	75
L6E 10+75N	<5
L6E 10+50N	<5
L6E 10+25N	<5
L6E 10+00N	20
L6E 09+75N	10
L6E 09+50N	5
L6E 09+25N	10
L6E 09+00N	5
L6E 08+75N	<5
L6E 08+50N	5
L6E 08+25N	5
L6E 08+00N	<5
L6E 07+75N	<5
L6E 07+50N	<5
L6E 07+25N	<5
L6E 07+00N	<5
L6E 06+75N	<5

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REPORT No.
S4495

INVOICE #: 19697
P.O.: PN:NZ-3

SAMPLE(S) OF Soils

B. Bond
Shipment: NZ-3

	Au ppb
L6E 06+50N	<5
L6E 06+25N	<5
L6E 06+00N	<5
L6E 05+75N	<5
L6E 05+50N	5
L6E 05+25N	<5
L6E 05+00N	<5
L6E 04+75N	<5
L6E 04+50N	<5
L6E 04+25N	<5
L6E 04+00N	<5
L8E 13+00N	<5
L8E 12+75N	<5
L8E 12+50N	<5
L8E 12+25N	<5
L8E 12+00N	<5
L8E 11+75N	<5
L8E 11+50N	<5
L8E 11+25N	<5
L8E 11+00N	<5

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REPORT No.
S4495

INVOICE #: 19697
P.O.: PN:NZ-3

SAMPLE(S) OF Soils

B. Bond
Shipment: NZ-3

	Au ppb
L8E 10+75N	<5
L8E 10+50N	<5
L8E 10+25N	<5
L8E 10+00N	<5
L8E 09+75N	<5
L8E 09+50N	<5
L8E 09+25N	<5
L8E 09+00N	<5
L8E 08+75N	<5
L8E 08+50N	<5
L8E 08+25N	<5
L8E 08+00N	<5
L8E 07+75N	<5
L8E 07+50N	<5
L8E 07+25N	<5
L8E 07+00N	<5
L8E 06+75N	<5
L8E 06+50N	<5
L8E 06+25N	<5
L8E 06+00N	<5

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REPORT No.
S4495

INVOICE #: 19697
P.O.: PN:NZ-3

SAMPLE(S) OF Soils

B. Bond
Shipment: NZ-3

	Au ppb
L8E 05+75N	<5
L8E 05+50N	<5
L8E 05+25N	<5
L8E 05+00N	<5
L8E 04+75N	<5
L8E 04+50N	<5
L8E 04+25N	<5
L8E 04+00N	<5
L12E 20+00N	10
L12E 19+75N	25
L12E 19+50N	20
L12+25E 19.25N	25
L12E 19+00N	10
L12E 18+75N	10
L12E 18+50N	15
L12E 18+25N	5
L12E 18+00N	<5
L12E 17+75N	10
L12E 17+50N	15
L12E 17+35N	<5

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REPORT No.
S4495

INVOICE #: 19697
P.O.: PN:NZ-3

SAMPLE(S) OF Soils

B. Bond
Shipment: NZ-3

	Au ppb
L12E 17+00N	<5
L12E 16+75N	<5
L12E 16+50N	<5
L12E 16+25N	<5
L12E 16+00N	<5
L12E 15+75N	<5
L12E 15+50N	<5
L12E 15+25N	<5
L12E 15+00N	<5
L12E 14+75N	<5
L12E 14+50N	<5
L12E 14+25N	<5
L12E 14+00N	<5

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REPORT No.
S4498

INVOICE #: 19698
P.O.: PN:NZ-4/2S-165

SAMPLE(S) OF Soils

B. Bond
Shipment: NZ-4

	Au ppb
L2E 16+50N	20
L2E 16+25N	10
L6E 14+00N	<5
L6E 13+75N	65
L6E 13+50N	5
L6E 13+25N	5
L8E 14+75N	50
L8E 14+50N	10
L8E 14+25N	5
L8E 14+00N	15
L8E 13+75N	5
L8E 13+50N	5
L8E 13+25N	<5
L10E 17+75N	10
L10E 17+50N	5
L10E 17+25N	5
L10E 17+00N	5
L10E 16+75N	<5
L10E 16+50N	<5
L10E 16+25N	<5

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REPORT No.
S4498

INVOICE #: 19698
P.O.: PN:NZ-4/2S-165

SAMPLE(S) OF Soils

B. Bond
Shipment: NZ-4

	Au ppb
L10E 16+00N	10
L10E 15+75N	<5
L10E 15+50N	<5
L10E 15+25N	<5
L10E 15+00N	<5
L10E 14+75N	10
L10E 14+50N	<5
L10E 14+25N	<5
L10E 14+00N	<5
L10E 13+75N	5
L10E 13+50N	5
L10E 13+25N	<5
L10E 13+00N	<5
L10E 12+75N	5
L10E 12+50N	<5
L10E 12+25N	5
L10E 12+00N	5
L10E 11+50N	<5
L10E 11+25N	<5
L10E 11+00N	<5

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S4498

INVOICE #: 19698
P.O.: PN:NZ-4/2S-165

SAMPLE(S) OF Soils

B. Bond
Shipment: NZ-4

	Au ppb
L10E 10+75N	<5
L10E 10+25N	<5
L10E 10+00N	<5
L10E 09+75N	<5
L10E 09+50N	<5
L10E 09+25N	<5
L10E 09+00N	<5
L10E 08+75N	<5
L10E 08+50N	<5
L10E 08+25N	<5
L10E 08+00N	<5
L10E 07+75N	<5
L10E 07+50N	<5
L10E 07+25N	<5
L10E 07+00N	<5
L10E 06+75N	<5
L10E 06+50N	5
L10E 06+25N	<5
L10E 06+00N	<5
L10E 05+75N	<5

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REPORT No.
S4494

INVOICE #: 19701
P.O.: PN: NZ-4

SAMPLE(S) OF Soils

B. Bond
Shipment: NZ-4

	Au ppb
L1E 16+00N	10
L1E 15+75N	15
L1E 15+50N	<5
L1E 15+25N	<5
L1E 15+00N	20
L1E 14+75N	80
L1E 14+50N	620
L1E 14+25N	15
L1E 14+00N	<5
L1E 13+75N	<5
L1E 13+50N	10
L1E 13+25N	20
L1E 13+00N	10
L2E 21+00N	15
L2E 20+75N	35
L2E 20+50N	15
L2E 20+25N	200
L2E 20+00N	100
L2E 19+75N	15
L2E 19+50N	45

