

094 338

ASSESSMENT REPORT

DIAMOND DRILLING EXPLORATION
on the
RACA, WH, KUKU, ERN, CHIEF, TEX, STEN, KIR,
OMNI, TREE, GLEE, TM, DG, LB, MIL, PUP,
CL, and CHAR Claims

Whitehorse Mining District, Yukon Territory, Canada

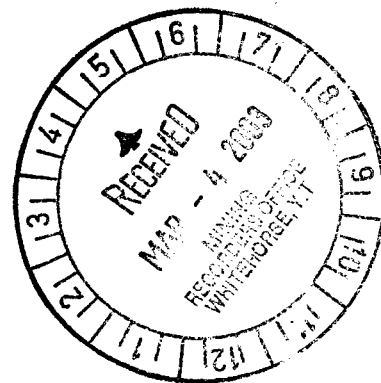
NTS 105D/3,4
60°11'N
135°23'W

for

TAGISH LAKE GOLD CORP.
2130-21331 Gordon Way
Richmond, BC V6B 2W5

by

Christopher O. Naas, P.Geo.
CME Consulting Ltd.
February 28, 2003



This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 109,200.

MBL
for Regional Manager, Exploration and
Commissioner
of Yukon Territory.

Costs associated with this report have been
assessed in the amount of \$ 107,200.00
for Certificate of
QW 27593

MS autawick
Mining Recorder
Whitehorse Mining District

Costs associated with this report have been
approved in the amount of \$
for assessment credit under Certificate of
Work No.
Mining Recorder
Whitehorse Mining District

SUMMARY

Fifteen drill holes totaling of 2502.52 metres of underground diamond drilling was completed on the Skukum Creek Deposit. The deposit is part of Tagish Lake Gold Corp.'s Skukum Property located in the Wheaton River district of the southern Yukon Territory.

The Skukum Property is located within the Intermontane belt of the Canadian Cordillera. Oldest rocks in the area comprise domains and screens of probable Paleozoic gneiss, assigned to the Nisling Terrane, and Jurassic andesitic volcanic and siliciclastic sedimentary rocks of the Stikine Terrane and Whitehorse Trough overlap assemblage. Stratigraphic and contact relationships are commonly obscured by the many intrusions associated with the Coast Plutonic Complex.

The Skukum Creek Deposit is hosted in Mid-Cretaceous granodiorites of the Coast Plutonic Complex. The deposit is a structurally controlled, polymetallic gold-silver, deep epithermal vein deposit. The deposit consists of two principal zones, the Rainbow Zone to the east and the Kuhn Zone to the west. These two zones are linked by the north-trending Sterling zone, a dilational stepover that connects the eastern end of the Kuhn zone with the western end of the Rainbow zone.

Zones of mineralization are hosted primarily by a series of linked, northeast-trending faults that may represent splays off the Berney Creek fault system. The Rainbow and Kuhn zones occur along parallel, northeast-trending faults of the same name that are defined by intermixed andesite and rhyolite dykes, monolithic and polyolithic phreatomagmatic breccias, semi-brittle shear zones and quartz-sulphide veins.

Within the Rainbow and Kuhn zones, mineralization occurs in quartz-sulphide veins that are associated with an anastomosing network of shear zones that cross and/or are developed along dyke contacts. Sulphide mineralization occurs primarily as pyrite, arsenopyrite, galena, sphalerite, and chalcopyrite.

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1.0 INTRODUCTION

The following report has been prepared on behalf of Tagish Lake Gold Corp. (TLG) for fulfillment of assessment requirements on the RACA, WH, KUKU, ERN, CHIEF, TEX, STEN, KIR, OMNI, TREE, GLEE, TM, DG, LB, MIL, PUP, CL, and CHAR Quartz Claims in the Whitehorse Mining District of the Yukon Territory.

A list of abbreviations and conversion factors used in this report is presented in Appendix I.

2.0 PROPERTY DESCRIPTION

2.1 LOCATION AND ACCESS

The Skukum property ("the Property") is located within the Whitehorse Mining District in southwestern Yukon Territory, approximately 80 kilometres south of Whitehorse (Figure 1). The property is centred at approximately 60°10'N latitude and 135°30'W longitude within NTS map sheet 105D/3.

The Property can be accessed by all-weather road from Whitehorse. Road access from Whitehorse is gained by travelling southeastward on the Alaska Highway for 19 kilometres to Carcross Corner, then south on the South Klondike Highway a further 22 kilometres to the Annie Lake turnoff. The 28 kilometre Annie Lake road is a government-maintained 2 lane gravel road that heads west to the Wheaton River. From the Wheaton River crossing, a 4-wheel drive non-maintained gravel road continues southwestward to the Property and on to the TLG trailer camp. The trailer camp is located in the north-central portion of the Property, from which numerous roads and trails provide final access to the individual deposits and showings.

As of the date of this report, the Becker Creek, Wheaton River (second crossing), and Skukum Creek crossings have been repaired. Butte Creek crossing has still not been repaired but can be easily forded by truck.

Alternately, the Property can be reached by helicopter from Whitehorse airport, which is 65 kilometres to the north-northwest of the Property.



0 20km

TAGISH LAKE GOLD CORP.

LOCATION MAP

Skukum Project
Whitehorse M.D., Yukon Territory, Canada

Project No:	CP56B	By:	NH
Scale:	1:1,000,000	Drawn:	TV
Figure:	1	Date:	February 2003

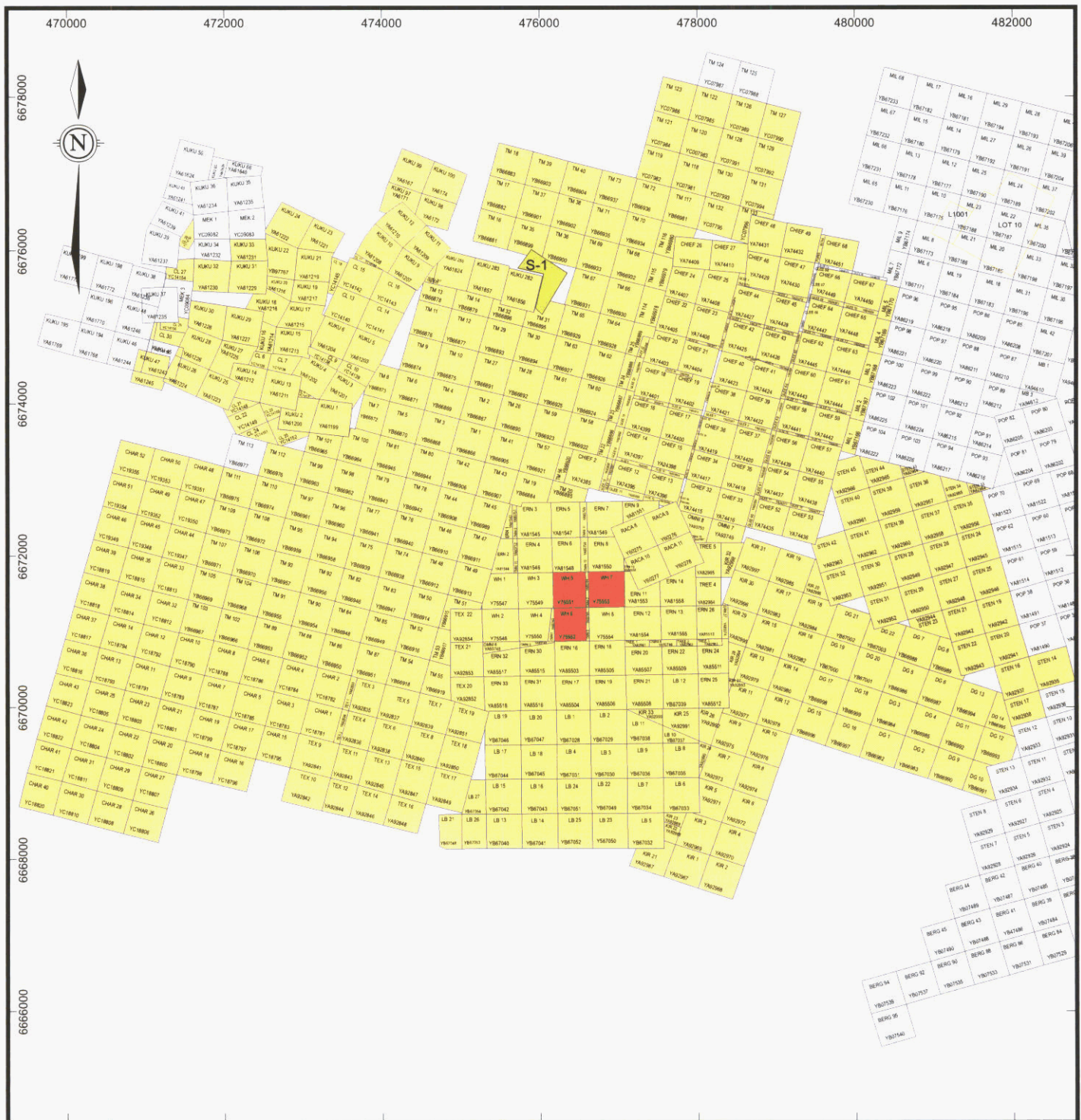


2.2 TITLE

All Quartz Mineral claims covered by this assessment report are summarized in Table 1. A map of the claims is presented in Figure 2.

Table 1: Claim Data

Claim Name	Claim Number(s)	Grant Number(s)	Owner	% Ownership
RACA	8-11	Y60275-Y60278	TLG	100
WH	1-8	Y75547-Y75554	TLG	100
KUKU	1-6	YA61199-YA61204	TLG	100
	9-21	YA61207-YA61219	TLG	100
	22	YB97767	TLG	100
	23-33	YA61221-YA61231	TLG	100
	47	YA61245	TLG	100
	97-100	YA61671-YA61674	TLG	100
	250-251	YA61824-YA61825	TLG	100
	282-283	YA61856-YA61857	TLG	100
CHIEF	2	YA74385	TLG	100
	12-27	YA74395-YA74410	TLG	100
	32-49	YA74415-YA74432	TLG	100
	52-68	YA74436-YA74451	TLG	100
PUP	85	YA78390	TLG	100
ERN	1-15	YA81543-YA81557	TLG	100
	16-22	YA85503-YA85509	TLG	100
	24-27	YA85511-YA85514	TLG	100
	30-33	YA85515-YA85518	TLG	100
TREE	1-5	YA82961-YA82965	TLG	100
TEX	1-22	YA92833-YA92854	TLG	100
STEN	14	YA92935	TLG	100
	16-17	YA92937-YA92938	TLG	100
	19-45	YA92940-YA92966	TLG	100
KIR	1-33	YA92967-YA92999	TLG	100
OMNI	1-12	YA93743- YA93754	TLG	100
GLEE	1-12	YA93875-YA93886	TLG	100
	16-20	YA93890-YA93894	TLG	100
	22	YA93986	TLG	100
	37-46	YA93911-YA93920	TLG	100
	59-65	YA93993-YA93999	TLG	100
	69-78	YA94003-YA94012	TLG	100
TM	1-14	YB66866-YB66879	TLG	100
	16-20	YB66881-YB66885	TLG	100
	22-32	YB66886-YB66896	TLG	100
	35-117	YB66899-YB66981	TLG	100
	118-123	YC07981-YC07986	TLG	100
	126-133	YC07989-YC07995	TLG	100
DG	1-22	YB66982-YB67003	TLG	100
LB	1-27	YB67027-YB67054	TLG	100
MIL	1-5	YB67166-YB67170	TLG	100
CL	6-10	YC14135-YC14139	TLG	100
	13-18	YC14140-YC14145	TLG	100
	21-27	YC14148-YC14154	TLG	100
	29-30	YC14156-YC14157	TLG	100
CHAR	1-43	YC18781-YC18823	TLG	100
	44-52	YC19347-YC19355	TLG	100



LEGEND

- WH 3 Skukum Property work claim
- CHAR 15 Skukum Property assessment claim
- BERG 90 Other Skukum Property claim
- YB07535
- ↗ First Nation staking reserve (Carcross-Tagish)
- Surface lease (Mt. Skukum mill and tailings site)

0 2km
UTM Zone 8 North
NTS 105D/3, 4

TAGISH LAKE GOLD CORP.

CLAIM MAP Skukum Property

Skukum Project
Whitehorse M.D., Yukon Territory, Canada

Project No: CP56B	By: W.M.R.
Scale: 1:75,000	Drawn: TV
Figure: 2	Date: February 1993



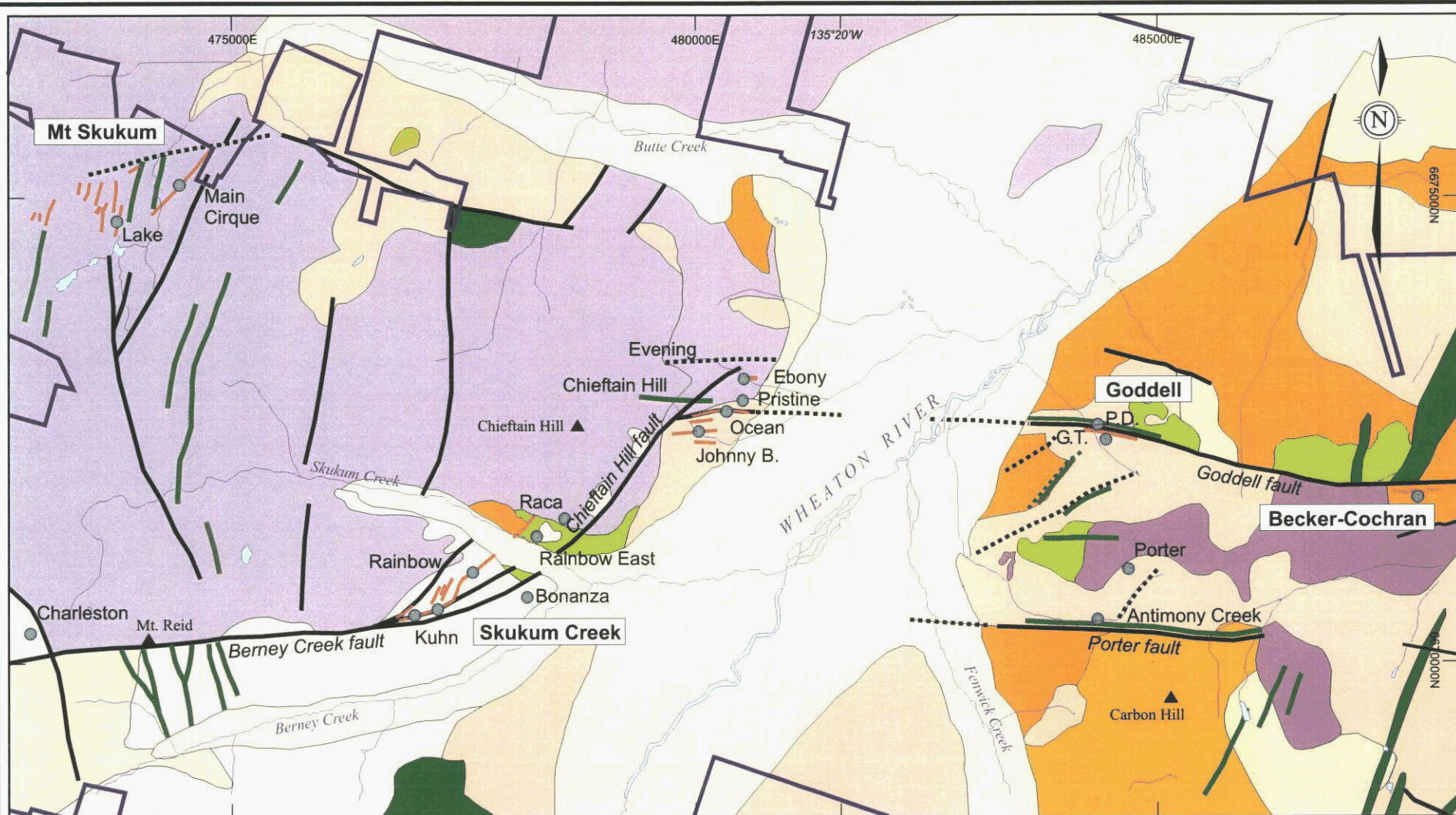
3.0 REGIONAL GEOLOGY

The regional geological setting of the Skukum project area is described in Hart and Radloff (1990), from which the following information is summarized. The project area is located within the Intermontane belt of the Canadian Cordillera. Oldest rocks in the area comprise domains and screens of probable Paleozoic gneiss, assigned to the Nisling Terrane by Hart and Radloff (1990), and Jurassic andesitic volcanic and siliciclastic sedimentary rocks of the Stikine Terrane and Whitehorse Trough overlap assemblage (Figure 3). Stratigraphic and contact relationships are commonly obscured by the many intrusions associated with the Coast Plutonic Complex.

Strata of the Jurassic Whitehorse trough are affected by a series of open to tight, northwest-trending folds that probably formed in Upper Jurassic to Lower Cretaceous time, approximately coeval with activity of the Skeena Fold Belt to the south in British Columbia. The folds are superimposed on earlier, probably pre-Triassic, metamorphic fabrics and the northwest-trending Tally-Ho shear zone, a major Late Triassic shear zone that is developed approximately 15 kilometres to the northeast of the project area and which forms the easternmost limit of exposures of the Nisling Terrane.

Mesozoic plutonic rocks which underlie much of the project area separate the Jurassic units and Nisling Assemblage into isolated domains and screens. Major intrusions include the Alligator Quartz Monzonite and the late Triassic or early Jurassic K-feldspar megacrystic Bennett Granite that are widespread east of the Wheaton River in the Skukum project area. The most abundant rock types in the region comprise metaluminous Cretaceous intrusions of the Coast Plutonic Complex, which are subdivided into several plutonic suites by Hart and Radloff (1990). The dominant Cretaceous suites in the project area include the Mt. McIntyre plutonic suite (96 to 119 Ma), comprising the Mt. Ward granite and Carbon Hill quartz monzonite, and the Whitehorse plutonic suite (116 to 119 Ma), locally represented by the Mt. McNeil granodiorite pluton. Isolated accumulations of mid- to late-Cretaceous volcanic rocks of intermediate composition of the Mt. Nansen Group are present regionally and are approximately coeval with the Coast Plutonic Complex. In the Skukum project area, these rock types occur on the eastern flanks of Carbon hill and southeast of Goddell Gully near the Becker-Cochran deposit, where they comprise green tuff and tuff breccia that unconformably overlie the Bennett Granite and Jurassic strata (Figure 3).

Late Cretaceous and Early Paleocene brittle dextral displacement associated with widespread dextral displacement throughout the Cordillera is related to reactivation of the Triassic Tally-Ho shear zone. This phase of displacement formed a brittle fault system, termed the Llewellyn fault by Hart and Radloff (1990), which exploited parts of the earlier Tally-Ho structure. Subsidiary faults generated during this tectonic episode may subsequently have been remobilized during Eocene volcanic activity to locally form caldera-bounding structures; these may also have acted as permeable structural sites for the formation of the late-volcanic vein deposits hosted by faults and shear zones in the Skukum project area.



LEGEND GEOLOGY

Recent

Alluvium, colluvium

Tertiary

Skukum Group volcanics

Rhyolite to andesite dykes, stocks

Cretaceous

Mt Nansen Group volcanics

Upper Jurassic

Clastic sediments, andesitic volcanics

Mid-Cretaceous Intrusions

Mt. McNeil pluton: granodiorite

Mt. McIntyre Plutonic Suite: quartz monzonite, granite

Late Triassic to Early Jurassic Intrusions

Bennett Granite: K-feldspar megacrystic granite

Alligator quartz monzonite

Paleozoic

Nisling Assemblage metamorphic rocks

SYMBOLS

- Selected deposit or showing
- Skukum Creek Deposit name
- Fault
- Fault, inferred
- Au ± Ag ± Sb or Sb mineralized vein or fault
- Property boundary

0 2.5km

UTM Zone 8 North
NTS 105D/3,4,5,6

TAGISH LAKE GOLD CORP.

PROPERTY GEOLOGY MAP Skukum Property

Skukum Project
Whitehorse M.D., Yukon Territory, Canada

Project No:	CP56B	By:	DR, TV
Scale:	1:62,500	Drawn:	TV
Figure:	3	Date:	February 2003



Pre-Tertiary rock types in the region are unconformably overlain by at least four Late Paleocene to Early Eocene volcanic complexes that form the Skukum Group, and are intruded by numerous associated rhyolite and andesite dykes. In the project area, these are the youngest exposed rocks and are represented by the Early Eocene Mount Skukum Volcanic Complex, a caldera sequence which underlies western portions of the project area (Figure 3). The complex comprises a bimodal sequence of subaerial volcanic and volcanoclastic rocks with a total thickness that locally exceeds 800 metres, and an areal extent of approximately 200 km². Exposures of the complex adjacent to the study area near the Skukum Creek deposits and in the Chieftain Hill area are composed mainly of massive to poorly bedded, plagioclase porphyritic andesitic flows and tuff (McDonald et al. 1990). Rocks of the Mt. Skukum Volcanic Complex are locally separated from pre-Tertiary rock types by east- to northeast-trending, curved faults such as the Berney Creek fault and Wheaton lineament that may have been active synchronously with volcanism and which potentially form caldera-bounding structures (Figure 3; Hart and Radloff 1990). These structures, which locally may represent reactivated older faults, and parallel faults within the volcanic complex are host to or control probable synvolcanic vein and shear zone hosted Au-Ag mineralization in the district.

4.0 LOCAL GEOLOGY

4.1 LITHOLOGIES

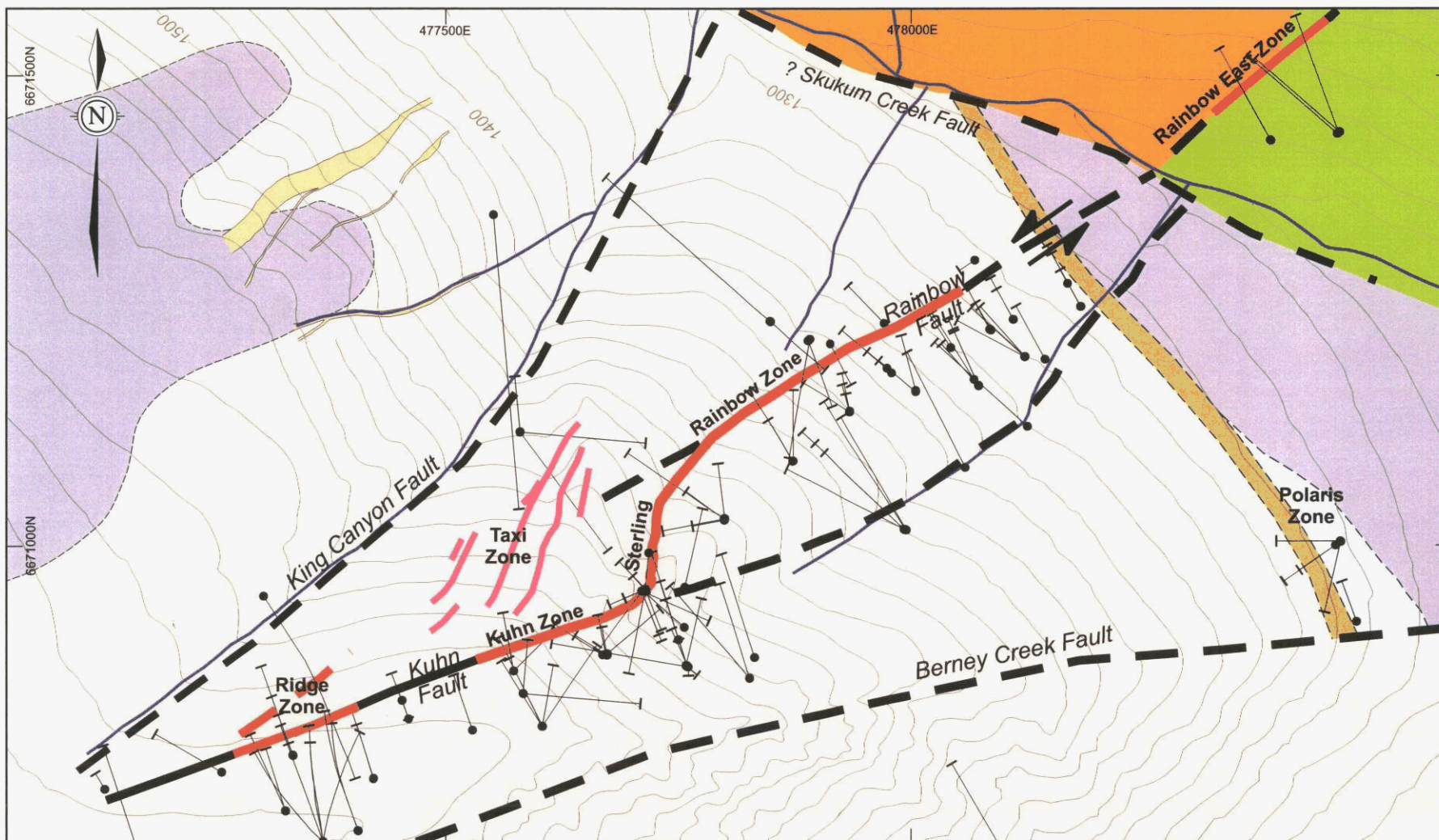
The Skukum Creek deposit is hosted within the Mt. McNeil Pluton, a biotite-hornblende granodiorite. Fresh rock contains abundant magnetite. Partially disaggregated cognate xenoliths of fine-grained diorite are common. Where fresh, it is strongly and evenly magnetic. Hornblende and biotite have been at least partially replaced by greenish chlorite in even the freshest samples. Alteration is pervasive and much stronger close to major shear zones.

Drill holes completed in the Rainbow East zone on the northeast side of Skukum Creek (holes RACA97-1 to 3) intersected a foliated K-feldspar megacrystic granite, which based on textural and mineralogical similarities is interpreted to be the Bennett granite which is widespread in the region

Other lithologies located in the immediate Skukum Creek area include:

Conglomerate

Pebble conglomerate is present in several drill holes completed historically at the eastern end of the Rainbow zone, immediately southwest of Skukum Creek (Figure 4). The unit is composed of clast-supported conglomerate with rounded clasts of chert and quartzite in a pale green sericitic matrix. This unit probably belongs to the Jurassic Tantalus Formation (cf., Hart and Radloff 1990).



LEGEND

GEOLOGY

Mt. Skukum Volcanic Complex

- Rhyolite-rhyodacite dyke
- Rhyolite dykes
- Andesite, rhyolite tuffs and flows

Upper Jurassic units

- Conglomerate
- Andesitic volcanics

Mesozoic Intrusions

- Mt McNeil Pluton: Granodiorite
- Bennett Granite: K-spar megacrystic granite

SYMBOLS

- Quartz-sulphide vein
- Fault: defined, inferred
- Mineralized shear zone: defined, inferred
- Surface diamond drillhole trace
- Stream, creek
- Topographic contours (25 m)

0 200m

UTM Zone 8 North
NTS 105D/3

TAGISH LAKE GOLD CORP.

GEOLOGY PLAN MAP Skukum Creek Area

Skukum Project
Whitehorse M.D., Yukon Territory, Canada

Project No:	CP56B	By:	DR, CN
Scale:	1:6,500	Drawn:	TV
Figure:	4	Date:	February 2003



Intermediate volcanic rocks

Holes drilled in the Rainbow East zone first pass through thick, recent talus of fresh Tertiary volcanic rocks, and then intersect pale grey, sericite-pyrite±magnetite altered, locally plagioclase±pyroxene porphyritic volcanic rocks of probable intermediate composition. Main rock types include massive, grey lapilli to block tuff and tuff breccia, and massive porphyritic flows or subvolcanic intrusive rocks. These units are distinctive from the fresh Tertiary volcanic units present in talus higher on the slope. Their altered state, close spatial association with Jurassic conglomerate of the Tantalus Formation that is present immediately across Skukum Creek, and occurrence of Cretaceous intrusive rocks within them suggest that they may correlate with Jurassic pyritic andesite volcanic rocks present on the eastern flank of Chieftain Hill 2 km to the northeast (Figure 3), to which they are assigned in Figure 4.

Andesite dykes

These intrusions are widespread throughout the project area, but are generally most common within or adjacent to major fault zones (cf., rhyolite dykes below). The most common types are either aphanitic and dark grey, or have a porphyritic texture defined by hornblende and plagioclase. Both types of dyke may be altered and locally mineralized. The andesites were observed to cut most of the pre-Tertiary phaneritic intrusive rocks. Andesite dykes that intrude pre-Tertiary rocks in the region may represent subvolcanic feeders to the Mt. Skukum volcanic complex (see below).

Rhyolite dykes

These intrusions comprise a diverse group of felsic dykes that are variable in mineralogy, texture, and their spatial and temporal relationships to hydrothermal alteration and mineralization. Rhyolite dykes were observed to cut most intrusions on the property, but have variable timing relative to andesites as noted above, suggesting multiple pulses of both intrusive types. Like the andesite dykes, rhyolite dykes commonly have a spatial association with, or are developed within, major east- and northeast-trending fault systems. In the Skukum Creek area and at Chieftain Hill, the most typical appearance of the includes a buff to light grey colour, and a aphanitic texture with up to 10% clear, rounded to square and locally resorbed quartz phenocrysts mostly <3 to 4 mm in size. Prominent flow banding is well developed near the contacts of many of the larger dykes.

A single, narrow spherulitic rhyolite dyke was observed in the Ridge Zone. It is characterized by spherules <4 mm in size and several percent disseminated pyrite.

Post-hydrothermal amygdaloidal andesite dykes

These occur in several places at Skukum Creek. They are invariably fresh and undeformed, even where located close to known mineralization, and are consequently interpreted as post-hydrothermal. These dykes range up to several metres in width. They have a fine-grained to aphanitic, dark-coloured groundmass, and are distinguished by white to clear amygdules infilled by quartz and/or calcite.

Mt. Skukum Volcanic Complex

The complex is an early Eocene, bimodal sequence of sub-aerial volcanic and volcanoclastic rocks that have been deposited over approximately 140 sq. kilometres. The complex trends northeast in a 20 by 11 kilometre ellipsoid, bounded by faults to the south and east, and divided into two parts by two north-south trending faults. The eastern portion of the complex, in the vicinity of the Skukum Creek Deposit, is comprised of mainly felsic pyroclastic rocks intercalated with brecciated flow-banded and spherulitic rhyolite lava flows. These felsic units are particularly thick where prominent large-scale arcuate fracture systems, large slump blocks, vent facies pyroclastic rocks and other features indicate centres of volcanism and associated margins of nested caldera subsidence.

4.2 MINERALIZATION

The Skukum Creek deposit is a structurally controlled, polymetallic gold-silver, deep epithermal vein deposit. The deposit consists of two principal zones, the Rainbow Zone to the east and the Kuhn Zone to the west.

In the Skukum Creek area, zones of mineralization are hosted primarily by a series of linked, northeast-trending faults that may represent splays off the Berney Creek fault system. The Rainbow and Kuhn zones occur along parallel, northeast-trending faults of the same name that are defined by intermixed andesite and rhyolite dykes, monolithic and polyolithic phreatomagmatic breccias, semi-brittle shear zones and quartz-sulphide veins. These two zones are linked by the north-trending Sterling zone, a dilational stepover that connects the eastern end of the Kuhn zone with the western end of the Rainbow zone.

Within the Rainbow and Kuhn zones, mineralization occurs in quartz-sulphide veins that are intimately associated with an anastomosing network of shear zones that cross and/or are developed along dyke contacts. Multiple generations of veins are present including early veins incorporated as fragments into cataclasites and younger veins that overprint cataclastic breccias.

Mineralization in the Ridge and Ridge 2 zones may occur at or near the junction of the Kuhn and King Canyon faults. This may be a zone of dilation and splays that links the two structures. Rainbow East may represent an extension of the Rainbow zone. North-northeast trending, steeply dipping quartz-sulphide extension veins in the Taxi zone, and similar veins developed throughout the underground workings, have orientations consistent with formation during sinistral displacement along the Rainbow and Kuhn faults.

Sulphide mineralization occurs primarily as pyrite, arsenopyrite, galena, sphalerite, and chalcopyrite. There is commonly an early stage of pyrite-arsenopyrite without associated precious metals. Gold at Skukum Creek occurs mostly as electrum and minor to trace native gold and is directly related to a late stage of galena-stibnite mineralization that replaces earlier arsenopyrite-pyrite-sphalerite. Silver is hosted predominantly in freibergite, with trace to minor native silver and argentite with trace amounts occurring within galena, chalcopyrite, stibnite and sphalerite.

5.0 EXPLORATION

Between July 16 and September 8, 2002, 2502.52 metres of NQ2 coring was completed in 15 holes (SC02-5 through SC02-19). Thirteen holes were directed toward the Rainbow Zone. One flat hole was drilled to intersect both the Sterling and Kuhn zones. One hole penetrated the Kuhn Zone approximately 90 meters below the deepest historic drilling associated with this zone. Drill hole SC02-16 was abandoned at 206.96 metres in caving conditions in the Kuhn Zone.

A tabulation of drilling specifications follows for holes completed is presented in Table 2:

Table 2: Drill Hole Specifications

Hole No.	Northing (m)	Easting (m)	Elevation (m)	Azimuth (°)	Dip (°)	Length (m)
SC02-5	6671435.903	477872.219	1230.21	141.0	-57.0	159.10
SC02-6	6671436.176	477872.086	1230.23	139.4	-65.4	235.30
SC02-7	6671435.228	477872.665	1230.46	151.7	-32.3	98.14
SC02-8	6671435.144	477872.674	1231.06	150.8	-16.3	78.33
SC02-9	6671435.606	477872.359	1230.30	149.7	-45.0	130.15
SC02-10	6671436.016	477872.197	1230.22	141.0	-61.2	183.18
SC02-11	6671397.020	477869.337	1222.37	146.1	-63.0	143.86
SC02-12	6671396.985	477869.166	1222.36	138.1	-72.4	213.97
SC02-13	6671295.765	477881.339	1223.11	007.2	-78.3	252.07
SC02-14	6671294.903	477881.352	1223.10	323.6	-78.4	174.18
SC02-15	6671295.043	477881.156	1223.11	325.0	-73.0	140.82
SC02-16	6671277.184	477855.089	1224.99	209.4	+0.8	206.96
SC02-17	6671281.043	477857.858	1223.65	323.0	-77.6	137.77
SC02-18	6671321.159	477891.236	1222.21	317.5	-77.4	146.91
SC02-19	6671125.414	477666.522	1304.43	158.6	-65.4	201.78

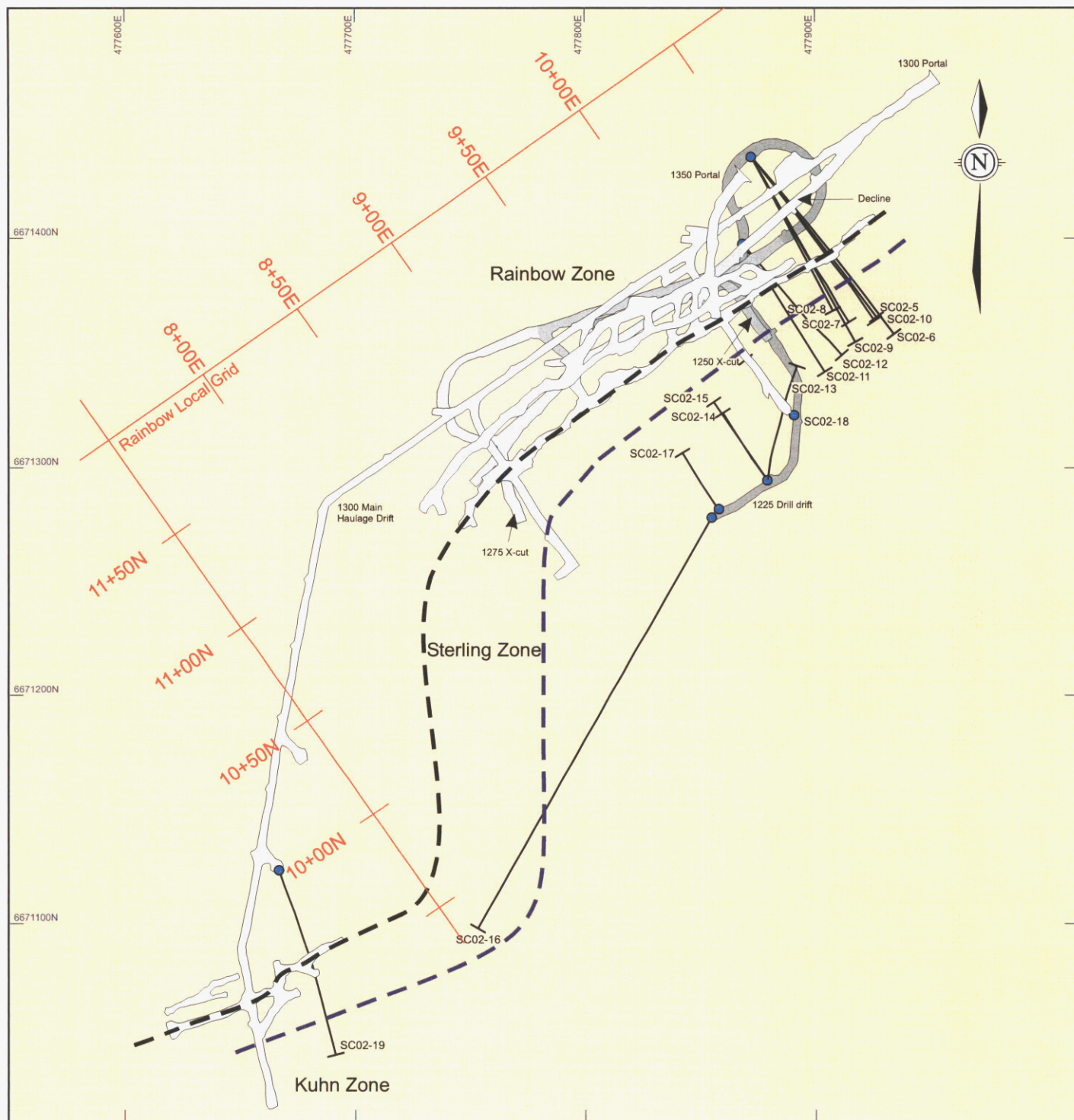
Drilling was performed using a Connors underground 75 HP machine owned and operated by F. Boisvenu Drilling Ltd of Delta, BC. Coordinates for all collar locations were surveyed by conventional EDM by Underhill Geomatics Ltd.

