

## The Lustdust Property in Central British Columbia: A Polymetallic Zoned Porphyry-Skarn-Manto-Vein System

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#### **INTRODUCTION AND LOCATION**

Alpha Gold Corporation's Lustdust property lies close to the junctions of Canyon and Silver creeks, approximately 210 km northwest of Prince George and 35 km east of Takla Lake in central British Columbia (Figure 1). It includes a skarn-manto-vein system that is discontinuously developed over a 2.5 km strike length. This mineralization is related to an elongate, undeformed, Eocene-age composite Mo-bearing porphyry body, the Glover Stock (Figure 2). The stock lies <2 km west of the Pinchi Fault (Figure 2) and it intrudes deformed oceanic rocks of the Cache Creek Terrane, including mid to Late Permian limestones. The Pinchi Fault is major north-northwest trending structure that separates the Cache Creek rocks from an intrusive suite belonging to the Quesnel Terrane immediately to the east (Gabrielse and Yorath, 1992; Figure 1).

The Lustdust area has a history of exploration and small-scale mining for Hg, Au, Ag and Zn-Pb. The former Bralorne Takla Hg mine (BC MINFILE 093N 008) lies close to the Pinchi Fault (Figure 3), and the southern part of the Lustdust property includes a developed prospect, the "Takla Silver Mine" (093N 009), which only produced some small bulk test samples. The adits at the Takla Silver property were driven to explore veins and carbonate replacements that represent the most southern and distal part of the Lustdust hydrothermal system. Later, it was realized that a metal zoning is present on the property; northwards, the Takla Silver Mine Ag-Pb-Au-Zn-As-Hg-bearing veins pass successively into Zn-rich mantos, Cu-Au (Zn) skarns, and then into Mo porphyry-style mineralization in the Glover Stock (Figure 2).

Previous exploration has concentrated on the more distal Zn-Ag-Au rich mantos and veins, but the economic potential of the more proximal Cu-Au skarns and Mo porphyry is now apparent. Drilling by Alpha Gold in 2000 and 2001 has been centered on these more northerly styles of mineralization.

This paper describes the geology, mineralization and alteration on the Lustdust property and outlines the proximal to distal chemical zoning in the system.

#### **REGIONAL GEOLOGY**

The Lustdust mineralization lies in the Cache Creek Terrane (Figure 1) which represents a deformed and imbricated package of Pennsylvanian to lower Jurassic oceanic rocks (Monger 1977, 1998; Paterson, 1974, 1977; Gabrielse and Yorath, 1992). The terrane includes a western element, the Sitlika Assemblage, and an eastern portion that has been designated the Cache Creek Complex (Schiarizza and MacIntyre, 1999; Schiarizza, 2000). The latter, which host the Lustdust mineralization, includes highly deformed phyllites, argillites, cherts and thick carbonates, together with units of oceanic island basalts and mafic tuffs (Paterson, 1974, 1977; Schiarizza and MacIntyre, 1999).

During the Early to Middle Jurassic, the Cache Creek rocks were amalgamated with those of the Stikine Terrane (Figure 1) and imbrication occurred along west-directed thrust faults (Schiarizza and MacIntyre, 1999). In the Lustdust area, this probably coincided with the development of lower greenschist facies metamorphism and several periods of folding. Elsewhere in the terrane, however, some blueschist facies are locally recorded (Paterson, 1977), and these have been dated by K-Ar methods as being Late Triassic (Paterson and Harakel, 1974). Schiarizza and MacIntyre (1999) note that the most important pulses of plutonism occurred during the Middle Jurassic, Late Jurassic to Early Cretaceous and Early Cretaceous times.

The Pinchi Fault (Figure 1) can be traced for >450 km in British Columbia. It is believed to have originally formed during the Late Triassic as a major thrust related to a subduction zone that dipped northwards under Quesnellia (Paterson, 1977; Barrie, 1993). Subsequently, it was reactivated as a north-northwest trending dextral fault.

The Quesnel Terrane in this region comprises a Late Triassic volcanic-sedimentary arc succession that includes both alkalic and sub-alkalic elements. These supracrustal rocks are intruded by a number of major plutons, the largest of which is the multiphase Hogem Batholith (Figure 1). Dating by K-Ar methods (Garnett, 1978) suggests three in-

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Figure 1. Map of the Takla Lake area showing the locations of the Lustdust property, the Pinchi Fault, the terrane boundaries and the major intrusions. Geology after Wheeler *et al.* (1991) and The MapPlace, October 2001.



Figure 2. Geology of the Lustdust property showing location of the Glover Stock and the various proximal to distal mineralized zones. Geology compiled from mapping by Evans (1996, 1997, 1998), Megaw (1999, 2000, 2001), Glover, McGlasson, Ray and Webster (unpublished data).