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REPORT No.
S4494

INVOICE #: 19701
P.O.: PN: NZ-4

SAMPLE(S) OF Soils

B. Bond
Shipment: NZ-4

	Au ppb
L2E 19+25N	15
L2E 19+00N	5
L2E 18+75N	5
L2E 18+50N	5
L2E 18+25N	10
L2E 18+00N	5
L2E 17+75N	20
L2E 17+50N	5
L2E 17+00N	<5
L2E 16+75N	40
L10E 05+50N	<5
L10E 05+25N	<5
L10E 05+00N	<5
L10E 04+75N	<5
L10E 04+50N	<5
L10E 04+25N	<5
L10E 04+00N	<5

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Appendix 3C: Grid K6 Soil Geochem Results

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REPORT No. S4543

SAMPLE(S) OF Soils

INVOICE #: 19763
P.O.: 2S-193

B. Bond

	Au ppb
L4E-1+00S	<5
L4E-1+25S	<5
L4E-1+50S	<5
L4E-1+75S	<5
L4E-2+00S	<5
L5E-0+00	<5
L6E-2+00N	<5
L6E-1+75N	<5
L6E-1+50N	<5
L6E-1+25N	<5
L6E-1+00N	<5
L6E-0+75N	<5
L6E-0+50N	<5
L6E-0+25N	<5
L6E-0+00	<5
L6E-0+25S	<5
L6E-0+50S	<5
L6E-0+75S	<5
L6E-1+00S	5
L6E-1+25S	<5

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SAMPLE(S) FROM Gold Fields Canadian Mining Limited
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Toronto, Ontario
M5J 2M2

REPORT No.
S4543

INVOICE #: 19763
P.O.: 2S-193

SAMPLE(S) OF Soils

B. Bond

	Au ppb
L6E-1+50S	<5
L6E-1+75S	<5
L6E-1+90S	<5

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M5J 2M2

REPORT No.
S4531

SAMPLE(S) OF Soils

INVOICE #: 19762
P.O.: 2S-193

B. Bond

	Au ppb
L1E 0+00	<5
L2E 2+00N	10
L2E 1+75N	<5
L2E 1+50N	10
L2E 1+25N	<5
L2E 1+00N	<5
L2E 0+75N	<5
L2E 0+50N	10
L2E 0+00	<5
L2E 0+25S	20
L2E 0+50S	<5
L2E 0+75S	<5
L2E 1+00S	<5
L2E 1+25S	<5
L2E 1+50S	<5
L2E 1+75S	<5
L2E 2+00S	<5
L3E 0+00	<5
L4E 2+00N	<5
L4E 1+75N	<5

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REPORT No.
S4531

INVOICE #: 19762
P.O.: 2S-193

SAMPLE(S) OF Soils

B. Bond

	Au ppb
L4E 1+50N	<5
L4E 1+25N	<5
L4E 1+00N	25
L4E 0+75N	<5
L4E 0+50N	<5
L4E 0+25N	<5
L4E 0+00	<5
L4E 0+25S	<5
L4E 0+50S	<5
L4E 0+75S	<5

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Appendix 3D: Grid K4/K5 Soil Geochemistry Results

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M5J 2M2

REPORT No. S4569

SAMPLE(S) OF Soils

INVOICE #: 19793
P.O.: PN:NZ-8/2S-0205

B.Bond
Shipment: NZ-8

	Au ppb
L1+00W BL 0+00	10
L1+00W 0+25S	15
L1+00W 0+50S	35
L1+00W 0+75S	60
L1+00W 1+00S	15
L1+00W 1+25S	<5
L1+00W 1+50S	<5
L1+00W 1+75S	<5
L1+00W 2+00S	5
L1+00W 2+25S	<5
L1+00W 2+50S	<5
L1+00W 2+75S	<5
L1+00W 3+00S	<5
L1+00W 3+25S	<5
L1+00W 3+50S	<5
L0+50W 18+45N	<5
L0 2+50N	5
L0 2+25N	5
L0 2+00N	25
L0 1+75N	10

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REPORT No. S4569

SAMPLE(S) OF Soils

INVOICE #: 19793
P.O.: PN:NZ-8/2S-0205

B.Bond
Shipment: NZ-8

	Au ppb
LO 1+50N	10
LO 1+25N	5
LO 1+00N	<5
LO 0+75N	<5
LO 0+50N	60
LO 0+25N	5
LO 0+00	15
LO 0+25S	10
LO 0+50S	10
LO 0+75S	5
LO 1+00S	<5
LO 1+25S	<5
LO 1+50S	5
LO 1+75S	<5
LO 2+00S	5
LO 2+25S	<5
LO 2+50S	<5
LO 2+75S	5
LO 3+00S	<5
LO 3+25S	10

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REPORT No. S4569

INVOICE #: 19793
P.O.: PN:NZ-8/2S-0205

SAMPLE(S) OF Soils

B.Bond
Shipment: NZ-8

	Au ppb
L0 3+50S	10
L1E 2+50N	<5
L1E 2+25N	5
L1E 2+00N	<5
L1E 1+75N	<5
L1E 1+50N	10
L1E 1+25N	10
L1E 1+00N	15
L1E 0+75N	<5
L1E 0+50N	10
L1E 0+25N	<5
L1E 0+00	<5
L1E 0+25S	15
L1E 0+50S	10
L1E 0+75S	<5
L1E 1+00S	10
L1E 1+25S	5
L1E 1+50S	5
L1E 1+75S	5
L1E 2+00S	<5

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REPORT No. S4569

SAMPLE(S) OF Soils

INVOICE #: 19793
P.O.: PN:NZ-8/2S-0205

B.Bond
Shipment: NZ-8

	Au ppb
L1E 2+25S	5
L1E 2+50S	<5
L1E 2+75S	5
L1E 3+00S	5
L1E 3+25S	10
L1E 3+50S	10

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Appendix 3B: Main Grid South Extension

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REPORT No. S4553

INVOICE #: 19772
P.O.: PN:NZ-10/2S-208

SAMPLE(S) OF Soil

B. Bond
Shipment: NZ-10

	Au ppb
L4W 9+75N	5
L4W 9+50N	50
L4W 9+25N	30
L4W 9+00N	30
L4W 8+75N	30
L4W 8+50N	45
L4W 8+25N	15
L4W 8+00N	10
L4W 7+75N	5
L4W 7+50N	<5
L4W 7+25N	<5
L4W 7+00N	<5
L4W 6+75N	<5
L4W 6+50N	<5
L4W 6+25N	60
L4W 6+00N	<5
L4W 5+75N	<5
L4W 5+50N	<5
L4W 5+25N	<5
L4W 5+00N	<5