Figure 5 shows drill holes plotted in plan at a scale of 1:2,000.

Diamond drill core logs for all fifteen drill holes are presented in Appendix II.

5.1 RAINBOW ZONE

Granodiorite was the dominant lithology cored in both footwall and of the Rainbow zone. Lesser granite and monzonite phases were encountered in the hanging wall, particularly in all drill holes on sections 10+25E and 10+50E. The intrusives are variably altered although intensity and pervasive nature increases proximal to the Rainbow shear zone. Sericitic alteration is most common and pervasive, with much more local occurrences of chlorite and epidote. Potassic alteration occurs locally near fractures. Carbonate alteration becomes much



LEGEND

Underground Workings

- 1350 Level
- 1300 Level
- 1275 Level
- 1250 Level
- 1225 Level

- SC02-19 2002 diamond drillhole station and trace
- Mineralization trace at 1300m level
- Mineralization trace at 1225m level

0 50m
UTM Zone 8 North
NTS 105D/3

TAGISH LAKE GOLD CORP.

DDH PLAN MAP 2002 DRILL HOLES Skukum Creek Deposit

Skukum Project
Whitehorse M.D., Yukon Territory, Canada

Project No:	CP56B	By:	TV
Scale:	1:2,500	Drawn:	TV
Figure:	5	Date:	February 2003



more prevalent very near the mineralized shear zones. Shearing near the zones enhanced permeability allowing pervasive alteration chemistry.

Within the Rainbow shear zone, rhyolitic to bleached andesitic dykes are intersected. Strong shear fabrics to brecciation are common in these dykes. Quartz-sulphide veins occur sporadically from several millimetres wide up to 2.40 metres (SC02-14, drill length). Brecciated zones may show extensive quartz and/or sulphide vein flooding along fractures (SC02-12).

A phreatic heterolithic breccia unit is observed in several holes and appears to be the latest hydrothermal event. The breccia is typically a matrix-supported with fragmental rhyolite, andesite, and granodiorite. Small fragments of quartz-sulphide veins are observed, but make up only a small proportion (<5%). The matrix is medium to dark brownish-grey.

Mineralization of the drill holes cutting the Rainbow Zone consist of quartz-sulphide and/or sulphide veins and veinlets. The quartz-sulphide veins are most closely associated with higher precious metal grades. Quartz is massive to cockscomb, fractured with minor to moderate carbonate content.

Within the rhyolite units, narrow, erratic stylolitic (pressure solution) chlorite/sulphide veinlets are commonly encountered. Pyrite is typically very fine grained and appears dark brown to dark grey. Rare arsenopyrite or galena is also observed.

Sulphide mineralogy consists of primarily arsenopyrite and pyrite, with lesser amounts of sphalerite, galena, chalcopyrite, stibnite and tetrahedrite/tennantite. Arsenopyrite is observed in massive, blocky habit and more rarely in fine acicular needles (rare due very small size of crystals). Stibnite occurs in fine acicular needles, but also in a more massive habit. Sulphide content may attain 50-70% of the vein volume over short distances (<10cm), though on average is more typically 15-20%.

Within the hanging wall of the Rainbow Zone, narrow discrete quartz-sulphide veins are observed, the best examples found in SC02-13 at 100.05 metres and 100.25 metres. These extensional veins are 2 centimetres wide with sharp wall rock contacts and little wall rock alteration. Sulphide mineralogy is typical for the area though they occur as massive crystal aggregates or disseminated blebs occupying up to 30% of the vein.

In hole SC02-14, a 2.40 metre vein was intersected (159.81 to 162.21 metres). The vein has very sharp upper and lower contacts near perpendicular to core axis suggesting a near true width intersection, despite the expected low intercept angle (~20-30° to core axis). A soft gouge zone occurs immediately above the vein.

5.2 STERLING ZONE

The Sterling Zone is a connecting bend between the Rainbow and Kuhn Zones. In order to intersect it drill hole SC02-16 was collared at the end of the 1225m drill drift and targeted to intersect the Sterling Zone near the junction with the Kuhn Zone.

From collar to 130.55 metres, variably altered granodiorite was the principal lithology encountered, cut by several narrow aplite dykelets, typically less than 1cm wide. Alteration of the granodiorite consists of moderate to strong sericitization, moderate to strong chloritization of the mafics (hornblende), weak to moderate carbonate and generally weak, but locally very strong propylitization (epidote and silica). Rare hematite is also present.

Increased shearing of the granodiorite is noted with depth, with the Sterling Zone occurring between 130.55 to 143.65 metres. Shearing is well developed from 130.55 to 135.07 metres where the original granodiorite texture is obscured and a shear fabric developed. Past this from 135.07 to 143.65 metres is a highly sheared to brecciated "incipient rhyolite" unit, which may be a strongly bleached granodiorite, as the upper contact with the granodiorite is very gradational.

Four notable quartz-sulphide veins occur in the Sterling Zone "incipient rhyolite". These are quite small (<1cm wide) along with narrow stylolitic chlorite-sericite-pyrite veinlets. The main veinlets contain pyrite with lesser galena and arsenopyrite.

5.3 KUHN ZONE

The Kuhn Zone was intersected by two diamond drill holes (SC02-16 and SC02-19).

Drill hole SC02-16, as previously discussed, was drilled obliquely through the Sterling Zone and into the Kuhn Zone near the junction of the two zones. Between the Sterling Zone and Kuhn Zone proper, highly sheared granodiorite and andesite are encountered. From 183.02 to 183.89 metres, heterolithic breccia was cut with a dark matrix supporting granodiorite, quartz and feldspar crystal fragments. This unit cuts the core at a low angle to the core axis (20°).

From 199.52 metres to end of hole, the Kuhn Zone was intersected, but could not completely crossed due to extremely bad ground past a narrow gouge unit from 204.05 to 204.28 metres. Recovery in the zone was poor and consisted of quartz-sulphide vein fragments.

Quartz-sulphide fragments from the caved area of the hole contained sulphides of arsenopyrite, pyrite, chalcopyrite, and galena. The clay gouge seam immediately above contained several quartz-sulphide fragments within the soft grey clay. It is surmised that the fragments further down may have been contained within a similar clay gouge that was washed out during attempts to drill through the zone

Drill hole SC02-19 intersected the Kuhn Zone shear between 163.40 and 183.32 metres at an elevation of approximately 1150 metres. This is the deepest penetration of the Kuhn Zone to date, about 90 metres below the historical drilling and drill hole SC02-16. Lithology in the shear zone consists of granodiorite cut by dark breccia zones and fragmented quartz veins. Intense hydrothermal alteration (clay) is present along with clay seams and gouge planes.

Respectfully submitted,



Christopher O. Naas, *P. Geo.*
February 28th, 2003

6.0 REFERENCES

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McDonald, B.W.R., Reddy, D.G., Zuran, R.J., James, D.R.J.

1990. Mt. Skukum Project, 1989 Exploration, unpublished report for Total Energold Corp. – Agip Canada Ltd. Joint Venture.

7.0 STATEMENT OF QUALIFICATIONS

I, Christopher O. Naas, do hereby certify that:

1. I am a graduate in geology of Dalhousie University (*B.Sc.*, 1984);
2. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia;
3. I am presently a Consulting Geologist and have been so since November 1987;
4. The opinions and conclusions contained herein are based on a review of previous records and fieldwork carried out under my supervision from June 16th to September 29th, 2002;
5. I own shares of Tagish Lake Gold Corp.;
6. In the disclosure of information relating to legal, title and related issues, I have relied on information provided to me by the Mining Recorder of Whitehorse, Yukon Territory, and Tagish Lake Gold Corp.

Dated at Richmond, British Columbia, this 28th day of February, 2003.



Christopher O. Naas, *P. Geo.*

APPENDIX I
ABBREVIATIONS AND CONVERSION FACTORS

ABBREVIATIONS AND SYMBOLS

Ag	silver
As	arsenic
Au	gold
Az	azimuth
C\$	Canadian dollars
cm	centimetre
cu. cm	cubic centimre
cu. m	cubic metre
cu. yd	cubic yard
eq Au	equivalent gold
ft	foot
g	gram
g/cu. m	grams per cubic metre
g/t	grams per metric ton
kg	kilogram
kg/t	kilograms per metric ton
km	kilometre
lb	Pound avoirdupois
m	metre
Ma	million years
l	litre
mi	mile
mm	millimetre
n	number of items in a statistical array
oz	troy ounces
oz/cu. yd	troy ounces per cubic yard
oz/T	troy ounces per short ton
ppb	parts per billion
ppm	parts per million
sq. km	square kilometre
sq. mi	square mile
T	short ton
t	metric ton (tonne)
tpd	short tons per day
t/d	metric tons per day
yd	yard
UTM	Universal Transverse Mercator
x	statistical mean
%	percent
±	plus or minus
o / ' / "	degree/minute/second of arc

CONVERSION FACTORS

Length			
1 millimetre (mm)	0.03937 inches (in)	1 inch (in)	25.40 millimetre (mm)
1 centimetre (cm)	0.394 inches(in)	1 inch (in)	2.540 centimetres (cm)
1 metre (m)	3.281 feet (ft)	1 foot (ft)	0.3048 metres (m)
1 kilometre (km)	0.6214 mile (mi)	1 mile (mi)	1.609 kilometres (km)
Area			
1 sq. centimeter (cm ²)	0.1550 sq. inches (in ²)	1 sq inch (in ²)	6.452 sq. centimetres (cm ²)
1 sq. metre (m ²)	10.76 feet (ft ²)	1 foot (ft)	0.0929 sq. metres (m ²)
1 hectare (ha) (10,000 m ²)	2.471 acres	1 acre	0.4047 hectare (ha)
1 hectare (ha)	0.003861 sq. miles (m ²)	1 sq. mile (m ²)	640 acres
1 hectare (ha)	0.01 sq. kilometre (km ²)	1 sq. mile (m ²)	259.0 hectare (ha)
1 sq. kilometre (km ²)	0.3861 sq. miles (mi ²)	1 sq. mile (m ²)	2.590 sq. kilometres (km ²)
Volume			
1 cu. centimetre (cm ³)	0.06102 cu. inches (in ³)	1 cu. inch (in ³)	16.39 cu. centimetres (cm ³)
1 cu. metre (m ³)	1.308 cu. yards (yd ³)	1 cu. yard (yd ³)	0.7646 cu. metres (m ³)
1 cu. metre (m ³)	35.310 cu. feet (ft ³)	1 cu. foot (ft ³)	0.02832 cu. metres (m ³)
1 litre (l)	0.2642 gallons (U.S.)	1 gallon (U.S.)	3.785 litres (l)
1 litre (l)	0.2200 gallons (U.K.)	1 gallon (U.K.)	4.546 litres (l)
Weights			
1 gram (g)	0.03215 troy ounce (20dwt)	1 troy ounce (oz)	31.1034 grams (g)
1 gram (g)	0.6430 pennyweight (dwt)	1 pennyweight (dwt)	1.555 grams (g)
1 gram (g)	0.03527 oz avoirdupois	1 oz avoirdupois	28.35 grams (g)
1 kilogram (g)	2.205 lb avoirdupois	1 lb avoirdupois	0.4535 kilograms (kg)
1 tonne (t) (metric)	1.102 tons (T) (short ton)	1 ton (T) (short ton) (2000 lb)	0.9072 tonnes (t)
1 tonne (t)	0.9842 long ton	1 long ton (2240 lb)	1.016 tonnes (t)
Miscellaneous			
1 cm/second	0.01968 ft/min	1 ft/min	50.81 cm/second
1 cu. m/second	22.82 million gal/day	1 million gal/day	0.04382 m ³ /second
1 cu. m/minute	264.2 gal/min	1 gal/min	0.003785 m ³ /minute
1 g/cu. m	62.43 lb/ cu. ft	1 lb/cu. ft ³	0.01602 g/m ³
1 g/cu. m	0.02458 oz/cu. yd	1 oz/cu. yd	40.6817 g/m ³
1 Pascal (Pa)	0.000145 psi	1 psi	6985 Pascal
1 gram/tonne (g/t)	0.029216 troy ounce/ short ton (oz/T)	1 troy ounce/short ton (oz/T)	34.2857 grams/tonne (g/t)
1 g/t	0.583 dwt/short ton	1 dwt/short ton	1.714 g/t
1 g/t	0.653 dwt/long ton	1 dwt/long ton	1.531 g/t
1 g/t	0.0001 %		
1 g/t	1 part per million (ppm)		
1 %	10,000 part per million (ppm)		
1 part per million (ppm)	1,000 part per billion (ppb)		
1 part per billion (ppb)	0.001 part per million (ppm)		

APPENDIX II
DIAMOND DRILL CORE LOGS



SC02-5

Project name: SKUKUM
Project #: CR568
D.D. Hole #: SC02-5

TOTAL DEPTH
Length (m): 159.10m
Grid: RAINBOW
Dip: -57
Azimuth: 141
Core size: NQ2

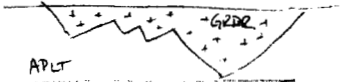
Contractor: BOISKNA
Northing: 56711/35.903
Easting: 477372.219
Collar Elev.: 1230.21

Hole survey type: DIGITAL MULTISHOT
Started: July 17/02
Completed: July 21/02
Logged by: TV
Date logged: July 19 - 22/02

Depth	Dip	Azimuth
34.44	-56.8	145.2
64.92	-56.5	146.1
125.88	-56.1	147.1
156.36	-56.1	148.0

0-0.76
CASE
NO. 1000

From - to m	Lithology	Alteration	Mineralization/ Sulphides/Structure/	Sample No.	Interval m	Length m	Au	Ag
0.76-2.11	GRDR; med-crs grained	Moderate to locally strong epidote alteration Matrix strongly chloritized having cb vults, preserved, along fracs. Pink K-spar (?) also of fs around opic vults esp @ 0.35m						
2.11-2.41	APLT dyke (?); v. fn grained pale pink		UC ~ 450, LC ~ 450 Appears bx'd toward lower contact's w/ intermediate epi + seric					
2.41-15.70	MONZE (?) / DIOR; light to med grey, porphyritic w/ fs phenos massive, relatively homogeneous. 2.00-2.10 APLT dyke (?), v. similar to 1.35-1.65; greenish epi alt precipitating pale pink, v. fn grained fs + qz.	mod Sericite alt - cb vults (sub-mm), + Seric alt localized around epi - fs vults/fracs. 3.60-4.50, slight breccia + silicification in rock. mod-strong chl / seric	trace py on fracs, some lightly alss. @ 3.60 minor shear & @ 3.50 CA below shear to 4.50, weak Bt intersected sub parallel to shear. 1% patchy clssn.					

From - to m	Lithology	Alteration	Mineralization/ Sulphides/Structure/	Sample No.	Interval m	Length m	Au	Ag
15.70-19.05	15.70 - 19.05 Felsic dyke (?), v. fine grained, highly fract'd w/ chl + py. along Gfcs; qz-fs; v. minor cb. UC irreg, offset	13.95 - Zone of qz filling fs, altered w/ epi, minor fine controlled py w/ dominant epichlor	15.90 - 16.05 Step offset of GRDR w/in APLT (?) 					
	16.80-17.00, GRDR frag, sheared contacts esp @ lower contact w/ wk bre of APLT		@ 16.20 cp + py, Py dominant, replacing hbl? w/ chl. Local as covet to 2mm w/ dark chl assoc. Py ~ 1-2%.					
19.05 - 61.45	LC gougy fault contact w/ GRDR. GRDR. crs-grained, hbl, massive & homogeneous.	Pb rich fault gouge Strong chl alt ² of hbl. Pervasive seri alt ² v. minor hem alt ² assoc w/ frags.	UC brittle fault from contact to approx 20.75m. @ 21.50 chl seam 4mm/40°CA w/ minor epi. @ 24.60 ank/hem int 1mm/42°CA					
		25.7-26.75 low angle to CA epi fine gr. int ² .						

From - to m	Lithology	Alteration	Mineralization/ Sulphides/Structure/	Sample No.	Interval m	Length m	Au	Ag
	(GRDR cont'd)	33.50-39.95 py assoc. w/ epi vnl's py. diss in GYRDR	@ 27.20 . anastomosing cb-qz? va w/ pink Fe alteration and of fs (ant?) - 3mm/20°C.A. 28.45-31.00 Series of narrow chl- seri shearis					
		@ 33.50 minor red-brown hem alt	33.50-34.95 Abundant epi-epi stringers assoc. w/ massive white, pale green qz veins, disrupted, up to 2.7cm wide; qz flooded. Py to 3%, diss in GYRDR and qz veins,					
		36.05-36.25 rich epi assoc w/ Botzall of va. epi continues to be strong to 39.95.	@ 35.50-36.05 low angle qz va, 2.7cm/~50 to CA pyss moly in immediate wallrock @ 35.86.					
	38.35-39.05, qz rich phase of GYRDR		@ 36.35 gougy slip plane w/ cb + hem (ant?); loc 37.40-38.10, low angle frac w/ rich epi + qz (va?), numerous chl-fill fracs, offsetting qz va					
								

From - to m	Lithology	Alteration	Mineralization/ Sulphides/Structure/	Sample No.	Interval m	Length m	Au	Ag
	@41.10. 6cm pale green dyke? Pne grained w/ chloritized margins - appears clay altered, not competent 56.10-56.20 5.5cm APLT dykelet. 35°C.A. @60.00 5.5cm APLT dykelet 55°C.A.		@40.65 cb vnt w/ wk Fe alt. 45°C.A. 41.15-41.50 broken core. @47.10 qz va, 4mm/55°C.A w/ py + bn(?), large brown patch, brown streak, H ~ 5 @47.75, disrupted qz va w/ patchy py + gal or stib @48.60 chalcedony vein 1cm/60°C.A @49.05 gougy fault/56p plane. also @ 49.15 and 51.62. @52.35 epi-qz va 1cm 40°C.A. 57.75-58.25. Gougy fault, v broken, soft, minor cavities 60.45-60.80; fragmented (bx'd) APLT dyke, @60.95 Gougy fault ~ 10cm, abund cav. clay in GRD @62.70 5cm wide gougy fault 25°C.A.					
61.45-63.45	ANDS dyke; dk gray, homogenous. faint altered phenos; Variably oriented carb streak v. 15. Upper/lower contacts faulted, UC broken core, LC gougy, contact ~ 15°C.A.	Fs phenos altered to epi. ± scri Mod- strong seri alt						

From - to m	Lithology	Alteration	Mineralization/ Sulphides/Structure/	Sample No.	Interval m	Length m	Au	Ag
63.45-66.65	GRDR. - as described above.	Chl alb on fracs. Locality rich v. nths of epi. Mod → Strong Sericite alb	UC/LC faulted/sheared contacts. Core fractured w/ gangy clay on frac/clip sfcs Rare py (trace) @LC low angle carb-ham unit.					
66.65-70.15	ANDS dyke, similar to previous, slightly lighter grey, carb streak v. nths. homogeneous; generally v. fractured	Mod chl alb. Mod strong Sericite alb	UC/LC irregular intrusive contact.					
70.15-118.90	GRDR (hbl) Sheared w/ zones of unsharred competent GRDR. 75.25-75.45 ANDS (?) dyke. or shear w/ GRDR, v. dk grey, shaded qz frags w/ folc ~ 20°CA	Chloritized ampts (mod-strong) Mod-strong Sericite; Local epi frac-fill w/ nths partic in shears. Strong Sericite w/ shear zone @ 80.05-80.70. Local zones of pinkish Lem alb of fs, assoc w/ epi v. nths and frac fill alb.	Shears localized over 5-10cm 25-35°CA. Minor py, local patches to diss cubos. 73.70-73.65 series of qz-cb v. nths (~11) qz was discontinuous (stippled) @73.70 tr. epy assoc w/ chl-carb frac. @77.80 gangy fault ~ 1-2cm. 80.05-80.70 shear zone in GRDR. Series of chl-seric narrow shear fabric @ 35°CA 81.25-81.85 shear zone ~ 30°CA but variable.					

From - to m	Lithology	Alteration	Mineralization/ Sulphides/Structure/	Sample No.	Interval m	Length m	Au	Ag
	(part's GDR, sheared)	85 and downward, generally ep rich assoc w/ shears and vns 90.10 - 93.60 Strong seri, chl alteration	88.15-88.55 Epi rich shear zone ~ 9cm wide, 15° CA. 88.75 - 88.70 sheared. 90.10 - 93.60 Rel. strong shearing minor assoc. patry dist py. 93.60 - 95.25 Broken, faulted core. 96.25 - 96.55 2 epi vns(?) Fract offset and X-cut by cb-ga py vnts, which also show offsetting. here vns on face of frs. 2cm wide / 35° CA.  97.55 - 98.45 strong epi shearing vnts offset and @ low CA angle. 102.95 - 103.35 Shear. 104.55 - 104.80 112.10 - 113.15 Strong epi vnt alt 114.30 Start of increase in hem. alteration; little to no carb in fault.					
118.70 - 136.25	OZMZ, pale pinkish grey w/ lighter green; minor mafic content, dominantly chloritized hbl	Strong seri alteration and chl alteration of mafics. Rel. abund hem alteration along fractures, less epi	114.20 - 116.50 Faulted, broken core, local gage on fracs of slip planes. Occasional minor 1-3mm chalcocopy vns					



Project name:
Project #:
D.D. Hole #:

Length (m):
Grid:
Dip:
Azimuth:
Core size:

Contractor:
Northing:
Easting:
Collar Elev.:

Hole survey type:
Started:
Completed:
Logged by:
Date logged:

Depth	Dip	Azimuth

From - to m	Lithology	Alteration	Mineralization/ Sulphides/Structure/	Sample No.	Interval m	Length m	Au	Ag
	(cont'd Q2M2)	@119.70 Abund. interstitial hem. over. 3cm	121.50 - 123.95 Shear zone with local patchy red hem alteration, abund Ser. ± chl., minor assoc. py.	06046	119.50 - 121.00	1.50	1.2	20.3
			@121.50 purple vein - chalcedony? (poss fluorite, but hard)	06047	121.00 - 122.50	1.50	1.3	0.4
			121.60 - 121.85 Breccia, rounded Q2M2 frags in red hematitic matrix; ~600 CA (?)	06048	122.50 - 124.00	1.50	20.2	1.1
			123.45 - 123.95 abund hem, patchy ± stringers of chl + ser.	06049	124.00 - 125.50	1.50	20.2	20.3
		minor cb vults.	@125.85 4mm/120 CA qtz vult, massive, pink, barren, chl sets <1mm	06050	125.50 - 127.00	1.50	0.5	0.5
	126.80 - 136.70 Strongly sheared Q2M2 Local bx zones, highly fractured w/ epi + chl + ser ± hem. Increasingly bleached down interval. to end of interval	@126.80 strong ser + hem alt band ~770 CA but does not continue through core 127.35 - 127.55 Strong hem + ser + qtz + minor py - shear? also @ 128 + 128.50	128.70 - 130.00 Core fractured & broken	06001	127.00 - 128.05	1.05	3.5	0.4
			@132.45 bx 7cm/550 CA subrounded fragments with dark chl(?) matrix	06002	128.05 - 129.00	0.95	19.7	14.4
			@135.60 wk. bx ~5cm.	06003	129.00 - 130.00	1.0	2.9	0.4
				06004	130.00 - 131.00	1.0	1.6	20.3
				06005	131.00 - 132.00	1.0	8.5	20.3
				06006	132.00 - 133.00	1.0	1.6	20.3
				06007	133.00 - 134.00	1.0	1.4	20.3
				06008	134.00 - 135.00	1.0	1.3	0.6



Project name:
Project #:
D.D. Hole #:

Length (m):
Grid:
Dip:
Azimuth:
Core size:

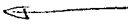
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Northing:
Easting:
Collar Elev.:

Hole survey type:
Started:
Completed:
Logged by:
Date logged:

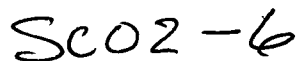
Depth
Dip
Azimuth

From - to m	Lithology	Alteration	Mineralization/ Sulphides/Structure/	Sample No.	Interval m	Length m	Au	Ag	C
	(cont'd 07M2 + shered) @ 135.70 fine offsetted ANDS dyke fragment 			06009	135.00 - 136.20	1.20	0.6	13.8	
136.20 - 137.47	ANDS dyke - dark grey homogeneous but sheared; local zones of bleaching and fracturing (136.70)	Chl + seric alteration Clay	UC is broken, fractured fuzzy material along fractures Fine sub-mm streak veins of qtz- epit(?) Near upper contact, foliation developed, including streak units to 400 CA @ 137.20 wk bx; dk ANDS frags in lighter bleached ANDS/DAC	06010	136.20 - 137.47	1.27	0.6	4.2	
137.47 - 143.05	Light to med grey, bleached ANDS(?) med to fine grained, highly fractured but competent core. Similar colour + mineralogy as prev. 07M2/640DL; probably equivalent to previous logging of RHYL.		UC is sharp w/ irregular intrusive contact w/ fracturing and minor veining @ 137.90, narrow qtz vn w/ bx in lower portion, open space filling carb (cc) + gypsum (?) qtz vn ~ 3mm / 550 CA bx ~ 3cm / 550 CA minor assoc py < 1%.	06011 06012 06013	137.47 - 138.50 138.50 - 139.50 139.50 - 140.50	1.03 1.00 1.00	4.9 2.6 6.3	20.3 20.3 0.6	

From - to m	Lithology	Alteration	Mineralization/ Sulphides/Structure/	Sample No.	Interval m	Length m	Au	Ag	
143.06- 144.46	Strongly sheared, fault gouge zone. dark grey, gouge material HLBX, dominating RH4L fragments w/ occasional blue grey qz vein fragment QZ-SK-BX assoc w/ fault gouge.	141.85-142.35 strongly bleached Qtz, rel abund carb in lines, some minor open spaces.	@ 141.35 open space filling vein w/ gypsum veins up to 0.5cm and cc of sil along veins + vein sils Several angular entrained wall rock fragments 3cm/50° CA. Very dk grey to black sil looking on edge of vein - calc?	06014	140.50-141.52	1.02	16.9	1.1	-
			141.52-141.86 Gouge zone, v. little carbonate.	06015	141.52-141.86	0.34	10	0.6	
			@ 142.28, darker grey band w/ ~3% py, irregular.	06016	141.86-143.06	1.50	19	1.1	
			@ 142.43 - similar, highly calcified qz vein w/ 3-5% py.						
			143.15-143.75 Fault gouge zone w/ <u>qz-sk vn/bx</u> .	06017	143.06-143.75	0.69	3538.6	117.6	
			@ 143.15 - 5-10% finely diss. py w/ poss v. in ground assy.	06017					
			@ 143.70 low angle to CA qz-sk vn w/ 10% assy + 10% py, finely diss. to larger patches						
			143.75-144.40 Heterolithic breccia, dom RH4L or bleached ANDS frags, some qz vn frags a minor diss py (<1%)	06018	143.75-144.40	0.65	481.4	20.2	
			144.05-144.40 Large RH4L frags + GROR frags						

From - to m	Lithology	Alteration	Mineralization/ Sulphides/Structure/	Sample No.	Interval m	Length m	Au	Ag	
144.40 - 146.61	Bleached ANDS; sheared but competent, homogeneous, some relict porphyritic texture; v. hard	Strong seri alt	@145.05 Shear (?) Brown, off-set by low angle fract w/ v. fn grained SX (py + aspy), soft	06019 06020 06021	144.40 - 144.91 144.91 - 145.13 145.13 - 146.01	0.51 0.22 0.98	18.0 19.0 6.7	1.9 1.4 0.7	
146.01 - 146.49		146.01 - 146.49 Shear w/ strong seri + chl; cb silicate veins	146.01 - 146.49 Strong shear Lower contact becomes bleached, highly fractured. @146.61 appearance of SX fine-grained (stylistic in appearance) 147.08 - 147.18 Gouge, dark grey, No vis. SX.	06022	146.01 - 146.49	0.48	68.0	1.5	
146.49 - 154.87	Strongly bleached ANDS or RHYL chle; w/ highly sheared and fractured,		147.77 - 151.40 Abundant fine-grained SX in ribboning, fracs; networks; fine off-sets. SX of py, gn, aspy up to 20% (combined), partic from 147.77 - 148.40; sph? (pale brown) 151.40 - 154.87 SX content decrease though still present.	06023 06024 06025 06026 06027	146.49 - 147.77 147.77 - 148.40 148.40 - 149.40 149.40 - 150.40 150.40 - 151.40	1.28 0.63 1.00 1.00 1.00	506.0 1146.9 759.8 1074.3 1065.6	4.3 38.4 45.3 23.1 30.0	
154.87 - 155.83	HLCX ($\pm$ SX) Fragments of RHYL, ANDS and pots GEDR or QZMZ; also QZ-SX UN w/ above. aspy, py	Strong seri (locally completely sericitized) also strong chl	Sharp HLC & LC Foliation ~ 25°C SX variable, dominantly py + aspy 5-10%	06028 06029 06030 06031 06032	151.40 - 152.40 152.40 - 153.40 153.40 - 154.57 154.57 - 154.87 154.87 - 155.83	1.00 1.00 1.17 0.30 0.96	21.0 146.1 301.9 1394.0	4.4 3.9 6.6 33.1	

From - to m	Lithology	Alteration	Mineralization/ Sulphides/Structure/	Sample No.	Interval m	Length m	Au	Ag	C A
155.83 - 158.57	Sheared GRR	V. strong seri chl alt of mafic	155.83-156.20 - py to SP. @ 156.62 ~ 570 py, poss aspy. Blk qz-sx bds, narrow.	06033 06034 06035	155.83-157.00 157.00-157.80 157.80-158.57	1.17 0.80 0.77	623.0 61.1 10.0	3.5 4.9 1.2	C A
158.57 - 159.10	ANDS - dk homogeneous sheared UC.	Strong seri alt $\pm$ chl.	UC ~ 140LA	06036	158.57-159.10	0.53	5.7	20.3	
159.10	END OF HOLE								



PG 1 of 1

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Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
15		(MONZ/DIOR cont'd)							
15	16.10 - 17.20	FELSIC DYKE or poss QZ VEIN - qtz rich border phase between MONZ/DIOR unit above and GRDZ occurring below.		@ 14.85 strong shear zone w/ seri.	06039	15.1 - 16.1	1.00	1.2	1.5
	17.20 - 183.70	GRDZ, cfs-grained, hornblende granodiorite, typical unit; v. wk. magnetic response (w/ magnet)	Chloritization of mafics ~ 80-90% Moderate seri alt	Py occurs along fractures w/in qtz-rich (K-spar?) areas. ~ 2% with up to 10% locally	06040	16.1 - 17.2	1.10	2.9	6.4
				@ 18.70 - 18.95 low angle to CA epi w/ shear w/ up to 10% py ~ 1cm/150CA	06041	17.2 - 18.1	0.90	2.7	5.7
20				@ 23.70 hematitic stringers (sub-mm)					
25				@ 27.86 - 28.27 shear w/ strong epi, seri, cN, py.					
28									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
28		(GRDE, cont'd)							
30									
32				@ 30.56 py + sp? in abundant seri + chl 31.55 - 31.80 frac'd broken core - fault?					
34			33.05 - 34.45 epi va ll to CA locally offset out of core by narrow chi-seri. some pones, local pu. up to 37.05 several other epi vas; patchy epi alt in core as well						
36									
38									
40				39.10 fault?, ~ 5-10cm; brittle broken core					
42									



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
44		(GDR, cont'd)							
46				@ 45.4 m. slatich. @ 45.15 Blain in GDR, - Altered mafic layer, ~ 500°C.					
48									
50									
52				511 Andes Xenos					
54			Carb-clay with asdoc = 1 fract and fault.	52.55 - 54.60 numerous clay-rimb fract / slip stress slightly gouged core at these intervals					
56				54.00 - 54.60 Fault, part of internal dome, strongest fault, ~ 400°C					



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
58		(GRDL, cord'g) 58.9-61.5 GRDL, slightly less cis-grained more pink hem alt of fs,	58.9-61.5 - hem alt, strong seri + chl,						
60									
62									
64				62.63-64.22, locally v. frac'd to slightly gangy core, along cb in fracs w/ cb v. thin clay alt (minor) @62.30 epi vn, low angle to CA ~7mm wide @62.75 fault ~12cm/450CA @64.20 fault ~9cm/600CA					
66		@65.60 APPL dyke 3cm / 700CA 3cm offset							
68									
70									
72			71.10-72.50: Rich chl, seri, asse inf shear zone.	71.10-72.50 Shear zone, low angle to CA, but somewhat variable;					
73									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
23		(GPR, cont'd)							
24		@74.24 narrow APT, 1.5cm/~40°C							
25		@74.55 " " 1.2cm/~25°C							
26		fract, offset							
27									
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Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
88		(GDR, cont'd)							
90				@ 89.5 Fault zone 2.5cm/20°C carb + sericite clay.					
92				@ 90.9 Epi. vein/shoot w/ disrupted massive bl. qtz. Py assoc. in epi matrix; LC w/ carb. clay slip plane; 5cm/15-20°C. Silicification above it.					
94			93.30-93.90 - rich epi. shoot/vein w/ bl. qtz. abundant here alt. of fs.	@ 93.65 main epi. shoot/vein, minor assoc. py; 1.2cm/25°C.					
96				@ 94.85 narrow 3cm shoot, sericite; 40°C.					
98				@ 98.14-98.25 series of carb. argill. (clay) veins ~ 50°C.					
100									
102									
103		~ 98 and down, more shattering zones in GDR - typically green sericite + epi. py.							
			102.55-104.88 Sericite only + sericite carb. shoot veins.	102.55-104.88 Shoot zone, also locally abundant SX - ~ 10%.					