Figure 3. The Pinchi Fault north-west of Fort St. James showing prospective areas for other possible Lustdust targets associated with limestones, Hg occurrences or former Hg mines.

trusive phases, a Late Triassic to Early Jurassic suite of calc-alkaline granodiorites, a Middle Jurassic phase of alkalic syenites, and an Early Cretaceous episode of calc-alkaline granites. Porphyry Cu-Au mineralization is seen at the Lorraine, Chuchi and Mount Milligan properties (Figure 1; Bishop *et al.*, 1995). Garnett (1978) notes that much of this porphyry Cu $\pm$  magnetite mineralization is associated with the Middle Jurassic syenites.

# PREVIOUS WORK IN THE LUSTDUST AREA

Cinnabar was discovered in 1942 on the west side of Silver Creek, along the Pinchi Fault, at what was to become the Bralorne Takla Mercury Mine (Figure 3; BC MINFILE 093N 008). Total production at the mine amounted to 59 914 kilograms of mercury during 1943 and 1944. In 1944 the Kay claims were staked on veins approximately 1.5 kilometres west of the mine on what later became the Takla Silver Mine. These Ag-Au-Pb-Zn-Hg-bearing sulphide and sulphosalt veins became known as the "Number 1 Zone" and they are now believed to be the most southerly, distal extension of the Lustdust hydrothermal system. The 1945 Minister of Mines Annual Report notes that 350 feet of underground workings had been constructed on the claim group. By 1953, the property was known as the Lustdust. Leta Explorations Ltd undertook considerable diamond drilling and development work up to 1963, and in 1960 a Noranda and Canex joint venture completed extensive trenching. In 1965, Takla Silver Mines Limited drove a new 700-foot long drift on the Number 1 Zone and also dug trenches over surface mineralization at the Number 3 Zone further north (Figure 2; Campbell, 1966). At the Number 1 Zone, Sutherland Brown (1965) reported the presence of an antimony-rich vein-like replacement in limestone and porphyry dike hostrocks. The minerals identified included stibnite, boulangerite, sphalerite, pyrite, some ruby silver and trace realgar and orpiment.

In 1968, Anchor Mines Ltd. extracted a 300-pound bulk sample from the Number 1 Zone for metallurgical testing. A mineralogical study of material taken from underground workings and surface trenches was made by Mathieu and Bruce (1970) who noted the presence of some sulphide, sulphosalt and arsenide minerals, as well as high values of Au, Ag, Pb, Zn and Sb. Zapata Granby Corporation performed geological mapping, soil sampling and geophysical surveys during 1978 and 1979. Noranda Mining and Exploration Company Limited soil sampled and mapped the area during 1979 and 1980. In 1981 they put down a number of diamond drillholes, including some on the north side of Canyon Creek. This was followed in 1986 by survey and sampling work by Welcome North Mines Ltd. and Pioneer Metals.

Alpha Gold Corporation began acquiring the property in 1991 and some exploration was undertaken (Rotzien, 1991; 1992). Later it was optioned to Teck Exploration Limited who completed an extensive exploration and drilling program (Evans, 1996, 1997). Since that time Alpha Gold has done a considerable amount of drilling that has recently focused on skarn and porphyry targets lying north and south of Canyon Creek; details on this work are summarized by Evans (1998), Soregaroli (1999) and Megaw (1999, 2000, 2001). Recently, Alpha Gold Corporation announced intersecting Mo-Cu-bearing porphyry and Cu-Au skarn mineralization along Canyon Creek (Figure 2); intersections through mineralized skarn include hole DDH01-44 which cut 59 m grading 0.8 % Cu and 0.67 g/t Au and hole DDH01-47 which cut 37 m assaying 0.92% Cu and 0.68 g/t Au (Alpha Gold Corp. News release, October 1st, 2001).

Schiarizza (2000) compiled the geology of the district, and Dunne and Ray (2002, this volume) have completed a fluid inclusion study of the Lustdust mineralization.

#### **GEOLOGY OF THE LUSTDUST AREA**

#### **INTRODUCTION**

The Lustdust mineralization is associated with an elongate, composite igneous body, the Glover Stock, as well as a related north-northwest-trending swarm of felsic dikes and sills (Figure 2). The stock, which crops out both north and south of Canyon Creek, intrudes deformed Cache Creek supracrustal rocks and is surrounded by a 200 to 300 m wide hornfels aureole. The country rocks comprise a steeply west-dipping, north-northwest striking package of slatey carbonaceous or cherty argillites, phyllites, ribbon cherts and mafic metavolcanics and tuffs. Also present are several thick, north-trending units of limestone and marble that host most of the skarn, manto and vein mineralization.