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REPORT No.
S4553

INVOICE #: 19772
P.O.: PN:NZ-10/2S-208

SAMPLE(S) OF Soil

B. Bond
Shipment: NZ-10

	Au ppb
L4W 4+75N	<5
L4W 4+50N	20
L6W 9+75N	10
L6W 9+50N	10
L6W 9+25N	110
L6W 9+00N	25
L6W 8+75N	<5
L6W 8+50N	<5
L6W 8+25N	<5
L6W 8+00N	<5
L6W 7+75N	<5
L6W 7+50N	<5
L6W 7+25N	10
L6W 7+00N	<5
L6W 6+75N	<5
L6W 6+50N	<5
L6W 6+25N	<5
L6W 6+00N	<5
L6W 5+70N	<5
L6W 5+50N	<5

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REPORT No.
S4553

INVOICE #: 19772
P.O.: PN:NZ-10/2S-208

SAMPLE(S) OF Soil

B. Bond
Shipment: NZ-10

	Au ppb
L6W 5+25N	<5
L6W 5+00N	20
L6W 4+75N	5
L6W 4+50N	130

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Appendix 3E: Grids R5 and N Soil Geochemistry Results

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M5J 2M2

REPORT No.
S4592

INVOICE #: 19811
P.O.: PN:NZ-13/2S-228

SAMPLE(S) OF Soil

B. Bond
Shipment: NZ-13

	Au ppb
RS L2W 4+50N	<5
RS L2W 4+25N	<5
RS L2W 4+00N	<5
RS L2W 3+75N	<5
RS L2W 3+50N	<5
RS L2W 3+25N	<5
RS L2W 3+00N	<5
RS L2W 2+75N	<5
RS L2W 2+50N	<5
RS L2W 2+25N	<5
RS L2W 2+00N	<5
RS L2W 1+75N	<5
RS L2W 1+50N	<5
RS L2W 1+25N	<5
RS L2W 1+00N	<5
RS L2W 0+75N	<5
RS L2W 0+50N	<5
RS L2W 0+25N	<5
RS L2W 0+00	<5
RS L2W 0+25S	<5

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M5J 2M2

REPORT No.
S4592

INVOICE #: 19811
P.O.: PN:NZ-13/2S-228

SAMPLE(S) OF Soil

B. Bond
Shipment: NZ-13

Au
Ancm

	Au ppb
RS L2W 0+50S	<5
RS L2W 0+75S	<5
RS L2W 1+00S	<5
RS L2W 1+25S	<5
RS L2W 1+50S	<5
RS L1W 4+50N	<5
RS L1W 4+25N	<5
RS L1W 4+00N	<5
RS L1W 3+75N	<5
RS L1W 3+50N	<5

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SAMPLE(S) FROM Gold Fields Canadian Mining Limited
#909 - 123 Front Street West
Toronto, Ontario
M5J 2M2

REPORT No.
S4602

SAMPLE(S) OF Soil

INVOICE #: 19818
P.O.: PN:NZ-13/2S-228

B. Bond
Shipment: NZ-13

	Au ppb
RS L1W 3+25N	<5
RS L1W 3+00N	<5
RS L1W 2+75N	<5
RS L1W 2+50N	<5
RS L1W 2+25N	<5
RS L1W 2+00N	<5
RS L1W 1+75N	<5
RS L1W 1+50N	<5
RS L1W 1+25N	<5
RS L1W 1+00N	<5
RS L1W 0+75N	<5
RS L1W 0+50N	<5
RS L1W 0+25N	<5
RS L1W 0+00	<5
RS L1W 0+25S	<5
RS L1W 0+50S	<5
RS L1W 0+75S	<5
RS L1W 1+00S	<5
RS L1W 1+25S	<5
RS L1W 1+50S	<5

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TSL LABORATORIES

2 - 302 - 48th STREET, EAST
SASKATOON, SASKATCHEWAN
S7K 6A4
(306) 931-1033 FAX: (306) 242-4717

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Limited
#909 - 123 Front Street West
Toronto, Ontario
M5J 2M2

REPORT No.
S4602

INVOICE #: 19818
P.O.: PN:NZ-13/2S-228

SAMPLE(S) OF Soil

B. Bond
Shipment: NZ-13

	Au ppb
RS LO 5+75N	<5
RS LO 5+50N	<5
RS LO 5+25N	<5
RS LO 5+00N	<5
RS LO 4+75N	<5
RS LO 4+50N	<5
RS LO 4+25N	<5
RS LO 4+00N	<5
RS LO 3+75N	<5
RS LO 3+50N	<5
RS LO 3+25N	<5
RS LO 3+00N	<5
RS LO 2+75N	INSF. SAMP.
RS LO 2+50N	<5
RS LO 2+25N	<5
RS LO 2+00N	<5
RS LO 1+75N	<5
RS LO 1+50N	<5
RS LO 1+25N	<5
RS LO 1+00N	<5

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#909 - 123 Front Street West
Toronto, Ontario
M5J 2M2

REPORT No.
S4602

INVOICE #: 19818
P.O.: PN:NZ-13/2S-228

SAMPLE(S) OF Soil

B. Bond
Shipment: NZ-13

	Au ppb
RS L0 0+75N	<5
RS L0 0+50N	<5
RS L0 0+25N	<5
RS L0 0+00	<5
RS L2E 6+50N	INSF. SAMP
RS L2E 6+25N	<5
RS L2E 6+00N	<5
RS L2E 5+75N	<5
RS L2E 5+50N	<5
RS L2E 5+25N	<5
RS L2E 5+00N	<5
RS L2E 4+75N	<5
RS L2E 4+50N	90
RS L2E 4+25N	<5
RS L2E 4+00N	<5
RS L2E 3+75N	<5
RS L2E 3+50N	<5
RS L2E 3+25N	<5
RS L2E 3+00N	<5
RS L2E 2+75N	<5

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REPORT No.
S4602

INVOICE #: 19818
P.O.: PN:NZ-13/2S-228

SAMPLE(S) OF Soil

B. Bond
Shipment: NZ-13

	Au ppb
RS L2E 2+50N	<5
RS L2E 2+25N	<5
RS L2E 2+00N	<5
RS L2E 1+75N	<5
RS L2E 1+50N	<5
RS L2E 1+25N	INSF. SAMP.
RS L2E 1+00N	<5
RS L2E 0+75N	<5
RS L2E 0+50N	<5
RS L2E 0+25N	<5
RS L2E 0+00	<5
RS L4E 4+00N	<5
RS L4E 3+75N	<5
RS L4E 3+50N	<5
RS L4E 3+25N	<5
RS L4E 3+00N	<5
RS L4E 2+75N	<5
RS L4E 2+50N	<5
RS L4E 2+25N	<5
RS L4E 2+00N	<5