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103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
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Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
118		(GRDR, cont'd)							
120				@120.30 3mm/45°CA carb-qz va					
122		121.23-126.30 GRDR less chloritized (primary hbl in core); still abnd epi vaits a occasional qz-carb vaits		@121.05 shear, epi + qz(?) w/ X-cutting carb-qz vaits; ~ 20cm wide 45°CA					
124									
126			126.30-127.60 inc. hem alt w/ 3cm wide hematitic clay seam ~ 1 to CA; abnd hem vaits & epi + sericite in immediate surrounding rock; v. minor carb	@127.00 hematitic clay seam (brick red clay) 3cm/90°CA					
128		127.60 → GRDR, inc chl of mafics is (apparently) complete replacement of hbl by chl							
130		130.90-131.30 QZHZ phase.	@130.45 strong hem alt.	@130.10. dykelet or shear; v. fn grained w/ abnd seric in wallrock ~ 3cm/90°CA @130.95 hem vaits + minor low angle br w/ hem matrix 131.70-133.10 faulted, broken core local hem vaits a alt.					
132									
134									



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
133		(GRDR, cont'd)		@133.05 clay gouge, v. pale green & white ~ 4cm / 50°C					
134				134.1 - 134.20 chl shear w/ hem + sericite + minor carb-qtz v. ls; minor py (4.8%) + op. ~ 350°C					
135			@135.60 4cm strong hem alt.						
136		136.70 - 137.90 (core generally v. broken; - large fault zone (?) 136.90 - 138.94 Qtz + HZ phase, less matrix, light green sericite (apple-green)			06042	135.3 - 136.8	1.50	3.4	0.5
137				@137.45 narrow qtz vein w/ gn. diss in wall rock. @138.05 qtz vein? w/ gn nearly in wallrock @137.68 carb-qtz vein 5mm / 450°C @138.90 shear/vn, 2-3mm / 450°C	06043	136.8 - 137.77	0.97	1.1	0.9
138					06044	137.77 - 138.94	1.17	1.5	0.3
139					06045	138.94 - 139.94	1.00	2.6	0.3
140				140.85 - 142.75 Core v. broken; hematite veins					
141									
142									
143									
144									
145									
146									
147				@147.75 bx in GRDR ~ 10cm wide 147.90 - 148.15 hem zone w/ abundant py + magnetite					



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
148		(G2DR cut to)							
150		148.35- Medium-grained G2DR → QZM2, mafics (hbl) fine-grained (leucocratic); random chl-seri; alt vas; stibitic occurrence; unit is pale pink w/ bright green seri.	148.35 strong seri, poss minor clay; minor epi/carb	@148.05 rich magnet py in strong epi + chl + hemat zone; apple green seri					
152		(Sheared G2DR 148.35 - 183.60)		@150.82 5mm/52°C qz-fl(?) va, dt purple mineral, also carb					
154				152.85-153.20 hem-qz va, fractured w/ rich chl+epi+seri					
156				153.80-154.55 va. frac's broken core.					
158				@155.95 hem-chl shear (?) ~ 600°C					
160				157.25-157.90 v. broken core; gouge w/ py cubes @ 157.60.					
162			Increased breaching of G2DR w/ apple-green seri alt (v. strong); original cns-grain texture locally observed		06051	158.44 - 160.00	1.56	13.5	0.8
164			Increased chl(?) values		06052	160.00 - 161.50	1.50	15.2	0.7
166				@161.95 pressure sol'n ss w/alt w/ gnt @	06053	161.50 - 163.00	1.50	5.9	0.4

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
163		(G2DR, shaded, cont'd)							
164				164.00 - 164.25 wk bx in G2DR. Rich chlorite matrix 164.30 - 164.90 stylolitic chiffole units.	06054	163 - 164.5	1.50	7.2	20.3
166					06055	164.5 - 166	1.5	9.6	20.3
168				@166.17 dark vult, post fine-grained SK; diss py in vult w/ entrained microcr. qtz; poss gn + sp; 7mm/25% e	06056	166 - 167.5	1.5	13.6	0.6
170				@167.60 - 167.70 + 6-7cm shear; clay- dried w/ dt matrix (sv?); rare py. 300CA @167.95 seri shear w/ stylolitic gn + sv vult; shear contact shows numerous steep faults offsets; shear w/ 400CA @168.10 another stylolitic SK vult w/ abund gn + py ± sp - vults up to 3mm wide general < 1mm. @168.75 narrow shear 4mm/300CA 169.92 - 170.55 bx? or shear/fract w/ stylolitic stylolitic vults + one sv vult w/ abund py ± gn 171.30 - 171.90 strong shear; seri + arg. qtz; @171.77 qtz fragment, rounded in shear, w/ gn + py ± aspy. @172.55 gn diss in G2DR, probable fract control.	06057	167.5 - 169	1.5	12.3	1.4
172					06058	169 - 170.5	1.5	9.2	0.4
174			171.30 - 171.90 v. strong seri alt assoc w/ shear, + probable arg alt.		06059	170.5 - 172	1.5	4.7	0.4
176					06060	172 - 173.5	1.5	24.9	2.1
178					06061	173.5 - 175	1.5	2.5	0.5
					06062	175 - 176.5	1.5	34.4	1.1
			@175.55 15cm zone of light green seri.		06063	176.5 - 178	1.5	5.6	20.3

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
178		(GRDR, sheared, cont'd)			06064	178 - 179.5	1.5	3.9	0.4
180				0174.55 gr + py = stibiotic unit.	06065	179.5 - 181.	1.5	3.0	0.5
182				0180.80 narrow ch. qz salt 2mm/45°CA 0181.03 qz va w/ gr + py, qz white, but 1st ch. margin 3, 4mm/45°CA	06066	181 - 182.5	1.5	6.5	2.1
184	183.70 - 185.01	ANDS dyke; shear contact w/ GRDR; 20°CA; upper contact v. altered & sheared	V. strong seri; chl + clay alteration, esp near upper contact. Faint red alteration	0182.13 1mm/38°CA sr salt w/ gr + py 0184.68m 1cm/25°CA shear w/ epi + chl + chalcocite, rare py	06067	182.5 - 183.7	1.2	3.9	0.5
185	185.01 - 186.54	RH4L or BLEACHED ANDS dyke w/ brecciated w/ QZ-SX-VNS. Highly fractured, infilled w/ qz vining + SX	RH4L or ANDS, bleached, pale green seri alt + silicification.	0184.68m 1cm/25°CA shear w/ epi + chl + chalcocite, rare py	06068	183.7 - 185.01	1.31	16.3	2.3
186	186.54 - 186.92	ANDS, shear zone gouge on slip planes; probably offsets lower QZ-SX-BX from above; no v.s. SX	Chl + seri; minor clay.	0185.01 white qz w/ round dk grey fine-grained sv + v.s. aspy, py, g, cp. sp. ~ 15% total for unit, up to 25% locally; some aspy acicular needles 0186.54 qz also dms in host RH4L/ANDS; qz vns up to 6cm.	06069	185.01 - 186.54	1.53	4363.4 4.36 3/4	105.7 712.0 9/4
187	186.92 - 187.36	QZ-SX-BX in RH4L or bleached ANDS (similar to 185.01-186.54)			06070	186.54 - 186.92	0.38	325.0 3.26	25.6 25.4
188	187.36 - 188.28	Strongly sheared ANDS w/ lesser QZ-SX vln fragments - contain rel. abund. Pt + sp + aspy - few sx post 187.83	Chl + seri + minor clay (arg) alt	Sx dominantly aspy, up to 25%. Lesser sp + gn + clastic silvery mineral, surrounded by drill bit - poss pyrite/argentine Shear orientation ~ 45°CA	06071	186.92 - 187.36	0.44	9200.0 10.08	311.0 423.4
189	188.28 - 235.30	RH4L + RH4C - massive, competent, homogeneous w/ minor fs phenos. locally flow-banded w/ dk grey diffuse bands. (color is lt. white to brown, increasing w/ depth to brick red.)	Dominantly seri alt.	UC very sharp ~ 15-20°, chilled margin, w/ flow banding. Flow banding ~ 45°CA	06072	187.36 - 187.82	0.46	3900.0 4.09	220.5 223.1
					06073	187.82 - 188.28	0.46	236.0	11.2
					06074	188.28 - 189.50	1.22	28	2.9



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
189.	SCALE CHANGE 1-100				06074	189.28 - 189.50	1.22	See previous page	
190					06075	189.50 - 190.50	1.00	8.3	1.1
					06076	190.50 - 191.40	0.90	3.2	20.3
192		191.40 Rhyolite type granites into a very unaltered, unshaded, massive, competent, fine grained Rhyolite (?) w/ altered feldspar (ch. + sil.) - amygdulose & occasional crystal lined cavities - 5%.		@193.15 wt feld. or feldspar ~25% Ca	06077	191.40 - 192.90	1.50	1.6	0.3
194				@195 trace zinc / feld.	06078	192.90 - 194.40	1.5	1.0	0.4
196					06079	194.40 - 195.90	1.5	1.9	0.3
198					06080	195.90 - 197.40	1.5	2.	20.3
200			200.05 - 200.45 Lt brown / beige altered zone in Rhyolite, appears assoc. w/ feld.						
202									
204									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
204		(RHDC, cont'd)		@204.40 Long ampoule (~2cm) highly clay altered -					
200									
208				@207.95 bleached zone w/ phreatic amphiboles ~ 1cm wide					
210									
212									
214				@213.1 bleached zone 3.5cm/40°C @213.9 " " 1cm/40°C					
216				215.85-217.00 bleached zone long-low angle phreatic flow CA @216.65 shear? 25°C					
218				217.95-218.05 Fault gouge. 40°C					
219									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
219		(RHIC, cont'd)							
220		Core generally more broken. to ~222.00. Long low angle to CA fracs.							
221		Local dk brown frags(?) with lighter brown, typical RHIC, relatively rare.							
222									
223									
224			@223.98-224.31 bleached & shear. @224	Shear 40°CA, @224.77; alteration halo around narrow v. alt. @ 42°CA; halo ~1cm.					
225									
226									
227									
228				@228.55 large amygdule - highly clay (?) altered					
229				@229.10 shear? 2cm/30°CA					
230									
231									
232									
233				@224.15 filtration / flow sanding 30°CA					

25.30

END OF HOLE



SC02-7

Project name: SKUKUM Total Depth (m): 98.14m Contractor: BOISVENU Hole survey type: DIG MULTISHOT Depth: Dip: Azimuth:
Project #: CPS08 Grid: PE NB000 Northing: 6671435.228 Started: 07/26/02
D.D. Hole #: SC02-7 Dip: -32.3 Easting: 477812.665 Completed: 07/27/02
Azimuth: 151.7 Collar Elev.: 1230.46 Logged by: TV
Core size: N02 Date logged:

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
0	0 - 2.35	NO CORE							
2	2.35 - 5.48	GROZ; cfs grained hbl-granodiorite	chloritization of hbl. mod-strong ser epi.	@ 5.48 epi shear w/ minor py. n 2cm / 45° CA					
4	5.48 - 5.92	APLT (?) or RH4L (?) dyke, li phencr. prot, vitres		dis py; UC ~ 30° CA, LC ~ 45° CA					
6	5.92 - 25.45	MONZ / Dior.	mod-strong ser mod ep. + chl						
8									
10				@ 10.5 fault.					
12									
13									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
13		(Monz/dior, cent'c)		@13.53 GRDR inclusion					
14									
16									
18				@17.55 carb-qz vult, 4mm/25°C					
20				18.35-18.55 faulted core.					
22				@19.7 fault					
24									
26	25.45 -	GRDR, crs grained hbl granodiorite	Strong Seri mud along epi minor clay alt. (argillic)	@25.08 GRDR inclusion, pink hem alt. UC shared contact.					
28									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
29				@28.55 narrow vein? 5m/45°					
30				@30.7 api vn, 13mm/35°CA					
31									
32									
33			@33.93 strong horn alk - plat						
34		34.23 - 34.67 ANDS dyke; v. dk grey, slightly greenish; sharp upper/lower contacts (SS/32°)							
35									
36				36.68 - 37.04 fault, w/ gangy slip planes					
37				37.04 - 37.23 shear w/ aboma api SS°CA					
38									
39									
40				40.1 - 40.45 fault - broken r/z, api vn/ Shear @ 40.45 3cm/45°CA					
41									
42				@42.05 opug 1.5cm/25°CA					
43				42.50 - 42.85 fault; 5m/40°CA carb.					



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
43		(GDR, cont'd)							
44									
46									
48			48.00 - 48.50 Strong sericite						
50				49.25 - 50.05 Rhyolite breccia					
52									
54									
56				55.10 Minor, sparse, shear. 55.25 1cm/50°C epi. v. alt.					
58				58.00 2.0 5cm/80°C					



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au g/g	Ag g/g
58		(GARD 101'0)		@58.15 carb vult 5mm/80°C					
60				@59.4 epi un/shear 1cm/20°C @59.75 argill. shear/vult w/ carb 1.5cm/35°C					
62				@62.4 gouge fault ~ 5cm.					
64			63.5-63.95 v. strong epi, vult + patting; w/ clay, ser. epi vult's stronger generally incr in density at this depth and continue downhole.						
66									
68				68.52-68.55 faulted core, broken a gouge rich serit + core mass.					
70				@70.75 epi shear ~ 5cm/18°C	06083	70 - 71.5	1.5	0.4	<0.3
72				72.11-72.24 strong shear w/ clay gouge + py (~10%); 12cm/65°C	06084	71.5 - 73.	1.5	3.1	<0.3
73									

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
73		(GRDE, cont'd)	QZS strong epi patch						
74					06085	73 - 74.5	1.50	0.8	20.3
76					06086	74.5 - 76.0	1.50	0.6	20.3
78		77.31 → Start RAINBOW SHEAR ZONE (in GRDE)		76.17-76.40 epi-fs va, low angle to CA (~15-20°), sheared contact piece. 77.31-78.27 epi-chl-fs(?) shear zone, rich epi patches & d. v. lts	06087	76 - 77.31	1.31	1.2	0.9
80				078.71 chl seam(?) from 130°C	06088	77.31 - 78.33	1.02	1.3	20.3
82					06089	78.33 - 79.86	1.53	0.9	20.3
84	81.35 - 87.55	QZ-SX-BX w/ lesser zones of SX-BX-RH4L (or bleached ANDS) (upper contact estimated - core mismatch while drilling - sampling conducted block to block in this zone)	RH4L/ANDS units w/ strong seri alt, poss argillie alt	79.32-81.38 v. broken core, few competent pieces (mismatch @ 81.38) Very strong shearing and brecciation of qz-sx vns. Sulphides: dominantly atpy w/ lesser py+gn+sp + local concentrations of pyrrhotite or tetrachlore - v. shiny siliceous, ductile; also epi; SX typically 20-40% content.	06090	79.86 - 81.35	1.49	213.0	19.3
86		84.16-85.05 SX-RH4L, strongly sheared		84.23-84.43 core rough due to clay contact weathering out. 084.86 qz-sx va also @ 84.76. 85.05-85.34 rich qz-sx bx/va, 40% SX content Foliation of SX in qz-sx vns ~30°CA	06091	81.35 - 82.90	1.55	1866.4	276.4
					06092	82.90 - 84.16	1.26	2159.2	315.2
					06093	84.16 - 85.05	0.89	3256.7	75.5
					06094	85.05 - 85.35	0.30	1734.3	278.2
					06095	85.35 - 86.22	0.87	6777.7	133.4
					06096	86.22 - 87.55	1.33	1104.3	311.6
88	87.55 - 88.14	Sheared GRDE - strongly sheared with alteration developed (~45°C)	V. strong seri/argillie alt	Localized qz-sx fragments near upper contact.	06097	87.55 - 88.45	0.90	32.0	92.1



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au ppb	Ag ppm
88		(GDR, sheared, fault'd)	locally occurring carb-qz vults, generally at high angle to CF (370°)		06097	See previous page.			
					06098	88.45 - 89.8	1.35'	32.0	26.2
90					06099	89.8 - 90.67	0.87	0.3	1.1
				@90.8 sheared qz vn; massive wht bull qz w/ chl selv, rare py. carb-seri.	06100	90.67 - 91.18	0.51	410.1	3.6
92			91.18-92.20 strong seri-arg- epi(?) alteration zone w/ shear.	91.18-92.20 strong argillic alt shearing w/ several wht bull qz vns w/ main 1cm/40°C qz vn w/ aspy + tete(?) @ 93.5	06101	91.18 - 92.20	1.52	1210	30.7
			92.20 → EOH sheared GDR w/ complete chloritization of mafics strong seri.	@92.85 strong shear w/ qz-carb- seri-chl vns + gouge plane.	06102	92.2 - 93.7	1.50	1096	0.7
94					06103	93.7 - 95.2	1.50	18.3	1.1
				@94.95 carb-qz vult ~ 70°C.					
96					06104	95.2 - 96.7	1.50	15.9	2.3
				96.28-97.10 5 spaced carb-qz vns ~ 70°C.					
98	98.14	END OF HOLE			06105	96.7 - 98.14	1.44	11.3	0.6



SC02-8

Project name: SKUKUM Total Depth (m): 78.33m Contractor: BOISVENA Hole survey type: MULTISHOT Depth: _____ Dip: _____ Azimuth: _____
 Project #: CPS6B Grid: 240000 Northing: 66714352144 Started: 7/27/02
 D.D. Hole #: SC02-8 Dip: -16.3 Easting: 477872.674 Completed: 7/28/02
 Azimuth: 150.8 Collar Elev.: 1231.06 Logged by: TV
 Core size: N02 Date logged: 7/29/02

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
0	0 - 3.95	GRDZ, c/s grained mbl-grained, rhyolite typical for this.	Mod chl, ser, epi alteration like localized hem.		06167	0 - 1.5	1.5	3.0	<3.0
2					06168	1.5 - 3	1.5	1.2	<3.0
4	3.95 - 26.00	3.95-3.95 MONZ/DIOR; medium grained w/ wht fs phenos, rare GRDZ xenoliths; very porphyritic, competent	3.95-3.95 strong epi alteration toward contact Mod - strong ser; mod epi		06169	3 - 3.95	0.95	2.5	0.5
6					06170	3.95 - 5.5	1.55	1.7	0.4
8					06171	5.5 - 7	1.5	1.8	<3.0
10					06172	7 - 8.5	1.5	1.8	<3.0
12					06173	8.5 - 10	1.5	0.9	<3.0
					06174	10 - 11.5	1.5	1.0	<3.0
13					06175	11.5 - 13	1.5	1.2	<3.0



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
13		(MONZ/DIOR, cont'd)							
14					06176	13 - 14.5	1.5	0.7	23.0
16					06177	14.5 - 16	1.5	1.5	23.0
18				17.37 - 17.72 faulted broken core	06178	16 - 17.5	1.5	0.3	23.0
20					06179	17.5 - 19	1.5	1.1	23.0
22					06180	19 - 20.5	1.5	1.4	23.0
24					06181	20.5 - 22	1.5	0.6	23.0
26	26.00 - 27.44	ANDS dyle; dk grey green, very homogeneous & v. fn grained	Strong seri.	@22.03 strong seri shear 3cm/SS20 local py dissem in immediate wall rock	06182	22 - 23.5	1.5	0.6	23.0
28	27.44 - 34.12	MONZ/DIOR - (as above)		UC sheared, almost gradational from MONZ/DIOR unit into ANDS; 50°C @26.98 MONZ inclusion LC ~ 60°C	06183	23.5 - 25	1.5	0.4	23.0
					06184	25 - 26	1.0	1.1	23.0
					06185	26 - 27.44	1.44	0.3	23.0
					06186	27.44 - 29	1.56	0.2	2.4

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
28				27.44-31.10 moderately broken core, fractures down CA w/ abundant carb coating; frac. stes; some clay-epi alteration	06186	See previous page.			
30				29-29.40 Silicified Monz? or RHYL dyke; glassy, vitreous, fractures w/ carb. inf (4mm) running down CA.	06187	29 - 30.5	1.5	2.1	0.4
32					06188	30.5 - 32	1.5	5.7	0.3
34	34.12-34.47.	FLDK, or border phase between GRDR below and MONZ above; pale translucent pink;	Rich above epi Silicification (?)	Highly fractured, but competent, UC=600°C; LC=750°C w/ epi	06190	33.5-34.12	0.62	9.6	43.0
36	34.47-65.80	GRDR, crs-grained hb granodiorite	Mud strong ser; Mod epi (locally v. strong) Silicification of matrix (n. 95%)	Minor diss. py (<1%)	06191	34.12-34.47	0.35	2.0	0.2
38				037.58 APLT dyket, pale, 1.5cm 750°C	06192	34.47-36	1.53	0.9	230
40					06193	36-37.5	1.5	22.0	23.0
42					06194	37.5-39	1.5	0.8	0.3
44			38.9-39.5 epi rich zone.		06195	39-40.5	1.5	22.0	23.0
46				041.1 APLT dyket, 1.5cm, offset ~ 70°C Dyke w/ sharp 70°C contact - possibly an offset.	06196	40.5-41.59	1.09	1.7	23.0
48	41.59-43.40	FLDK, poss silicified RHYL Porphyritic w/ 1-2mm fs phenos.	Heavy internal fracturing w/ infill by carb, epi, and trace hem.	Lower contact, v low angle to CA (core is 1/2 GRDR, 1/2 dyke)	06197	41.59-42.50	0.91	1.1	23.0
50					06198	see next page.			



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
43		(GRR, cont'd)			06198	42.50 - 43.40	0.90	0.8	<3.0
44		44.05 - 46.10 FLDK or RHYC dyke. (As described previously)	epit carb + horn.	UC sharp, 65° CA	06199	43.40 - 44.05	0.65	0.2	<3.0
					06200	44.05 - 45.10	1.05	1.4	<3.0
46				LC faulted & broken 46.33 - broken GRR - fault contact w/ above dyke unit	06201	45.10 - 46.10	1.00	5.3	1.6
					06202	46.1 - 47.5	1.40	3.1	6.7
48					06203	47.5 - 49	1.5	0.7	<3.0
50					06204	49 - 50.5	1.5	0.8	<3.0
52				05178 carb sp in 3mm/47° CA, in slugg core	06205	50.5 - 52	1.5	0.5	<3.0
		53.34 - 53.95 ANDS(?) dyke, porphyritic - different dyke from typical ANDS; has 1% plagioclase and grained w/ bright green ser. patches; UC appears silicified, possibly faulted.			06206	52 - 53.34	1.34	1.5	0.3
54				05295 poss meltch, ground core	06207	53.34 - 53.95	0.61	521.4	3.8
					06208	53.95 - 55.5	1.55	12.0	5.9
56			05604 20: valb.		06209	55.5 - 57	1.5	2.7	<3.0
58					06210	57 - 58	1.0	0.9	<3.0



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
59		(GRDR, cont'd)			06106	58 - 59.5	1.5	0.7	0.3
60				Q5940 ep. shear / NA	06107	59.5 - 61	1.5	1.0	0.3
61				60.37 - 60.94 core fract. down CA Carb on face of CS.	06108	61 - 62.14	1.14	1.1	0.3
62		62.14 - 62.45 ANDS dyke (typical) dk grey green, homogeneous, massive (20% silice) 62.60 Stout Rhombic SIEPER ZONE		62.60 - 62.45 Fault zone, fractured Core, - fault zone, coarse lithologies into main Rhombic SIEPER	06109	62.14 - 62.45	0.31	1.3	0.4
63		Little chipping in immediate outfall rocks, minor faulting and typical alteration. Shear Zone shows more late brittle deformation - may be due to higher elevation (?)		62.45 - 63.51	06110	62.45 - 63.51	1.06	3.2	3.3
64		63.51 - 64.27 ANDS dyke		63.51 - 64.27 Fault zone, broken core w/ bit of GRDR w/ carb. white on faces 64.27 - 65.1	06111	63.51 - 64.27	0.76	0.3	0.3
65		64.65 - 65.8 ANDS dyke (LX 6)	wk-mod, large aH ₂ , highly fractured.	64.27 - 64.65	06112	64.27 - 64.65	0.38	1.2	0.3
66	65.80 - 66.40	02 SX BX; slightly wavy w/ up to 4% SX (asp. pyrit, sph - late or pur)	wk carb alteration	64.65 - 65.8	06113	64.65 - 65.8	1.15	23.1	2.4
67	66.40 - 68.00	HLBX - appears granular in colour, w/ 4% frags, ANDS & RAME frags; strongly sheared some SX.	u. wk carb.	65.8 - 66.4	06114	65.8 - 66.4	0.60	3740	170.7
68	68.00 - 68.36	Sheared HLBX w/ 07-SX-BX		66.4 - 66.84	06115	66.4 - 66.84	0.44	1540	109.9
69	68.30 - 70.57	HLBX	wk-mod carb	66.84 - 68	06116	66.84 - 68	1.16	13.1	1.7
70				68 - 68.36	06117	68 - 68.36	0.36	2610	8.6
71				68.36 - 69.40	06118	68.36 - 69.40	1.04	30.8	12.4
72				69.40 - 70.50	06119	69.40 - 70.50	1.10	5850	12.0
73	70.5 - 72.33	Sheared GRDR, med. c. s. grained	alteration of matrix seal - strong minor ep. comp. fractures	70.50 - 72.30 Faulted, broken core Py frags, dark, green, local large outcrop from 70.5 to 71.1	06120	70.5 - 72	1.50	51.4	3.2
					06121	72 - 73.33	1.33	198.4	2.1



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
72				07346 qz vn 2m/600CA w. py + gal?	06121	See previous page			
74				fract. altered	06122	73.33 - 73.5	0.17	1650	3.6
76				07485 shear 424.5A, calc. + ser. + op.	06123	73.5 - 75	1.5	25	0.3
78					06124	75 - 76.5	1.5	12.4	0.3
80	78.33	END OF HOLE			06125	76.5 - 77.5	1.0	10.6	4.25
					06126	77.5 - 78.33	0.83	10.5	40.3



SC02-9

Project name: SKUKUM Total Depth (m): 130.15 Contractor: BOISVENU Hole survey type: MULTISHOT Depth Dip Azimuth
Project #: CP563 Grid: RAINBOW Northing: 6671735.606 Started: 7/28/02
D.D. Hole #: SC02-9 Dip: -45 Easting: 447872.359 Completed: 7/30/02
Azimuth: 149.7 Collar Elev.: 1230.3 Logged by: TV
Core size: NQ2 Date logged: 7/31/02 - 8/01/02

Scale	From-To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
0	0 - 1.80	GRDR, cis-grained hbl granodiorite	mod. strong ser; " " chl						
2	1.80-2.18 2.18- 19.10	FLDK or APLT @ contact of GRDR + MONZ/DIOR; MONZ/DIOR, fs phenis to Sma, generally ~2mm, fn-grained matrix	mod. epi. silis mod. strong chl / ser i	UC, shored + irregular LC, 18°C Large U. fa. disc. py.					
4		4.12-4.76 GRDR/QUARTZ dyke, or altered MONZ.	Pack hem, diss K-spar + sil Epi, rare carb.	Large (up to 10mm) patches of py. @ 455					
6									
8									
10									
12									
13									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
13				13.26 - 14.00 broken core, poss fault.					
14									
16									
18									
20	19.10 - 19.50 19.50 - 44.05	FLDK or APLT GRDZ, crs-grained to granodiorite	Locally bright yellow-green epi patches Matrix completely chloritized Strong Ser: weak to v. wk carb alb - carb common in Brecc @25.70 epi vs Smn/20% @26.95 dm strong epi	18.95 - 19.10 faulted core @ contact of dykes					
22									
24									
26									
28									



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
27		(G60A, cont'd)	@28.10 dk green-black chl seams w/ multiple offsets; above is red granite hem alteration.						
30			@29.30-29.50 pink hem(?) alt. pyritic alt.	@29.30-29.50; core py.					
32									
34				@33.50 APLT dyke ~ 60°C, 10%+.					
36				@35.75 APLT dyke 5cm/90°C 36.07-38.17 faulted, broken core.					
38									
40									
42				@41.02 carb-dog ralt. 2m/40°C					
44									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
43									
44	44.05 - 45.62	ANDS dyke, dk green, homogeneous, v. fr. grainy	Strong seric ± chl. Wk carb streaks	Wk sharp 60°C, showed					
45	45.62 - 46.33	GRDZ		@ 44.93 carb. clay va/slip plane 3m/400 LC sharp, irreg 70°C w/ carb w/lt @ 46.04 92m w/ chl 4mm/55°C	06129	45.62 - 46.33	0.71	2.5 ppb	0.6 ppm
46	46.33 - 47.38	ANDS dyke		VC showed/faulted 46.33-46.88 ex broken faulting core @ - 46.5 abund patch of py + gal Quartz w/ 30 va. LC showed w/ carb.	06130	46.33 - 47.38	1.05	3.1	3.5
47	47.38 - 101.40	GRDZ			06131	47.38 - 49.29	0.91	3.3	6.3
48									
49			@ 49.45-49.70 clay alt	49.44 - 49.70 shear zone. 49.45-49.70 3x, clay, minor carb @ 49.70 carb va - 1cm/60°C					
50				52.75 - 54.40 fault zone, highly fractured core; slip plane @ 20°C; abund clay + carb gouge in fractures.					
51				54.75 - 55.10 fault zone w/ gouge.					
52									
53									
54									
55			56.75-58.5 put potassic(?) or km alt						



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
58		(GRDL, cont'd)							
60			60.59-61.57 strong epi shear/10 1cm/28°CA Epidote veins, in general, in accretion & strength to	61.5 - 61.95 shear zone, fine grained abund. chl + ser; v. fine dissp. (61.95) 62.80 - 63.00 fault, broken core.					
62									
64									
66			66.10 - 66.50 v. strong epi shear 48°CA 66.85 - 67.15 strong epi shear, parallel to CA						
68			68.32 - 69.70 strong epi shear/uns, up to 7cm wide / ~ 70°CA	70.19 - 70.58 sheared GRDL					
70									
72									
74									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
73		(GPRR cont'd)							
74			74.0-74.2 poss shear, silicification or feldspar						
76				@75.3 carb-hem unit. 3mm/62°C 75.80-76.30 wk fault zone, minor carb alteration, slightly waxy.					
78			76.70-77.20 strong epi + hem altered zone; upper epi w/ a 20°C						
80									
82			82.00-82.15 epi rich zone	82.00-82.15					
84			83.00-83.60 strong epi + chl + sericite						
86									
88				@86.5 v. low angle epi in shear. @87.48 - changed to Ball-Mark core orientation -					



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
88		(GADR, cont'd)		@88.43 carb-qtz vn 5mm / $\alpha = 38^\circ, \beta = 295^\circ$					
90			89.72 - 91.59 zone of hem alt v. alt w/ v. rich epi; surr + chl also strong.	89.72					
92				@91.42 carb vns, 2-3-6mm v. alt (open-space filling w/ strong hem alt) 450CA (no orientation) @91.8-92.26 vn w/ py $\pm 30^\circ(2)$ 3mm-400CA 91.8-91.94 py $\pm 10^\circ$ in large patches w/ epi; 4mm qtz-carb vn, 400CA					
94			Increased epi v. alt, relatively narrow unit, core slightly bleached, increased showing of GADR.						
96					06132	95 - 96.5	1.5	ppb 1.9	ppw 0.3
98				97.00 - 102.26 faulted, broken core - crosses lithologic boundaries - footwall brittle fracture zone of Rainbow Zone.	06133	96.5 - 98	1.5	7.1	0.3
100				98.8-99.0 e broken core, v. bleached, minor gouge	06134	98 - 99.5	1.5	8.7	2.4
102					06135	99.5 - 100.5	1.0	1.5	0.7
104					06136	100.5 - 101.4	0.9	22.0	1
106	101.40 - 102.50	ANDS dyke - fac'd, contact w/ GADR faulted; mod carb stockwork			06137	101.4 - 102.5	1.1	101.3	5.8
108		102.40 - 102.60 Fault gouge - crosses into dk 3/4" HLBX, poss SK.		@102.25 brecciated ANDS, slightly v. alt due to washing of clay $\pm 10^\circ$ @102.75 clay gouge $\alpha 45^\circ CA, \beta = 175^\circ$ 6mm wide	06138	102.5 - 103.8	1.3	4400	181.9

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
103	102.50 - 103.80	QZ-SX-BX; fol 25°CA (8/60°)		20-30% SX, dom. aspy, py, gal, rare cp.					
104	103.80 - 106.17	ANDS (poss RHYL); strong carb stunk Veneils, appear foliated but also random	Rich seri ± chl; carb stunk	@103.77 QZ-SX v. 3cm/40°CA, w/ 7.5cm offset ± to CA 15-20% aspy, py, tr. gal Minor SX (py. n 1-2%)	06138	See previous page			
					06139	103.8 - 105	1.2	25.9	1.6
106	106.17 - 109.80	RHYL - v. bleached, silicified, highly fract'd a sheared, locally brecciated; numerous dk grey to black pressure solution vults of chl ± SX (poss gal + py)	fr. carb. -chl in pressure sol. vults. -B alt? -seri (strong) -poss clay alt.	UC - sheared Py clus in larger dikes, aspic w/ traces Chl ± SX vults show offsetting Wk foliation developed 45°CA @107.75 clay gouge seams $\alpha = 20^\circ \beta = 120^\circ$ @108.64 chl ± SX vults 20°CA (4), $\beta = 75^\circ$ w/ 4cm offset.	06140	105 - 106.17	1.17	33.8	1.8
					06141	106.17 - 107.4	1.23	56.1	3
109					06142	107.4 - 108.6	1.20	67.3	3.3
110	109.80 - 112.05	ANDS, dk green w/ carb stunk, sheared and wily foliated	110.25 - 110.73 strong shearing w/ bleaching of carb	@110.48, shear plane w/ SX vults/shear below $\alpha = 25^\circ \beta = 120^\circ$	06143	108.6 - 109.8	1.20	43.1	7.2
					06144	109.8 - 110.25	0.45	302	5.4
					06145	110.25 - 110.73	0.48	69.1	11.5
112	112.05 - 112.85	Large RHYL dyke, massive, sp. rich w/ stylolitic chl ± SX vults. minor diss py.			06146	110.73 - 112.05	1.32	38.1	5.1
	112.85 - 113.67	RHYL BX, millec fragments.			06147	112.05 - 112.85	0.8	44.6	10.5
114	113.67 - 130.15	GRD, strongly sheared.	Strong seri, chl, rare to no epi. matrix completely chloritized, sheared, no obvious x-bls.	UC $\alpha 40^\circ \text{CA}$ $\beta = 240^\circ$ 113.38 - 113.67 strong bx w/ (40% dike) matrix; a RHYL + QZ vults Args	06148	112.85 - 113.38	0.53	214.3	13.0
					06149	113.38 - 113.67	0.29	1700.0	31.9
					06150	113.67 - 115	1.33	63.7	5.4
116					06151	115 - 116.1	1.1	7	11.3
					06152	116.1 - 117.25	1.15	6.5	2.2
118				116.84 - 117.03 pyritic zone n SX	06153	117.25 - 117.40	0.15	2700.	229.2
				@117.31 QZ-SX v. aspy needles, py, gal 6cm/50°CA; 30% SX, large patchy py + gal tr.	06154	117.40 - 118.40	1.0	89.5	6.3



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
118		(GRDR, sheared, cont'd)			06154	See previous page			
					06155	118.4 - 119.4	1.0	9.8	5.0
120		120.22-120.45 ANDS dyke.			06156	119.4 - 120.65	1.25	21.0	2.1
				120.65-121.12 SX zone in GRDR surrounding OZ-SX VN @ 120.87. Venn is offset multiple times; 12cm wide, no orientation available, aspy needles, py, sp and fr-grained gal.	06157	120.65 - 121.12	0.47	1000.0	50.5
				@ 121.77 qz vn w/ 50% py. 5mm / α 32°, B 262°	06158	121.12 - 121.69	0.57	108.7	4.2
122				@ 122.25 qz-py-sp vn, minor asp, 4mm / α 50°, B 262° local patchy red-brown sp in wall rock	06159	121.69 - 122.33	0.64	46.6	6.4
				@ 122.80 fault - gouge.	06160	122.33 - 123.83	1.5	20.3	5.1
124				123.83-125.33 Strong brittle. fault w/ gouge @ UC and @ 124.50	06161	123.83 - 124.5	0.67	329.0	55.7
				@ 125.66 SX VN, massive py + sp + aspy (~ 80%), minor qz. w/ py in wallrock (125.52- 125.77); 2cm / 35° CA	06162	124.5 - 125.58	1.08	34.0	22.0
126					06163	125.58 - 125.77	0.19	1320.0	109.5
					06164	125.77 - 127.10	1.33	16.8	12.6
128				@ 128.17 poss vn; diffuse, py + cp. occurs with faulted GRDR from 127.67-128.53	06165	127.10 - 128.62	1.52	16.7	9.7
130	130.15	END OF HOLE			06166	128.62 - 130.15	1.53	6.4	4.9