#### SUPRACRUSTAL ROCKS

Most of the Lustdust area is underlain by a north-northwest striking package of slatey phyllites and cherts, as well as lesser amounts of mafic tuff, greenstone metavolcanics and some limestones (Figure 2). In addition, there are thin, minor units of polymictic volcanic sandstone and conglomerate (Megaw, 2000). The limestones are concentrated in the southeast part of the area but quickly pinch out north of Canyon Creek (Figure 2). It is uncertain whether this northerly disappearance of the limestones in this area reflects facies changes or the northern plunge of the fold axes. Thick units of mafic volcanic and tuffaceous rocks are more common to the southwest (Figure 2), whereas the phyllitic argillites and cherts mainly occupy a north-northwest trending belt in the central portion of the property. The argillites and cherts are commonly interbedded and locally grade from one into another, making it difficult to separate and map out the two units (Figure 2). Limestones form massive to poorly bedded, fine-grained rocks that vary from blue-grey to white in color. Individual carbonate units range from a few centimeters to over 500 m in thickness. During this study, four limestone samples were collected for microfossil identification. Three of these contained no useful fossils, but one massive limestone sample (GR01-38), collected at UTM Zone 10 NAD 83 348069E -6160847N, yielded fossils of mid to Late Permian age (M.J. Orchard, personal communication, 2001). Many limestones are sugary textured due to recrystallization (Megaw, 1999) and they contain stylolites. Adjacent to intrusive rocks, the carbonates are often bleached, silicified or converted to marble. Evans (1997) identified several different types of limestone, one of which may represent carbonate debris flows. These rocks contain knots or small boudins of white calcite which might represent recrystallized carbonate breccia clasts (Megaw, 2001). Supportive evidence for this idea is that some limestones are interbedded with, or grade into, thin units (maximum 40 m) of a distinctive green, chloritic tuff containing angular to sub-rounded clasts up to 40 cm in diameter (Photo 1). The widely scattered and matrix-supported clasts comprise mainly various types of limestone, but minor quantities of mafic to intermediate volcanics are also present (Megaw, 2000). Evans, (1997, 1999) believed these tuffaceous debris flows represented a single folded horizon. However, later work (Megaw, 1999) suggests there are several units that display considerable lateral variations, including some with graded bedding and Bouma-type sequences. Evans (1996, 1999) reports that these tuffs locally contains up to 2 % finely disseminated pyrite-pyrrhotite and are geochemically anomalous in Pb, Zn and Cu.

The most extensive area of mafic metavolcanic and tuffaceous rocks outcrops in the southwest part of the mapped area (Figure 2). All of these rocks are highly chloritized and many of the original igneous or depositional textures have been destroyed. Unlike the thin tuffaceous units interbedded with limestone further east, no brecciated limestone clasts are seen in these rocks. The volcaniclastic rocks are mostly fine-grained and massive and are believed to represent deformed and altered basaltic ash tuffs. Occasionally they contain small lithic fragments and lapilli, and in some outcrops a weak to moderate layering or sedimentary bedding is observed (e.g. at UTM 346476E -6160321N). Locally, the tuffs include thin horizons of thinly bedded tuffaceous siltstone. The metavolcanic rocks are generally fine grained and massive, but at UTM 346151E -6160757N, remnant pillow structures are observed.

The phyllites are believed to represent weakly metamorphosed argillites. They make up non-calcareous, massive to thin bedded rocks that vary from light grey to black in colour. Many outcrops contain variable quantities of carbonaceous material as well as pyrite-pyrrhotite that occurs either as disseminations or in thin beds; Megaw (2000, 2001) suggests the latter may indicate syn-sedimentary sulphide deposition. Many of the phyllites are strongly deformed and the original bedding has been transposed and obliterated. In some localities, however, intersections between the bedding and the phyllitic cleavage are recognizable.

Many of the phyllites are cherty and locally these pass into massive or well-bedded ribbon cherts that are white to very dark grey in colour. The ribbon cherts often comprise 1 to 3 cm thick layers of pale chert that are interbedded with thinner (0.25 to 1 cm) horizons of dark phyllite.

#### **INTRUSIVE ROCKS**

The Lustdust mineralization is spatially associated with the Glover Stock and a related swarm of felsic sills and dikes that exceeds 3.5 km in strike length (Figure 2; Megaw, 2001). The stock crops out north and south of Canyon Creek and forms an elongate, north-northwest-trending lens-like body whose main portion exceeds 1 km in length and 0.6 km in width. It is enveloped by a 100 to 300 m wide thermal aureole which includes a biotite-dominant hornfels and lesser amounts of calc-silicate and pyroxene-bearing hornfels. Fine-grained, calc-silicate skarnoid overprints the carbonates while the purple-brown coloured biotite hornfels is developed in the argillites and argillitic ribbon cherts. There is a mineral zoning in the hornfels with biotite tending to form more distally and pyroxene occurring more proximal to the stock. The pyroxene hornfels locally includes abundant fine-grained pyrite and pyrrhotite (Megaw, 2001).