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REPORT No.
S4602

INVOICE #: 19818
P.O.: PN:NZ-13/2S-228

SAMPLE(S) OF Soil

B. Bond
Shipment: NZ-13

	Au ppb
RS L4E 1+75N	<5
RS L4E 1+50N	<5
RS L4E 1+25N	<5
RS L4E 1+00N	<5
RS L4E 0+75N	<5
RS L4E 0+50N	<5
RS L4E 0+25N	<5
RS L4E 0+00	<5
RS L6E 4+00N	<5
RS L6E 3+75N	<5
RS L6E 3+50N	<5
RS L6E 3+25N	<5
RS L6E 3+00N	<5
RS L6E 2+75N	<5
RS L6E 2+50N	<5
RS L6E 2+25N	<5
RS L6E 2+00N	<5
RS L6E 1+75N	<5
RS L6E 1+50N	<5
RS L6E 1+25N	<5

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S4602

INVOICE #: 19818
P.O.: PN:NZ-13/2S-228

SAMPLE(S) OF Soil

B. Bond
Shipment: NZ-13

	Au ppb
RS L6E 1+00N	<5
RS L6E 0+75N	<5
RS L6E 0+50N	<5
RS L6E 0+25N	<5
RS L6E 0+00	<5
RS L6E 0+25S	<5
N L0 3+00N	<5
N L0 2+75N	<5
N L0 2+50N	<5
N L0 2+25N	<5
N L0 2+00N	5
N L0 1+75N	<5
N L0 1+50N	<5
N L0 1+25N	<5
N L0 1+00N	<5
N L0 0+75N	<5
N L0 0+50N	<5
N L0 0+25N	<5
N L0 0+00	<5
N L2 3+00N	<5

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M5J 2M2

REPORT No.
S4602

INVOICE #: 19818
P.O.: PN:NZ-13/2S-228

SAMPLE(S) OF Soil

B. Bond
Shipment: NZ-13

	Au ppb
N L2 2+75N	<5
N L2 2+50N	<5
N L2 2+25N	<5
N L2 2+00N	<5
N L2 1+75N	90
N L2 1+50N	<5
N L2 1+25N	<5
N L2 1+00N	<5
N L2 0+75N	<5
N L2 0+50N	<5
N L2 0+25N	15
N L2 0+00	<5

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APPENDIX 4 : List of Drill Core Sample Results

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SAMPLE(S) FROM Gold Fields Canadian Mining Limited
#909 - 123 Front Street West
Toronto, Ontario
M5J 2M2

REPORT No.
S4661

INVOICE #: 19884
P.O.: PN:NZ-18/2S-267

SAMPLE(S) OF Core

B. Bond
Project: NZ-18

	Au ozt	Ag ozt
SP50776	.002/.001	.08
SP50777	<.001	.06
SP50778	<.001	.06
SP50779	<.001	.05
SP50780	<.001	.05
SP50781	<.001/<.001	.05
SP50782	<.001	.05
SP50783	<.001	.07
SP50784	<.001	.09
SP50785	<.001	.05
SP50786	.001/.002	.07
SP50787	<.001	.08
SP50788	.003	.09
SP50789	.001	.08
SP50790	.003	.07
SP50791	<.001	.11
SP50792	<.001	.11
SP50793	<.001	.09
SP50794	<.001	.08
SP50795	<.001	.07

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SAMPLE(S) FROM Gold Fields Canadian Mining Limited
#909 - 123 Front Street West
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M5J 2M2

REPORT No.
S4661

INVOICE #: 19884
P.O.: PN:NZ-18/2S-267

SAMPLE(S) OF Core

B. Bond
Project: NZ-18

	Au ozt	Ag ozt
SP50796	<.001/<.001	.07
SP50797	<.001	.06
SP50798	<.001	.06
SP50799	<.001	.07
SP50800	<.001	.09
SP50801	<.001	.08
SP50802	<.001	.11
SP50803	<.001	.07
SP50804	<.001	.06
SP50805	<.001	.08
SP50806	<.001/<.001	.07
SP50807	<.001	.06
SP50808	<.001	.07
SP50809	<.001	.06
SP50810	.001	.14
SP50811	.001/.001	.14
SP50812	.002	.13
SP50813	.001	.10
SP50814	.003	.11
SP50815	.002	.20

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REPORT No.
S4661

INVOICE #: 19884
P.O.: PN:NZ-18/2S-267

SAMPLE(S) OF Core

B. Bond
Project: NZ-18

	Au ozt	Ag ozt
SP50816	.015/.014	.59
SP50817	.082/.080	.34
SP50818	.016	.27
SP50819	.008	.22
SP50820	.027	.18
SP50821	.011/.009	.14
SP50822	.001	.08
SP50823	.002	.13
SP50824	.003	.17
SP50825	.011	.15
SP50826	.008/.005	.28
SP50827	.004	.28
SP50828	.007	.43
SP50829	<.001	.16
SP50830	<.001	.09
SP50831	<.001	.09
SP50832	<.001	.09
SP50833	<.001	.07
SP50834	<.001	.05
SP50835	.004	.12

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Toronto, Ontario
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REPORT No. S4661

INVOICE #: 19884
P.O.: PN:NZ-18/2S-267

SAMPLE(S) OF Core

B. Bond
Project: NZ-18

	Au ozt	Ag ozt	Cu ppm	Pb ppm	Zn ppm
SP50836	.011/.014	.16			
SP50837	.003	.07			
SP50838	.004	.17			
SP50839	.001	.10			
SP50840	.005	.17			
SP50841	.005	.25			
SP50842	.002	.14			
SP50843	.013	.15			
SP50844	.012	.13			
SP50845	.030	.26			
SP50846	.011/.008	.17			
SP50847	.002	.11			
SP50848	.100/.100	.55	210	1300	3100
SP50849	.376/.370	5.89	200	790	1600
SP50850	.133/.132	.60	150	830	1300
SP50851	.010	.17	76	400	550
SP50852	.049	.27	140	2200	1800
SP50853	.144/.150	.49	220	2000	1100
SP50854	.296/.314	1.03	680	4700	2800
SP50855	.126/.120	.53	560	2000	3000