SC 02-10

Project name: SKUKUM Total Depth (m): 183.12m Contractor: BOISVENUE Hole survey type: MULTISHOT Depth: Dip: Azimuth:
 Project #: CPS6B Grid: PA-NBOW Northing: 66711436.016 Started: 07/31/02
 D.D. Hole #: SC02-10 Dip: -61.2 Easting: 447872.197 Completed: 08/04/02
 Azimuth: 141 Collar Elev.: 1230.22 Logged by: TV
 Core size: NQ2 Date logged: 8/2/02 - 8/5/02

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
0	0 - 1.57	NO CORE							
2	1.57 - 2.66	GRDZ; cgs-grained hbl-granodiorite	mod strong epi, seri, & chl						
4	2.66 - 3.03	FLDK (glass APLT or LHYL)							
6	3.03 - 15.10	PLONZ/DIOL, fs phenos (?) xstls. up to 3mm, typically 1-2mm	mod-strong seri; wk-mod chl; localized epi alt.						
8				@ 8.55 py patch w/ epi					
10									
12									
13									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
13									
14		13.87-13.98 wedge of G20R		13.87-13.98					
15	15.10 - 96.42	GRDR, typical footwall hbl granodiorite crs grained, light (10% black) grey	- chloritization of amphiboles - mod strong seri	UC sheared ~ 16°C					
16		15.6-15.75 wedge of H032	- localized epi in long stringers veins, or associated w/ shears.						
17		17.64-19.92 FLDK 1 or silica rich intruder phase (poss fs??); white to v. lt grey, highly fractured; wedge of G20R incorporated	probable chl/epi in fracs w/ carb.	UC of FLDK ~ 50°C					
18				19.05-19.92 Faulted, broken sec. LC of FLDK ~ 65°C					
19									
20									
21									
22				22.2-27.6 Fault, some gouge (no clay)					
23			Core gains slight pinkish cast due to hematite, poss w/ potassic alt of f.e. hbl less chloritized	23.15-23.40 Shear down (CA, w/ chl + epi					
24			@ 23.87 wch. epi w/ shtr., 3.5cm/40cm						
25									
26				26.34-26.60 shear?, rich chl-epi, generally parallel to CA.					
27									
28									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
28		(GRDR, cont'd)							
30									
32		[32.61-32.62 ground core]		GRDR joints/breaks @ 30-40°C					
34				@34.10 broken core, pass minor fault.					
36				35					
38				35.90-36.35 1-1.5m epi VA down CA, similar occurrences @ 38.75 and 41.90.					
40									
42									
44									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
43		(GRDR, cont'd)							
44									
46			Chl-epi-seri shearing increasing at depth, host GRDR still relatively competent, no Biotite developed.	@46.27 carb-clay slip plane. 55°C					
48			GRDR rel. fresh, primary hbl ~ 30-50% non chloritised						
50		49.30-49.45 MONZ phase in GRDR		48.45-48.60 epl vn, X-cut by later chl + carb veins					
52				@50.77 cb vn, 5mm, 45°C					
54									
56		56.15-57.68 med grained GRDR		52.80-53.05 fault gouge. ~55°C					
58				@57.45 4cm / 58-70°C APLT dyke. w/ multiple offsets					



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
58		(GROR, cont'd)							
60				59.25-59.50 Fault gouge. n 50°C n 7cm gouge not broken by GROR.					
				@ 59.70, small gouge fault. 52-70°C					
62		61.88-64.22. 9 occurrences of APLT dykes, some isolated patches of offset dyke, total amount may reflect only 2 or 3 actual dykes; 2-5cm, 30-55°C		@ 61.85 apparent calc fixation seaward in chl frags w/in GROR. 50°C					
64									
66									
68				@ 67.30 fs (adularia?) - cb. unit, 2-7mm width, one vug; 50°C					
70									
72									
74									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
73		73.52 - 75.59 (approx) darker (GS 2-3) ChRD, assoc w/ faulted rock.							
74			GRD in chloritization of hbl.	74.25 - 77.50 Faulted ore zone core					
		[Mismatch @ 75.29]							
76									
78									
80									
82									
84									
86									
88		[87.48 - 90.52 Mismatch, reground core]							



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
88		(BACR, cont'd)							
90				@ 89.98 epi: vn 4mm/32°C					
92									
94									
96	96.42 - 98.34	ANDS dyke; (GS 6-7) dk green-grey, massive, fin. grained, w/ wk cb streaks.	Strong seri ± chl. Mod cb.	@ 95.58 py + horn (?) vn, 60% py + dk microx mass. 1cm/40°C UC 40°C; cb-gr vn @ contact					
98	98.34 - 133.10	GRD: typical footwall granodiorite, as described previous	Strong seri, chl localized epi wk-mid cb; cb tends to concentrate along fracs.	LC 45°C					
100									
102				108.76 - 101.47 fault zone, frac'd broken core, minor gouge, horn alt @ lower boundary.					
104									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
103		(4.102, cont'd)	@103.42 cb-clay frac-fill or slip plane 40°C						
104									
106				@106.16 long epi va cutting parallel to CA, ~ 3m - 10mm wide					
108				@107.25 epi va 1cm/35-40°C					
110									
112		110.72-111.14 Pink, med-grained felsic rock - pass GRNT, <5% mafic, K-spar stained - 60-70% K-spar, 25% qtz; GRNT/Qtz or APLT?		HC irreg, but sharp LC ~ 40°C w/ cb-qtz (fs) va, mod bc @ lower contact					
114		@ 112.42 - same out up							
116		113.55-114.22 - similar unit as @ 110.72-111.14 less obvious contacts, appear gradational or possibly sheared							
118		116.72-117.32 APLT?							



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
118		(GEDR cont'd)							
120				119.24-120.20 fault zone, highly fractured, some gouge (no clay)					
				@ 120.68 massive chert 3% va. 1cm/35°C	06213	119.6-120.6	1.00	152.7	1.2
		GRDR takes on a slight pinkish cast w/ depth, core lightly pitted (cb-removal?)	Strong chl-seri - alt continues down hole; no primary mafics	~2% assay, as HSS patches & some acicular veins.	06214	120.6-120.75	0.15	1.7	2.4
122					06215	120.75-121.75	1.00	3.3	20.3
124				123.91-124.05 ground core, post fault					
126		@ 124.80 K-spar stain indicates a 25% K-spar.							
128									
130	133.10-133.43	25.41 → increasingly showed GRDR w/ abundant pressure solution chert veins, core becomes finer grained and distinctly pinkish, locally appears b'd or stringy fractured (@ 130.45) K-spar content increases to ~50% by 133.20m. Lth. change to GRAT.	126.30-128.41 locally strong hem. exp. alt associated fault Pressure sol'n veins, locally v. strong and pervasive; dominantly consist of chl ± hem.	126.30-128.41 Fracture zone, locally appear b'd					
132									
134									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
135		@ 133.10 Kspur stain indicates ~ 50% content (Pink colour of rock due to Kspur f)		@ 133.10 clay seam, white, no cb, ~ 5mm / 40°C					
136				136.2 - 136.6 broken core 136.65 - 136.85 clay seam, followed by v. rich hem. alteration in qtz va(?) or v. silica rich zone; rare cb, except in fracs.					
137			@ 137.65 strong hem + epi alt	@ 138.30 Fluorite vein 2, deep purple colour, appears cryptocrystalline (chal- cedonic) 4mm / 35°C					
140		@ 140.25 K-spar stain indicates ~ 10% content.		@ 140.25 local concentration of chl. hem free-qtz, 1'					
141				141.27 - 142.15 fault zone					
142		[@ 142.34 change to Ball-Mark, stained through core]		144.18 - 145.67 faulted core, v. broken rock, some grey (no clay)					
143									
144									
145									
146									
147									
148									

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
150		(GRNT, cont'd)		@148.34 cb "angel wing" walls on face sec.					
152	150.64 - 161.40	Highly fract GRNT; locally almost brecciated;	None green seri; chl assoc w/ intensely sheared GRNT		06216	150 - 151.48	1.48	3.3	0.4
154	152.65 - 153.62	ANDS dyke; dark green-grey (GS 6-7)			06217	151.48 - 152.65	1.17	3.6	20.3
156	154.53 - 156.71	ANDS dyke; dark green-grey (GS 6-7); massive, homogeneous & competent; w/ cb stunk/diaphanous vats		@153.45 qz-sx va assoc w/ fault; va ~ 15cm/ - 50°CA w/ py + qz (15-20%) → α, β = 160°	06218 06219 06220 06221	152.65 - 153.02 153.02 - 153.42 153.42 - 153.64 153.64 - 154.53	0.37 0.40 0.22 0.89	0.7 2.1 209.5 5.3	20.3 20.3 13 1.1
158	156.71 - 161.40	GRNT to GRDR; highly sheared to locally brecciated, but still competent.	Silica seri; chl, minor argillie	@155.43 cb vail, 4mm/50°CA (w) β = 250° foliation α = 35°-45° β = 160°-170° UC w/ ANDS ~ 35°CA (w) w/ cb-clay slip plane/ (thin gouge layer) → β = 296°	06222 06223 06224	154.53 - 155.6 155.6 - 156.71 156.71 - 157.70	1.07 1.11 0.99	20.2 20.2 20.2	20.3 20.3 20.3
160	159.32 - 159.76	brecciated GRNT/GRDR; dark matrix (GS 7)			06225 06226 06227	157.70 - 158.70 158.70 - 159.32 159.32 - 159.76	1.00 0.62 0.44	20.2 20.2 20.2	20.3 20.3 20.3
162	161.40 - 162.59	Qz-SX BX - fracture filled qz w/ matrix of sx to 50-60% , occasionally higher, some minor incorporated RML or GRNT fragments. Alumin w/ly changed for 400 β = 110° (11)		@160.55 ~ 10cm fault gouge zone (little to no clay), v. highly fractured and broken UC ~ 40°CA w/ minor clay-cb slip plane. → (w); β = 370° SX of dominantly py, aspy, sp w/ possible qz, cp @ 162.0 qz-sx va; α = 40° UC - offset w/ RML. → β = 164°	06228 06229 06230	159.76 - 160.63 160.63 - 161.40 161.40 - 162.59	0.87 0.77 1.19	0.2 7.5 7200.4	20.3 1.0 250.1
164	162.59 - 166.03	RHML (see 010) (UC α = 25° β = 060°)			06231	162.59 - 163.68	1.09	56.1	4.0

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
163	162.59 - 166.03	RHYL, highly sheared, beige coloured w/ numerous pressure solution veins, generally consist of chl and ser; Note: Colour a stylolite with occurrence is very similar to previous GRS/GDR occurrence except little intrusive texture - may be "incipient" RHYL - highly altered, sheared GDR/GRST. @164.55 2-spr stain indicated 70-80% K-spar content - definite RHYL/GRST.	Y. strong seri Mod chl assoc w/ stylolitic units	Minor diss py cubes in RHYL Stylolites may also contain minor py + ga(?)	06231	See previous page			
164					06232	163.68 - 164.9	1.22	7.0	1.1
166	SCALE CHANGE (1.53) 166.03 - 166.77	QZ-SX-BX; v. dark bluish gray (QZ 7-8); w/ v. rich SK, dominantly aspy; py:sp w/ occurrence of tetr.	chl(?) no cb.	LC (RHYL) $\alpha = 34^\circ$ $\beta = 250^\circ$ @166.03 at or just below green-grey zone fractured/fractured, dominantly (QZ) VN (or other cb-type (not cb); waxy, subangular veins UC $\sim 30^\circ$ CA (α), $\beta = 330^\circ$	06233	164.9 - 166.03	1.13	24.5	13.7
167	166.77 - 167.29	SX RHYL; abund. SX units (stylolitic), w/ qz vns., py dominant SX		LC less distinct, grades into SX RHYL. @166.70 qz-vn w/ py + aspy ($\alpha = 42^\circ$ $\beta = 150^\circ$)	06234	166.03 - 166.77	0.74	17381.9	245.5
167	167.29 - 167.67	QZ-SX-VN - UC is dominantly qz w/ inc. SX lower down. UC 50° (α) $\beta = 030^\circ$		167.29-167.67 massive py, cp, aspy and tetr. - 50% rem. in d.	06235	166.77 - 167.29	0.52	1291.3	77.2
168	167.67 - 168.57	SX-BX-RHYL - highly sheared to brecciated RHYL w/ 15-20% SX; at dominantly py+aspy; some incorporated qz vining			06236	167.29 - 167.67	0.38	10708.0	231.1
168					06237	167.67 - 168.57	0.90	1056.1	184.5
169	168.57 - 169.02	RHYL, sheared, rare to no so veins, except near LC.		@168.66 sheared, detached qz-sr vn. $\alpha = 35^\circ$ CA $\beta = 012^\circ$	06238	168.57 - 169.02	0.45	539.0	15.4
170	169.02 - 171.36	ANDS dyke, med-dk green-gray, (GS 5) relatively homogeneous and competent, but sheared. foliation is $\sim 40^\circ$ CA (α), 342° (β)	Strong seri, mod chl. Mod cb, though assoc w/ fides & veins	Disseminated patchy SX (py) locally fractured along w/ chl/camb units $D_4 \sim 50^\circ$. UC $35-40^\circ$ (α), 050° (β) @169.77 qz-cb vn, discontinuous, postural along foliation @170.35 cb-qz vn w/ chl + py from 38CA (α) $\beta = 342^\circ$	06239	169.02 - 170.1	1.08	134.0	4.8
171	171.36 - 175.77	SX RHYL, highly sheared	minor cb veins near UC.	SX mostly py+aspy; also sp+cp. Py along fides @171.50 frayed, sheared qz vn w/ abund. SX (15% aspy) + py; $\alpha = 35^\circ$, $\beta = 174^\circ$	06240	170.1 - 171.36	1.26	1007.5	8.1
172					06241	171.36 - 171.75	0.39	538.5	74.2
173					06242	See next page			



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
172				172.00 - 173.90 less SX content (5-10%) shale along fractures and stylolitic @ 172.12 narrow 1cm SX-bed; same orientation as previous run.	06242	171.75 - 172.75	1.00	519.7	26.1
173				$\alpha = 25^\circ, \beta = 342^\circ$ @ 173.4 SX fold fabric truncated by shear. $\alpha = 50^\circ, \beta = 265^\circ$ @ 173.83 kink folded RHYL w/ pyrogn. 173.93 - 175.77 core SX content to 30%.	06243	172.75 - 173.93	1.18	925.9	17.6
174		173.93 - 175.77 brecciated SV RHYL; milled rounded RHYL fragments w/ SX + Ser; matrix (1/2 ch), no obvious foliation direction	@ 174.55 narrow anastomosing sub-mm veins of Ser? or argill. (clay)		06244	173.93 - 174.85	0.92	1899.5	39.3
175	SCALE CHANGE 1:100				06245	174.85 - 175.77	0.92	1740.6	69.0
176	175.77 - 181.16	GRDR, strongly sheared and altered	Strong Ser, approaching argill. alb.	UC $\alpha = 60^\circ, \beta = 134^\circ$	06246	175.77 - 177	1.23	143.0	13.0
177		@ 177.20 K-spar stain indicated a 50-60% K-spar content (GDR)			06247	177 - 179	1.00	217.9	3.7
178					06248	178 - 179	1.00	297.4	2.8
179					06249	179 - 180.14	1.14	350.6	4.7
180		180.14 - 181.16 Core frac'd, possibly by 1/2 of new contact w/ dyke below.	V. strong argill. alb. esp. @ LC where GRDR is all clay altered except for some qtz n fs.	Metasomatic alteration @ LC	06250	180.14 - 181.16	1.02	153.2	3.7
181		@ 180.39 piece of RHYL in GRDR, finger of RHYL intruding GRDR through cracks.			06251	181.16 - 182.28	1.12	5.3	0.3
182	181.16 - 183.18	RHYL dyke - late stage dyke intruding GRDR; flow banded near contact	Bleaching of RHYL near contact, decreases in depth, generally fresh.	UC 55°C (K)	06252	182.28 - 183.18	0.90	4.5	0.3
183	183.18	K-spar staining indicates a close to 100% K-spar content. END OF HOLE							



SC02-11

Project name: SKUKUM Total Depth (m): 143.86m Contractor: BOISVENU Hole survey type: MULTISHOT Depth: Dip: Azimuth:
 Project #: CP563 Grid: RAINBOW Northing: 6671397.02 Started: 8/7/02
 D.D. Hole #: SC02-11 Dip: -63 Easting: 477869.337 Completed: 8/9/02
 Azimuth: 146.1 Collar Elev.: 1222.37 Logged by: TV
 Core size: NQ2 Date logged: 8/8/02 - 8/12/02

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
0	0-0.76	NO CORE							
2	0.76-2.96	GRDL, cns-grained hornblende granodiorite 1.6-1.9 mm unit.							
4	2.96-12.89	MONZ; med grey (GS 5), fs phenos to 3mm typically 1-2mm	Mid-strong seri, chl localized ep. v. S.						
6		12.2-7.16 Dior? unit w/ MONZ, lt grey (GS 2), med. grained, equigranular texture.	Rel. wk alteration of seri, chl minor sp.						
8		@ 8.5b GRDL inclusion							
10									
12									
13	12.89-91.30	GRDL, cns. grained hbl granodiorite	Mid-strong seri + chl; med ep.	UC - 4% CA w/ chl/seri v. n, minor tem					



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
13		(GRD. run 6)		minor chss py below UC, patchy blebs.					
14		13.96-14.19 APLT? FLDC, glassy, pale pink UC 450, LC 40°C; highly fract'd, w/ bcs							
16									
18		GRD takes on v. lt grey (GS 1), appears rel. fresh, through still w/ highly chloritized mafic's, moderate sericite alb ²	mod chl. mod Seri	@1787 ep-chl-seri shear/ve 2cm w/ minor ch units, 35°C; minor assoc. chs.					
20				@1873 ep-chl shear/ve 3cm 28°C w/ py + brown sp.					
22				@2166 ep. va. 4mm/30°C					
24				22.7-23.1 Fract breccia core - fault?					
26									
28		@27.2 K-spar staining indicates ~40% K-spar content							



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
28		(GRDR, cont'd)							
30									
32			31.22 - Silicified, chlorid? GRDR, diffuse coars-grained texture @ 31.64 K-spar stain indicates 20% K-spar content, some green ground and some white grained like assoc. ch. sili, epi	32.20 - Acid zone, carb, mineral gauge on slip planes; gauge w/ clay.					
34		34.1 - 43.25 FAULT ZONE	carb-clay alteration assoc w/ fault zone, esp in gouge and along slip planes a fracs.	@ 34.25 chlorid - fluorite (?) in, pyrite, cryptocrystalline 4mm/40°C 34.30 - 43.45 FAULT ZONE, zone of strongly broken core, with gouge.					
36		@ 36.40 pink zones of fs(?)		@ 37.35 strong gang zone, Sem/40°C					
38									
40									
42			41.8 - 42.15 strong epi + km fracs Ad alteration						
44									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
43		(GADR ratio) @43.71 core becomes v. competent	Strong seri, ch mid epi vnlts., incr cb vnlts						
44									
46									
48				48.15 - cb vnlts, apparently v. 48.20					
50			50.7-51.20 v. strong chl, hm, ap Zone, shear?	51.20-51.60 highly fract core w/ open space filling cb vnlts, GADR bleached					
52				53.33 sheared, fract qz-sr vnlts, por 10% minor limonite/iron stain above.					
54									
56			55.65-56.05 strong epi assoc w/ vnlts.	55.55 qz-py vnlts 2mm-500µm, 10% py.					
58			56.25-56.55 v. strong, sheared cb vnlts w/ clay, seri.	57.10-57.45 breccia core - fault? 57.50-57.65 epi bx w/ entrained GADR, highly chl-seri altered. 48.00					



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
58									
59									
60									
61									
62									
63									
64									
65									
66									
67									
68									
69									
70									
71									
72									
73									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
73		(typical, redd)							
74									
76									
78									
80				27833 shear, 3mm / $\alpha = 40^\circ$ $\beta = 320^\circ$, Silicified below					
82		Increased shoring in G222 w/ proximity to mineralized shear zone.	80.65-81.60 chl, km, shear a fault? as per 27833	28226, op: in 1cm/50°C					
84			Ch walls increase frequency, orientation to 60° CA (60); $\beta = 340-000$		06255	82 - 83.5	1.5	0.7	40.3
86					06256	83.5 - 85	1.5	27.4	40.3
88				85.95 - 92.30. Fault zone, highly calc 88.60-89.00 main fracture. @ 88.75 clay gouge. Seam 1cm/70°C.	06257	85 - 85.95	0.95	3.8	40.3
					06258	85.95 - 87	1.05	1.1	40.3
					06259	87 - 88.5	1.5	19.0	40.3



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
88		(GRDL, and/o)			06259	See previous page.			
90					06260	88.5 - 90	1.5	1.8	20.3
92		91.4-92.1 ANDS dyke; pos highly sheared GRDL.			06261	90 - 91.4	1.4	1.6	0.3
94		92.25 pegmatite phase.			06262	91.4 - 92.1	0.7	3.3	20.3
96					06263	92.1 - 93.6	1.5	1.5	20.3
98			94.85 qtz zone; also narrow chalcocite vein. 1mm/50°(α) 3-240°		06264	93.6 - 95.1	1.5	2.0	20.3
100			95.76 - 95.85 silicified zone. 95.76 - 97.60 silicified, slightly bleached, fractured; also abundant sp along fracs, w/ bx A, minor cb-chalcocite veins.		06265	95.1 - 96.6	1.5	1.50	20.3
102			"INCIDENT RHYOLITE" (?)	97.60 - 99.52 Fault zone (?) , fract'd broken core, highly sheared (grit?) or RHYL.	06266	96.6 - 97.57	0.97	4.5	0.5
104				@ 98.25 open space filling carb va	06267	97.57 - 98.35	0.78	109.1	2.3
106				98.40-98.65 Cataclastic shear w/ SX.	06268	98.35 - 98.65	0.30	19428	27.1
108				~10cm wide, 20-30°CA; mostly py 5-10%, local galena.	06286	98.65 - 99.3	0.65	476.7	2.7
110				@ 99.30 Fault zone, local bx E w/ SX (py 25% to 5-10%).	06269	99.3 - 100.3	1.00	37189	31.5
112	99.30 - 102.37	98.65 - 99.30 RHYL (?) high frac density lt grey, relatively homogeneous RHYL or GRDL. Some larger, faint, diffuse qtz grains w/ a matrix indicate unit may be bleached, sericitized GRDL.			06270	100.3 - 101.62	1.32	20.0	0.3
114			@ 101.77 mass cb alt w/ shear/va	@ 100.77 qtz-sx. shear/va, highly disrupted dilatated; dm/35°CA, chertite shear; py 10%.	06271	101.62 - 102.37	0.75	25488	59.7
116	102.37 - 103.52	02-SX VA. 102.37-102.77 transition zone of bx E RHYL w/ 92-SX shears/VMS. before main va.		@ 102.00 qtz-sx VA 3cm/30-35°CA, internally fract w/ sx infill of py, sp, qtz, w/ r Contacts highly sheared - argillite alt's	06272	102.37 - 102.77	0.40	23415.6	144.3



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
103		Locally massive ss in qz; sp, gn, py, cp, ferr, stib, appears foliated/sheared, a fairly low angle to CA.	Wk cb alt. major calc. va.	@102.42 qz-ss shear/va. $\alpha=25^\circ, \beta=170^\circ$ @102.62 qz-ss va. - shear/va. $\alpha=40^\circ, \beta=170^\circ$ sheared @103.17 offset in va. $\alpha=54^\circ, \beta=162^\circ$ below 103.17 fol. $\alpha=30-40^\circ, \beta=160^\circ$	06273	102.77 - 103.52	0.75	29704.0	233.2
104	103.52 - 104.03	ss = apy, py, sp, stib, ferr, cp. 30-50% locally massive.			06274	103.52 - 104.03	0.51	944.0	6.5
	104.03 - 110.85	Strongly sheared & altered. <u>GRDR</u> . RHYL, v. bleached; abundant K-spar content (90%+); strongly sheared and internally fractured (still competent, sulfid core); bleached and locally glassy. @106.75 K-spar, stann indicates 30-90% K-spar content.	Completely sericitized; wk ep. Minor cb along hauline fractures	Numerous hauline pressure sulf (shylilites) and frac-controlled ss mineralization. Also rare qz-ss va(?) fragments. Grt + py most common ss, post aspy, chlor seric common in shylilites.	06275	104.03 - 105.5	1.47	253.6	11
106					06276	105.5 - 107	1.5	11.2	1.8
108					06277	107 - 108.5	1.5	64.0	3.0
					06278	108.5 - 110	1.5	162.0	4.5
110	110.85 - 111.37	BRECCIA, shear contact (at uc); matrix is red grey, qz matrix (no K-spar). @111.12 wedge of bx to RHYL. BX RHYL; pale beige to white, heavily altered (as @ 104.03 - 110.85)	Silicification, epi along fractures. Strong argill. alt. @ and near uc.	uc, shear $\alpha=30^\circ, \beta=176^\circ$ Rare fine grained diss. py < 1%, qz + RHYL frags.	06279	110 - 110.85	0.85	246.0	8.9
112	111.37 - 113.29				06280	110.85 - 111.37	0.52	316.0	11.5
					06281	111.37 - 112.2	0.83	29.0	8.1
	113.29 - 113.97	HLBX; red grey qz matrix w/ RHYL + 02 va frags.		local diss py & gn uc strong shear. $\alpha=25^\circ, \beta=180^\circ$ LC is not well defined.	06282	112.2 - 113.29	1.09	76.0	7.6
114	113.97 - 119.62	RHYL BX; shear/foliation direction normal to hole direction ($\beta=180^\circ$)			06283	113.29 - 113.97	0.68	1566.5	61.9
					06284	113.97 - 115.21	1.24	228.7	10.6
116			cb alt. along fractures and open space filling veins 11 to qz-ss va.	115.21 - 116.43 frac'ed, sheared qz-ss va. along core axis: blue-grey qz w/ py & gn aspy. to 5% (locally 10%) 116.47 - 117.54 strong bx (rotated RHYL frags in red brown matrix, local ss) @117.4 qz-ss va fragment in RHYL BX.	06285	115.21 - 116.43	1.22	5427.7	86.7
					06287	116.43 - 117.45	1.02	342.6	8.4
118	117.45 - 119.62	RHYL sheared.			06288	117.45 - 118.38	0.93	149.6	11.6

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
128		(Source: SX (DZ) RHYL cont'd)			06288	See previous page.			
126	119.62 - 120.82	EX RHYL + DZ SX VN/BX, same host lithology as pale beige RHYL w/ intense stochastoc/SX of pz-sx vns.			06289	119.38 - 119.62	1.24	121.6	6
124	120.82 - 128.42	RHYL, sheared, w/ intense stockwork SX vnlts, probably pressure solution; generally irregular vnlts w/ silicating.	Probably completely sericitized, all K-spar.	Orientation of vns are normal to CA. ($\beta = 180^\circ$); $\alpha = 25-40^\circ$ typical. SX of py, aspy (acite needles), telr, shib, gn rare sp. sp. SX in vnlts typically pz, gn, aspy, poss telr or shib. @121.30 pz-sx vn, w/ massive qz w/ SX @ centre of vn: 4mm / $\alpha = 65^\circ$, $\beta = 140^\circ$ @121.68 qz vn w/ minor bx 2mm / $\alpha = 60^\circ$, $\beta = 132^\circ$ @127.75 qz-sx vn. 3mm / $\alpha = 35^\circ$, $\beta = 134^\circ$	06290	119.62 - 120.82	1.2	7970.9	221.6
122					06291	120.82 - 122	1.18	1709.0	35.5
120					06292	122 - 123.2	1.2	813.9	58.5
118					06293	123.2 - 124.44	1.24	170.0	17.9
116		123.95 - SX vnlts + fric fills decreases in intensity		123.63 - 123.95 RHYL BX w/ qz + SX (py + aspy; no orientation visible, appears to be low angle to CA w/ silicating). @124.55 qz vn, v. low angle to CA ($\alpha = 5^\circ$) often several times	06294	124.44 - 125.58	1.14	275.3	18.7
114					06295	125.58 - 126.95	1.37	183.6	4.9
112				126.22 - 126.95 low angle bx zone w/ qz-sx vn frags, along w. RHYL frags. @126.75. Folded/bent SX vnlts, intensely deformed	06296	126.95 - 127.8	0.85	19.0	3.3
110					06297	127.8 - 128.42	0.62	499.7	24.9
108	128.42 - 131.30	SX-BX-RHYL w/ local frags of blue grey DZ-SX-VN, highly deformed	Absent strong seric alt. Poss cat, but not distinctive - may be argillaceous alteration. Wk cb. alt, most common of fric stcr.	Pz is dominant SX, up to 10%. Numerous narrow vnlts, along fracs and some pressure solution chls. UC is normal to drill direction ($\beta = 180^\circ$) $\alpha = 15-25^\circ$ @129.61 qz-sx vn fragment @129.84 cb - open space filling, with vng	06298	128.42 - 129.95	1.53	1977.9	24.6
106					06299	129.95 - 131.3	1.35	749.4	11.8
104	131.30 - 135.68	RHYL, sheared, w/ SX vnlts. (as @ 120.82 - 128.42)		LC $\alpha = 35^\circ$, $\beta = 180^\circ$	06300	131.3 - 132.86	1.56	249.4	13.4
102		132.86 - 133.75 more intense qz vng w/ SX		@132.10 w/ qz-py-aspy vn Sun/w/ SX $\beta = 60^\circ$					



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
133		(RML, sheared, cont'd)							
134				01850 series of qz-sr veins. 2-4cm/vein $\alpha=50^\circ$ 01370 ss vein 2mm/vein $\alpha=20^\circ \beta=180^\circ \gamma=320^\circ$ 01345 qz-vein, microcline (no deformation) $\alpha=55^\circ \beta=2180^\circ$	06301	132.86 - 133.75	0.89	3443.7	18.1
					06302	133.75 - 134.72	0.97	351.5	8.7
135	135.68 - 143.86	GRDR, sheared and altered. 135.68 - 136.92 Strongly sheared GRDR w/ rel. abundant qz + ss (predominantly py) to 5% - 10%. qz grains distinctive white to light bluish-grey.	Strong chl + seric alt in upper reaches of unit, Strong py from 135.68 - 136.92 136.92 - 140, strong seric (green) probable argill. alter. (mod - mod) GRDR is distinctive green; wt $\rightarrow$ mod. epi alt. Minor cb veins.	0135.20 sheared by; $\alpha=40^\circ$, no β . 2cm wide w/ qz frags, rare ss. ULC of GRDR w/ strong shear, ground to clay + cb, minor open space $\alpha=30^\circ \beta=170^\circ$ (essentially normal to drill direction; contact zone ~ 4cm wide	06303	134.72 - 135.68	0.96	214.0	10.8
					06304	135.68 - 136.92	1.24	916.2	73.5
					06305	136.92 - 138	1.08	32	5.6
					06306	138 - 139.5	1.5	20	1.3
140					06307	139.5 - 141	1.5	81	1.3
142					06308	141 - 142.5	1.5	74.5	2.6
144	143.86	END OF HOLE			06309	142.5 - 143.86	1.36	21.9	0.7
146									
148									



SC02-R

Project name: SKUKUM Total Depth (m): 213.97 Contractor: BOISVENUE Hole survey type: MULTISHOT Depth: _____ Dip: _____ Azimuth: _____
 Project #: CPSBB Grid: RAINBOW Northing: 6671396.985 Started: 8/9/02
 D.D. Hole #: SC02-12 Dip: -72.4 Easting: 477869.166 Completed: 8/12/02
 Azimuth: 138.1 Collar Elev.: 1222.36 Logged by: TV
 Core size: NQ2 Date logged: 8/13/02 - 8/14/02

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
0	0.0 - 1.44	GRDR, crs-grained hbl granodiorite							
2	1.44 - 10.41	MONZ; med to crs grained; med grey (GS 3) w/ 15-20% fs (white) phenocrysts (?) K-spar stain indicates ~ 30-40% K-spar in matrix. Fs laths/phenos are sp ± plagioclase fs.	Spotty ep alt of fs. Med strong ser; alt Localized areas where fs is pale to salmon pink in colour.	LC 60°C, sheared (5mm wide) w/ chl.					
4									
6									
8	6.93 - 8.53	DIOR (?); med grained, no fs laths/phenos phase w/ monz unit. K-spar stain indicates ~ 40% K-spar.	Pale greenish colour due to ser + chl.						
10	9.90 - 10.41	FLDK, pale pink, glassy, highly fract'd but v. hard & competent; some pink fs laths/phenos; poss silicified Rhy/L/PEGM (?)	K-spar stain indicates ~ 95% K-spar w/ minor qz or plag.	UC is somewhat transitional from MONZ to FLDK.					
12	10.41 - 170.58	GRDR, crs-grained, hbl granodiorite (GS 1-2) light grey w/ 15% mafics.	Strongly chloritized mafics (all hbl). Strong ser. Ep. alt of fs. WK eb.	LC is br'd, 3cm wide / 60°C. V. wk fold developed in mafics; appears ~ 60°C.					
13									



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
13		(GADR, cont'd)							
14									
16									
18			17.75 → increased op alt ^e , typically occurring in vns and large irregular patches; generally assoc. w/ fracs with GADR, and localized w/ clng vnlts; py may also be associated.						
20									
22									
24				23.38-23.71 prominent epi vns w/ chl + 5-10% patchy py; oriented v. low angle to CA					
26									
28			27.46-27.8 rel. abund chl + seric + epi + py, 10-15% CA						



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
28		(GRDR cont'd)	(strong seri, cal, cal'd)						
30				@29.86 narrow low angle shear(?) or chl-epi seam w/ py; ~10°C.A, 1cm wide					
32									
34		GRDR in fault zones is lightly pitted, probably due to removal of cb and clay	33.00 → decr. in ep vults + alt patches; still some assoc w/ fs alt wt → mod cb assoc w fault zone (generally along fractures)	34.14 - 35.78 Fault zone; broken core, gauge, asp @ LC; ~35°C.A. @35.88 clay-seri seam. 1cm/35°C.A					
36									
38									
40									
42			wt-mod cb in fault zone	40.89 - 43.43 Fault zone, v. broken core w/ some intermediary zones of competent g core; gauge @ LC, 41.3, 41.6, 41.96					
43									



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
43		(GRDZ, cont'd)	(Strong, Sericite, cont'd)						
44		Freebess: is GRDZ commonly rock'd w/ fine clay and cb		@44.30 narrow ginge/slip plane.					
46			46.30-46.60 locally abundant epi,	@45.02 w/ qz va w/ patch cb in va, 3mm/28°C					
48				@46.60 w/ qz va w/ cb; 3mm/30°C					
50			@49.84 epi velt; 5mm-8mm/40°C	@48.11 slip plane ~65°C					
52				@49.54 clay slip plane 40°C					
54									
56		54.87-55.17 Felsic phase, poss PELT or APLT dyke material; highly fractured w/ irregular contacts due to numerous offsets.	@52.50 epi velt.	56.75 - appearance of regular occurring cb velt, generally in same orientation w/ minor offsets; velt 1-3mm/30-50°C occurring at GRDZ frac planes.					
58									

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
58		(GRDR, cont'd)	58.15-59.13 zone of mod. strong argillite att; core pitted due to clay penetration, locally strong ep, chl brownish LC w/ irreg len cb va, 30-40°C w/ offshooting fine fill cb.						
60									
62			61.98-63.03 strong epi, mod silici- fication.	61.86-61.93 gouge, ~70°C, calc cb+clay					
64		63.03 GRDR, lighter, cgs. grained, less chl							
66			64.81-65.03 chl-rich zone	@65.64 dk chl+epi + minor patchy py. @65.73 gouge, slip plane 60°C.					
68				@67.23 large epi in w/ narrow bands of dk green chl + cb-gr; 4cm/25°C					
70				@68.71 gr-cb va w/ py + so (5v-15%) (sp dk reddish brown); 4mm/49°C, w/ offset					
72			70.5-70.8 dk chl zone w/ epi + py matrix & disc.	71.18 dk silt (cataclastic?), 2cm/60°C					
73				71.88-72.17 sheared GRDR, foliation ~60° argillite att; minor chloritic gouge.					