To the north and south, the Glover Stock passes out into a series of narrow, north-northwest-striking porphyritic dikes and sills. These elongate minor bodies tend to be more leucocratic and quartz-bearing than the main stock, and some have been classified as "felsites" (Megaw, 2001). Many are feldspar porphyritic but, unlike the main stock, they generally lack significant hornfels development in the wall rocks.



Photo 1. Mafic tuff containing clasts of limestone and minor amounts of mafic volcanic rocks. Holes LD 98-9 and 92-15 at 10 m and 19.8 m respectively.

Photo 2. Argillites, strongly deformed by open to tight F2 folds. Float located 5.2 km southwest of the Takla Silver Mine, UTM 344400E - 6156398N.

Photo 3. Hornfelsed argillitic ribbon cherts cut by early pink, barren quartz-K feldspar veins. Hole LD01-36 at 233 ft. These early veins cut both the Glover Stock (*see* Photo 4) and the hornfels envelope.

Photo 4. Glover Stock porphyry. Early, pink, quartz-K feldspar vein (KS) cut by a thin vein (Mo) containing quartz, molybdenite and trace chalcopyrite. Hole LD01-34 at 436 ft.

Photo 5. Glover Stock porphyry. Two veins (Mo) containing quartz, molybdenite and pyrite cut and displaced by a younger quartz-sericite-pyrite vein (QSP). Hole LD01-34 at 233 feet.

Photo 6. Dioritic Glover Stock cut by a vein with a quartz-feldspar-pyrite core and tourmaline-rich margins. Note the thin bleached and altered zone adjacent to the vein. Hole LD01-30 at 145 ft.

Preliminary U-Pb dating of zircons extracted from both the dioritic and monzonitic phases of the Glover Stock yield Eocene ages of circa 51 to 52 Ma (R. Friedman, personal communication, 2001). The stock represents a multiphase composite intrusive complex, and most of its rocks are weakly to strongly feldspar porphyritic; some of the latter have "crowded" feldspar porphyry textures, in addition to phenocrysts of igneous hornblende and biotite. Chemical plots (Tables 1A and 1B; Figure 4) and thin section studies (Leitch, 2001b, personal communication) indicate the stock ranges compositionally from mafic diorite-monzodiorite to more leucocratic monzonite-quartz monzonite. The age relationships between these phases is complex as the diorites both cut, and are cut by the more leucocratic igneous rocks.

Primary mafic minerals in the dioritic phases include up to 20 % hornblende with lesser biotite and rare relict clinopyroxene. The hornblende is commonly partially to totally replaced by chlorite, actinolite and secondary biotite. Primary igneous biotite comprises up to 5 % and is also chloritized. Phenocrysts of andesine-oligoclase plagioclase may exceed 60 % of the rock and individual crystals reach 3 mm in length. Potassium feldspar, both as megacrysts and small crystals in the fine-grained groundmass, may reach 15 % by volume, but is generally less than 5 %. Groundmass quartz rarely exceeds 10 %. Other accessory to trace minerals identified in the diorites includes calcite, sphene, apatite, zircon and up to 2 % opaque minerals which mainly constitutes magnetite (Leitch, 2001b).

The leucocratic monzonitic phases contain 30 to 35 % plagioclase, up 35 % K feldspar, and between 5 and 10 % quartz. Locally, some of these rocks are megacrystic with K feldspar phenocrysts up to 0.8 cm in length. Leitch (2001b) has identified relict hornblende and biotite crystals which are now replaced by aggregates of carbonate, chlorite, sphene and opaque minerals. Where intense phyllic alteration has taken place, fine grained pervasive sericite may make up 10 % of the rock and this mineral is seen replacing the plagioclase crystals. Sphene may also be replaced by sericite in addition to chlorite, and minute needles of rutile. Accessory and trace minerals in the monzonites include magnetite, apatite, zircon and pyrrhotite (Leitch, 2001b).

Thin (< 1 metre) zones of hydrothermal breccia cut the stock in some localities and many have "pebble" breccia textures. One 20 cm thick breccia zone seen in hole LD 01-36 at 186 feet contains subangular to subrounded fragments up to 3 cm across. The fragments are mostly altered diorite with lesser amounts of mafic volcanics, vein quartz and massive pyrite, that are supported in a fine-grained feldspathic matrix.