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REPORT No. S4661

INVOICE #: 19884
P.O.: PN:NZ-18/2S-267

SAMPLE(S) OF Core

B. Bond
Project: NZ-18

	Au ozt	Ag ozt	Cu ppm	Pb ppm	Zn ppm	Zn %
SP50856	.145/.154	.49	270	920	1100	
SP50857	.010	.19	150	78	710	
SP50858	.230/.234	.90	1600	3500	>5000	.62
SP50859	.005	.12	36	32	250	
SP50860	.694/.696	1.33	560	480	1300	
SP50861	.109/.110	.33	450	100	400	
SP50862	.016	.15	82	56	370	
SP50863	.027	.27	140	68	290	
SP50864	.737/.760	8.70	840	1400	3500	
SP50865	.005	.33				
SP50866	<.001/<.001	.07				
SP50867	<.001	.06				
SP50868	<.001	.11				
SP50869	<.001	.26				
SP50870	.003	.10				
SP50871	.006	.20				
SP50872	.025	.21				
SP50873	<.001	.16				
SP50874	.004	.25				
SP50875	.002	.26				

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REPORT No.
S4661

INVOICE #: 19884
P.O.: PN:NZ-18/2S-267

SAMPLE(S) OF Core

B. Bond
Project: NZ-18

	Au ozt	Ag ozt
SP50876	.034/.036	.81
SP50877	.003	1.35
SP50878	.003	.18
SP50879	<.001	.11
SP50880	<.001	.06
SP50881	<.001	.05
SP50882	<.001	.05
SP50883	<.001	.03
SP50884	<.001	.03

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#909 - 123 Front Street West
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REPORT No.
S4686

INVOICE #: 19919
P.O.: PN:NZ-19/2S-269

SAMPLE(S) OF Drill Core

B. Bond
Project: NZ-19

	Au ppb	Ag ppm
SP50885	<5	.2
SP50886	<5	.4
SP50887	10	.6
SP50888	40	5.0
SP50889	5	.8
SP50890	20	1.4
SP50891	25	1.6
SP50892	20	.6
SP50893	10	.6
SP50894	5	.4
SP50895	10	.8
SP50896	5	.6
SP50897	45	20.
SP50898	10	4.2
SP50899	20	3.2
SP50900	20	1.4
SP50901	20	1.6
SP50902	10	.8
SP50903	10	.8
SP50904	20	1.2

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REPORT No.
S4686

INVOICE #: 19919
P.O.: PN:NZ-19/2S-269

SAMPLE(S) OF Drill Core

B. Bond
Project: NZ-19

	Au ppb	Au ozt	Ag ppm
SP50905	<5		1.0
SP50906	<5		.8
SP50907	<5		1.6
SP50908	<5		1.4
SP50909	5		1.2
SP50910	90		5.0
SP50911	10		1.0
SP50912	20		1.8
SP50913	50		3.8
SP50914	15		2.4
SP50915	30		3.6
SP50916	65		5.4
SP50917	85		10.
SP50918	20		3.8
SP50919	30		5.6
SP50920	>1000	.032	17.
SP50921	150		5.8
SP50922	680		8.8
SP50923	30		5.0
SP50924	55		2.8

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INVOICE #: 19919
P.O.: PN:NZ-19/2S-269

SAMPLE(S) OF Drill Core

B. Bond
Project: NZ-19

	Au ppb	Ag ppm
SP50925	260	13.
SP50926	25	2.6
SP50927	5	1.4
SP50928	<5	.6
SP50929	5	1.0
SP50930	20	2.8
SP50931	20	2.2
SP50932	35	3.2
SP50933	<5	1.0
SP50934	10	1.4
SP50935	<5	1.0
SP50936	15	1.2
SP50937	10	2.2
SP50938	5	2.8
SP50939	<5	1.4
SP50940	35	2.6
SP50941	15	3.4
SP50942	15	3.8
SP50943	5	1.6
SP50944	<5	1.2

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INVOICE #: 19919
P.O.: PN:NZ-19/2S-269

SAMPLE(S) OF Drill Core

B. Bond
Project: NZ-19

	Au ppb	Ag ppm
SP50945	5	1.4
SP50946	10	1.6
SP50947	5	1.4
SP50948	25	3.0
SP50949	120	6.2
SP50950	240	9.0
SP50951	420	11.
SP50952	30	2.0
SP50953	35	3.0
SP50954	30	2.0
SP50955	40	3.2
SP50956	30	1.6
SP50957	160	3.8
SP50958	45	3.8
SP50959	90	5.2
SP50960	70	5.0
SP50961	40	4.8
SP50962	55	5.0
SP50963	75	5.6
SP50964	30	3.0

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REPORT No.
S4686

INVOICE #: 19919
P.O.: PN:NZ-19/2S-269

SAMPLE(S) OF Drill Core

B. Bond
Project: NZ-19

	Au ppb	Ag ppm
SP50965	20	2.4
SP50966	15	1.2
SP50967	35	2.6
SP50968	150	7.4
SP50969	65	4.6
SP50970	75	4.0
SP50971	60	4.2
SP50972	40	2.8
SP50973	35	3.2
SP50974	70	3.4
SP50975	65	2.4
SP50976	90	3.8
SP50977	110	6.8
SP50978	40	1.8
SP50979	130	5.2
SP50980	25	3.2

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REPORT No.
S4689

INVOICE #: 19917
P.O.: PN:NZ-19/2S-269

SAMPLE(S) OF Drill Core

B. Bond
Project: NZ-19

	Au ppb	Ag ppm	Ag ozt
SP50981	90	4.8	
SP50982	70	2.4	
SP50983	<5	1.0	
SP50984	35	3.6	
SP50985	40	2.2	
SP50986	15	2.8	
SP50987	25	1.2	
SP50988	15	1.0	
SP50989	5	2.8	
SP50990	15	23.	
SP50991	5	4.2	
SP50992	10	>50.	1.86
SP50993	20	>50.	2.93
SP50994	40	12.	
SP50995	40	10.	
SP50996	30	2.2	
SP50997	15	6.0	
SP50998	5	14.	
SP50999	20	12.	
SP51000	30	11.	

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Limited
#909 - 123 Front Street West
Toronto, Ontario
M5J 2M2

REPORT No.
S4689

INVOICE #: 19917
P.O.: PN:NZ-19/2S-269

SAMPLE(S) OF Drill Core

B. Bond
Project: NZ-19

	Au ppb	Ag ppm
SP51001	15	.8
SP51002	15	4.6
SP51003	25	1.4
SP51004	15	3.2
SP51005	20	1.2
SP51006	35	.8
SP51007	35	.8
SP51008	10	.6
SP51009	10	.6
SP51010	30	.8
SP51011	55	1.6
SP51012	15	3.0
SP51013	40	11.
SP51014	5	2.0
SP51015	10	2.6
SP51016	30	11.
SP51017	5	24.
SP51018	15	5.8
SP51019	45	5.6
SP51020	40	24.