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
73		(GDR, cont'd)							
74				@73.95 cb va w/ entrained wall rock frag. 5mm/35°C					
				@74.24 broken core w/ dk grey-purple sh chalcedony vein; 4mm/27°C					
76			74.89-75.51 chl-rich zone, also v. rich epi	@75.68 cb-qz vns; 2 vns separated by narrow chl. ser; 5mm/20°C					
			75.84-76.26 v. strong epi	@76.00 gangy dip plane, 65°C					
			77.19-77.69 v. strong epi						
78			78.14-79.40 v. strong epi						
80		GDR, competent core		@79.95 qz-cb va w/ 60% sp + py. chl ser; 4mm/25°C					
				@81.33 epi va, 1cm/45°C					
82				@82.16-82.35 strong epi, free offset va? w/ assoc. cb-qz vns, bleached GDR					
84									
				@85.07-85.31 shearing, kink folds(?), consist of chl-ser.					
86				@86.00-87.00 ~13 epi vns = free sils. 3mm-1cm wide/30-45°C, variable alteration					
88									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
88		(GRDR, cont'd)		88.05 Passes or Dark Xeno, u. chl altered as obs'd.					
90			90.85 loc. zone of dk chl + ep.	@ 90.37 cb. v. w/ minor qtz; 8mm/10°C					
92									
94			94.10 - GRDR, bleached. 94.95 - 95.20 strong ep. pink fs all						
96									
98				@ 98.67 ep. v. w/ chl. 3mm/25°C					
100			99.59 - 100.41, strong ep. zone w/ chl, pink fs.						
102									
102		102.55 → GRDR increasingly shelled and fissured - lots of ductile mattn, infiltrated by irregular ep. mts	102.55 alteration v. strong w/ typical serp + quartz; also strong staining horn						



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
103		(GfRDR, cont'd)							
104									
106		105.37 - 110.18 Faulted zone of GfRDR w/ Zones of chl-rich alt or poss ANDS frags; highly fractured w/ cb-qz vials, numerous zones of gouge along frac planes	105.37-110.18 hem alteration spotty but pervasive over interval; -uk > mod argillitic alt	@ 105.37 breccia, 3cm/35°C.A. @ 107.19 gouge, frac zone; ~15cm/40°C.A. @ 108.35 cb va, irregular 3mm/~20°C.A. @ 108.81 gouge zone. 109.82-110.18 ANDS dyke? or xeno. @ 110.18 LC of fault zone w/ cb-clay va, irregular ~20°C.A. @ 111.35 narrow shear, seri + chl + clay(?) 3cm/65°C.A; strong hem in lower fault track 112.68-112.65 sheared GfRDR, hem.					
108									
110									
112									
114			113.70 - increased op, frac & va concentrated; v. persistent.						
116									
118									
120									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
118		(GRDZ, cont'd)		118.23-118.48 shear zone; narrow ductile bands of seri + chl ± ep; @119.07 ep vas (2), each 1cm/26°C, assoc. hem.					
120									
122									
124		123.40-124.30 dk GRDZ, med grained w/ 2-3mm qtz ± fs laths, monz phase (?) abundant epi in wk foliation pattern ~25°C. 124.30-124.85 - crs-grained, pale pink GRDZ.	V. strong chl + seri + ep.						
126		124.85-126.00 dk chloritic zone of GRDZ w/ abund ep.; probable shear zone. (not monz phase, as above)	V. strong chl + seri + ep.	@125.90 cb vult, 2-8mm/40°C.					
128		126.80 → GRDZ texture obscured over much of the core length due to strong alteration + probable ductile deformation.	126.80 - strong epi; fs is pale to salmon pink.	@128.70 cb vult 2mm/30°C.					
130			129.42-129.70 strong ep + chl + seri w/ large patch of py (12mm)	@130.85 clay-hem slip plane. 25°C					
132									
134		132.25-133.72 ANIDS dyke, dk gray (GS 7-) homogeneous & fine grained	Predominantly chl + seri w/ patchy ep. alt; minor random orientation cb vults.	UC w/ cb-qz va w/ shearing/striks. 22°C, 1.5cm wide.					



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
133		(4/20/12, cont'd)	(Strong Ser + chl + epi, cont'd)						
134			133.72 → cb vults increase in density through not intense (1-5/m) 1-4mm, random orientation	@ 133.72 LC of ANDS dyke sharp 15°C					
135									
136									
137									
138									
139									
140			140.10 - 140.60 argillite alt w/ clay seams, strong ser + chl; cb. @ 140.65 hem.	140.10 - 140.60 shear zone. @ 140.27 completely disrupted, folded (?) 92-SK VN; massive wst ge w/ up to 20% fine-grained galena concentrated along VN margins; also minor py in wall rock; VN ~ 5mm wide (max) Terminated by Chalcedony-clay VN/seam 1cm/550°C					
141									
142			142.57 - 143.62 Strong alteration zone of Ser + chl + hem. Hem is localized but pervasive where present; cb-clay common in Arc HCS.	@ 143.62 gouge at LC of alt zone 40°C 143.62 - 143.78 py to 10%					
143									
144			144.70 - 145.17 strong sp. @ 144.80 cb-clay-hem fracs $\alpha = 20^\circ$ $\beta = 150^\circ$						
145									
146				@ 146.40 low angle frac. w/ cb. $\alpha = 20^\circ$ $\beta = 130^\circ$					
147				147.30 - 152.05 cb vults (up to 8/m) orientation, somewhat variable α (low angle to 45°) $\beta = 160 - 200^\circ$, typical.					
148									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
148		(GARD, cont'd)	(strong serit-chl ± ep ± py (propylite))						
150				@150.45 cb vults, 2-3mm w/ local py. incl. py vult ~ 60° CA; $\beta = 190^\circ$					
152			@151.22 ep + hem.						
154									
156			155.20-157.07 strong ep alt. of GARD.	@155.67 narrow qz-cb-py vult. 1mm/57° CA					
158				@157.37 cb vn, 5mm/35°(α); $\beta = 212^\circ$					
160				@159.85 chl-cb shear?, ~ 4cm/α = 23° β = 175°	06312	159 - 160.5	1.5	3.1	0.4
162					06313	160.5 - 162	1.5	15.5	0.6
163					06314	162 - 163.5	1.5	13.8	0.4



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
163		(GRDR, cont'd)	(strong propylitic, cont'd)		06314	See previous page			
164		164.72 - 166.09 GRDR v. hydrothermally altered argillite, pitted due to removal of clay, highly fractured, sheared & brecciated(?)	164.72-166.09 argillite	@164.92 series of qtz-cb-sr veins 3mm wide, offset, w/ 20% galena.	06315	163.5 - 164.72	1.22	4.4	<0.3
166		166.09 - 170.58 BL GRDR.	166.09-170.58 strong chl + seri	@166.30 diss py in GRDR @166.48 qtz-sr vein, 1.5cm/70PCA w/ 15% qtz, 5% py. @166.64 qtz-sr in fragment w/ 20% qtz + py.	06316	164.72 - 166.09	1.37	29.9	0.8
168				@168.07 qtz-sr vein, 4-5% sr of qtz, qtz, sp. 5mm / $\alpha = 70^\circ$, $\beta = 234^\circ$; also cb patches.	06317	166.09 - 167.5	1.41	56.4	1.7
170				@168.33 irregular qtz-gr veins w/ minor cb., ~1-2mm.	06318	167.5 - 169.0	1.5	43.0	1.4
172	170.58 - 180.04	RH4L, pale greenish-grey to H beige (GS 2) v. fine-grained; massive to competent; w/ alteration and/or flow banding	v. strong seri; argillite also possible minor chl.	170.72 - 170.37 narrow cb veins w/ py; $\alpha = 91^\circ$, $\beta = 234^\circ$ UC of RH4L w/ offset; $\alpha = ?$ @170.92 width of RH4L. @171.59 v. chalcocite?, amorphous, grey $\alpha = 54^\circ$, $\beta = 244^\circ$ @171.74 RH4L w/ finely diss py to 2%; also v. fine sr veins (<1mm)	06319	169.0 - 170.58	1.58	101.7	6.5
174		171.74 - 180.04 weakly brecciated RH4L.			06320	170.58 - 172	1.42	220.6	1.3
176				@175.10 cb-gr vein, 3mm / $\alpha = -30^\circ$, $\beta = 314^\circ$. v. dk sil. (?)	06321	172 - 173.5	1.5	365.7	1.2
					06322	173.5 - 175	1.5	502.9	1.3
					06323	175 - 176.5	1.5	415.5	1.4
					06324	176.5 - 178	1.5	44.0	0.8

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
179		(RHYL, cont'd)	(string seri - argill., cont'd)	178.59-179.29 zone of narrow ss veins w/ low pressure solution style, $\alpha=50^\circ\text{CA}$	06325	178 - 179.3	1.3	254.6	1.3
180	180.64 - 188.66	SX BX RHYL, brecciated RHYL w/ sulphuric flooding facies w/ highly acidic and chert qz-sv vhs.	179.82-180.04 RHYL more brecciated and silicified	179.29-179.40 qz-sv va, sheared; sv of py, gn, sp, aspy; vuggy ch vult above and below; sv content ~ 30%; va ~ 50% CA	06326	179.3 - 180.32	1.02	5315.1	161.5
181	SCALE CHANGE 1:50	180.04-181.96 v. dk ss matrix of py, gn, calc aspy + sp; ~ 50% sv w/ fragmented RHYL + sv & qz va	180.04-181.96 string seri	179.57-179.62 Gouge zone, immediately below qz-sv in RHYL.					
182		02-SX INS are typically white to blue-grey w/ interstitial sv of gn, aspy, py.	No ss in mineralized zone.	@180.04 shear contact w/ sv sv RHYL $\alpha=45^\circ\text{CA}$, $\beta=70^\circ$ - shear is similar orientation to many offsets that cut veins throughout the mineralized zone.	06327	180.32 - 181.82	1.5	13000.0	214.1
183		Where RHYL dominates over qz-sv va/18V, core is still shot through w/ hairline - 3mm sv vult, often stylolitic		@180.88 bx w/ py matrix 7.5cm/100-750 $\beta=290^\circ$					
184				@181.60 ~ 30% dist aspy, 5-10% ss in qz-sv sv					
185				@182.20 low angle? or v. true offsetted qz-sv va, 30-40% aspy, 10% py; $\alpha=50^\circ\text{CA}$. Orientation of the veins not determinable.	06328	181.82 - 183.16	1.34	11236.0	89.4
186				@183.25 abund dist sp in wht qz.					
187					06329	183.16 - 184.6	1.44	3343.5	84.6
188				184.75-185.40 string qz-sv bx					
189					06330	184.6 - 185.44	0.84	8783.8	163.6
190				@185.66 ss shear. $\alpha=35^\circ$ $\beta=250^\circ$					
191					06331	185.44 - 186.64	1.2	698.1	45.3
192					06332	see next page			

SCALE CHANGE 1:100



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag	5
180		(RHYL & SV + DZ SV vns & SV, cont'd)			06332	186.64 - 187.64	1.00	2871.2	82.4	
182				@ 188.10 offset plane; $\alpha = 75^\circ$ $\beta = 030^\circ$ @ 188.24 offset plane; $\alpha = 70^\circ$ $\beta = 070^\circ$	06333	187.64 - 188.66	1.02	5278.7	218.0	
184	188.66 - 191.34	HLBY to BX GEDR(?); v. low angle fault, starts @ 188.66 and continues to 189.53, during this interval, cont'd @ SV & RHYL; cont'd v. irregular.		SV of asps + py most common and associated w/ qz-vn frags. esp @ 189.92.	06334	188.66 - 189.9	1.24	2305.1	59.7	
186		Highly br'd w/ RHYL frags, dk matrix, blue-gray qz "eyes", api vnlts (5-6) and probable highly altered RHYL frags.		@ 190.38 py. LC of HLBY, uc of RHYL sheared $\alpha = 42^\circ$, $\beta = 280^\circ$	06335	189.9 - 191.34	1.44	1399.3	32.7	
188	191.34 - 204.05	RHYL, similar beige, massive homogeneous RHYL as before mineralized zone, w/ uc to mod sv pressure solution vnlts; more fractured	Strong Ser; mineralization (?) v. hard, glassy	@ 191.75 sv vnlts, py + gn.	06336	191.34 - 192.63	1.29	57.0	2.4	
190				192.50 - 195.42 Fault zone (brittle), v. broken core w/ minor gouge.	06337	192.63 - 194.16	1.53	21.0	1.6	
192					06338	194.16 - 195.68	1.52	105.5	8.3	
194				@ 195.85 vuggy cb (weathered out) vn $\alpha = 90^\circ$ $\beta = 258^\circ$	06339	195.68 - 197.2	1.52	69.8	3.7	
196				@ 197.60 several vuggy cb vns	06340	197.2 - 198.73	1.53	588.3	23.8	
198				199.40 - 198.85 faulted core						
200				@ 198.54 disrupted qz-sv vn, py + asps + gn	06341	198.73 - 200.25	1.52	2032.6	20.6	
				@ 199.65 multiple offset qz-sv vn, py, asps, gn						

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
200		(RHY: cont'd)			06341	See previous page			
					06342	200.25 - 201.78	1.53	147.0	3.2
202					06343	201.78 - 203.2	1.42	528.7	8.0
				203.20 - 203.50 qz-sv vn? indistinct but abundant py 20-30%; faint bluish-grey qz(?)	06344	203.2 - 205.5	0.30	616.8	43.2
204	204.05 - 206.25	Extremely altered GRR(?) ; appears more coarse grained than RHY above but v. same colour and still with stylolitic sv units locally. "Incipient RHY?"	Increased seri, chl alteration. V. altered, due to dyke below.	203.50 - 205.75 qz-sv vn, on + qz + sp + gpg highly disrupted & stylitic	06345	203.5 - 204.05	0.55	533.9	32.8
			204.97 - 205.07 patch of pale green ep.		06346	204.05 - 205.15	1.1	503.4	22.7
206	206.25 - 213.97	205.65 - 206.12 Bx GRR(?) RHYL/RHDC: fresh, relatively unaltered, late stage dyke enclosing GRR/RHYL of fault/shear zone. Contact shows flow-banding along the chilled margin (flow-bands $\alpha = 55^\circ$, $\beta = 234^\circ$) ~20440 appearance of pink feldspar(?) phenocrysts - typical of RHDC. @211.35 K-spr stain - 95% K-spr; pink fr phenos appear not to stain - plag. END OF HOLE	205.65 - 206.12 argillically altered zone (strong) at contact w/ RHYL/RHDC dyke below. From contact to ~ 211, bleached, below alternating unaltered, red-brown rock to bleached, sericite-altered material; alteration follows flow-band orientation.	@206.17 chalcedony at/near contact of dyke, b'n in GRR. Contact $\alpha = 55^\circ$, $\beta = 234^\circ$ (same as flow-bands) 207.23 - 208.87 muscovite-enriched GRR(?) (grey-green, argillically altered); w/ increasing depth alteration of feldspar to complete clay (kaol?). Flow banding more subtle, 30-35°C. $\beta = 210^\circ$ (approx.) @212.55 shear? along flow-band orientation	06347	205.15 - 206.25	1.1	199.2	6.4
208					06348	206.25 - 207.75	1.5	77	3.2
210					06349	207.75 - 209.25	1.5	7	20.3
212					06350	209.25 - 210.75	1.5	5.1	0.4
214	213.97								



SC02-13

Project name: SKUKUM Total Depth (m): 252.07 Contractor: POINTEAU Hole survey type: MULTISHOT Depth: Dip: Azimuth:
 Project #: CPS6B Grid: RAINBOW Northing: 6671295.765 Started: 8/13/02
 D.D. Hole #: SC02-13 Dip: -7.3 Easting: 477881.339 Completed: 8/1/02
 Azimuth: 007.2 Collar Elev.: 1223.11 Logged by: TV
 Core size: N02 Date logged: 8/15/02

Scale	From-To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
0	0 - 0.61	NO CORE							
	0.61 - 143.86	GRDRL, cts-grained hornblende gneiss; magnetic; med to dk green (G5-S) w/ qz grains to 5mm.	Had Seri Mod. strong chloritization on amphiboles. Wk cb; also cb vults	Rare py overall, with local concentrations up to 3% (over 10cm or less)					
2									
4									
6				@5.72 PyDS xenolith.					
8									
10			9.07-9.50 alteration zone. Strong Seri, little to no chl, wk epi, arg. mic?	@10.56 narrow shear/gouge plane 5mm/70°C/A					
12									
13									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
13		(GRDR, cont'd)							
14									
16		@16.84 narrow APL? dykelet, 5mm/50°CA homogenous beige.	14.4-15.7 diffuse GRDR texture, sil flooding; diss py locally to 2%, also incr. patchy epi	@15.35 narrow qz vein, 3mm/50°CA w/ calc sils; coarse diss py					
18				@16.96 narrow shear, gray, 60°CA.					
20		18.3-18.44 Light felsic phase of GRDR, "incipient Rhyt", does not fully cut through core, local cb along margins.		@18.25 ~5% py.					
22									
24				@23.35 cb-qz velt, 6mm/50°CA 23.45-26.35 fault zone?, broken core, clay, cb slip planes for joints; disrupted cb-qz velt and some pitting in the core.					
26									
28			26.9 → increased ep. to mod- strong alteration						



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
28		(GRDR, cont'd)	28.86-29.10 hem alteration, assoc. w/ fracs & cb veins	@28.3 and 28.35; hem-chl stringers ~50°C					
30				@31.30 magnetite in 3mm/20°C					
32				@21.64 epi+py shear/VN. 1.5cm/55°C					
34				@33.75 cb-qz fracs & sheared VN(?) w/ py+gn; open space; sheared over 3cm @ 15°C; qz to 10% -					
36				@35.54 narrow cb-K-spar(?) vein. w/ py+gn (1 cube); also a 5% py in immediate wall rock.; 3mm/38°C; off-set					
38									
40									
42			@41.44-41.60 hem alteration, (K-spar steamed @ 42.1; minor amt; pink alb is not K-spar.) Ep. decreases beyond 42.1 to no recognizable	@41.44-41.16 frac zone; v. broken @ 41.76-42.00					
44									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
43		(GDR, cont'd)	Continued strong ep, chl (relics) and seri; hem alt. on trace stcs, also minor cb.	@43.15 py+mg vlt; 5mm/35°CA, @44.10 low angle qz va, frac'd along upper contact; 6mm/15°CR. 4580-46.40 frac'd core - fault? @46.30 narrow qz vlt; 2mm/25°CR.					
44		45-45.25 APlT/PEGM ducte fragments? along edge of core (does not cut through) - dyke II to CB							
46									
48									
50									
52									
54			54.40-57.30 core w/ lost chl; pale pink/white; crs. ground w/ abundant (strong) pale green seri.	53.95-54.20 hem-cb va. 111°eg; low angle to CB.					
56									
58									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
58		(GMDR, cont'd)							
60		60.66-61.10 felsic phase of GMDR, diffuse but co-grained, pink.							
62									
64									
66			65 → Med-strong cb (permissive); as well as abundant narrow co units						
68				66.78-66.91 narrow chl shear w/ py					
70				@68.87 shear/fault w/ quartz, Sem/75% w/ chn along JC (acclitic)					
72			63.7-66.0 strong epi-sil (orpylitic)						
74				67.18 cb on above free zone					



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
73		(7202, cont 'o)	73.24-73.64 sporadic hem alt, localized in trace						
74			274.70 strong ep + seri alt over 8cm						
76			@76.44 hem alt; narrow sec alt, over 5cm. 76.50 → mod strong propylitic w/ strong seri (pale green)	@76.5 narrow cb-hem v alt, imm/30°C (hem v. red)					
78			279.20 sil. flooded w ep.						
80			@81.04 strong propylitic; immediately below is strong green seri alt	@80.32 cb v alt, sheared, 25°C, pinches out					
82		@81.80 narrow fault? dykelets 2-5mm w/ offset		83.36-84.43 fault zone w/ beryl, quartz is more prevalent at upper part of fault.					
84				@85.15 narrow comp v alt w/ minor ep imm/25°C 85.95-87.0 Fault zone, broken core.					
86			85.95-90.02 v strong propylitic; argillite (picked core from ring removal) Also v strong cb alt						
88									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
88		(GDR cont'd)	(mud-streak cb, ser. ep)						
90				@89.70 shear, chl-cb-seri 5mm/20°C.A. @90.02 sharp LC of alteration zone. 30°C.A 90.72-90.98 shear, chl-cb rich w/ minor chalcocite + 1cm patches of ep. @91.70 fac plane 15°C.A w/ slicks. + to plane orientation (cb-clay)					
92		GDR breccia more competent, more homogeneously altered.							
94									
96									
98				@97.85 shear, chl + cb, 1.5cm/22°C.A w/ diss py + sp(?) (rad. breccia).					
100				@98.20 diss py cubes 5% @99.50 narrow gn vein? @100.25 92-Sx vein 2cm/22°C.A w/ massive gn, py, sp. (30% total) @100.27 92-Sx vein - may be same as above, massive gangue sp. py, gn; offset?	06353 06354 06355	98.4-99.9 99.9-100.37 100.37-101.87	1.5 0.47 1.5	105.7 1581.6 2.9	2.9 1199.8 1.0
102					06356	101.87-103.57	1.5	95.0	2.3
104									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
103		(GRDR, cont'd)			06356	See previous page			
104					06357	103.37 - 104.24	0.87	17.0	35.9
				@104.75 qz-sk 11 2.5-3cm / $\alpha = 35^\circ$ CA $\beta = 106^\circ$	06358	104.24 - 104.84	0.60	2067.4	6.4
106					06359	104.84 - 106.34	1.5	9.0	3.1
		106.70 - 107.00 strong propylitic		@107.05 narrow shear, 2-3mm / 15° (a) $\beta = 266^\circ$					
108		107.00 - 107.75 pyritic PMS? Regional / xenite		@108.20 2cm cb-chl-py shear; $\alpha = 20^\circ$, $\beta = 70^\circ$					
110									
		110.04 - 110.54 strong propylitic; assoc. w/ disrupted qz-cb vein, 11 to CA		@111.15 qz-cb-py veins; py in wall rock $\alpha = 45^\circ$ $\beta = 074^\circ$					
112									
114									
		@115.06 PMS xenite							
116									
				@115.63 cb vein. $\alpha = 20^\circ$, $\beta = 210^\circ$					
118									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
118		(GADR, cont'd)		@118.05 cb unit $\alpha = 35^\circ, \beta = 20^\circ$					
				@119.00 cb unit $1\text{cm}/\alpha = 25^\circ, \beta = 250^\circ$					
120			@120.75 strong alteration @ low contact of 12.0/12.5 - argillite	@120.25 qz-cb-chl unit $\alpha = 75^\circ, \beta = 15^\circ$ quartz plane, ~2cm wide					
			120.30 - 123.50 strong semi alt w/ silicification and chl.	@120.88 qz-cb unit 4mm/irregular $\alpha = 15^\circ, \beta = 15^\circ$					
122			@121.88 cb-clay alt - strong	120.30 - 120.80 shearing					
			123.50 - 124.40 v. strong propylitic						
124									
126									
128				128.10 - 128.20 disrupted qz-cb unit $\alpha = 15^\circ, \beta = 15^\circ$ w/ qz + gn (~5%) w/ 5mm/70° ca					
				qz unit/shr.					
				@128.34 qz-cb shr. 5mm/35°, opposite orientation					
130		@129.40 Andes. xeno.		@129.50 cb-clay $\alpha = 70^\circ, \beta = 65^\circ$ ca					
132			@131.80 strong propylitic	@131.95 diss. py. assoc w/ fracs.					
134									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
133		(GRDR, cont'd)							
134		133.70 - 143.68 strongly sheared and altered GRDR.	133.70 - 143.68 argill. alt - broken core w/ locally sheared clay. Strong green seri alt. also cb vults of irreg orientation						
136				@136.45 low angle to CA qz-cb vult. 1-2mm / ~15° CA					
138			138.22 - 138.60 strong propylitic	138.22 - 138.60 S					
140				139.12 clay gouge seam + fragmented wall rock, 5mm/60° CA					
142					06360	141. - 142.39	1.39	16.9	7.3
144	143.86 - 157.14	ANDS dyke, indistinct contact, somewhat gradational from med. crs grained GRDR to pale, med gray (G15 4) ANDS type lithology. Abundant cb vults (shrink?)	Strong seri fclt alteration over interval. Strong cb alt.	cb-qz vults/shrink, v. irreg. orientation, show small effects, locally mineralized	06361	142.39 - 143.86	1.47	25.0	14.7
				@145.30 cb-qz vult w/ diss gn. (50%) 3mm/45° CA	06362	143.86 - 145.32	1.46	13.0	11.4
146				145.39 - 145.82 strong cb shrink w/ va @145.65 w/ py+gn+aspq. 1/4mm / $\alpha = 55^\circ, \beta = 0.72^\circ$	06363	145.32 - 146.8	1.48	167.0	2.2
148					06364	146.8 - 148.3	1.50	11.0	0.5



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
148		(ANDS, cont'd)		@148.40 cb-qz v. v. n. 2cm/150°C, rare allor. py					
150				@149.05 v. irreg. cb v. n. w/ sp (red-brown) + pg (n 10%) /cm/150°C	06365	148.3 - 149.81	1.51	3.9	2.8
151				Sphalerite, rel. common throughout ANDS unit, also w/ cb-qz units & fracs.					
152				@149.36 sp, also @149.70 a 150°C	06366	149.81 - 151.3	1.49	47.0	21.7
153				@150.39 py+sp+qa					
154				@150.77 vuggy, offset; qz cb v. n. w/ py+ gr+sp; w/ strong shadow/bk balance					
155				@ 7mm/300°C					
156				@151.80 vuggy, cb-replaced - cb-qz v. n. w/ allor. py; 1-1.5cm/α = 15-20°, β = 75°	06367	151.3 - 152.8	1.50	72.0	11.8
157				157.25-157.57 low angle qz-sx v. n. sheared, w/ py+gr+sp+asph, offset @ LC by clay/iron shear, α = 60°, β = 280°					
158				@153.14 wedge of qz-sx v. n. w/ gr+py+ asph, ~ 7mm/α = 120°, β = 042°, offset by fract shear @ α = 55°, β = 225°	06368	152.8 - 154.3	1.50	164.5	10.1
159				@153.35 qz-sx v. n., 8mm/α = 26°, β = 050°					
160				@155.33 thin slice of qz-sx v. n. along CA py+sp? + gr (50% py)	06369	154.3 - 155.8	1.50	147.6	5.3
161				156.70-157.20, low angle cb-qz v. n. w/ large patchy sp + lesser py+gr - 6-7.5% sx v. n. → cb-qz @ 157.15 4mm/300°C; v. n. offset by fract @ 157.03, 70°C	06370	155.8 - 157.14	1.34	62.6	8.0
162				158.00-158.10 dark patchy sp(?)	06371	157.14 - 158.6	1.46	15.0	6.4
163					06372	158.6 - 160.1	1.5	15.3	2.9
164					06373	160.1 - 161.35	1.25	225.1	6.2
165				@161.00 qz-sx v. n., sheared, assoc w/ homogeneous grade ANDS (frag?); 3-40% py+gr; ~ 5mm wide/α = 10°, β = 066° offset by shear α = 25°, β = 200°					
166				@161.85 shaded zone in shear, brown α = 20°, β = 210°, 1.5cm wide	06374	161.35 - 162.8	1.45	35.6	11.2

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
163		(GROD, sheared, con't'd)			06375	162.8 - 164.3	1.5	5.6	1.4
164					06376	164.3 - 165.9	1.6	115.5	3.0
166				@165.55 shear/gauge plane 65°CA 165.90 - 166.15 low angle to CA qz-sv w/ py + sp(?) dk brown to black, highly disrupted; minor gn. @166.42 gauge/bx 7mm/22°CA, yellowish-green clay, sheared to 166.70.	06377	165.9 - 166.72	0.82	119.4	15.0
168				@167.70 shear/gauge plane. $\alpha=22^\circ \beta=076^\circ$	06378	166.72 - 168.2	1.48	27.7	6.8
170					06379	168.2 - 169.7	1.5	55.8	0.8
172				@168.48 minor shear. $\alpha=48^\circ \beta=260^\circ$	06380	169.7 - 171.2	1.5	20.6	0.5
174				@171.60 ~ 5cm wide shear, clay gouge @55°CA, gouge ~ 1cm wide	06381	171.2 - 172.2	1.0	6.2	0.9
176				@173.22 shear - 8mm/ $\alpha=55^\circ \beta=230^\circ$ @173.78 cb vn, low angle to CA, ~ 4mm. $\alpha=09^\circ \beta=230^\circ$	06382	172.2 - 173.22	1.02	9.3	0.7
178					06383	173.22 - 174.25	1.03	34.8	1.1
	175.19 - 182.19	RH4L, v. pale beige to off white (945-1) completely bleached, w/ rare dk gray/black chi vater (stylolites); Ore is not very hard due to strong alteration to ser + clay.	Strong seri, argillie alt. Vuggy along vns, fracs a shear planes due to clay removal. No. cb.	UC is sharp, grades in colour from green sheared GROD to light beige RH4L. $\alpha=26^\circ \beta=072^\circ$ (random) @177. relict, vuggy cb-qz vn (no qz) w/ probable narrow. show/DV, parallel, dk chl(?) stekensides on face. vn= $\alpha=13^\circ \beta=108^\circ$ sticks, $\alpha=3^\circ$	06384	174.25 - 175.19	0.94	4.1	0.3
					06387	175.19 - 176.7	1.51	6.9	1.0
					06388	176.7 - 178.2	1.50	24.8	1.2

178.48 - 178.82.

py 20m.

60° to ref line

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
188				184.48-188.82 pyritic zone (~10%) v. lts.					
				@ 179.83 offset qz v. w/ chl/seri inclusions + rare py.	06389	178.2 - 179.7	1.5	101.4	9.5
180				180.80 - 181.45 narrow pressure solution dx tails w/ py + aspy + gn.	06390	179.7 - 181	1.3	83.1	7.2
					06391	181 - 182.19	1.19	47.9	5.2
182		182.19-182.53 Monolithic RHYL BX w/ med grey matrix (GS-4); RHYL frags up to 1cm, generally ~ 5mm	Strong epi-seri	3m. u.c. $\alpha = 38^\circ, \beta = 200^\circ$ LC: gneiss, $\alpha = 40^\circ, \beta = 210^\circ$	06392	182.19 - 182.53	0.34	75.7	2.4
	182.87 - 184.57	BX RHYL w/ qz-sx BX @ LC		182.87-183.02 qz-sx-BX = 270 SX, py + gn + aspy; u.c. $\alpha = 45^\circ, \beta = 5-5^\circ$ LC: $\alpha = 44^\circ, \beta = 320^\circ$	06393	182.53 - 182.87	0.34	273.1	17.6
				183.02-184.57 10-15% py	06394	182.87 - 183.02	0.15	5000.4	297.2
184		183.57-184.33 RHYL in contact w/ qz-sx w/ or material along core axis; py v. lts in fine-grained RHYL; irreg. contact, may be large frag of RHYL in BX.			06395	183.02 - 184.57	1.55	326.2	10.9
	184.57 - 191.67	HLBX, med grey clay (?) matrix (GS-4) w/ dominantly RHYL frags, angular to sub-rounded, frags occasionally v. large (up to 15cm) w/ evidence of original flame bonding; also GRDR (v. altered) frags up to 10cm; rare qz-sx v. frags w/ py + aspy + gn; rare bright red xstals?	GRDR frags v. strongly argillaceous altered. Also possibly green seri? Matrix is clay-altered.	Possible foliation in HLBX: $\alpha = 25-30^\circ, \beta = \sim 200^\circ$	06396	184.57 - 186	1.43	1392.5	23.3
186				186.72-186.84 zone of bx RHYL + py (10%)	06397	186 - 187.5	1.5	483.1	11.0
				~188.15 numerous small qz-sx v. frags, rounded w/ py + gn.	06398	187.5 - 189	1.5	54.6	3.7
188					06399	189 - 190.5	1.5	290.2	14.2
190					06400	190.5 - 191.67	1.17	126.7	8.8
	191.67 - 192.31	BX RHYL		Chl 30% py + gn (191.67-191.85) u.c. $\alpha = 60^\circ, \beta = ?$ showed. LC of HLBX: $\alpha = 75^\circ, \beta = 105^\circ$	06401	191.67 - 191.85	0.18	9348.8	158.0
192					06402	191.85 - 192.31	0.46	552.7	21.2
193	192.31 - 192.95	HLBX, as above			06403	192.31 - 192.95	0.64	60.1	7.4

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
193	192.95 - 193.40	BX RHYL		@ 19340 UC: $\alpha = 40^\circ$, $\beta = ?$; clay gouge seams runs parallel to CA here; Foliation developed in SX units (pressure solution style) $40-50^\circ/\alpha$, $\beta = 050^\circ$	06404	192.95 - 193.40	0.45	93.0	5.0
194	193.40 - 195.05	SX BX RHYL		SX: py + gn + aspy 5-15% 194.80 - 195.05 - wuggy cb-qz va, ll to CA.	06405	193.40 - 195.05	1.65	428.5	12.0
195	195.05 - 196.96	BX GRDR, sulphidized w/ 15% py 195.30 - 196.96, low angle qz-sx va, multiply offset as is parallel core axis; va is w/ but qz w/ patchy diss aspy, py, and gn (20-30% total). Host rock appears to be strongly argillic altered (GRDR?)		195.17 - qz-sx va, 4mm, ll to CA w/ py + sp (?) 196.30 - 196.66 v. low angle qz-sx va w/ py + gn + aspy 15-20% Effects of va, variable, but high angle 75-80°	06406	195.05 - 196.00	0.95	528.1	43.0
196	196.96 - 197.10	Sheared, SX-BX-RHYL; UC w/ prominent shear		UC/LC 40°C	06407	196.00 - 196.96	0.96	2325.9	58.1
197	197.10 - 197.20	GRDR, sheared			06408	196.96 - 197.47	0.51	585.4	19.5
198	197.20 - 197.47	SX BX RHYL			06409	197.47 - 197.74	0.27	338.5	7.3
199	197.47 - 197.74	HUBX			06410	197.74 - 198.42	0.68	563.8	8.9
200	197.74 - 198.42	BX GRDR.			06411	198.42 - 199.66	1.24	947.2	14.9
201	198.42 - 199.66	HUBX - argillic to clay altered w/ BX BX RHYL from 198.42 - 198.56.		UC is low angle frac, ~ 25°C. SX consists of frac & pressure solution vials of py + gn; part @ 200.80	06412	199.66 - 201.1	1.44	181.8	11.0
202	199.66 - 204.39	SX BX RHYL		201.13 - 201.48 is alt ² , though cb removed w/ clay, wuggy seams, fract'd w/ local SX.	06413	201.1 - 202.6	1.50	211.8	11.1
203					06414	202.6 - 203.72	1.12	172.4	4.8
204					06415	203.72 - 204.39	0.67	820.5	30.5
205	204.39 - 204.67	GRDR; med-crs grained, lt grey green (GS-3) sheared.	Strong ser ⁺ , chl alteration	LC of RHYL b'd over 13cm (de-matrix) RHYL frags. UC is extremely sharp w/ RHYL above. No deformation evident, desirite bx ~~matrix~~ in RHYL; contact 80°C	06416	204.39 - 205.5	1.11	81.5	1.8
206				205.90 - 206.15 fault, minor gouge. ~ 30°C.	06417	205.5 - 206.66	1.16	147.4	4.5
207				@ 206.45 qz-sx va, 13mm/50°C; 20% py + gn; more va @ 206.56.	06418	206.66 - 207.54	0.88	73.0	4.4
208				207.54 - 208.29 fault zone.	06419	207.54 - 208.5	0.96	47.2	3.0
209				206.66 - 207.36 strong clay altered/propylitic zone w/ cb vials. 207.36 - 207.54 large diss py matrix (5mm) w/ minor sp.					