Whole rock and trace element analyses of the Glover Stock are listed in Tables 1A and 1B and plots of these data shown in Figure 4. These show that the stock represents a metaluminous, volcanic arc granitoid (Figure 4G, H and O), as defined by Pearce *et al*. (1984). The ferric and ferrous Fe content of the mafic and leucocratic phases indicate the rocks are relatively oxidized, which is typical for plutons associated with Cu skarns (Figure 4M and N). However, plots do indicate significant differences between the more mafic dioritic phases and the leucocratic monzonites which is reflected in their Na, K and Ba contents (Figure 4K and L). The mafic phases are subalkaline, calc-alkaline rocks of diorite-quartz diorite-monzodiorite composition while the leucocratic samples have alkalic affinities, being of monzonite-quartz monzonite-monzodiorite composition (Figure 4A to 4F). The alkalic feature is probably due to secondary potassic (K feldspar, sericite and biotite) and albitic hydrothermal alteration, as suggested by plots in Figure 4K and 4L.

Figure 5 presents comparative chondrite normalized rare earth element (REE) plots for the Hogem Batholith (Barrie, 1993) and the mafic and felsic phases of the Glover Stock. These two phases have virtually identical REE patterns, which indicates their common source. However, the pattern for the Hogem Batholith differs, notably in being comparatively depleted in light REE's (Figure 5). At the start of this project, the Glover Stock was thought to be related to the nearby Hogem Batholith (Figure 1). However, the Eocene age of the stock and its different REE pattern (Figure 5) prove it is not part of the Hogem suite.

#### STRUCTURE AND METAMORPHISM

The supracrustal rocks in the Lustdust area have undergone a complex history of brittle-ductile deformation that was probably related to both the Jurassic-age accretion of the Cache Creek Group onto the North American continent and later recurrent dextral transcurrent movements along the Pinchi structure. Two phases of deformation are recognized at Lustdust and these correspond with the two main episodes identified in Cache Creek rocks by Paterson (1974, 1977). The earliest of these (D1) was the dominant folding event and was largely responsible for the general north-northwest strike of the supracrustal rocks. It resulted in tight to isoclinal asymmetric F1 folds accompanied by a lower greenschist facies metamorphism and the development of chlorite-sericite-actinolite axial planar phyllitic S1 cleavages. These cleavages are common in the phyllites and ribbon cherts but are absent or less well developed in the more massive cherts, volcanics and limestones. Due to the absence of bedding in many rocks, small scale, outcrop-sized F1 folds are not commonly seen. However, changes in bedding-S1 intersections indicate the presence of relatively large-scale F1 structures in some localities. The F1 folds have steeply west dipping, north-northwest-trending axial planes and their fold axes plunge north to northwest, generally at between 10 and 50 degrees.

The second phase of deformation (D2) resulted in a variety of structures that vary from tight to open flexure folds (Photo 2) as well as a crenulation strain-slip cleavage in the phyllitic rocks. In some localities, two conjugate sets of strain slip cleavage are developed. The F2 folds have a wide variation of strike and plunge, depending on the orientation of the bedding and S1 surfaces. The most common F2 folds have northerly striking axial planes and fold axes that dip between 20 and 75 degrees north-northeast to northwest. The less common set strikes easterly with shallow (<15 degrees) east to west plunging axes. Locally, the F2 folds are also associated with prominent a-c joints that are often



- $\diamond$  Au skarn-related intrusions (n = 27)
- Fe skarn-related intrusions (n = 49)
- $\nabla$  Cu skarn-related intrusions (n = 59)
- W skarn-related intrusions (n = 21)
- × Sn skarn-related intrusions (n = 19)
- Glover Stock mapped as "diorite"
- Glover Stock mapped as "monzonite"
- Albitized diorite

Figure 4.



- Glover Stock mapped as "diorite"
- Glover Stock mapped as "monzonite"
- Albitized diorite



#### Mean values for other skarn-related intrusions in B.C.

- $\diamond$  Au skarn-related intrusions (n = 27)
- Fe skarn-related intrusions (n = 49)
- $\nabla$  Cu skarn-related intrusions (n = 59)
- W skarn-related intrusions (n = 21)
- × Sn skarn-related intrusions (n = 19)
- $\blacksquare$  Mo skarn-related intrusions (n = 12)

Figure 4.