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REPORT No.
S4689

INVOICE #: 19917
P.O.: PN:NZ-19/2S-269

SAMPLE(S) OF Drill Core

B. Bond
Project: NZ-19

	Au ppb	Ag ppm
SP51021	10	1.0
SP51022	10	3.4
SP51023	10	3.6
SP51024	15	2.2
SP51025	20	1.6
SP51026	20	6.0
SP51027	15	7.4
SP51028	35	2.6
SP51029	40	5.8
SP51030	45	24.
SP51031	10	10.
SP51032	5	6.0
SP51033	20	2.0
SP51034	10	.8
SP51035	10	3.0
SP51036	35	5.4
SP51037	10	1.6
SP51038	55	13.
SP51039	10	2.4
SP51040	35	2.0

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REPORT No.
S4689

INVOICE #: 19917
P.O.: PN:NZ-19/2S-269

SAMPLE(S) OF Drill Core

B. Bond
Project: NZ-19

	Au ppb	Ag ppm
SP51041	5	.8
SP51042	10	2.2
SP51043	30	4.4
SP51044	20	1.6
SP51045	25	2.0
SP51046	10	1.6
SP51047	15	1.8
SP51048	10	1.2
SP51049	25	5.0
SP51050	140	11.
SP51051	25	7.2
SP51052	30	7.6
SP51053	50	11.
SP51054	85	4.4
SP51055	30	2.8
SP51056	20	3.4
SP51057	25	3.0
SP51058	90	5.2
SP51059	35	3.0
SP51060	60	2.6

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REPORT No.
S4689

INVOICE #: 19917
P.O.: PN:NZ-19/2S-269

SAMPLE(S) OF Drill Core

B. Bond
Project: NZ-19

	Au ppb	Ag ppm
SP51061	270	30.
SP51062	170	8.4
SP51063	20	2.2
SP51064	75	4.2
SP51065	15	1.0
SP51066	<5	.6
SP51067	5	.6
SP51068	5	.8
SP51069	10	.8
SP51070	<5	.6
SP51071	<5	.6
SP51072	<5	.6
SP51073	25	1.6
SP51074	10	.4
SP51075	5	.4
SP51076	<5	.4
SP51077	<5	.4
SP51078	60	2.4
SP51079	10	4.8
SP51080	5	1.0

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INVOICE #: 19917
P.O.: PN:NZ-19/2S-269

SAMPLE(S) OF Drill Core

B. Bond
Project: NZ-19

	Au ppb	Ag ppm
SP51081	<5	1.2
SP51082	35	2.0
SP51083	15	2.2
SP51084	10	1.0
SP51085	10	.8

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REPORT No. S4709

SAMPLE(S) FROM Gold Fields Canadian Mining Limited
#909 - 123 Front Street West
Toronto, Ontario
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INVOICE #: 19949
P.O.: 2S-278

SAMPLE(S) OF Core

B. Bond

	Au ppb	Ag ppm
51086	60	2.8
51087	130	2.6
51088	10	1.6
51089	25	3.6
51090	30	2.0
51091	60	4.0
51092	10	1.4
51093	40	2.2
51094	70	3.4
51095	15	4.4
51096	<5	2.2
51097	120	6.0
51098	5	2.0
51099	15	2.4
51100	50	2.4
51101	45	2.4
51102	140	5.8
51103	30	2.4
51104	10	2.0
51105	45	3.6

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M5J 2M2

REPORT No. S4709

INVOICE #: 19949
P.O.: 2S-278

SAMPLE(S) OF Core

B. Bond

	Au ppb	Au ozt	Ag ppm	Ag ozt
51106	20		2.6	
51107	35		2.4	
51108	25		2.8	
51109	60		3.0	
51110	130		4.0	
51111	60		2.6	
51112	15		2.4	
51113	100		4.4	
51114	180		9.4	
51115	>1000	2.26/2.05/1.96	>50.	61.4
51116	>1000	.060	7.4	
51117	120		4.8	
51118	40		.4	
51119	70		.8	
51120	30		.6	
51121	45		1.8	
51122	40		1.4	
51123	45		2.0	
51124	130		4.8	
51125	70		3.6	

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REPORT No.
S4709

INVOICE #: 19949
P.O.: 2S-278

SAMPLE(S) OF Core

B. Bond

	Au ppb	Ag ppm
51126	35	2.0
51127	25	1.8
51128	5	1.4
51129	15	1.8
51130	35	1.6
51131	35	2.0
51132	25	1.4
51133	25	1.4
51134	25	1.6
51135	75	2.6
51136	210	9.2
51137	130	3.2
51138	60	2.4
51139	160	7.6
51140	70	3.0
51141	75	3.2
51142	65	3.4
51143	15	1.2
51144	20	1.4
51145	30	1.4

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S4709

INVOICE #: 19949
P.O.: 2S-278

SAMPLE(S) OF Core

B. Bond

	Au ppb	Ag ppm
51146	15	1.6
51147	15	1.8
51148	5	1.6
51149	25	2.8
51150	25	2.6
51151	35	2.4
51152	20	1.4
51153	<5	1.4
51154	<5	1.4
51155	<5	1.6
51156	<5	4.6
51157	5	2.4
51158	10	2.4
51159	10	2.2
51160	5	1.8
51161	10	2.2
51162	50	2.2
51163	60	4.4
51164	25	2.2
51165	<5	1.2

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SAMPLE(S) OF Core

B. Bond

	Au ppb	Ag ppm	Ag ozt
51166	20	1.2	
51167	5	.8	
51168	<5	.8	
51169	10	1.0	
51170	15	1.4	
51171	20	2.0	
51172	30	2.6	
51173	80	4.8	
51174	40	7.8	
51175	970	>50.	13.0
51176	65	9.2	
51177	45	7.4	
51178	35	4.0	
51179	20	2.6	
51180	15	2.0	
51181	5	1.4	
51182	5	1.8	
51183	5	1.4	
51184	5	1.4	
51185	5	2.2	

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SAMPLE(S) OF Core

B. Bond

	Au ppb	Ag ppm
51186	<5	1.8
51187	<5	1.8
51188	<5	2.0
51189	10	2.4
51190	10	2.4
51191	20	3.2
51192	15	2.0
51193	20	2.0
51194	5	1.8
51195	5	1.6
51196	<5	1.2
51197	10	1.6
51198	<5	1.4
51199	10	1.6
51200	5	2.0
51201	5	1.2
51202	10	3.0
51203	5	1.6
51204	<5	1.6
51205	5	1.6