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
208					06419	See previous page			
					06420	208.5 - 209.67	1.17	15.1	3.1
210	209.67 - 212.28	Strongly altered GrDE or poss ANDS - fine grained lt-med green-grey (GS-34) abund cb vults. No distinct contact w/ GrDE above.	V. strong seri + chl Mod. strong cb.		06421	209.67 - 211.12	1.45	11.9	0.8
				@211.82 qz-sx va frags; py + gn + qz + cb; caught in a shear zone (?) 4cm/10cm	06422	211.12 - 212.28	1.16	23.2	3.8
212	212.28 - 218.24	Med-grs grained GrDE, as previous GrDE interval		212.67-212.78: shears, 8cm/50°C	06423	212.28 - 213.7	1.42	61.6	4.2
214					06424	213.7 - 215.2	1.5	18.0	11.4
					06425	215.2 - 216.77	1.57	72.7	10.2
216				216.77-217.00 qz-sx va, py, gn, asg. 30-45°C, w/ sill + py flooding into wallrock.	06426	216.77 - 217	0.23	347.4	29.2
				217.00-217.32 py + sp, qz a free assoc.	06427	217 - 217.6	0.60	181.1	14.3
218	218.24 - 220.30	ANDS dyke; med green (GS-4) w/ irreg. cb va lt /stnk, sheared		217.88 qz-sx va 1.5cm/35°C; broken cxi on hangingwall & footwall. 219.07 qz-sx va 1cm/30°C, py, gn	06428	217.6 - 218.24	0.64	673.3	18.0
				219.35-219.82 low angle cb va w/ minor gouge (~15°C)	06429	218.24 - 219.35	1.11	17.0	0.7
220	220.30 - 223.39	220.04-220.30 appears med grained, slightly granoblastic, w/ RHYL, pale beige, bleached, (GS-1-2) v. fractured.	Strong Epi alt ⁿ Strong seri / Kspar alt ⁿ No cb.	UC irreg. w/ local stringers of py Localized stylonite sx-chl vults.	06430	219.35 - 220.3	0.95	9.6	1.2
					06431	220.3 - 221.8	1.5	16.1	2.4
222					06432	221.8 - 223.5	1.5	4.7	2.8
223									

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
223		(RHYL cont'd)							
224					06433	223.3 - 224.8	1.5	3.9	6.3
225					06434	224.8 - 226.06	1.26	20.8	4.1
226				226.06 - 226.45 brecciated RHYL w/ az-sv flooding, py-gr + aspy.	06435	226.06 - 226.45	0.39	673.9	23.4
227				227.03 - 227.69 fault zone, v. broken core minor gouge, sv walls a frac coating	06436	226.45 - 227.6	1.15	312.4	13.2
228		~227.50 RHYL becomes BX'd local bx (strong) zones w/ chl.			06437	227.6 - 229.1	1.5	581.8	19.4
229					06438	229.1 - 230.6	1.5	100.0	9.4
230				230.60 - 232.99 incr. sv content in RHYL; sv aspy + py-gr; occurring in highly disrupted, offset az-sv unit and simulated	06439	230.6 - 232	1.4	398.3	21.2
231				@231.30 Bar/ox w/ sv, 5mm/20°C.					
232					06440	232 - 233.39	1.39	992.5	43.5
233	233.39 - 232.07	RHYL/RHDC dyke; beige massive, v. fr-grained dyke; fs phenos & entrained GEDR frags; pale red where unaltered. 233.83 - 236.15 Spheralitic, spherules aligned along foliation/flow-banding	Strongly bleached from UC to 239.46m. Altered (argillite-clay) GEDR frags (?)	UC flow-banded, chilled margin of v. late stage dyke, also, sheared & faulted w/ gouge @ contact. 22-35°C.	06441	233.39 - 234.2	0.81	373.9	9.8
234				Flow banding 25-35°C.	06442	234.2 - 235.7	1.5	15.0	3.0
235				@234.08 frac crossing flow-banding w/ cb + several op. patches - first occurrence of sv mineralization in RHYL/RHDC dyke.	06443	235.7 - 237.2	1.5	9.80	3.6
236				@236.00 wiggly zone, shear? dark grey. @237.09 gouge?, parallel to flow-bands	06444	237.2 - 238.0	0.8	11.8	0.5



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
239		(2H4L, 2H3C, cont'd)							
240			23946 - end of hole. Relatively unaltered, pale red						
242									
244									
246									
248									
250									
252	252.07	END OF HOLE							



SC02-14

Project name: SKUKUM Total Depth (m): 174.18 Contractor: BOISVENAU Hole survey type: MULTISHOT Depth: _____ Dip: _____ Azimuth: _____
 Project #: CP562 Grid: RAINBOW Northing: 6671294.903 Started: 8/16/02
 D.D. Hole #: SC02-14 Dip: -78.4 Easting: 477881.352 Completed: 8/19/02
 Azimuth: 323.6 Collar Elev.: 1223.1 Logged by: TV
 Core size: NQ2 Date logged: 8/20/02 - 8/22/02

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
0	0 - 0.61	NO CORE							
	0.61 - 134.25	GRDZ, ors-grained hornblende granodiorite Magnetite	Strongly chl altered matrix. Strongly seric altered Mod cb	Rare druse py, localized also along cracks. @2.74 qz-cb-py vailt, 5mm/~70°C, 5% py, chl along selv; also epi.					
2									
4									
6									
8									
	8.47 - 8.92	FLDK, fine-grained pink intrusive w/ epi, cb alt in cracks & vailts	7.05 - 8.05 shesoo cb alteration, GRDZ texture obscured; locally pitted						
10									
	8.960	FLDK (MOLT?), 1cm/180°C		@11.54 qz vailt, 3mm/180°C w/ 12 py.					
12									
13				@13.00 qz-cb vailt 4mm/30°C w/ purplish cb					



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
13		(GRDR cont'd)		@13.30 qz-cb vult, 6mm in frac'd zone					
14			Minor hem alt ² , assoc. w/ cl ² (also at 15.00)	14.58-15.14, shear zone w/ 50% py, disrupted qz-cb vult; purplish cl ² - probably due to hem alt ² , py cl ² & free controlled.					
16				@14.62 gauge plane, also @ 15.36					
18									
20			18.94-19.40 pitted/vuggy core argillic alt ² (?)						
22			20.27-21.00 pitted, altered core. @21.00, sharp contact of pitted & regular GRDR.	19.95-20.27 anastomosing qz-cb vult. 3-4mm wide, v. low angle to CA w/ 25% py.					
24			22.03-24.53 pitted core.						
26		24.53-26.31 FeDK, or poss alteration zone w/ a GRDR; pink, fine grained, frac'd w/ interstitial OH, Ser; @ 24.72 pitted							
28			@27.43 start of inc. hem alt ²	@26.63 narrow OH-seri-cb-py seam/shr. km/40°CA.					



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
28		(GDR, cont'd)							
30			29.61 - 30.00 strong seri						
32			31.27 - 32.47 incr in epi (and near) generally fraction controlled.	30.00 - 31.60 breccia/shear zone in GDR. very strong green seri & red horn alt in matrix; spotted where clay(?) removed. 30.85 - 31.27 cb vns w/ diss py in GDR up to 10% py					
34			32.47 - 32.80 pale, diffuse shear? silicified zone.	33.26 - 33.37 qz-cb un, flooded w/ 10% py					
36		34.34 - 36.73 Lt coloured GDR, (GS-2)							
38		36.73 - 38.51 FLDK or pxt altered GDR (@37.8 K-spar stain indicates ~ 25% K-spar)							
40		@39.73 offset APT(?) dykelet 7mm/30°							
42				@42.18 shear?, strong seri + cb (purple) Some gouge @ 42.22.					
43									



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
43		(GRDR cont'd)	(strong ser, mod cb, sporadic api)						
44									
46		45.11-45.82 FLDK or pale green/pink alteration phase of GRDR, gradational contact, bright green ser, no mafics; wk silicification.	46.55-46.78 alteration zone, no mafics, pink/green, ser, minor chl wk silicification.	@46.35 purple cb - horn unit.					
48									
50				50.32-50.46 Fault, broken core. @50.60 qz va frag w/ patchy qz - surrounded by shears 6mm/70-80°C					
52				@52.10 shear, chloritic 1.5cm/30°C					
54		52.68-53.24 sheared GRDR w/ mod horn + cb (in vults); also minor py							
56		53.57-54.16 diffuse alteration zone, wk sil, strong ser		54.70-54.60 anastomosing qz-cb vult w/ 2-5% py, + scattered siling CA					
58				@55.72 diffuse (flooded) qz va w/ 27% chl py, 3mm/25°C					



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
58		(GRDR, cont'd)							
60				@59.13 qz-cb vn w/ frac offsets (~5mm) rare diss py, ~2cm/30°C.A.					
62		@61.47 1cm/60°C.A. APLT? dyalst, flooded o. s. 3.5%	61.3 → seri alt becomes bright green.	@60.41-60.54, qz-cb flooding(?) w/ abund cp, py, go.					
64				@64.12 cp-py vials & disseminations; occurs on frac planes in a series of offsets w/in GRDR; also minor horn. @64.36 more cp in chl frac.					
66				@66.70 cb-qz vn w/ patchy diss cp					
68				@68.14 chl-py shear. w/ qz vn frags + cp + ga 2cm/55°C.A. @68.71-69.13 2% diss py.					
70			67.22-69.45 strong propylitic alt zone. 69.61-69.81 strong, bright green seri. 70.10-76.00 mod. strong propylitic alt, locally variable; cl. f. 1.5%, silicified zone from 71.04-71.26.	@69.45-69.61 py + 3% large diss patch @70.03 qz-cb vn frag w/ py ± cp.					
72									
74									
76									
78									
80									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
73		(GDR, cont'd)							
74									
76			74.87-75.48 Strong propylitic alt.	@76.00 shear/fault w/ minor gouge 250CA w/ assoc cb-qz vining.					
78			78.45-78.65 sil flooding; grades into weak-strong propylitic, also minor bright-red hem.						
80			79.96-80.34 strong propylitic alt. w/ hem.						
82				@82.23 narrow qz-cb vein w/ intersecting chl seam w/ pg; Py des @ intersection qz vn 2mm/30°CB; chl seam 1mm/250CA					
84				@83.40 qz-cb vein w/ 5% py+gr 4mm/10°CB					
86				85.01-85.16 strong ductile shear ~ 80-85CA					
88			@86.15 wk silicification	86.35-86.97 fault?, w/ gouge, argillic/ propylitic alt.					



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
88		(GRDA, cont'd)							
90			89.40-89.50 wk silice. Frication	89.60-89.80 two narrow qz-sx veins; w/ minor to a chl selus w/ py+asbg (-5-10%) 3mm/35°C (both), also w/ offsets. @90.22 qz in w/ 50% sx (aspy+py) d'io, c'd in m., 3mm/40°C. @90.46 cb-qz un w/ minor diss py. partiz along selv; 3-4mm/75°C					
92									
94			93.47-93.65 strong propylitic to argillic in fault/shear zone	93.47-93.65 fault/shear zone, soft, gorgy ore; 35°C					
96				96.49-96.85 soft, gorgy core in shear, 60°C.					
98									
100									
102									
103			101.19-103.00 med - strong propylitic						



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
103		(GRDZ, cont'd)	(mod. strong, Seri, mod cb, chl, cont'd)						
104				total 2 narrow shear, 5mm/70°C, local irreg, fract. controlled cb vults					
				@104.81 qz-sx vult.; 10% py + aspy, 2mm/25°C					
106				@105.48 qz-cb-sx vult., 10-20% py + aspy, 2mm/20°C					
				@106.49 strong, narrow ductile shear 1.5cm/60°C					
108									
				108.73 - 108.96, qz-sx vult., cuts side of rura 10% py + an + so, aspy (?), minor cb; cutoff by cb vult. @ 108.96					
110				109.08 pyritic shear (5%)					
112				@112.40 qz vult. frequent, deformed & rounded margins, barren.					
				@112.97 gouge plane ~ 2cm wide					
114		Increased ductile shearing in GRDZ, still generally localized	Iron pyroclastic ash, becoming locally argillic w/ pale bluish-grey color; soft.						
			114.20 - 114.45 bleached GRDZ, soft.						
116				@115.62 chl-seri-cb shear; 3mm/~50°C					
				@ 116.00 - 116.05 - 2mm shear					
118									



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
118		(GRDR, cont'd)	(Seri, cl, Cu, mod-strong cont'd)	118.23 - 118.53 abund chlorite fracs w/ py- (to 37%); frac-offset qz vn @ 118.53 3mm/25°C, w/ minor py+cb.					
120									
122				121.68 - 122.05 ductile shear; seri+clay; w/ silicification w/in shear plane SDPA (shear zone)	06447	121 - 122.5	1.5	15.0	3.2
124					06448	122.5 - 124	1.5	86.0	9.0
126				@ 124.54 local py (2%), assoc w/ intersection of fracs	06449	124 - 125.5	1.5	100.3	12.0
128				@ 125.90 qz-cb-sx vn; 4mm/20°C w/ 15% py+asp+gn; w/ intersecting chl fract (dk green). @ intersection, abund qz+py min seam/qz vn.	06450	125.5 - 127	1.5	530.2	15.6
130				@ 126.67 disrupted narrow qz vn w/ diss py +asp in a matrix; frac-controlled					
132			127.64 - 127.94 vn-sv interval, darker alteration between bleached GRDR.	@ 127.64 - 127.94; several diffuse qz vn's, offset w/ fracs of sx incl. asp+py+gn. (up to 10% over interval)	06451	127 - 127.5	1.5	37.7	6.0
134					06452	128.5 - 130	1.5	17.0	0.6
136					06453	130 - 131.5	1.5	11.2	0.8
138			130.57 - 131.25 strong hydrothermal alteration of GRDR = argillite (clay) soft, gassy core, pitted		06454	131.5 - 133	1.5	14.9	1.0



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
133	134.25 - 141.39	RH4L (lt grey-beige, fine-grained, (GS-2) relatively competent rock unit. 134.25-137.40 relatively darker, greenish (GS-3) blonitic RH4L (DAG?) 137.40 - 141.39 more typical pale beige RH4L. highly fractured to locally brecciated; qz vein stockwork fracturing core	Strong seri Local chl, concentrated along fracs Wk cb in rock; generally found in frac-fill cb veins & chl. 136.35 - 136.85 irreg. cb stockwork, pale yellow-white	UC w/ GRDR sheared "gradational" $\alpha = 53^\circ \beta = 260^\circ$ Sr dominantly py + aspg + gn. Aspg + gn assoc w/ veins, some frac-fill. @134.84, probable qz-sv vein in bleached RH4L; 20% py, minor gn. @137.42 qz-sv unit 1mm/ $\alpha = 25^\circ \beta = 060^\circ$ @138.96 qz-sv unit 3mm/ $\alpha = 85^\circ \beta = 710^\circ$ but offset & truncated by cb frac. 140.32 - 141.15 series of qz-chl ± sv units (7 units) $\alpha = 30-45^\circ \beta = 165-190^\circ$ 141.50 - 141.90 qz-sv va/br. highly deformed w/ late qz injection & offsets; main va is sv w/ py + aspg + stb. (30%); $\alpha = 10^\circ \beta = 180^\circ$ 141.90 - 141.95 sv br. contact w/ va. $\alpha = 35^\circ$ $\beta = 230^\circ$; Arc offsets in va $\alpha = 70^\circ \beta = 190^\circ$ @146.87 a 2cm zone of massive fine gr + py. 147.5 - 147.65 Fault?, broken core piece above Fract along FA; qz-sv va.	06455	133 - 134.25	1.25	6.6	2.0
134					06456	134.25 - 135	0.75	115.5	16.2
135					06457	135 - 136.25	1.25	141.6	35.9
136					06458	136.25 - 137.40	1.15	48.4	6.4
137					06459	137.40 - 138.90	1.50	85.4	3.1
138					06460	138.90 - 140.40	1.50	38.5	1.3
139					06461	140.40 - 141.39	0.99	23.3	1.1
140					06462	141.39 - 142.9	1.51	5822.7	217.8
141					06463	142.9 - 144.4	1.50	3599.0	33.6
142					06464	144.4 - 145.9	1.50	328.0	14.1
143	141.39 - 149.66	SX BV RH4L; local zones of highly brecciated to brecciated qz-sv vas @ 142.44-142.59, 142.72 - 142.90, 143.54-143.92. Although sv-va zones disrupted & deformed, there is a general orientation of striation $\alpha = 75-85^\circ \beta = 170-200^\circ$ Sulphides dominantly py + aspg + stb + gn	Strong seri Argillitic		06465	145.9 - 146.86	0.96	3377.4	90.6
144					06466	146.86 - 148.04	1.18	20400.0	57.8
145									

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
148		148.04 - 149.14 QZ-SX-BX; bx b, sheared qz-sv vn material; Sulphides include py+ssy + sp + shb. 40-50% combined locally		UC of QZ-SX-BX, 20°C, LC is irregular. -35°C; $\beta = -240^\circ$ (?) @ 148.83 massive stibnite w/ py+ssy	06467	148.04 - 149.14	1.10	15000.0	195.2
	149.66 - 150.72	HLBX, dominantly RHYL clasts, sub-rounded to sub angular; with qz-sv vn fragments.			06468	149.14 - 149.66	0.52	3140.7	31.5
150	150.72 - 151.18	small zone of RHYL		dk diss sv (py) in matrix (<1%) most sv associated w/ qz-sv vn frags where shb + aspy + py + gn occur.	06469	149.66 - 150.72	1.06	2819.5	44.3
	151.18 - 153.28	HLBX, as previous interval		UC $\alpha = 250^\circ$ $\beta = 240^\circ$; LC $\alpha = 55^\circ$ $\beta = ?$	06470	150.72 - 151.18	0.46	4181.9	12.6
152		151.18 - 152.16 "matrix supported" bx		UC + SPCA	06471	151.18 - 152.16	0.98	2524.1	96.3
	152.16 - 153.28	70% RHYL frags 20-70% qz/qz-sv frags Matrix dk grey (Gls-6-7)		QZ-SX frags contain variable py+gn+aspy + stib	06472	152.16 - 153.28	1.12	1909.9	76.2
154	153.28 - 155.62	152.16 - 153.28 "clast-supported" bx, chocked w/ RHYL + QZ/QZ-SX frags.							
		QZ-SX-BX / SX-BX-RHYL - extremely brecciated RHYL w/ abund qz-sv vn + in fill		Sv - py, aspy, gn, sp, shb - total (?) 70% average, up to 50%.	06473	153.28 - 154.67	1.39	6648.0	43.4
156	155.62 - 159.81	Highly altered and strongly sheared RHYL(?), med-brown green, v. soft, increasing softness w/ depth till almost clay; small green Xals (altered) - seri; v. strong	v. strongly argillic - clay altered (kaol)	154.46 massive shb (1cm).	06474	154.67 - 155.02	0.35	7330.0	54.8
			Streaky at clay material (v. strong)	154.67 - 155.05 abund qz-sv dk grey - qz w/ thin med of lacular aspy 30-40%	06475	155.02 - 156.58	1.56	279.6	7.3
158				@ 155.55, similar vn material w/ aspy + stib					
	158.90 - 159.35	v. soft gassy b'd RHYL.		157.17 - 157.28 QZ vn bx, minor sv, cut by $\alpha = 31-35^\circ$ $\beta = 240^\circ$ strong, narrow ductile shear $\alpha = 10-15^\circ$ $\beta = ?$	06476	156.58 - 157.31	0.73	163.8	12.9
				QZ-SX vn - / adularia (opaque white, no Arz) + aspy = 5%	06477	157.31 - 158.56	1.25	379.2	9.6
160	159.81 - 162.21	QZ-SX VN massive competent qz vn w/ 40-70% sv content; sv content decreases down hole	Rare cb.		06478	158.56 - 159.81	1.25	84.0	7.0
				Sulphides consist of locally massive py, aspy, gn, sp, shb and/or tetr, and also locally massive cp	06479	159.81 - 161.01	1.20	34600.0	190.8
162	162.21 - 163.64	GRDR -> QZMX; med-ess grained highly altered intrusive	v. strong seri - green wk. med argillic	UC & LC v. sharp. 85-90°C.	06480	161.01 - 162.21	1.20	33600.0	313.0
163				Diss py in GRDR from UC to 162.21 (decreasing with depth from 10% to <1%) @ 162.65 QZ-SX VN, Sum/iron; 15-20% py + sp - terminate by shear $\alpha = 75^\circ$ $\beta = 240^\circ$	06481	162.21 - 163.74	1.53	793.6	18.9



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
163				@163.52 qz-sx vn; 12mm/ $\alpha=40^\circ \beta=000^\circ$ w/ massive, patchy py+sp+asph (40%) - py+sp, h wallrock as well	06481	See previous page			
164			164.20-164.90 strong ep+seri alteration	@163.82 1cm qz-sx vn; py+gr+sp. $\alpha=25^\circ \beta=000^\circ$ @164.99 irreg qz-sx veins, py+sp (~30%), intersects w/ fuc.	06482	163.74 - 165.31	1.57	188.0	10.9
166		165.31-169.88 DMZ phase of GDR, med-crs grained, v. altered, w/ abund seri-epi; w/ qz, rare chl seams	165.31-169.88 v. strong seri, epi + chl; w/ sil.		06483	165.31 - 166.80	1.49	14.0	0.8
168				167.70-167.80 2 intersecting qz-sx vults 1: 5mm/30PCA, $\beta=060^\circ$ w/ gr along margins 2: 5-8mm/50PCA, $\beta=030^\circ$ w/ py+sp.	06484	166.80 - 168.30	1.50	265.8	3.4
170					06485	168.30 - 169.88	1.58	8.3	0.6
172		169.88-172.64 "typical" footwall GDR, crs-grained, more qz, less epi+seri		@171.04 qz-cb-chl vult - 4mm/ $\alpha=49^\circ \beta=070^\circ$ @171.18 qz vult, 4mm/ $\alpha=40^\circ \beta=060^\circ$ offset by frac $\alpha=45^\circ \beta=160^\circ$	06486	169.88 - 171.3	1.42	2.6	0.3
174	172.64 - 173.56	ANDS (dyke), med grey-green (65-3.4)	med strong seri-chl; small epi patches near upper contact and lower contact		06487	171.3 - 172.64	1.34	2.3	0.3
	173.56 - 174.18	GDR, as			06488	172.64 - 173.56	0.92	1.5	0.4
	174.18	END OF HOLE		173.53-174.04 2 small qz-cb-sx vults, w/ py+sp+gr; may be same vein w/ offset; 5mm/45PCA	06489	173.56 - 174.18	0.62	7.7	1.5



SC02 -15

- FAILED - NO SURVEY DATA

Project name: SKUKUM Total Depth (m): 140.82 Contractor: BOISJOURN Hole survey type: MULTISHOT Depth: Dip: Azimuth:
Project #: CP56B Grid: RAINBOW Northing: 6671295.043 Started: 08/19/02
D.D. Hole #: SC02-15 Dip: -73 Easting: 477881.156 Completed: 08/21/02
Azimuth: 325 Collar Elev.: 1223.11 Logged by: TV
Core size: NQ2 Date logged: 08/23/02 - 08/102

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
0	0 - 1.42	NO CORE							
2	1.42 - 109.97	GRDQ, variably altered, Crs-granite & hornblende gneiss	mod strong seric alteration mod - cb chloritization of mafics	Minor diss py (<1% overall), generally associated w/ fracs or alteration zones w/ opx or hornblende gneiss.					
4									
6									
8									
10			8.62 - 9.30, bleached altered zone w/ associated qtz veins.	@ 8.80 low angle barren qtz vein in bleached zone, 5mm - 100µm, termination @ 8.62 by shear/slip plane. 70% ch, minor diss py in wallrock.					
12				11.85 - 12.05 10% py, assoc w/ frac w/ chl or cb veins.					
13									



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
13		(GNDR, cont'd)							
14									
16		15.25-15.62 FLDK(?) pink felsic phase w/lt GNDR, upper contact fairly distinct but lower contact gradationally fractured w/ dk green interstitial chl		UC(?) of FLDK, - 45PCA 16.60-17.25 v. fine grained qtz-cb va (2 parallel veins) w/ 5% sv (dominantly py w/ trace gn); 5mm + 2mm / 45PCA.					
18				18.70-18.90, 3 wedges of qtz-cb-py veins in core; - 70% py					
20									
22		@21.40 APST dykelet, 4cm / 45PCA, pink	below dykelet @ 21.4, core becomes more propylitic w/ more in apl						
24			23.00-24.75, core pitted - cb removal?						
26			~24.75 abundant py coating frac sfcs	24.75-25.05 v. broken core. 26.75-27.07 v. broken core - fault? locally abundant py on frac sfcs.					
28									



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
28		(GDR, cont'd)	@28.55 hem alt w/ ch - cb.	28.12-28.30 py ~ 10%, diss through GDR					
30				29.3-29.7 breccia in GDR, at centre is a narrow shear; 1cm/SSPCA w/ bed GDR to either side @29.4m					
32		@31.80 narrow pink APT, 3mm/20°C	32.55-33.35 core pitred (cb removal) (intensely pitted form 32.98-33.35) minor cb on sfc coatings						
34			34.53-34.66 pinkish-red hem alt	@34.14 cb unit - dilated zone (soft), w/ f? (purplish)	06492	33.49-34.77	1.28	0.8	0.4
36				34.77-36.24 finely diss py+cp+ rare gn (moly?) along fracs and interstitial between grains ~ 1-2% cp, 2% py ands @ py+cp v @ 36.24; 3mm/35°C	06493	34.77-36.24	1.47	5.4	0.7
38			36.24 → relatively even, dark intensity propylitic; "fresh" GDR		06494	36.24-37.19	0.95	50.8	14.4
40									
42									
43									



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
43		(GRDR, cont'd)							
44			Fans of ~~weak~~ -strong plagioclase seal in spotty patches ~10cm wide or narrow bands, usually associated w/ a V. narrow fracture.	@43.72 py vult., 5mm/32°C w/ red hem					
46				46.43 - 46.60 2 large (~5mm) py patches					
48									
50				49.58 - 49.52 chl seam down CA w/ local sil-flooding; minor assoc. py.					
52				@50.06 chl seam 4mm/45°C					
54			52.91-53.20 strong propylitic alt ⁿ and also pink felsic? alt?	52.23 strong ductile shear, transverse to CA chl, ser + chalcedony(?) 6mm/20°C 52.23 - 52.70. cherted GRDR 52.91. ductile shear, 8mm/90°C 53.5 narrow ductile shear, forms boundary between cts-grained, prop alt ⁿ w/ diffuse silicified / prop alt ⁿ GRDR, 2mm/72°C. 53.7 qz-sil in 40-50% diss py in vult + wallrock, 4cm/30°C 55.34 several py vults; generally common py vults from 53.7 - 55.35; occurring ~70cm. 56.6-56.7 strong shear w/ chl + qz + abund py along fracs (interstitial) 34-40°C.					
56									
58									



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
58		(GARDL, calc 's)							
60			@60.80 strong propylitic; ductile sheared, over lichen.	60.80 - 62.75 numerous py veins or dis- seminations; generally along PAcS ± chl					
62									
64				@64.90 chl-cb shear?, 7mm/50°Cd.					
66			65.82 - 66.89 incr propylitic (mod)	@65.28 chl-cb shear; similar to previous. but different orientation; rather py + ga(?) 9mm/30°Cd					
68			68.38 - 69.78 v. strong propylitic to locally argillite (clay) alteration.						
70				@70.83, low angle qz ve w/ minor py 2mm/-20°Cd @71.09 ductile shear; 1.5cm/65°Cd @72.10 shear, 3mm/35°, cb-clay, ser, cal					
72									
73									



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
73		(Grd DR, cont'd)		@73.6, several narrow qz vns in shored Grd; minor py. gn. (<5%) 74.14-77.01 moderately fractured core, w/ brittle fault?					
74									
76			4. Strong propylitic w/ gouge	@76.15 gougy, highly altered core					
78				@77.70 gouge slip plane.					
80									
82				80.32-80.75, 5-8mm qz vns parallel to CA; @80.32, vein offset out of core by fault (70°CA); cp, py, gn along schistosity and some disc in VA.					
84									
86			@85.57 shear zone: boundary between w/ propylitic and mod. strong propylitic with	@85.62 shear. 2mm/65°CA 86.00-86.15 strong ductile shear. 60-70°CA; sil-fluorine; sheared Grd continues to 86.70 where ends in a broken gougy slip plane					
88									



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
88		(GRDR, cont'd)							
90			89.8-89.36 strong propylitic altered zone						
92									
94			94.73-95.90 silicified GRDR Between 95.90-97.25 core, saltier, pitted / and ganggy.	94.03-98.15 increasingly broken core, probable fault zone, 95.90-97.10 main fault zone w/ main gouge @ 96.35-96.55. 45°C.					
96			97.25-98.20 silicified GRDR	98.15 end of relatively broken core, but core increasing shattered, still broken					
98									
100									
102				@ 102.21 shattered zone; 5cm / 50-60°C rich chl.	06495 06496	101-102.5 See next page	1.50	5.2	1.4
103									



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag	f
103					06496	102.5 - 104	1.50	5.8	0.9	
104					06497	104 - 104.85	0.85	4.5	1.1	
		104.85-105.77 strong shearing and local brecciation in GEDR;	strong propylitic to argillic assoc. w/ shearing; cb units - stylonitic	104.85 - 105.66 qz vn parallel to CA, multiple offsets or completely detached w/ various orientations @ 105.06 quarry 75°CA	06498	104.85-105.66	0.81	266.0	1.8	
106					06499	105.66 - 106.70	1.04	79.1	3.1	
			107.92-109.97 v. strong prop/arg.		06500	106.70 - 107.92	1.22	8.1	1.4	
109					06501	107.92-108.95	1.03	5.0	1.3	
				108.96-109.97 strongly sheared, clay alteration, core v. broken w/ gouge, pitted, esp @ 109.34-109.97.	06502	108.95 - 109.97	1.02	14.5	3.6	
110	109.97 - 116.75	RH4L; pale beige, bleached, 109.97-111.22 = RH4L highly fract'd, vuggy, 111.22-116.75 solid, competent RH4L; shil fract	Strong seri - argillic alt., bleached.	UC w/ GEDR, sharp w/ bw in GEDR, ~10°CA. RH4L brecciated to 111.22. Minor SX, dominantly pg; minor stylonitic sx units of py+gn - anatectically distributed	06503	109.97 - 111.22	1.25	93.4	4.7	
112					06504	111.22 - 112.70	1.48	206.7	3.0	
114					06505	112.70 - 114.00	1.30	74.8	4.6	
					06506	114.00 - 115.40	1.40	95.2	3.9	
116					06507	115.40 - 116.75	1.35	424.3	5.0	
118	116.75 - 118.35	QZ-SX BX, strongly sheared dk brown-grey. matrix (CB-S); some highly altered RH4L inclusions	Argillic altered RH4L frags. w/ cb.	~20% SX, dominantly pg w/ lesser aspy and minor gn UC sheared ~40°CA	06508	116.75 - 118.35	1.60	611.9	86.3	

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
118	118.35 - 124.48	SX BX RHYL to SX RHYL. Variably brecciated large RHYL w/ abundant stylolitic sx units plus some qz-sx un frags.	Strong seri, bleaching, rare cb.	@118.12 cataclastic shear 2cm/30°C @118.92 qz-sx va, fract'd; w/ 30% aspy + py; ~3cm/50°C.	06509	118.35 - 119.85	1.50	1394.7	30.1
120				@120.32 qz-sx un / flooding; 75-80% aspy + py; irregular vining - probably in-fill flooding	06510	119.85 - 121.20	1.35	2209.8	75.9
122				@121.14 qz va flooding w/ 20-25% py + aspy + tr. ga.	06511	121.20 - 122.40	1.20	1761.0	15.3
124				123.80 - 124.48 incl diss sx (primarily py) as well as small sx units. (5-10%) - foliation of vails ~70°C.	06512	122.40 - 123.80	1.40	215.0	9.6
124	124.48 - 125.50	QZ-SX-BX, similar to previous; remnant qz va @ upper contact, v. sheared b'd qz frags w/ dark brown-grey matrix.		UC ~ 70°C SX content dominantly py w/ lesser aspy ~ 25%, locally up to 40%.	06513	123.80 - 124.48	0.68	527.0	34.3
126	125.50 - 126.38	Highly altered ANDs?, lt greenish, gray-brown, w/ intense crackle stockwork of fs (adularia?) or clay alteration material; strongly sheared & deformed.	v. strong argillic	UC ~ 35°C @125.60 highly fract'd w/ qz va frag.	06514	124.48 - 125.50	1.02	3462.4	52.8
126	126.38 - 127.30	More typical BX RHYL with variable sv vails + qz va fragments w/ sx.	typical alt-s seri, minor chl in vails.	@126.45 qz va frag w/ ga., below more low angle to ca qz va (frag)	06515	125.50 - 126.38	0.88	539.6	5.6
128	127.30 - 127.68	QZ-SX BX, 20-30% py + aspy + ga (rare v.s.)		126.82 - 127.30, incr sx vails	06516	126.38 - 127.30	0.92	92.0	7.4
128	127.68 - 128.56	SX BX RHYL, numerous qz-sx-va flooding in RHYL w/ variable sx.		@127.30 UC sheared, 90°C	06517	127.30 - 127.68	0.38	16790.6	366.5
128	128.56 - 130.78	BX RHYL, strong sheared and brecciated w/ med-strong stwk of clay alteration or fs (?)	strong argillic	Sx still found in narrow stylolitic vails, incl diss py (5-10%)	06518	127.68 - 128.56	0.88	13239.7	123.9
130					06519	128.56 - 129.80	1.24	160.0	9.0
130	130.78 - 132.42	BX GRDR, strong sheared and b'd; zones of dark fine-grained matrix material.	strong seri, minor chl w/ cb. fs stockwork vining (adularia?)	Minor sv, locally concentrated in frs Irreg sheared w/c, 10-15°C	06520	129.80 - 130.78	0.98	120.0	10.5
132				@131.70 strong shear w/ gauge 5cm/15°C	06521	130.78 - 131.59	0.81	66.0	3.0
132	132.42 - 133.66	Sheared RHYL	v. strong argillic (?) alteration	UC sharp 60°C Shear foliation ~ 25°C	06522	131.59 - 132.42	0.83	88.0	11.8
133					06523	132.42 - 133.66	1.24	27.0	5.4



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
133					06523	See previous page			
134	133.66 - 134.25	BRECCIA + Gneiss - appears to be w/ a Gneiss, but probable mixing of both w/ in the zone.	133.66 - 134.25 clay alteration	133.66 - 133.96 strong cataclastic breccia dk grey matrix (GS-7) w/ light pink fragments 133.96 - 134.25 gouge, strong foliation, clay shear foliation 75°C	06524	133.66 - 134.25	0.59	613.0	14.2
	134.25 - 135.68	BX Gneiss			06525	134.25 - 135.68	1.43	42.0	5.8
136	135.68 - 136.44	Sheared Gneiss		0135.58 narrow pressure salt py-chl salt	06526	135.68 - 136.44	0.76	17.8	3.7
	136.44 - 139.02	Gneiss	strong propylitic	UC (shear) 30°C	06527	136.44 - 137.77	1.33	1.0	0.9
138				137.84 - 138.05 low angle qz-fs (altered) w/ minor cb.	06528	137.77 - 139.02	1.25	6.3	0.5
	139.02 - 140.22	Diorite? / ANDS? med green-grey (GS-3,4) w/ ol phenos? of chl. 0139.09 Gneiss intrudes, 4cm/550°C	Med. strong seri Med. strong chl Wk. med cb	02-adularia? vult along CA w/ minor py + chl sets; rare co on frac plane. Slightly offset. Minor py assoc w/ Gneiss intrusion/inclusion	06529	139.02 - 140.22	1.20	7.5	1.7
140	140.22 - 140.82	Gneiss			06530	140.22 - 140.82	0.60	4.2	0.4
	140.82	END OF HOLE	Strong propylitic						
142									



SC02 -16

Project name: SVUKUM Total Depth (m): 206.96m Contractor: BOISVENIA Hole survey type: MULTISHOT Depth: _____ Dip: _____ Azimuth: _____
 Project #: CPS6B Grid: KANBOW Northing: 6671277.184 Started: 8/23/02
 D.D. Hole #: SC02-16 Dip: +0.8 Easting: 477355.089 Completed: 8/29/02
 Core size: NQ2 Azimuth: 209.4 Collar Elev.: 1224.99 Logged by: TV
 Date logged: 8/26/02