Figure 4. Major and trace element plots of the mafic dioritic and leucocratic monzonitic phases of the Glover Stock (data from Tables 1A and 1B). Also plotted, for comparison, are the average values of other skarn-related plutons in BC (data from Ray and Webster, 1997). A and B: AFM and alkali-silica plots (after Irvine and Baragar, 1971). C and D: Q - P plots (after Debon and Le Fort, 1983). E and F: Alkali *versus* silica plots (after Le Maitre *et al.*, 1989). Line AA-BB represent alkaline-subalkaline line in Figure 4B. G and H: Log Rb *versus* Log Y+Nb tectonic discrimination plots (after Pearce *et al.*, 1984). I and J: Triangular Ba-Rb- Sr plots (arrow is typical differentiation trend). K: Ba *versus* K<sub>2</sub>O plot. L: K<sub>2</sub>O *versus* Na<sub>2</sub>O plot. M: Calculated Fe<sub>2</sub>O3/(calculated Fe<sub>2</sub>O3 + FeO) versus K<sub>2</sub>O/Na<sub>2</sub>O (oxidized-reduced line after Meinert, 1995). N: Calculated Fe<sub>2</sub>O<sub>3</sub>/(calculated Fe<sub>2</sub>O<sub>3</sub> + FeO) versus total Fe as Fe<sub>2</sub>O<sub>3</sub>. O: Aluminum saturation plot (after Maniar and Piccolli, 1989).

spaced from 1 to 15 cm apart. These a-c joints usually strike easterly and dip northerly at between 10 and 75 degrees.

Much of the intense brittle faulting predates the emplacement of the Glover Stock and has been an important control on the mineralization. However, drilling has identified some faults that post-date the mineralization (Megaw, 2000, 2001). Most faults trend north-northwest, sub-parallel to the dominant strike of the supracrustal and intrusive rocks (Figure 2). A less common set, which may be controlled by the F2 a-c jointing, strikes east to east-northeast, and is best developed along Canyon Creek (Figure 2).

#### MINERALIZATON AND ALTERATION

#### **INTRODUCTION**

The Lustdust mineralization can be discontinuously traced for over 2.5 km, from Glover Stock porphyry-style mineralization in the north, to the quartz-sulphidesulphosalt-bearing Number 1 Zone veins at the former Takla Silver Mine in the south (Figure 2). Limestone and marble along the eastern flank of the stock host the Cu-Au (Zn)-bearing Canyon Creek skarn which passes southwards into massive sphalerite-dominant mantos and carbonate replacements of the 2, 3 and 4B zones (Figure 2). The most southerly mineralization comprises a series of narrow, en echelon, polymetallic veins comprising the Number 1 Zone. These veins probably represent the most distal part of the

## TABLE 1A WHOLE ROCK AND TRACE ELEMENT ANALYTICAL DATA OF LEUCOCRATIC, MONZONITE SAMPLES, GLOVER STOCK, LUSTDUST PROPERTY