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INVOICE #: 19949
P.O.: 2S-278

SAMPLE(S) OF Core

B. Bond

	Au ppb	Ag ppm
51206	5	1.8
51207	<5	1.6
51208	<5	2.0
51209	5	1.8
51210	<5	1.6
51211	5	1.8
51212	<5	1.6
51213	<5	1.6
51214	10	2.2
51215	<5	2.0
51216	10	1.8
51217	25	1.4
51218	15	3.2
51219	<5	2.4
51220	<5	2.4
51221	<5	2.2
51222	<5	2.2
51223	<5	1.8
51224	<5	2.0
51225	<5	2.4

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INVOICE #: 19949
P.O.: 2S-278

SAMPLE(S) OF Core

B. Bond

	Au ppb	Ag ppm
51226	5	2.0
51227	5	2.4
51228	20	2.4
51229	30	3.2
51230	5	1.8
51231	55	1.8
51232	5	1.8
51233	15	2.3
51234	5	1.8
51235	<5	1.0
51236	10	1.0
51237	5	1.0
51238	5	2.0
51239	25	2.8
51240	5	1.4
51241	15	3.4
51242	<5	1.4
51243	5	1.2
51244	<5	1.2
51245	<5	1.6

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REPORT No. S4709

INVOICE #: 19949
P.O.: 2S-278

SAMPLE(S) OF Core

B. Bond

	Au ppb	Ag ppm
51246	<5	1.2
51247	<5	1.2
51248	<5	1.2
51249	<5	1.2
51250	<5	1.0
51251	<5	1.2
51252	5	1.2
51253	<5	1.4
51254	10	1.4

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#909 - 123 Front Street West
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REPORT No.
S4732

INVOICE #: 19978
P.O.: PN:NZ-21/2S-288

SAMPLE(S) OF Core

B. Bond
Project: NZ-21

	Au ppb	Ag ppm
SP51255	<5	.6
SP51256	<5	1.8
SP51257	<5	1.0
SP51258	10	1.0
SP51259	50	14.
SP51260	15	20.
SP51261	20	11.
SP51262	15	8.2
SP51263	30	6.4
SP51264	65	15.
SP51265	35	3.6
SP51266	85	17.
SP51267	450	17.
SP51268	30	1.8
SP51269	65	3.8
SP51270	<5	1.4
SP51271	<5	1.4
SP51272	<5	1.6
SP51273	<5	1.4
SP51274	<5	1.4

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INVOICE #: 19978
P.O.: PN:NZ-21/2S-288

SAMPLE(S) OF Core

B. Bond
Project: NZ-21

	Au ppb	Au ozt	Ag ppm
SP51275	50		1.2
SP51276	>1000	.034	21.
SP51277	110		10.
SP51278	15		1.0
SP51279	110		1.0
SP51280	20		1.0
SP51281	30		1.2
SP51282	25		1.2
SP51283	35		1.4
SP51284	<5		1.2
SP51285	10		1.6
SP51286	45		2.2
SP51287	20		1.8
SP51288	20		1.8
SP51289	5		1.6
SP51290	20		1.6
SP51291	85		1.6
SP51292	55		1.8
SP51293	15		1.8
SP51294	25		7.4

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INVOICE #: 19978
P.O.: PN:NZ-21/2S-288

SAMPLE(S) OF Core

B. Bond
Project: NZ-21

	Au ppb	Ag ppm
SP51295	75	.8
SP51296	30	.8
SP51297	120	5.8
SP51298	200	16.
SP51299	30	1.8
SP51300	35	1.0
SP51301	55	.8
SP51302	90	7.4
SP51303	45	4.8
SP51304	50	1.0
SP51305	25	1.4
SP51306	65	1.4
SP51307	95	1.6
SP51308	100	1.4
SP51309	45	1.2
SP51310	110	1.4
SP51311	45	1.4
SP51312	40	1.4
SP51313	40	1.6
SP51314	25	3.8

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INVOICE #: 19978
P.O.: PN:NZ-21/2S-288

SAMPLE(S) OF Core

B. Bond
Project: NZ-21

	Au ppb	Au ozt	Ag ppm
SP51315 A	30		2.2
SP51316	340		6.8
SP51317	190		2.0
SP51318	45		1.6
SP51319	120		5.2
SP51320	120		1.8
SP51321	60		1.4
SP51322	30		1.4
SP51323	65		1.6
SP51324	70		1.6
SP51325	>1000	.090/.100	50.
SP51326	160		.6
SP51327	40		1.6
SP51328	25		1.6
SP51329	420		11.
SP51330	20		2.4
SP51331	110		4.0
SP51332	60		2.8
SP51333	25		1.6
SP51334	40		1.6

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REPORT No.
S4732

INVOICE #: 19978
P.O.: PN:NZ-21/2S-288

SAMPLE(S) OF Core

B. Bond
Project: NZ-21

	Au ppb	Au ozt	Ag ppm
SP51335	80		1.4
SP51336	250		5.8
SP51337	130		7.6
SP51338	760		6.2
SP51339	100		6.0
SP51340	150		3.4
SP51341	90		2.8
SP51342	55		2.2
SP51343	50		1.6
SP51344	750		6.0
SP51345	120		5.4
SP51346	45		1.8
SP51347	110		6.0
SP51348	530		1.8
SP51349	5		1.6
SP51350	50		2.0
SP51351	670		5.8
SP51352	>1000	.034	21.
SP51353	210		6.2
SP51354	110		6.4

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S7K 6A4
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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Limited
#909 - 123 Front Street West
Toronto, Ontario
M5J 2M2

REPORT No.
S4732

INVOICE #: 19978
P.O.: PN:NZ-21/2S-288

SAMPLE(S) OF Core

B. Bond
Project: NZ-21

	Au ppb	Au ozt	Ag ppm
SP51355	80		1.8
SP51356	100		3.2
SP51357	180		5.0
SP51358	160		9.4
SP51359	130		11.
SP51360	170		11.
SP51361	130		1.8
SP51362	910		1.0
SP51363	65		2.0
SP51364	40		.8
SP51365	55		1.4
SP51366	130		2.2
SP51367	>1000	.032	5.6
SP51368	70		1.4
SP51369	730		3.8
SP51370	20		1.6
SP51371	15		1.2
SP51372	10		1.2
SP51373	25		1.2
SP51374	40		1.4