From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
0 - 1.43	NO CORE							
1.43 - 130.55	GRDR, med to crr grained hornblende granodiorite, variable green grey to locally pinkish-grey (-GS-2-3).	Alteration is quite variable, typically v. sericitized, mafics chloritized; wk - mod carbonate alt, local cb v. alt Some areas appear relatively fresh, though still chloritized. 13.20 - 15.02 mod-strong Seri (green) w/ wk propylitic; some sil-flooding near 13.20	Highly fractured core. @5.40 narrow shear? w/ pg, 2cm/35°C @6.12 cataclastic shear; ~3mm/15°C core tends to break along low angle fracs and/or joints	06533 06534 06535 06536 06537 06538 06539 06540 06541 06542 06543 06544 06545 06546 06547 06548	3.66 - 5.18 5.18 - 6.70 6.70 - 8.23 8.23 - 9.75 9.75 - 11.28 11.28 - 12.80 12.80 - 14.32 14.32 - 15.85 15.85 - 17.37 17.37 - 18.90 18.90 - 20.42 20.42 - 21.94 21.94 - 23.47 23.47 - 24.99 24.99 - 26.52 26.52 - 28.04	1.52 1.52 1.53 1.52 1.53 1.52 1.52 1.53 1.52 1.53 1.52 1.52 1.53 1.52 1.53 1.52	4.1 23.9 19.0 5.5 3.7 3.6 15.0 6.8 5.5 14.0 15.8 7.4 21.3 11.0 8.5 4.4	0.3 0.8 2.5 0.3 0.3 0.3 0.4 0.5 0.3 0.4 1.2 0.3 1.7 0.2 0.3 0.3
	@31.03 AND frag/kerolich.							
	33.90 - 35.00 4/ APT dykelets, from 2mm to 6mm, 60-80°C	Propylitic "bandings" around APT dykes (local strong prop alt along fracs.) @38.10 hem alt on fracs	@22.04 cb-chl shear w/ dilatant zone fract by cb; ~8mm/15°C @24.65 narrow cb-seri-chl? shear/volt 3mm/10°C, fracs along v. alt @25.72, cb-qz v. alt. 2mm/35°C 39.45 - 40.05 fault zone, v. broken core. 43.77 - 40.98 small fault zone w/ qz veins 5mm/80°C; also 2cm/35°C shear w/ cb-chl-seri, rare pg in purple hem-cb					
		41.40 - mod prop alt						



Hole No.:

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag	
		(GRDR, cont'd)	45.96-47.95 prop alt incrs to strong w/ abund cb alt ^a , lt yellowish green core 48.55 pink felsic alteration 50.05-52.12 dk green chloritic alt assoc w/ fault zone, dso minor horn vult w/ cb. 55.05-68.00 propylitic banding - strong prop alt along GACS; variable orientation 15-75°CA; after GEM, decr in intensity 73-73.92 mod-strong propylitic 73.65-73.77 strong prop. distribution bounded by chloritic shear @ 73.65° 50°CA, 1cm 73.92-73.78 hard silicified core; all flooding 73.78-73.26 core softer; mod-strong cb alt ^a , sheared; GRDR texture partially obscured	248.78 1cm/25°CA shear. 45.70-45.96 purple cb-horn vn w/ 5% py w/ approx 10cm offset by low angle fault ~ 5° to CA (or less) 49.55 50.05-52.12 fault zone. 52.86 purple horn-cb vult w/ tr. py. w/ multiple offsets. 53.05 qz vn fragment in shear? ~20°CA 64.85-65.25 low angle shear (ductile) which offsets a 1.5cm p-x (APLT?) duct. shear is fine-grained, cataclastic texture., ~5cm/20°CA cb alt ^a shear zone. LC ~10°CA; $\beta=060^\circ$						



Hole No.:

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
		@81.57 narrow APLT? dykelet, discontinuous through core, 7mm/$\alpha = 45^\circ$ $\beta = -360^\circ$ @84.73 APLT dyke $\alpha = 72^\circ$, $\beta = 060^\circ$ 84.85 - 88.36 relatively fresh GDR, w/ some primary northblende. @85.02 APLT dyke 2.5cm/$\alpha = 65^\circ$, $\beta = 100^\circ$ @86.61 APLT, offset out of core; 1cm/25° CA @87.06 1-1.5cm APLT/50° CA @95.90 APLT dyke fragment	84.85 - 88.36 wk-mod seri, mod chloritization, wk prop. 88.06 - 89.15 wk shear zone, w/ mod-silting cb alt²; mod-silting seri (green) 89.15 - 103.31 GDR becomes pinkish, pass due to race in hem alt² as seen below; chloritization of mafics v. strong; wk-mod cb alt² 92.67 → increased hem in vults and possible through local zones @93.47 strong hem + epi alt² in 4cm zone, $\alpha = 70^\circ$ CA, $\beta = 320^\circ$ 93.77 - 93.94 further hem + epi alt² zone w/ py. 93.10 - 95.38 hem + epi, strong	@82.25 double cb-qz vult w/ flat offset vult $\alpha = 40^\circ$ $\beta = 320^\circ$ flat $\alpha = 73^\circ$ $\beta = 030^\circ$ @82.29 APLT dykelet 91.7 - 92.69 ductile shear zone, main shear @ 91.30 - chl, low angle to CA, 10-20° CA @92.83 ch-hem alt² zone w/ qz-cb-py vult; ~ 5% py, 3mm/$\alpha = 60^\circ$ $\beta = 320^\circ$ 95.95 - 95.20 sheared GDR, 35° CA. 96.72 - 97.04 series of narrow chl/seri dikes 45-60° CA 98.25 - 99.23 silicified zone, pale purple-mk, highly fract to shear, v hard; @ LC, dk green chl zone (not silicified)					

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
		(GRDR, cont'd)		99.53 - 100.90, long low angle to CA, shear zone w/ abundant purple Qtz (hem?) py ~ 5-10% patchy dissemination v. cm, mod cb. At lower reaches, sl green chl seem curved along data axis, existing in same size; then returns and crosses to opposite side, ~5°CA.					
				@102.60 cb, chl shear?, fracture outfall					
				@103.07 chl patch w/ APLT?, pink, irreg. shape.					
		103.31 - 117.08 increased ep. alt, Qtz becomes increasingly coarser, also incr. Shearing w/ more chl - S&S		@106.30 chl-cb shear (cataclastic?), dk green w/ int mottling, numerous off-axis by narrow fracs; 2cm/ $\alpha=30^\circ$, $\beta=350^\circ$ @106.50, similar chl-cb shear as above, reverser, 2.3mm/ $\alpha=50^\circ$, $\beta=330^\circ$, cut off by frac $\alpha=50^\circ$, $\beta=030^\circ$	06604 06605 06606 06607 06608 06609 06610 06611 06612 06613 06614 06615	107.80 - 109.30 109.30 - 110.65 110.65 - 111.16 111.16 - 112.50 112.50 - 114.00 114.00 - 115.50 115.50 - 117.08 117.08 - 118.70 118.70 - 120.20 120.20 - 120.80 120.80 - 121.54 121.54 - 123.00	1.50 1.35 0.51 1.34 1.50 1.50 1.58 1.62 1.50 0.60 0.74 1.46	1.5 2.7 3.9 2.1 4.0 8.6 3.2 3.1 108.4 2.1 2.2 14.7	0.4 0.7 1.5 0.7 0.9 1.0 0.6 0.6 4.5 0.6 0.6 2.1
		110.65 - 111.16 ductile sheared zone w/ brittle sheared Qtz-S&S vnlts, up to 20% gn+py - probably one vnlts, offset into 3 vnlts w/ core; 5mm/ $\alpha=40^\circ$, $\beta=?$ cut by frac $\alpha=40^\circ$, $\beta=000^\circ$							
		114.60 - 115.00 chl-hem-epi zone passive w/ frac vnlts & shear, locally abund py w/ assoc Qtz							
		117.08 - 118.70 pink altered GRDR							
		118.70 - 120.20 green, sheared GRDR, ductile flows up to 3cm.							
		120.20 - 120.80 pink APLT/FIDK, numerous oblique and irregular contacts; low angle to CA - 1cm/ 5°CA(?)							
		121.54 - 123.55 Sheared GRDR							
			Pure becomes pale greenish grey, v. lt (bleached) ~ GTS 2 Strong ser; minor chl, local Qtz-fluoding	Shear planes @ low angle to CA $\alpha=15^\circ$, $\beta=265^\circ$ @ 121.60. $\alpha=70^\circ$, $\beta=250^\circ$ @ 123.00					

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag	
		(Sheared GRRR, cont'd) 124.05-124.70 zone/fragment of crs-grained pale GRRR w/ dk chl seams (1-2mm) along fogs.		@ 123.34 qz-ch vein, wavy, w/ qz xtal, undeformed, v. late stage; $\tan/\alpha=60^\circ/\beta=260^\circ$	06616	123-124.5	1.5	50.4	1.3	
				@ 124.35 chl-qz-ch shear w/ $\tan/\alpha=40^\circ/\beta=090^\circ$ w/ H assoc. py	06617	124.5-126	1.5	9.0	1.4	
				@ 125.55 chalcocite, w/ $\tan/\alpha=120^\circ/\beta=260^\circ$	06618	126-127.5	1.5	1018.5	4.5	
		125.88-126.15 relatively unaltered, unshaded GRRR		@ 126.40 dk py assoc w/ strong bleaching and sulfidation	06619	127.5-129	1.5	21.1	1.0	
				@ 127.19 narrow chl shear w/ pressure soil w/ H (?) on "down hole" side, minor qz-py shear $\tan/\alpha=60^\circ/\beta=090^\circ$	06620	129-130.55	1.55	13.9	1.3	
		127.66-127.89 crs-grained GRRR	127.19-127.66 strongly bleached "incipient RHYL" (?)							
		129.75-129.84 crs-grained GRRR								
	130.55-135.07	Shear zone - strongly sheared GRRR, w/ well developed foliation fabric w/ incl. sk content (primarily py)	strong seri to argilic mod chl (?) brownish colour.	UC sheared, indistinct w/ in GRRR $\sim 40^\circ$ E foliation/shear fabric variable $30-45^\circ$ EA	06621	130.55-131.43	0.88	42.9	16.3	
				@ 131.05 guss sheared qz-sk va, generally more qz (white to blue-grey) w/ sk (py $\pm$ qn?), foliated.	06622	131.43-132.74	1.31	1079.0	13.6	
				131.43-131.67 wk qz-sk-br (?), strongly sheared, qz frags + up to 20% py; dk grey zone (45-7) $\sim 40^\circ$ EA.	06623	132.74-134.28	1.54	15.6	1.3	
				@ 131.92 similar dk sk shear w/ qz py + aspy (?)	06624	134.28-135.07	0.79	3.1	1.1	
				@ 132.45 sheared qz va to wk qz-sk br; abundant py ($\sim 15-20\%$) diss.						
				@ 132.70 gauge plane.						
				134.02-134.21 dk green chl shear? zone w/ ch with @ LC.						
	135.07-143.65	Brecciated RHYL (or "incipient RHYL") to v. altered, sheared GRRR; lt grey (GS 1-2) to pale blue	Highly bleached sulfidized	Highly fractured & sheared; contacts are irregular; somewhat granular and sheared						

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
		(BV RHYL, cont'd)	(Strong seri to argillie, cont'd)	Numerous staurolite (pressure soiled) Chl-seri (?) $\pm$ py or gn veins @135.94 ss vein, py + gn, irreg. @136.60 sheared/offset qtz-ss vein ~50% py + gn $\pm$ aspy vein. ~6mm. @137.87 qtz-ss vein (5% py + gn) w/ chl seri nearly 40% CA. @138.76 qtz-ss vein, sheared off, ~1cm/ 40% CA w/ diffuse edges. @139.02 qtz-ss vein, ~1cm w/ 10-15% py, aspy $\pm$ gn; does not cross core due to free offset.	06625 06626 06627 06628 06629 06630 06631	135.07 - 136.50 136.50 - 138.00 138.00 - 139.50 139.50 - 141.00 141.00 - 142.51 142.51 - 143.65 143.65 - 145.38	1.43 1.50 1.50 1.50 1.51 1.14 1.73	10.0 7.2 4.5 1.5 2.1 2.2 3.8	1.3 1.0 1.4 0.8 0.5 1.5 2.7
	142.26 - 142.51	crs-grained GORD.		142.51 - 142.78 shear, w/ yellowish- fine (w/ wls; (not ch); vns @ $\alpha = 50^\circ$, $\beta = 300^\circ$					
	143.35 - 143.65	mixed zone of rhyolite material w/ very viny contact w/ GORD.							
	143.65 - 148.70	GORD, sheared to zones of crs- grained; altered, mottled GORD. Strongly sheared from 143.65 - 147.07.	Strong seri, locally argillie Mafics (incl. chl) to locally clay	@144.27 shear, $\alpha = 40^\circ$ CA $\beta = 180^\circ$	06632 06633	145.38 - 147.07 147.07 - 148.70	1.69 1.63	10.9 2.4	1.2 1.0
	147.07 - 148.70	crs-grained GORD.							
	148.70 - 150.90	ANDS dyle, med-dk green (GS-7), fine- grained, homogeneous, o.	Strong seri - chl. Wk ch stockwork vnlts.	UC, GORD is brecciated along shear contact w/ relatively undeformed ANDS, ch; Low angle to CA contact ($\sim 5^\circ$) LC $\alpha = 50^\circ$, $\beta = 070^\circ$	06634 06635	148.70 - 149.80 149.80 - 150.90	1.10 1.10	1.5 0.3	0.5 0.4
	149.98 - 150.22	GORD fragment (?)	149.10 - 149.35 bleached alt zone.						
	150.90 - 153.02	GORD, generally sheared w/ local zones of relatively undeformed, crs-grained hbl granodiorite	Strong seri, chl. Mod ch	@151.83 12mm wide green, (chlorite) cataclastic shear, w/ 1cm offset shear: $\alpha = 38^\circ$ $\beta = 140^\circ$ offset: $\alpha = 150^\circ$ $\beta = 005^\circ$ some local chlorite (?)	06636 06637 06638	150.90 - 152.40 152.40 - 153.90 153.90 - 155.11	1.50 1.50 1.21	7.1 2.4 2.8	1.3 1.7 1.4

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
		155.11-155.74 mixed zone of GRRR w/ med. dk green, v. fn grained chl + chalcedony(?), locally v. hard, others are soft.			06639	155.11 - 155.74	0.63	1.6	0.6
					06640	155.74 - 157.25	1.51	1.1	0.7
					06641	157.25 - 158.75	1.50	1.1	0.7
		157.78-158.65 med. grained GRRR, & grey (GSS Z)	159.92 strong ser, med argillite assoc w/ shear.	159.92-161.06 shear zone in GRRR, med grained, low angle fabric;	06642	158.75-159.92	1.17	0.8	0.8
				@161.10 disrupted chl - cb? v. wht, milky	06643	159.92 - 161.00	1.58	2.2	4.4
		163.52 - 165.06 zone of intensely altered GRRR, obscured w/ texture, highly obscured, (incipient RTHL); highly fract, some parts w/ prob. in crs-grained GRRR	v. strong argillite (?)		06644	161.50 - 162.50	1.00	1.2	1.3
					06645	162.50 - 163.52	1.02	1.3	1.4
					06646	163.52 - 165.00	1.48	2.2	1.2
				@167.40 cb va, disrupted, milky white, opaque, irregular, w/ v. n = 150° $\beta = 090^\circ$	06647	165.00 - 166.50	1.50	1.6	0.6
					06648	166.50 - 168.00	1.50	0.3	0.8
		168.06-183.00 crs-grained GRRR,	mod propylitic alt; less chl		06649	168.00 - 169.06	1.06	1.7	1.4
		@170 ANDS xenos, 5cm wide			06650	169.06 - 170.53	1.47	0.8	0.3
		@170.90 ANDS xenos, possibly sheared into place, fract w/ cb v. n; 100cm wide			06653	170.53 - 172.00	1.47	0.9	0.4
					06654	172.00 - 173.50	1.50	0.7	0.4
			174.82-175.52, strongly bleached, sericized.	174.82 - 175.52 - cb va, filling fractures as open space filling around bx (?) GRRR frags; occurs only in 1/2 core, as main free cuts down CA.	06655	173.50 - 174.82	1.32	0.3	0.5
					06656	174.82 - 175.42	0.60	0.9	2.0
		175.52-183.02 increasingly mixed lithology w/ altered fracs of ANDS, highly altered, incipient RTHL, and increased irregular cb v. n and v. n.			06657	175.42 - 176.70	1.28	1.3	1.1
		@176.50 large ANDS xenos, 1/2 in core, rimmed contact, ~25 cm wide (immature)			06658	176.70 - 177.97	1.27	0.4	0.6
		177.97-182.27 ANDS? - strong alteration also @ 178.61-179.10, and 181.48-182.72		@175.89 cb v. n, ~35° CA.	06659	177.97 - 179.10	1.13	16.1	10.6
					06660	179.10 - 180.76	1.66	3.6	1.0
					06661	180.76 - 181.48	0.72	3.3	0.6
					06662	181.48 - 182.28	0.80	2.0	0.8
					06663	182.28 - 183.02	0.74	2.2	0.9



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
	183.02 - 183.89	HLBX, med grey (45-4) matrix w/ variable Grt, Qtz, and vit. frags.			06664	183.02 - 183.89	0.87	88.7	7.4
	183.89 - 184.46	ANDS (3x), light, fine to med green (45-30)	strong sericite	low angle contact w/ HLBX above @ 200.52 Lower contact sharp w/ GZDR, irreg. infill of matrix at 187.00	06665	183.89 - 184.46	0.57	52.5	7.0
	184.46 - 199.52	GZDR, medium, consistent, bit altered crs-grained GZDR, still fine to internally and locally sheared.	mod-strong sericite mod-strong chl. @ 188.05 op	uk cb vnts & frac infill	06666	184.46 - 186.00	1.54	6.1	0.3
					06667	186.00 - 187.50	1.50	2.2	1.1
					06668	187.50 - 189.00	1.50	2.6	1.3
					06669	189.00 - 190.57	1.67	2.7	1.9
					06670	190.67 - 192.00	1.33	5.2	1.6
					06671	192.00 - 193.50	1.50	2.3	1.1
				@ 191.15 large cb via fill.	06672	193.50 - 195.00	1.50	4.3	1.3
					06673	195.00 - 196.50	1.50	1.6	0.8
				@ 195.96 cb vnt 5mm/280CA	06674	196.50 - 198.00	1.50	18.7	1.0
				@ 198.56 cb vnts, slightly pinkish, cc exts up to 5mm.	06675	198.00 - 199.52	1.52	24.9	0.9
	199.52 - 204.05	bleached ANDS(?) to slightly rhyolitic, pale greenish beige to locally dk green grey (typical ANDS). cb stockwork continues into this unit	mod negative strong sericite; mod chl(?)	UC is v. irregular w/ frac/cb vnts None at	06676	199.52 - 200.52	1.00	7.4	1.4
					06677	200.52 - 201.52	1.00	10.9	3.0
					06678	201.52 - 202.22	0.70	2.0	1.1
				@ 201.62 cb vnt w/ entrained wallrock frags; 2cm/450CA	06679	202.22 - 202.71	0.49	56.5	6.7
					06680	202.71 - 204.05	1.34	105.3	8.1
	204.05 - 204.28	GZDR, w/ 5cm qtz-sx via frag		QZ-sx via frag w/ 50% sx of py, aspg, gr, sph.	06681	204.05 - 204.28	0.23	2404.0	24.9



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SC02-17

Project name: SKUKUM Total Depth (m): 137.77m Contractor: BOISVENUE Hole survey type: MULTISHOT Depth Dip Azimuth
 Project #: CPS63 Grid: RAINBOW Northing: 667/281.043 Started: 8/29/02
 D.D. Hole #: SC02-17 Dip: -77.6 Easting: 477857.858 Completed: 8/31/02
 Azimuth: 323 Collar Elev.: 1223.65 Logged by: TV
 Core size: N02 Date logged: 9/1/02 9/2/02

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
0	0.00 - 119.00	GRD, H green grey (G2), c.s. medium grained hornblende granodiorite.	Strong green ser. alt. Strong chloritization of hornblende except in few local locations where less altered. Wk to locally moderate cb alt.	Minor diss py (<1%), generally occurs as discrete, biotag. patches, often associated w/ qz. flooding / silicification and fractures w/ chit epi. @2.60 qz vn, thin/180CA, x-cut by narrow chit-py frac @ 180CA (opposite dir.)					
2									
4									
6			5.25 - 6.20 bleached, sheared GRD w/ local cb, chit, py to 57%.						
8									
10			9.50 - 9.75 w/ clay alt. w/ local strong epi.						
12				@11.84 qz vn, 1cm/40CA, 1.4gms pyrites out as cross-section.					
13				@12.51 qz vn, diffuse, 5mm/380CA.					



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
13		(GRDR, cont'd)		13.90-14.10 mod broken core w/ clay "orange" slip plane on face of c					
14				15.50-15.64 pyritic GRDR; 57% py					
16				@ 16.02 gr-py unit 4mm/34% CA; ~ 5% py diss in and in immediate wallrock/ schists.					
18				17.50-17.70 py stringers & units; broken core below to 18.05.					
20			18.84-19.85 pink alt zone. (potassic); strong hydrothermal alt w/ mod clay alt	18.84-19.85					
22			22.45-24.90 mod. cb alt	22.15-22.45 shear zone, fine H, alt GRDR, pinkish					
24									
26		24.90-27.20 cis-grained GRDR; w/ mod prop. slightly pinkish, small orange to red alt (hem?)							
28									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
28		(GRDR, cont'd)							
30			@29.60 mod silt-flooding.						
32				31.46-31.68 v. low angle. qz-sk vnl frs offset into core; vnl parallel to CA; appears as double vnl w/ chl sk/bx between; @ LC, shows offset out by fract @ 63°; SK ~ 15-20% py + grt; also yellow-white cb in vnl - siderite					
34				@33.60 qz vnl, w/ minor py (2%) 3mm/15° CA, w/ offset of ~ 2cm. @34.10 Series of qz vns or qz-flooding w/ minor py (1-2%) w/ chl-sil schist					
36									
38									
40									
42				@41.66 sil-py over 4cm; ~ 10% py					
43				@42.60 narrow shear w/ SK(?) 5mm/38° CA					



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
42		(GIRDR, cont'd)		@43.04 similar shear as @42.60, ~7mm/ 60°C, w/ ~5% fn-grained py					
44									
46									
48				@46.85 narrow qz-sk vults; main vlt w/ minor py (~5%); secondary vlt. w/ v. fn-grained qz (~20%) -main veins: 3mm/15°C					
50			50.19-51.29 pink alt. of G1002	@49.76 ductile shear 4cm/80°C					
52				@51.29 narrow 3mm qz vlt/45°C which patches out in chl-epi free					
54				@54.10 qz-cb vlt, 3mm/30°C; minor py in wall rock; some chl incl. in vlt					
56									
58			57.20-57.46 strong propylitic	57.00-57.20 shear?, fine-grained granodiorite @57.292 vlt w/ minor cb + chl incl 3mm/38°C, cut off by low angle frac.					



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
58		(GRDR, cont'd)							
60									
62			6183-6248 bleached alt zone around vein # 6219.	@60.42 narrow cb-sx vlt w/ slip plane 8-4mm/33°C; slip plane dk grey. ~ 20-30% py; abund py in wall rock. @61.02 chl 2cm w/ red hem vlt @61.70 qz vlt. 2mm/35°C.					
64	63.72 - frac'd to locally sheared GRDR. 802B	63.72-6028 Sharp contact below which GRDR is strongly bleached, fractured (not broken) contact @ 45°C		@62.82 qz vn, minor cb+chl, 3mm/35°C @63.04 qz vn, minor cb+chl? (dk grey incl. up in vn. 5mm/30°C)					
66		@64.02 int qz-flooding along frac. @65.65 Rem. wide bleached zone w/ minor qz-flooding a cb vlt.		@65.94 shear. ~2cm/30°C, minor finely diss. py.					
68		@67.34 chl patch.		@67.05-67.24 shear zone, bleached, ductile deformation; UCN 90°C.	06684	66.14 - 67.67	1.53	18.0	1.4
70		68.79-69.84 Bleached zone w/ dk v. soft clay (?) mineral in fract orient'd @ low angle to CA (or quartz?)		@69.25 deformed, frac-offsch qz vn; milky but qz, no sx. @69.50 fragment of qz vn? @69.88 shear w/ sv 4mm/40°C	06685	67.67 - 68.79	1.12	9.0	0.9
72		@71.60 abund chl+qz.		@71.01 dk chloritic shear?, cutoff in core (does not cross core) w/ ~ 5% py. 71.73-71.18 disrupted qz vn w/ 5-10% sx (py+qn) @72.28-72.60 shear zone, 55-58°C 72.92-73.12 shear zone, fabric @ 0° to UCN, and 45° to LC.	06686	68.79 - 69.85	1.06	9.9	1.9
74					06687	69.85 - 70.86	1.01	8.6	2.5
					06688	70.86 - 71.72	0.86	12.6	2.5
					06689	71.72 - 73.21	1.49	847.9	253



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
73		(GRDR, cont'd)	(strongly bleached GRDR)						
74					06690	73.21 - 74.70	1.49	46.1	
76				@75.87 local sil-flouoding w/ green ch	06691	74.70 - 76.20	1.50	9.0	
78				@77.33 qz vn w/ py+gn 3mm/30°C col. abundant chl on selv a in wallrock @77.77-77.87 chl, cb, qz traces w/ minor late py	06692	76.20 - 77.72	1.52	42.8	
80				@78.90 qz, sy, va w/ 10-15% py, ~2% gn ~1cm/40°C @79.58 dk chloritic shales, poss vn w/ py+gn (?), ~1cm/18°C, some qz (blue-grey)	06693	77.72 - 78.95	1.23	80.4	
82		@80.28 sharp contact of alteration with GRDR. Below, crs-grained granomylonite, still light bleached, but more typical GRDR Contact is crossed a steep-faulted w/ cb+qz veins ~75°C	@80.28 decr in bleaching; Back to mod propylitic alt of GRDR	81.00-84.57, localized ductile shears, typically oriented 80-90°C	06694	78.95 - 80.28	1.33	14.8	
84				@82.38 narrow qz-cb-chl vein, 2mm/35°C w/ minor py. @83.50 vn? or infill by brownish chalcedony?	06695	80.28 - 81.78	1.50	9.4	
86			84.46-85.62 dk chlorite zone w/ hem atls and dilatant zone filled w/ cb+qz.	85.87-86.79 v. frac'd broken core w/ low angle to CA gouge plane (~5-10°)					
88				@87.55 qz vn, 3mm/78°C					



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
88		(GRDR, cont'd.)							
90			90.00-93.00 m prop. alt. to mod-strong.	@90.98 97-5% int., minor cb in in. w/ 20% aspg, py, gn, 3mm/25°C					
92				@91.82 weathered out shear w/ (unsp.) prec. @ 15°C					
94				92.98-93.13, shear w/ bleached alt. zone below shear @ 40°C w/ fin-grained qz (chalcedony?) + sericite					
96			94.57-96.33 bleached alteration zone of GRDR; most intense @ fracture zone @ 95.78.						
98				@98.22 shear, 1cm/45°C (ductile)					
100			99.23-100.99 mod propylitic alt.						
102			101.30-101.30 m to dk grey (weil) GRDR, inc. cal; with large qz vials up to 5mm	100.99-101.30 bleached, alteration zone centered on a shear @ 101.18.					
103									

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
103		(GRDR, cont'd)							
104				@104.00 epi-seri shear ~ 90°CA.					
106		106.30 start of shearing and alteration with approach to Rainbow shear zone.	106.30 - increased bleaching of the core, increased shearing and fracturing, strong seri, chl; rare cb.		06696	104.80 - 106.30	1.50	11.3	1.0
108				107.62-107.82 broken core around a narrow shear.	06697	106.30 - 107.80	1.50	11.6	9.2
110				108.20 qz-sx unit, 1mm/20°CA 108.36 qz-sx unit, 2mm/20°CA; py+aspy+qn -intersected by 0.4cm w/ 4mm aspy @ intersection 108.73-109.11 frac parallel to CA w/ chl "bleeding" into wall rock	06698	107.80 - 109.30	1.50	37.1	4.2
112				@110.62 qz-rn & shear w/ 35% py + cb+chl, v. 1cm w/in 2cm wide shear / 36°CA. @110.74 qz-cb-sx unit, 2mm/20°CA, 5-10% py	06699	109.30 - 110.20	1.50	87.2	3.6
114					06700	110.80 - 112.30	1.50	11.7	1.6
116				@113.17 infill material, pale yellow white v. hard (no friz w/ HCL) F5(?) ; continues down core	06703	112.30 - 113.80	1.50	5.7	1.8
118		~114. GRDR increasing bleached; altered to rhyolitic appearance, but original cross-grained texture is still visible locally			06704	113.80 - 115.30	1.50	1.5	1.2
					06705	115.30 - 116.80	1.50	43.3	2.1
				@117.45 diffuse grey qz-sx rn, dominantly py (~15%) v. in granite; gauge on local frac sec.	06706	116.80 - 117.98	1.18	461.9	1.4



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
118	119.00 - 119.78	V. sheared, highly altered and internally brecciated ANDS dyke (?); dk green color, where not overprinted by traces of Seric (clay). RHYL, BX & sheared w/ locally abundant stylolitic ch ± sv units.	Strong seric ch ± sv w/ original ANDS clay-alts	UC/LC 8-10°C, strongly sheared.	06707	117.98 - 119.00	1.02	17.0	1.3
SCALE CHANGE (119.78 - 120.30)	119.78 - 121.88			@120.10 strong shear w/ BX on either side include qz-sv material w/ py + gn ± aspy ± shb (?), shear parallel to contacts of ANDS above.	06708	119.00 - 119.78	0.78	13.3	1.2
					06709	SCALE CHANGE 119.78 - 120.30	1.50	707.8	18.6
121				120.93-121.03 shear w/ qz flooding + sand brown ch ± sv; gouge, 40-50°C.	06710	120.30 - 121.88	1.58	63.2	3.1
122	121.88 - 122.91	ANDS, sheared w/ strong cb? (pale yellow) stockwork, bleached to pale, medium green grey; v. fn grained.	Strong seric Argillic	@122.08 qz-sv vns 30% py + sph (?); up to 7mm/75°C	06711	121.88 - 122.91	1.03	163.0	14.5
123	122.91 - 125.15	QZ-SX-BX / SX-BX-RHYL. Quartz-sx material strongly brecciated & sheared, infilling and crossing pale bleached RHYL (or possibly bleached ANDS)	Pale yellow cb(?) stockwork contains through the qz-sv vns.	122.60-122.91 ~ 10% py in dk grey ANDS, v. fn stock units. Qz vining up to 60% sv. of aspy, py, gn, sp, and shb.	06712	122.91 - 123.84	0.93	5969.8	53.1
124				123.84-124.16 qz-sv vns, 60% sv. UC ~ 65°C, LC ~ 65°C @124.30 foliation in RHYL ~ 40°C. Vn contacts above are perpendicular to foliation.	06713	123.84 - 124.16	0.32	15181.4	77.7
				124.53-125.15 strong qz-sv vns	06714	124.16 - 125.15	0.99	9225.1	166.0
125	125.15 - 128.42	BX ANDS, pale green, w/ strong pale-yellow cb stock (intense)	Strong seric, ch, cb stock.	Sulphide rich - dominantly py w/ lesser gn + aspy @125.82 dk shear/breccia of black matrix w/ sv; fragments of qz-sv vns, dominantly py to 20%, ~ 6cm/15°C @126.00 shear @ 75°C, ~ 1cm; immediately below are rounded qz vns w/ gn ± shb.	06715	125.15 - 125.64	0.49	1013.3	9.9
126					06716	125.64 - 127.00	1.36	631.9	23.4



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
126.5		(BX ANDS, cont'd)			06716	See previous page			
127					06717	127.00 - 128.42	1.42	807.1	9.3
128				128.16 - 128.42 finely dis. py + 2897s.					
129	128.42 - 130.24	BX ANDS, rare sv, strong cb stkwk. bleached	Pale green, strong seri, argillie 128.89 - 129.91 incr. chl content (darker green)		06718	128.42 - 129.30	0.88	17.0	0.9
					06719	129.00 - 130.24	1.24	16.0	0.9
Scale Change 1:100						SCALE CHANGE 1:100			
130	130.24 - 131.98	HLBX; dominantly RH4L/ANDS frags w/ lesser qz/qz-sv va fragments w/in med grey (G3-4) matrix	Ch stkwk still pervasive, strongly altered ANDS/RH4L frags	Rare sv assoc w/ qz frags - dominantly py + gn.	06720	130.24 - 131.30	1.06	102.6	7.9
132	131.98 - 132.57	ANDS (RH4L), bx'd, with bx'd QZ-SV		QZ-SV VN, bld w/ 10-20% py, aspg, gn.	06721	131.30 - 131.98	0.68	46.9	7.5
	132.57 - 133.25	GROGGE ZONE (day worked out), slightly wuggy GRDR core			06722	131.98 - 132.57	0.59	377.7	3.6
	133.25 - 136.05	Sheared GRDR	Strong seri, chl.		06723	132.57 - 133.75	0.68	5.0	0.7
134				@ 134.49, 5cm of sil/qz flooding (vn?) w/ py + sp + gn + aspg.	06724	133.25 - 134.72	1.47	379.0	7.4
			134.72 - 136.05 strong propylitic alt, light green ser. - rich core.		06725	134.72 - 136.05	1.33	4.3	0.3
136	136.05 - 137.21	ANDS, mod sheared, frac'd.	Locally bleached, minor cb infill of frags.	Rare, late-stage cubic py x'tals.	06726	136.05 - 137.21	1.16	2.1	1.3
	137.21 - 137.77	GRDR	Strong seri	@ 137.16 cb(?) vnll/shor. 2cm/40°C	06727	137.21 - 137.77	0.56	1.8	0.3
138	137.77	END OF HOLE	Strong prop alt + seri						



SC02-18

Project name: SKUKUM Total Depth (m): 146.91 Contractor: BOISVENU Hole survey type: MULTISHOT Depth: Dip: Azimuth:
Project #: CPS83 Grid: RAINBOW Northing: 6671321.159 Started: 9/1/02
D.D. Hole #: SC02-18 Dip: -77.4 Easting: 447891.236 Completed: 9/3/02
Azimuth: 317.5 Collar Elev.: 1222.21 Logged by: TV
Core size: NQ2 Date logged: 9/4/02 - 9/5/02

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
0	0.00 - 67.60	GIDR, relatively wk alt; pale pink to greenish, med. grained norablenic granodiorite	Strong chloritization of matrix MoS Ser's Wk to no cb.						
2									
4									
6									
8			6.71-7.93 dk chloritic zone in GIDR. 7.93-8.01 v. dk, fine grained siltst. tones?, poss larger ANIS xenos.						
10									
12									
13				@12.72 cb hem-pg with H_2 , ~ 1cm/25°C					



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
13		(GRDR, cont'd)							
14		@14.06 ANDS xeno? , w/lt chloritic patch, sheared							
16			~15.85 incr. epi; w/lt to mod propylitic						
18		@17.21 ANDS xeno							
20				@20.19 shear, chloritic w/lt fine epi fract fills; ~55% CH					
22		20.90-21.05 FLDK/APLT(?), pink, fine-grained w/lt minor chl; wellrock w/lt chl & H ₂ O; locally abundant epi in fract; local minor py, also fract controlled ~10cm/		22.67-23.14 shear zone, fine grained, chloritic					
24			@21.40 zone of strong prop. alt @24.75 fairly fresh GRDR (primary hardness visible)						
26			Prop alt ^A increases to mod intensity						
28				@27.61 gouge plane, soft clay ~1.5cm/ 45% CH					



31-7-15

Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
28		(GRDR, cont'd)	(Mid propylitic, cont'd)	@28.05 gouge plane, 2cm/55°C					
30									
32			31.7-31.45 patchy bright red Rem alt	@30.87 qz va, fine grained, purplish-grey ~4mm/25°C, terminated by X-fracture. 31.90-34.60 Fault zone, broken core w/ gouge zone @ 32.00; ~6cm/25°C. clay + sericite					
34			@33.88 patch of bright red alt (nom!)	@					
36									
38									
40									
42									
44			@42.06 mat. showing propylitic surrounding va.	40.76-41.11 Facio alt zone w/ qz-ch va @41.02 w/ 5% diss qz, 3mm/40°C @41.26 qz-ch vaH. 2mm/15°C, w/ numerous fine alt (≤5mm) @41.53 chl-ch w/ assoc patchy qz. @42.06 qz va w/ moly(?); minor diss qz in wall rock; LC of va is 3/10 plane coated in dk grey "graphitic looking" - poss fine moly or gr. 1cm/60°C.					