Sample	GR01-16	GR01-17	GR01-45	GR01-52	GR01-55	GR01-59	GR01-63	GR01-95	GR01-96	GR01-97	GR00-28	GR00-29	GR00-30	Average
41000	47.00	10.15	10.04	40.00	40.00	10.00	40.07	40.00	10.11	10.1	44.50	40.44	40.00	40.05
AI2O3	17.08	16.45	16.34	16.32	16.38	16.28	16.87	16.26	16.11	16.1	14.59	16.41	16.02	16.25
Eacoat	4.20	3.00	4.31	3.24	3.04	3.30	3.07	3.70	3.07	3.03	2.01	1.37	4.43	3.70
Fe2O31	1.04	2.14	4.01	3.11	4.27	3.30	4.24	4.14	4.00	4.09	1.04	1.30	7.55	3.14
MaO	4.75	0.68	1 18	1 36	1 55	1.58	1 /0	1 / 7	1 32	1.46	0.68	1 36	1.33	4.07
MgO	0.06	0.00	0.08	0.04	0.06	0.05	0.07	0.06	0.04	0.05	0.00	0.07	0.07	0.06
Na2O	3.81	4 79	4 16	4 36	4 21	4.05	4.09	4 35	4 17	4 33	4 31	4 53	3 44	4 20
P205	0.01	0.22	0.28	0.27	0.31	0.33	0.31	0.28	0.3	0.32	0.09	0.27	0.44	0.27
SiO2	62.78	62.57	61.53	64.35	63.6	64.44	63.82	63.96	60.85	63.45	70.39	62.58	61.94	63.56
TiO2	0.58	0.58	0.65	0.58	0.59	0.59	0.64	0.59	0.69	0.6	0.21	0.58	0.56	0.57
LOI	2.34	2.74	2.93	1.1	1.16	1.36	0.81	0.82	2.5	1.33	2.22	2.13	1.41	1.76
Sum	99.13	99.46	99.17	98.88	99.04	99.15	99.24	99.01	97.97	98.72	98.82	99.08	98.70	98.95
FeO	0.85	0.37	3.3	1.8	1.94	1.86	1.84	1.88	1.39	1.8	NA	NA	NA	1.70
Fe2O3C	0.90	1.73	0.34	1.77	2.11	1.31	2.20	2.05	2.54	2.09	1.84	1.38	1.62	1.25
5.0000/														
Fe2U3U/	0.54	0.00	0.00	0.50	0.50	0.44	0.54	0.50	0.05	0.54	NIA	NIA	NIA	0.54
(Fe203C+Fe0)	0.51	0.82	0.09	0.50	0.52	0.41	0.54	0.52	0.65	0.54	NA	NA	NA	0.51
K/Na	1.26	1.19	0.89	0.80	0.73	0.92	0.79	0.76	1.16	0.78	0.43	0.97	2.19	0.99
Ba	2570	2330	2610	2300	2370	2300	2320	2370	2260	2230	1070	2270	2440	2264 62
Rh	111	118	93.4	82.8	76.8	91.8	77.8	80.6	78.8	85.4	52	88	180	93.57
Sr	971	423	1250	1065	1050	961	1055	1060	1105	993	220	814	600	889 77
Nh	24	23	23	18	18	18	18	18	22	18	0	26	26	19.85
Zr	269	253	254	203	178	187.5	185.5	177	220	169	90	210	204	200.00
Y	19	18	17.5	13.5	13.5	13.5	14	13.5	17.5	13	10	26	30	16.85
Ce	133	134.5	131.5	98	92.5	.0.0	95.5	.0.0	123.5	92.5	NA	NA	NA	108.60
Co	3	3.5	7	6	6	5.5	4.5	5.5	4.5	7.5	NA	NA	NA	5.30
Cs	1.4	2	1.8	1.9	1.9	2.1	1.4	1.8	1.6	2	NA	NA	NA	1.79
Cu	15	45	40	130	55	190	85	90	410	360	NA	NA	NA	142.00
Dy	3.9	4	3.7	2.6	2.6	2.7	3	3	3.7	2.8	NA	NA	NA	3.20
Er	1.7	1.6	1.6	1.3	1.3	1.4	1.3	1.4	1.8	1.3	NA	NA	NA	1.47
Eu	2	1.9	1.9	1.3	1.6	1.5	1.4	1.5	1.7	1.4	NA	NA	NA	1.62
Ga	20	21	21	20	19	19	19	20	21	20	NA	NA	NA	20.00
Gd	5.8	6.2	5.5	4.7	4.5	4.3	4.3	4.5	5.7	4.3	NA	NA	NA	4.98
Hf	6	6	5	4	4	4	4	4	5	4	NA	NA	NA	4.60
Ho	0.6	0.6	0.6	0.5	0.4	0.5	0.4	0.5	0.6	0.4	NA	NA	NA	0.51
La	58.5	59.5	58.5	45	43	41.5	43.5	43.5	55	41.5	NA	NA	NA	48.95
Lu	0.3	0.3	0.2	0.1	0.1	0.2	0.1	0.1	0.3	0.2	NA	NA	NA	0.19
Nd	49	48	47.5	35.5	34.5	33	33.5	35	45.5	33.5	NA	NA	NA	39.50
Ni	30	25	10	<5	<5	<5	<5	<5	<5	15	NA	NA	NA	20.00
Pb	20	10	20	25	30	15	20	20	15	25	NA	NA	NA	20.00
Pr	13.9	14.2	13.9	10.2	10	9.5	9.9	9.9	13.2	9.3	NA	NA	NA	11.40
Sm	7.8	7.8	7.9	5.7	5.4	5.4	5.3	5.8	7.2	5.3	NA	NA	NA	6.36
Sn	1	2	1	<1	1	<1	<1	<1	1	1	NA	NA	NA	1.17
Та	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	NA	NA	NA	0.50
Tb	0.8	0.8	0.8	0.6	0.6	0.6	0.5	0.6	0.7	0.6	NA	NA	NA	0.66
Th	15	15	14	12	12	12	13	14	14	13	NA	NA	NA	13.40
TI	0.5	0.5	1.5	0.5	0.5	0.5	0.5	0.5	0.5	1	NA	NA	NA	0.65
Tm	0.3	0.3	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.1	NA	NA	NA	0.17
U	6.5	5	6	5.5	6	6.5	5.5	6	6	6	NA	NA	NA	5.90
V	65	65	75	70	75	85	105	80	85	80	NA	NA	NA	78.50
W	<1	2	1	<1	<1	4	<1	<1	<1	3	NA	NA	NA	2.50
Yb	1.9	1.7	1.5	1.1	1.1	1.2	1.3	1.5	1.6	1.3	NA	NA	NA	1.42
Zn	115	15	30	400	55	25	30	25	15	40	NA	NA	NA	75.00

Analyses completed by ALS Chemex, 212 Brookbank Ave, Vancouver, BC Major elements in percent; other elements in ppm; NA = sample not analyzed for the element