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S4732

INVOICE #: 19978
P.O.: PN:NZ-21/2S-288

SAMPLE(S) OF Core

B. Bond
Project: NZ-21

	Au ppb	Ag ppm
SP51375	30	1.4
SP51376	40	3.2
SP51377	25	1.6
SP51378	85	1.4
SP51379	60	1.4
SP51380	95	1.4
SP51381	30	1.4
SP51382	15	1.6
SP51383	25	1.4
SP51384	65	1.6
SP51385	40	1.2
SP51386	40	1.2
SP51387	40	1.2
SP51388	<5	1.2
SP51389	55	1.4
SP51390	45	1.2
SP51391	65	3.4
SP51392	15	1.4
SP51393	<5	1.2
SP51394	60	1.2

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REPORT No.
S4732

INVOICE #: 19978
P.O.: PN:NZ-21/2S-288

SAMPLE(S) OF Core

B. Bond
Project: NZ-21

	Au ppb	Ag ppm
SP51395	5	1.2
SP51396	5	1.2
SP51397	<5	1.0
SP51398	<5	1.0
SP51399	<5	1.2
SP51400	10	1.2
SP51401	55	1.4
SP51315B	15	1.6

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REPORT No.
S4731

INVOICE #: 19975
P.O.: PN:NZ-22/2S-287

SAMPLE(S) OF Core

B. Bond
Project: NZ-22

	Au ppb	Ag ppm
SP51402	<5	2.0
SP51403	<5	2.4
SP51404	15	2.6
SP51405	20	2.8
SP51406	10	2.6
SP51407	15	2.6
SP51408	<5	2.0
SP51409	<5	2.0
SP51410	<5	1.8
SP51411	<5	1.8
SP51412	<5	2.0
SP51413	<5	2.0
SP51414	<5	1.8
SP51415	<5	1.8
SP51416	<5	2.4
SP51417	<5	2.0
SP51418	<5	2.2
SP51419	<5	1.6
SP51420	<5	1.6
SP51421	<5	1.8

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M5J 2M2

REPORT No.
S4731

INVOICE #: 19975
P.O.: PN:NZ-22/2S-287

SAMPLE(S) OF Core

B. Bond
Project: NZ-22

	Au ppb	Ag ppm
SP51422	5	1.8
SP51423	<5	1.8
SP51424	<5	1.8
SP51425	<5	1.6
SP51426	<5	1.8
SP51427	<5	2.2
SP51428	<5	2.6
SP51429	10	2.0
SP51430	5	1.8
SP51431	5	1.6
SP51432	5	1.8
SP51433	<5	1.8
SP51434	<5	1.6
SP51435	10	2.0
SP51436	15	1.8
SP51437	10	1.8
SP51438	15	2.0
SP51439	10	1.8

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SAMPLE(S) FROM Gold Fields Canadian Mining Limited
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REPORT No.
S4744

INVOICE #: 19979
P.O.: PN:NZ-24/2S-290

SAMPLE(S) OF Drill Core

B. Bond
Project: NZ-24

	Au ppb	Ag ppm
SP51440	5	1.8
SP51441	<5	1.6
SP51442	10	2.0
SP51443	<5	1.6
SP51444	5	1.8
SP51445	15	1.8
SP51446	10	2.0
SP51447	<5	2.0
SP51448	<5	1.6
SP51449	<5	1.8
SP51450	10	2.0
SP51451	<5	1.8
SP51452	<5	2.0
SP51453	<5	1.8
SP51454	<5	1.8
SP51455	<5	2.0
SP51456	<5	1.6
SP51457	35	2.6
SP51458	20	1.8
SP51459	<5	1.6

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REPORT No.
S4744

INVOICE #: 19979
P.O.: PN:NZ-24/2S-290

SAMPLE(S) OF Drill Core

B. Bond
Project: NZ-24

	Au ppb	Ag ppm
SP51460	<5	1.6
SP51461	<5	1.4
SP51462	<5	1.4
SP51463	<5	1.6
SP51464	<5	1.4
SP51465	10	1.4
SP51466	<5	1.6
SP51467	10	1.4
SP51468	<5	1.6
SP51469	15	1.4
SP51470	5	1.4
SP51471	5	1.4
SP51472	5	1.6
SP51473	20	1.6
SP51474	10	1.4
SP51475	10	1.4
SP51476	5	1.6
SP51477	5	1.4
SP51478	10	1.8
SP51479	15	1.6

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REPORT No.
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INVOICE #: 19979
P.O.: PN:NZ-24/2S-290

SAMPLE(S) OF Drill Core

B. Bond
Project: NZ-24

	Au ppb	Ag ppm
SP51480	15	1.8
SP51481	10	1.4
SP51482	15	1.8
SP51483	10	1.0
SP51484	10	1.0
SP51485	25	1.0
SP51486	10	.8
SP51487	5	.8
SP51488	15	.8
SP51489	5	.8
SP51490	5	.6
SP51491	15	1.0
SP51492	15	1.6
SP51493	10	1.6
SP51494	10	1.6
SP51495	5	1.4
SP51496	10	1.6
SP51497	10	2.0
SP51498	5	1.4
SP51499	5	1.4

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S4744

INVOICE #: 19979
P.O.: PN:NZ-24/2S-290

SAMPLE(S) OF Drill Core

B. Bond
Project: NZ-24

	Au ppb	Ag ppm	Ag ozt
SP51500	10	2.0	
SP51501	45	18.	
SP51502	30	2.2	
SP51503	15	1.4	
SP51504	<5	.6	
SP51505	<5	.6	
SP51506	<5	.6	
SP51507	5	1.6	
SP51508	5	32.	
SP51509	<5	2.6	
SP51510	10	1.8	
SP51511	5	1.4	
SP51512	<5	1.6	
SP51513	<5	1.6	
SP51514	5	50.	
SP51515	<5	2.6	
SP51516	15	5.8	
SP51517	130	>50.	3.18
SP51518	15	3.2	
SP51519	<5	2.2	

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SAMPLE(S) OF Drill Core

B. Bond
Project: NZ-24

	Au ppb	Ag ppm
SP51520	5	1.6
SP51521	80	1.8
SP51522	<5	1.6
SP51523	<5	1.6
SP51524	<5	1.8
SP51525	<5	1.6
SP51526	<5	1.6
SP51527	<5	1.2
SP51528	<5	1.6
SP51529	<5	1.4
SP51530	<5	1.6
SP51531	<5	1.8
SP51532	<5	1.6
SP51533	<5	1.6
SP51534	<5	1.6

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