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Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
58		(GRDR, cont'd)		58.70 gouge/broken core.	06730	58.06 - 58.74	0.68	26.8	17.9
					06731	58.74 - 60.12	1.38	8.3	4.8
60			60.12 - 60.35 bleached GRDR, pale green/beige.		06732	60.12 - 61.22	1.10	27.8	1.8
			60.82 - 60.93 bleached zone, as above; probable shear.	61.23 - 61.52 disruptive massive w/ qtz v. w/ 10% py + cp + sp; sheared + discontinuous; 5x forms large patches w/ in v. w.	06733	61.22 - 61.52	0.30	229.2	57.8
62					06734	61.52 - 62.36	0.84	38.9	8.2
			62.38 - 63.76 bleached zone, cured by irreg. qtz + ch-chl mlt. w/ minor py. Mod string prop alt above/below brecciating.		06735	62.36 - 63.38	1.02	38.3	10.2
64					06736	63.38 - 63.76	0.38	4.5	4.4
				64.30 py + cp assoc w/ frac. 64.70 cp in frac/pore v. w. 64.55 ductile shear - 80°C. 64.24 ~ 75% py assoc w/ low angle frac.	06737	63.76 - 65.25	1.49	21.1	15.0
66					06738	65.25 - 66.63	1.38	46.6	10.9
				66.63 - 67.47 qtz-sk v. w., 25-30% / 15% ea, fracs along v. w. axis; locally massive. 67.47 - 68.05 massive, white, milky, bill qtz. Rare py, poss. w/ fine grained ga.	06739	66.63 - 67.60	0.97	3484.4	19.6
68	67.60 - 74.06	Strong alteration zone, possible bleached, sericitized GRDR, pale beige (mass thymic); highly fractured	Chl + seric along fracs locally silica-flooded, or possibly sheared up qtz v. w.	UC 25°C, local chalcedony walls. 68.05 - massive, white, milky, bill qtz. Rare py, poss. w/ fine grained ga.	06740	67.60 - 69.10	1.50	26.0	2.0
70					06741	69.10 - 70.60	1.50	9.5	1.8
		71.16 - 71.57 cgs-grained GRDR, highly altered		71.57 similar to v. w. (?), pale yellow.	06742	70.60 - 72.10	1.50	16.2	2.5
72		72.32 - 72.82 GRDR (texture) w/ several gauge planes.			06743	72.10 - 73.05	0.95	12.6	3.3
73									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
73	74.06 - 97.25	GRDZ; altered, neo-cr. grained;	Strong seri + chl wk. mod. propylitic	@74.06 LC of alt. zone 65°C	06744	73.05 - 74.06	1.01	6.7	2.1
74					06745	74.06 - 75.50	1.44	13.8	4.2
76					06746	75.50 - 77.00	1.50	2.6	0.9
78					06747	77.00 - 78.50	1.50	10.5	1.7
80					06748	78.50 - 80.00	1.50	16.4	1.3
82					06751	80.00 - 81.20	1.20	3.4	0.8
84					06752	81.20 - 82.40	1.20	2.6	0.9
86					06753	82.40 - 83.40	1.00	17.3	0.7
88					06754	83.40 - 84.43	1.03	7.8	0.5
90					06755	84.43 - 85.37	0.94	8.7	1.7
92	82.40 - 97.25 Sheared GRDZ.		82.40 → GRDZ increasingly altered & more bleached w/ v. strong seri + chl; also mod. intensity lb (siderite?) sthewk.	84.50-84.43 shear, silica w/ ~~sp~~ + ep. 7cm/40°C. @84.73 8b-92 m 5mm/32°C @85.50 galena cubes (?) up to 3mm wide, also patch of sp; gouge plane @ 85.57. @85.83 sheared gr-sx in; 35% py+gr+sp. 87.76-88.13 strong shear, fine-grained py to 1876, -30°C	06756	85.37 - 85.95	0.58	57.8	15.2
94					06757	85.95 - 86.70	0.75	21.1	2.1
96					06758	86.70 - 87.70	1.00	2.6	1.1
98					06759	87.70 - 88.13	0.43	39.9	12.6



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
88		(GRDR, sheared, cont'd)		@88.78 massive white qz vn, barren 12mm/40°C	06760	88.13 - 89.80	1.67	15.1	1.6
90				89.88-90.88 Shear zone; bleached, siliceous Feb GRDR, w/ ~2% py overall diss. @90.23 dk sil shear/vn w/ pass gn. ~10°C; strong shearing to 90.53 90.53-90.88 qz-sx vn, 30% fine-grained gn + diss py, ~3cm/20°C	06761	89.80 - 90.53	0.73	28.2	4.7
				90.88-91.88 Strong silicification w/ shear.	06762	90.53 - 90.88	0.35	820.1	66.6
92					06763	90.88 - 91.88	1.00	96.0	8.4
					06764	91.88 - 92.75	0.87	55.9	2.9
94	97.25 - 101.85	BX RHYL, fine-grained, beige w/ abundant qz ± sx stringers shot through; v. hard. Sx typically diss py, pass v. fa gn.	Strong seri; Ox flooding + silicification (?)	92.75-93.75 disrupted, qz-fluorite w/ gn + py in qz.	06765	92.75 - 94.25	1.50	200.6	6.9
					06766	94.25 - 95.75	1.50	52.9	5.7
96				@96.00 irreg qz vn w/ py + sp(?) ~15% @96.59 dk grey qz ± sx (prob gn+py)	06767	95.75 - 97.25	1.50	51.5	4.7
98					06768	97.25 - 99.75	1.50	4.3	2.0
100				@99.25 shear/breccia, dk grey/brown matrix w/ RHYL frags; 5cm/35°C Some gouge/clay.	06769	98.75 - 100.25	1.50	55.9	6.9
102	101.85 - 104.84	Sheared to brecciated GRDR	Argillie (mod - strong) Abund seri + cb veins and clay. (soft) Cb - pale yellow - siderite?	Finely diss py 5-10%, pass gn. Foliation/shear fabric ~15-25°C.	06770	100.25 - 101.85	1.60	25.0	12.3
103					06771	101.85 - 103.30	1.45	409.1	2.8



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
103		(Sheared GRDR, cont'd)			06771	See previous page.			
104	SCALE CHANGE	1:50							
105	104.84 - 105.69	SX BX ANDS: greenish brown, blocky, completely brecciated and infill w/ py.	V. strong seri; Pare chl.	Dominantly py w/ poss sp+gn. Sr are bleaching into wall rock from fracs & veins; ~25% sr overall	06772	103.30 - 104.84	1.54	74.7	6.9
106	105.69 - 106.89	BX GRDR; similar to unit @ 101.85 - 104.84; but v. rare sr	V. soft, abund seri, chl, clay	105.40-105.55 QZ-SX-BX ~25% gn+ py + aspy(?)	06773	104.84 - 105.69	0.85	570.6	21.2
107	106.89 - 115.83	SX BX RHYL; sr dominantly py up to 25%, locally 35%	Strong seri, rare v. local chl. QZ flooding	106.47-106.89 FAULT. Fractured core w/ internal clay along fracs, main shear w/ gouge @ 1.5cm / 25°C @107.16 fault/bx - 75°C	06774	105.69 - 106.89	1.20	133.9	5.3
108					06775	106.89 - 108.40	1.51	246.2	14.6
109					06776	108.40 - 109.03	0.63	404.7	11.0
110				@109.80 shear w/ gouge plane 1cm/25°C @110.18 brecciated RHYL w/ chl + sr & fracs; dominantly py ± gn.	06777	109.03 - 110.34	1.31	524.2	18.6
111				@110.61 sr unit @110.75 sr unit, py + shb or gn; 2mm/40°C	06778	110.34 - 111.66	1.32	211.8	12.3



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
111		(Sk Bx RhyL, cont'd)		111.10 - 114.90 relatively broken core, gauge on many pieces of minor cb.	06778	See previous page			
112				~111.60 fault, broken core, BxH in this area section (~10-15%)	06779	111.66 - 112.50	0.84	157.0	11.0
113				@112.60 sk vnlts; dk gneissic unit w/ py + aspg(?) and pass sp; fine offset a (reg. orientation)	06780	112.50 - 113.20	1.30	312.1	5.9
114				@112.75 similar sk unit; and @112.82					
115				113.80 - 114.90; relatively less sk units	06781	113.80 - 114.91	1.11	34.2	2.4
116	115.83 - 118.60	GRDL (appears fine-grained, highly altered and sheared) and sheared. Py + aspg; gradual change into v. fine grained green to pale reddish brown unit w/ abundant (qtz)-cb stockwork vnlts.	Strong sericite Cb stock (siderite?)	114.90 - 115.83 incr. sk vnlts, typically ~ 1mm	06782	114.91 - 115.83	0.92	25.5	2.1
117				Numerous narrow qz-cb-sk vnlts, assoc. w/ cb-qz vnlts and p.c.s.; also finely disseminated throughout Shale fabric 30° (near 20°) to 55°	06783	115.83 - 117.15	1.32	305.6	6.0
118				@117.03 qz-sk vnlts 30° py + gn; 6mm/50cm along shear orientation					
				@117.95 qz-sk vnlts 1cm/~65° w/ py + gn Rare to no sulphides	06784	117.15 - 118.50	1.35	269.6	9.9
		118.05 - 118.50 pale reddish, fine-grained KfDS (?) to RhyL, sheared.	Strong cb stock continues from above.						



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
118.5	118.50 - 120.45	QZ-SX VN; massive white qz w/ 30-50% sx content; dominantly aspy (75-30%) + py + local cp + sp; also shb/tetr.	Rare cb.	UC is cataclastic shear/bx; dark grey, v. fn sx (py, aspy(?)); ~25-30% CA.	06785	118.50 - 119.97	1.47	14050.2	133.5
119									
120	119.97 - 120.28	Zone of pale green, altered ANDS w/ abundant SX veins + QZ-SX VN; 120.28 - 120.45 QZ-SX VN.	Strong seri	Approx 25% sx w/ py, gn, cp UC 75% CA, LC ~60% CA	06786	119.97 - 120.28	0.31	5639.2	112.2
	120.45 - 121.49	Mixed zone of QZ-SX BX/ANDS and ANDS. 120.92 - 121.49 dominantly QZ-SX VN (BX, w/ 40-50% sx (asp, py + minor cp).			06787	120.28 - 121.49	1.21	6922.8	159.3
121									
122	121.49 - 124.13	RH4L, massive, v. fn grained, pale green-grey; fracture, but not strongly sheared	Strong seri Mod cb, localized on v. fine phonos(?)	UC fractured/broken. Fracs w/ chl + seri. No sx until 123.43.	06788	121.49 - 122.46	0.97	170.1	3.9
123					06789	122.46 - 123.43	0.97	32.3	0.5
				123.43 - 124.13 Vuggy - hydrothermal alk at fracs (clay removal); minor diss. py (1-2%)	06790	123.43 - 124.13	0.70	144.4	4.8
124	124.13 - 124.94	QZ-SX BX; intermixed GEDR frags, SX up to 40% w/ aspy, py, gn 124.50 - 124.70 GEDR (SX-rich, py)	Minor interstitial clay - cb.	123.95 - 124.13 sheared UC fracs, slightly gougy w/ abund sx in qz (asp, py, shb).	06791	124.13 - 124.94	0.81	7838.1	402.8
125	124.94 - 126.54	GEDR 124.94 - 126.17 strongly sheared, in places. appears as fine-grained andesitic-type rock, but relict GEDR texture still slightly visible; 25% SX.		@124.94 LL, sheared, cataclastic, dk grey (5-8) w/ abund py + aspy. 124.94 - 125.28 SX-rich (py) - to 15%.	06792	124.94 - 126.54	1.60	940.5	54.9
126				125.56 - 126.54 SX-rich GEDR, sheared.					



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
126		(GDR, cont'd) 126.40-129.17 Fine-grained, highly sheared GDR, local patchy ss or narrow ss vats.	Strong seri + chl	126.02 - 126.15 (approx) MISLATEX, ground core. @126.40, shear w/ gougeplane; clay + vuggy - 250°C.	06792	See previous page			
127					06793	126.54 - 127.59	1.05	50.3	2.3
128				127.59-129.17 rel. abund ss vats @ low angle to CO @127.78 qz-ss unit, 1.5cm/30°C w/ py+sp + gn+shb (bonded ss units in qz va) (similar in @ 127.92 a few wide/30°C @128.39 ss patch py+shb(?)	06794	127.59 - 129.17	1.58	1592.7	31.0
129		129.17-137.58 Pale, blocky, cgs-grained GDR. v. rare ss, little to no shearing or deformation. v. hard.	Seri + chl. Silicification.	@129.03 qz-ss va, 1.5cm/35°C; w py+asp+shb/gn+cp.	06795	129.17 - 130.70	1.53	110.2	1.2
130	SCALE CHANGE								
132		132.33 - 132.49 ANDS xeno? UC 30°C, LC 70°C	131.90-132.15 strong silicification		06796	130.70 - 132.20	1.50	15.2	0.8
134					06797	132.20 - 133.70	1.50	6.6	0.3
136		135.66 - 135.79 ANDS xeno? or frag. w/ cb. vats UC - 20°C LC 80°C			06798	133.70 - 135.20	1.50	2.4	0.3
137					06801	135.20 - 136.60	1.40	1.9	0.4
				@136.66 gouge plane, broken core.	06802	136.60 - 136.97	0.37	99.5	6.0

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
137		(GDR, cont'd)		@136.90 qz-sx vn/bk ~ 5mm/25°C, ~ 30% - 40% py + cp + aspy (?); offset fracs ~ perpendicular to vn; sx in frac offsets.	06803	136.97 - 138.50	1.53	2.7	0.5
138		137.58 - 143.85 fairly typical crs-grained GDR, relatively fresh.	139.21 - 143.85 inc op: as small pervasive patches.	@139.33 minor diss py in dk chl (?) zone. @139.54 v. narrow frac controlled py-chl mlt.	06804	138.50 - 140.00	1.50	3.1	0.4
140			@140.39 epi vn 4mm/20°C		06805	140.00 - 141.50	1.50	1.5	0.3
142				@142.60 qz-sx vlt, 2mm/30°C; w/ cb	06806	141.50 - 142.68	1.18	4.0	0.7
144	143.85 - 146.91	RH4L, beige to pale purplish-brown, highly frach. minor sx vlt in fracs + qz-cb vlt; K-spr stain indicates >80% K-spr. ~ 2-3% Qtz phenos, 1-2mm.	V. hard - silicified fracs w/ epi + seri; rare chb; also w/ cb. (typically in fracs + vlt).	@143.01 sx dominantly between 143.85-144.07. w/ py + gn (7%) @143.98 qz-sx vlt 3mm/30°C w/ cb. py + gn + ep.	06807	142.68 - 143.85	1.17	5.3	0.3
146				145.85 - 146.91 extremely highly fractured (but competent); cb-ep-seri in fracs.	06808	143.85 - 145.39	1.54	99.4	3.2
	146.91	END OF HOLE		@146.45 cb vlt down CA, ~ 3mm w/ sx of py + gn (?) poss sph. (~10% of vlt)	06809	145.39 - 146.91	1.52	3.0	0.5



SC02-19

Project name: SKUKUM Total Depth (m): 201.78m Contractor: BOISVENU Hole survey type: MULTISHOT Depth: _____ Dip: _____ Azimuth: _____
 Project #: CPS6B Grid: KUHN Northing: 6671125.417 Started: 9/4/02
 D.D. Hole #: SC02-19 Dip: -65.5° Easting: 477666.522 Completed: 9/8/02
 Azimuth: 158.6 Collar Elev.: 1304.43 Logged by: TV
 Core size: NQ2 Date logged: 9/7/02 - 9/9/02

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
0	0.00 - 0.61	CASING.							
2	0.61 - 57.82	GRNT; med-grained pale pink; v. lt. (45-1) 5% mafic content; pink/white ls > 70%.	Relatively unaltered - mod sericite, wk. mod chloritization of mafics, wk propylitization.	0.61-28.86 core v. broken and blocky. Fractures w/ clay or grit. FAULT ZONE. Wk sulphide disc throughout, pyrite.					
4									
6									
8									
10		@9.25 cis-grained GRDZ (~15cm)		@8.77 highly fractured core w/ gauge.					
12		@11.60 cis grained GRDZ		@10.50 qz vn w/ cb; ~5% py 4mm/40µm					
13		@12.40 K-Spar stained GRNT? indicates ~40% K-spar content		10-90-13.85m extremely broken core					



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
13									
14									
16		~14.75 core becomes more typical GIBDZ, crs-grained, relatively fresh, still pinkish white (v. lt. GS-1,2)	wk-mod propylitic wk-mod CB	@15.35 silicified zone around CB-92 v. v. deformed, w/ CP (~270) ~1cm/45°CA					
18									
20				@19.90 v. fine-grained (gravel sized)					
22									
24			23.02 - 23.31 patchy epi in alt ² halo around FRC5 (~1.5-2cm wide) also along contact of fine-grained shear 2 / silicified zone. From 23.31 - 23.47.						
26		@26.01 FLDK, 3cm/74°CA. pink, also silicified FLDK frags @ 26.19 & 26.35							
28		27.03 - 27.21 FLDK, ~45°CA, pink, v. fine grained (?)							



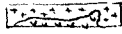
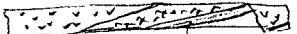
Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
28		(G12DR, cont'd)	28.45-28.65 strong epi + chl alt'g zone, probable wk shear in G12DR; narrow extensional cb faults; and minor py 29.35-30.27 mod-strong epi, pervasive a frac. controlled						
30									
32			32.18 pink phosic alt'g halo around narrow qz-cb fault						
34		33.68-33.87 ANDS dyke; probable offset wedge due to contact angles being opposite direction to each other.							
		34.12-35.06 ANDS dyke - dk grey-green, (LS 5), UC sheared 30°CA, LC 40°CA.							
36		35.63-37.06 ANDS dyke UC irreg; LC 30°CA.	35.63-37.06 pervasive, v. strong epi + chl	35.63-37.06 large patchy d.15 py; also v. fine grained; rare cp; py ~ 2-5% in all ANDS dykes					
38		37.43-38.05 ANDS dyke.							
		38.05-38.98 GRPR w/ lg chloritized int'l xstals up to 12mm x 5mm laths.							
40		38.98-40.23 ANDS dyke UC frac'd + broken, LC 45°CA.							
42		H150-47.08 (Box 9) box dropped, unable to reassemble - picture already taken - may help to reassemble. Consists of G12DR + ANDS dykes as previously described.							
44									



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
43	DIPPED BOX.	MIXED GRD + ANDS DYKES.							
44									
46									
48		(47.08) 49.17 AND dyke w/ 21cm wide GRD Gag offset into it (48.40-48.21)							
50			49.17 → incr epi (propylitic); permissive patry epi occurrence.						
52		52.13-52.27 ANDS frag, sheared, less green than typical	51.50-51.86 mod argillie alt zone w/ locally strong cb alt, strong seri, chl. @52.30 ben zone of v. strong epi	51.50-51.86 shear zone @51.74 cb-hem-py v. shear? 3cm/30°CA.					
54			@51.65 strong epi + qz.	@53.05 low angle fracs w/ epi cb + qz. ~15°CA					
56		56.35-56.52 ANDS frag;	56.52-56.75 qz finding, strong epi, felsic dyke (?) material. 52.85-52.12 pink felsic + qz zone w/ opt 50% fine medics; potassic alt at lower contact.	@56.31 qz-cb-chl vult 3mm/40°CA @56.75 qz v. minor py., 4mm/85°CA @57.55 ductile chl-seri shear in GRSR ~75°CA.					
58	57.82-60.34	ANDS dyke (see next page)							

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
58		ANDS dyke cont'd	Pervasive epi+chl alt.	UC ANDS dyke intrusive (irregular) ~ 30°C					
60	60.34 - 62.33	@ 60.34 LC 45°C GRDR, as described previous 61.12-61.43 ANDS in 1/2 core. 	mod propylitic; mod seri. chloritization of hbl.	59.20-59.40 by shear zone in ANDS; mt cb; w/ assoc. 2.3 cm massive cb ± qz VN - shear completely terminated by fac @ 59.40 created @ 45°C  59.40-59.83 low angle cb cb VN val; 6mm/100cm narrow cb?					
62	62.33 - 64.11	ANDS dyke, as above.							
64	64.11 - 64.65 64.65 - 66.07	GRDR, irreg. intrusive ul. ANDS dyke w/ GRDR from 66.75-66.90							
66	66.07 - 69.83	GRDR, locally sheared, few ANDS frags.	UC w/ ANDS strong propylitic, mod argillie; cb vein along contact.	UL ~ 25°C. @ 66.88 green chloritic shear, ~ 60°C w/ cb, + distinctive red hem, same epi in wallrock GRDR					
70	69.83 - 75.94	GRNT; less mafic content than GRDR, v. lt (pink pink) (GS-1)	Much less chlorite due to less mafic content (~ 5%) Mod-silting propylitic w/ potassic (?)	UC ~ 60°; @ ul felsic phase of qz + fs, almost veinlike w/ chl epi on faces. ~ 15cm wide @ 72.00 ductile shear, wk, ~ 3cm/100-400cm					
72									
74									



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
73									
74									
75	75.09 - 77.51	ANDS dyke; as previously described.	74.9 - 74.91 Silica + epi rich zone.	LC of GRNT gradually altered by And over ASDCA; bit decreases up away from center.					
76	77.51 - 77.52			@75.22 cb-qz-hm vials w/ minor py ~70°C					
77	77.54 - 87.27	GRDR, v. hard, ccs-grained hornblende granodiorite. Regular occurring open space type filling cb vials & vials, occurring along fractures	Mod-strong propylitic v. rare due to silicification epi concentrated along fracs. Strong chloritization of mafics. Locally strong pink potassic (?) alteration - mafics (?) around fracs.	@77.36 cb vial Sm/BoCA, local epi stringers. @78.07 epi-qz vn, 13mm/67°C.					
78									
79									
80									
81		82.05 - 82.24 pink FLDR			06810	81.5 - 83.0	1.5	0.2	0.3
82									
83		83.44 - 83.57 ANDS dyke frag, sharp contacts w/ massive py vn(?) w/ cp as well. Unit is x cut by white slate, open space cb vn, 15CA			06811	83.0 - 84.5	1.5	8.2	0.5
84		84.45 - 85.20 ANDS frag mixed with GRDR.		← (see 1th column)	06812	84.5 - 86.0	1.5	1.5	3.6
85			85.75 - 86.80 strong pervasive, patchy epi in GRDR.		06813	86.0 - 87.5	1.5	0.5	0.6
86									
87		86.93 - 87.17 ANDS,			06814	See next page			
88	87.27 - 97.52	GRNT, v. lt grey (451); silicified, v. hard rare mafics (25%)	Mod-strong ser; minor chl, along fracs. Strong propylitic	Finely diss py (<1%), typically cubic					



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
88		88.25-88.45 ANDS, sheared contacts; minor qtz-rb. Vals w/ minor py.		@88.82 py valts w/ rare ep.	06814	87.5 - 89.0	1.5	1.9	0.9
		88.90-89.20 ANDS frag. w/ qtz va, barren.			06815	89.0 - 90.5	1.5	2.4	1.8
90		90.51-90.82 ANDS, sheared irreg. contacts.		@90.82 LC of ANDS appears sheared to brecciated over 2cm/25-35°C	06816	90.5 - 92.0	1.5	0.5	1.4
92				@92.85 shear zone w/ breccia core, mid green chl + seri; GRANT frags scattered 1cm/15°C; minor diss py	06817	92.0 - 93.5	1.5	0.8	1.4
94			94.10-94.30 dk green epi + chl alteration zone - poss shearing; minor assoc hem & rare fine py.		06818	93.5 - 95.0	1.5	0.9	0.4
96					06819	95.0 - 96.5	1.5	1.6	1.0
98	97.52 - 101.70	ANDS dyke; as previous, dk grey green haire eb valts @98.00 GRANT/GRD fragment ~ 10cm.	mod- strong pervasive seri + epi. mid chl						
100									
102	101.70 - 108.65	GRD, v. hard; appears highly frag'd and altered; possibly Autobrecciated, esp. @ 105.90-107.10	chloritized mafics w/ epi silicified	@101.53 cb-epi-chl va w/ minor hem + py (1.2%) 2cm/175°C Minor diss py, but pervasive; <10%					
103									



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
103		(GRDR, cont'd)							
104									
106									
108	108.65 - 112.67	ANDS dyke, bleached & altered to typical fine-grained homogeneous green-gray w/ med intensity cb streak valls.	Strong pervasive op? to 109.83 w/ Seri + minor chl. 109.83 - 112.67 mod Seri, wk epi. mod strong cb streak.	LC of GRDR, cataclastic bx UC is strongly sheared w/ clay gouge slip contact (narrow) and open space filling cb; contact, 15°C.					
110				110.75 - 111.40 cb valls, random orientation chlorite valls					
112	112.67 - 116.35	GRDR - increased breccia at the unit.	wk argillite; mod propylitic local silicification or sil-flooding.	UC sheared (no brecciation) 15°C.					
114									
116	115.37 - 115.66 sheared ANDS frag; below to 115.66 → GRDR (heavy) mod sheared			115.66 - 116.09 sheared chloritic zone w/ 2-3% fine-grained dcs + brecciated pyrite.					
118	117.93 - 118.95	ANDS dyke - sheared LC ~		@ 117.69 cb vail down CA.					



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
118		(G.R.R., cont'd)							
120			@120.90 epi + qtz shadowing.	119.07 - 119.75 curved fractures in core (chil.) serp. altered; antiferromagnetic core on same side					
122									
124		@123.57 ANDS frag							
126		124.55 - 124.86 ANDS dyke, sheared contacts. w/ purple hem. ch. vein @ LC.							
128		127.73 - 128.50 sheared ANDS frags.	126.70 - 127.10 strong silicification/ qtz shadowing w/ patchy epi.						
130									
132		131.13 darker, more chloritic G.R.R.,	131.13 → incr propylite + chl.	131.00 - 131.13 Fault, gouge, v. broken core of fault contact with G.R.R./G.R.R.	06870	129.80 - 131.13	1.33	42.3	1.2
134		@132.65 ANDS xenos?		@131.98 rare cp w/ ch. py.	06821	131.13 - 132.70	1.57	51.9	0.9
136					06822	See next page			



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
133		(GPRDR, cont'd)			06822	132.30 - 132.80	1.50	6.6	0.9
134					06823	132.80 - 133.30	1.50	6.3	1.6
135		135.41 - 135.71 ANDS, chert'd frag, cuts off.		@135.42 qz-cb-gn ralt, irreg a	06824	135.30 - 136.25	0.95	7.2	6.8
136		qz va w/ gn (See mineralization column); mod -		@1 V. disrupted; gn occurs along vein					
		Strong co'thru; possible strong epi.		margins - 100%					
				@135.79 qz-gn valt; 4mm/20%CA; gn	06825	136.25 - 137.77	1.52	12.8	2.7
				occurs along vein margin; vein terminates in					
				core by narrow fracs.					
				@136.18 qz-fluorite, or poss va w/ py +					
				CA; py also diss in wallrock.					
				@136.70 narrow qz-cb ss salt; w/ py +					
				rare gn.					
				@136.73 cal shear plane of Seam 5mm/20%CA	06826	137.77 - 139.29	1.52	6.8	0.9
140									
142		140.94 - 141.23 ANDS frag w/ chert'd contacts							
		wt - 35%, LC - 55%							
144									
146									
148				@142.24 slightly sugary qz-cb valt	06827	146.91 - 147.14	1.23	1.2	0.5
				5mm/20%CA.					



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
148	148.14 - 148.61	HLBX; med grey (GS 3-4) matrix w/ qz + fs x-laths.	Appears strong ser., med argill., & streak v. lts	2mm sk w/ qz frags; dominantly py. ~ 27%. LC ~ 35%, UC irreg.	06837	148.14 - 148.61	0.47	15.8	3.6
	148.61 - 158.92	GDR, sheared.	Silicag ser. + chl; increasing argill. alt.		06839	148.61 - 149.85	1.24	2.1	0.6
150					06840	149.85 - 150.99	1.14	0.5	1.0
				@151.15 qz-cb-sk va/shear; ribbon sk of py + brown sp(?), ~1cm/13°C.A.	06841	150.99 - 151.78	0.79	2.7	0.7
152				@151.32 massive wht qz va w/ 5% sk of py + gn; 7mm/50°C.A.	06842	151.78 - 152.5	1.27	1.1	0.4
			152.30 - 152.55 strong alteration zone - argill., w/ 17% dist. py - shear? rare cb.		06843	152.5 - 154.0	1.5	3.0	0.7
154			153.75 - 154.98 strong alteration/shear zone; med argill. & ppl		06844	154.0 - 155.5	1.5	4.5	0.4
156					06845	155.5 - 157.0	1.5	1.3	0.4
				@157.75 narrow disrupted qz v. lts ~ 2mm/45°C.A. w/ patchy py in va (~5% total)	06846	157.0 - 158.12	1.12	3.4	2.1
158			158.20 - 158.92 mod strong argill. alt zone		06847	158.12 - 158.92	0.79	5.2	3.1
	158.92 - 160.41	HLBX; similar to smaller unit above. - matrix supported w/ smaller (2-4L?) clasts & x-lath frags; pale yellow, green.		Sk assoc w/ qz frags + finely dissem py in matrix (~1%) UC ~ 270°C.A., LC ~ 20°C.A.	06848	158.92 - 160.41	1.49	160.2	6.5
160					06849	160.41 - 161.9	1.49	24.0	2.8
162	160.41 - 168.35	Sheared GDR	mod-strong to v. strong argill., soft pitted core		06850	161.9 - 163.4	1.50	14.0	1.7
164				@162.84 strong shear. 160°C.A. @162.91 cp in qz-cb va					

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
163		(Sheared, Gfide, cont'd)		@163.44 cb rn (dilatant 4.1) ~ 5mm/7594 @163.61 qz-sx rn, 1cm/80°C w/ 30% cp + py + sp. @163.75 1/2 py ~ 50%	06840 06841	163.4 - 163.68	0.28	440.3	31.5
164					06842	163.68 - 165.2	1.52	99.2	2.2
166					06843	165.2 - 166.85	1.65	15.2	1.1
168			166.85 - 167.80 brown alt mineral, v. abundant - chlorite?		06844	166.85 - 168.35	1.5	34.5	1.8
170	168.35 - 172.21	Shear Zone - lithology appears to be primarily strongly altered / sheared (Gfide) w/ dark breccia zones and fragmented qz-rn. [Probable Kuhn structure]	Strong argillic.	168.35 - 169.70 qz-sx br (?) highly sheared qz w/ in dark matrix (fine grained py visible in matrix), main shear plane ~ 15-20° CA. @169.61 - 170.03 shear/bv w/ dk sxl (?) matrix and large qz-cb frag @ LC. shear @ v. low angle to CA @170.35 qz rn, alt. dilatant, locally abundant fine grained py. @170.75 shear/bv w/ qz-sx rn frags. v. fn sxl matrix @171.67 clay seam. 70° CA, 6mm - v. fine grained clay @171.67 - 172.44 fragment qz vas w/ sx of dominantly py, poss a seg @ 172.21, dk dil grey sx - gn or arg? (+ fn grained) 173.35 - 178.70 brittle fault zone w/ much clay + some fine sxl esp @ 173.45 - 173.65; ~ 50% py over interval, also rare gn + cp.	06845 06846 06847 06848 06851 06852 06853 06854	168.35 - 168.7 168.7 - 169.61 169.61 - 170.03 170.03 - 171.53 171.53 - 172.42 172.42 - 173.35 173.35 - 174.35 174.35 - 175.87	0.35 0.91 0.42 1.5 0.89 0.93 1.0 1.52	1425.1 5.6 53.9 49.0 106.3 10.0 357.8 180.5	37.5 2.2 15.2 7.4 2.0 0.8 27.1 8.5
172					06855	175.87 - 176.78	0.91	28.0	4.3
174					06856	176.78 - 177.21	0.43	73.3	6.2
176					06857	177.21 - 177.80	0.59	19.4	3.9
178	177.21 - 201.78	176.78 - 177.21 ANDS, v. sheared w/ strong cb shut + 5-10% sx, principally py w/ v. fine grained dk grey sx (gn?) Sheared Gfide	strong argillic, decreasing w/ depth	~ 2% finely diss cubic py.					



Hole No.

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/Structure	Sample No.	Interval	Length	Au	Ag
178		(Sheared GOR, cont'd)							
			179.05 - 180.5E v. strong argillitic	@179.72 2mm/30°C clay seam (dk grey)	06858	179.20 - 179.30	1.50	18.7	4.6
180				@179.83 local large dk grey patches (23mm)	06859	179.30 - 180.80	1.50	77.1	1.4
					06860	180.80 - 182.30	1.50	233.6	1.0
182		182.30 - 182.59 MDS?, dk green, finer grained w/ cb streak, minor diss py	181.87 - 182.30 v. strong argillitic		06861	182.30 - 182.59	0.29	10.0	3.8
			182.59 - 183.27 v. strong argillitic	@183.03 & 183.77, dk grey clay (sv?) nears 120°C.	06862	182.59 - 183.77	0.73	42.3	1.6
184			183.27 → argillitic alt decreases to strong propylitic w/ minor argillitic; soft pale green epi/seri rich core.	Sx decrease w/ change in alt?	06863	183.77 - 184.80	1.48	18.9	1.8
				@185.74 qtz-cb vein 4mm/45°C	06864	184.80 - 186.16	1.36	13.6	2.2
186		186.28 → GOR becomes dkcr, more chlorite more typical alteration; ~1-2% py	186.80 - 187.03 abund opi.	@186.78 shear plane w/ clay; 120°C.	06865	186.16 - 186.54	0.38	30.5	2.1
				@187.47 pair of cb-qtz veins w/ seri(?)	06866	186.54 - 188.06	1.52	10.2	2.1
188					06867	188.06 - 189.50	1.44	6.2	1.4
190					06868	189.50 - 191.00	1.50	19.1	0.5
				@190.64 chl-qtz-cb-seri sh. - 5mm/30°C					
192				@191.43 cb vein, irreg orient? (open space filling) ~ 5mm wide	06869	191.00 - 192.50	1.50	52.7	1.6
				@191.73 cb-chl-seri veins (shear?), highly fract'd, dilatant zone in GOR.					
194					06870	See next page			



Hole No

Scale	From - To (m)	Lithology	Alteration	Mineralization/Sulphides/ Structure	Sample No.	Interval	Length	Au	Ag
193		(G2D12, cont'd)			06870	192.5 - 194.0	1.5	11.5	0.7
194					06871	194.0 - 195.5	1.5	8.7	1.0
196				@196.55 cb vns (2) 1cm/15-20°C.A.	06872	195.5 - 197.0	1.5	15.9	1.1
198			197.85-198.42 v strong argill. alt ⁺ disse w/ shor, qz-chalcedony vns @ 197.95	197.85-198.42 shor plane w/ clay gauge; shear @ 10°C.A.	06873	197.0 - 198.5	1.5	22.9	1.1
200				@199.24 qz-sr vnt; 40% py+cp 4mm/50°C.A.	06874	198.5 - 200.0	1.5	35.0	2.1
202	201.78	END OF HOLE	@200.40 alt ⁺ zone, ~5cm wide w/ epit-horn + cb.	@199.85 cb-qz vnt, 7mm/30°C.A. @200.60 qz-cb-chl vnts, 8mm/20°C.A. w/ patchy py in wallrock	06875	200.0 - 201.78	1.78	11.0	1.0

APPENDIX III
STATEMENT OF COSTS

STATEMENT OF COSTS

Disbursement Costs

Diamond Drilling	F. Boisvenu Drilling	Invoice 20703	\$6,955.00
		Invoice 20705	\$49,319.15
		Invoice 20802	\$43,193.06
		Invoice 20804	\$49,553.99
		Invoice 20902	\$30,515.35
			\$179,536.55

Total Costs for Assessment: \$179,536.55