Major elements except FeO by XRF

FeO by HCI-HF digestion & titrimetric finish

Ba, Nb, Rb, Y and Zr by XRF

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Other elements by lithium meta-borate fusion and ICP-MS

Sample	description	and	location

oumple accomption c	ind looddon	
	UTM	UTM
GR01-16	346939	6162113 LD01-32, 340 ft chlorite-epidote altered crowded feldspar porphyry dike
GR01-17	346939	6162113 LD01-32, 349 ft crowded feldspar porphyry dike with moderate pyrite-sericite alteration
GR01-45	347080	6161207 LD93-7, 9.5m pale altered monzonite with 2% disseminated pyrite, altered hornblende and hydrothermal biotite
GR01-52	346495	6162132 LD01-34, 724 ft, monzonite
GR01-55	346495	6162132 LD01-34, 347 ft monzonite with some K-spar alteration
GR01-59	346495	6162132 LD01-34, 200 ft monzonite with minor pyrite
GR01-63	346495	6162132 LD01-34, 388 ft hornblende monzonite
GR01-95	346495	6162132 LD01-34, 392 ft. hornblende monzonite w pinkish feldspar crystalsstals up to 0.5 cm
GR01-96	346495	6162132 LD01-34, 399 ft. Medium grained hornblende monzonite
GR01-97	346495	6162132 LD01-34, 181 ft. Coarse grained hornblende monzonite with trace disseminated pyrite
GR00-28	346888	6161077 Narrow dike of light grey feldspathic monzonite
GR00-29	346950	6161770 DH20-25, 575 ft, Weakly altered crowded feldspar porphyry ?monzonite
GR00-30	347005	6161740 DH20-05, 415 ft, Megacrystic crowded feldspar ?monzonite. Moderate bleaching

# TABLE 1BWHOLE ROCK AND TRACE ELEMENT ANALYTICAL DATA OF MAFIC, DIORITIC SAMPLES,<br/>GLOVER STOCK, LUSTDUST PROPERTY

SAMPLE	GR01-69	GR01-70	GR01-71	GR01-72	GR01-73	GR01-74	GR01-86	GR01-107	GR01-108	GR00-27	Average
AI2O3	16.78	16.69	17.03	16.6	16.84	17.57	16.23	16.79	16.63	17.09	16.83
CaO	6.72	6.49	7.52	6.32	7.14	6.88	4.18	6.11	3.52	5.98	6.09
Fe2O3T	6.85	7.24	4.62	7.26	4.48	1.67	4.09	6.79	4.28	6.69	5.40
K2O	2.48	2.47	1.26	2.33	0.86	0.42	3.03	2.41	3.08	2.76	2.11
MqO	3.44	3.7	3.6	3.48	3.38	1.97	2.06	3.06	1.32	3.21	2.92
MnO	0.12	0.11	0.08	0.09	0.08	0.04	0.04	0.1	0.05	0.13	0.08
Na2O	4.34	4.07	4.97	3.99	4.64	6.08	3.74	4.23	4.32	4.14	4.45
P2O5	0.61	0.62	0.63	0.59	0.57	0.43	0.43	0.56	0.3	0.46	0.52
SiO2	55.91	55.66	56.85	55.54	56.88	62.4	61.93	57.2	63.79	57.09	58.33
TiO2	0.97	1	0.97	0.95	0.93	0.75	0.77	0.91	0.57	0.85	0.87
LOI	0.65	1.18	1.51	1.86	3.05	1.18	2.48	0.85	1.05	0.19	1.40
TOTAL	98.87	99.23	99.04	99.01	98.85	99.39	98.98	99.01	98.91	98.59	98.99
FeO	3.43	3.72	2.18	3.45	2.16	0.76	2.1	3.31	1.9	NA	2.56
Fe2O3C	3.03	3.10	2.19	3.42	2.08	0.82	1.75	3.11	2.17		2.55
Eo2O3C/											
(Fe2O3C+FeO)	0.47	0.45	0.50	0.50	0.49	0.52	0.45	0.48	0.53	NA	0.57
K/Na	0.57	0.61	0.25	0.58	0.19	0.07	0.81	0.57	0.71	0.67	0.50
Ba	2350	2160	1440	1985	851	611	1920	2100	2400	2130	1794 70
Bh	46.6	51 4	25	54.6	27.2	68	84.8	56.8	62.4	2150	48.16
Sr	1200	1180	1210	1175	11/0	1000	803	1100	1065	048	1100 10
Nh	1200	16	1210	16	16	1030	10	16	18	18	16.90
7r	196	182	189	192.5	198	206	182.5	181.5	194 5	162	188 40
Y	20.5	20.5	21.5	20	21.5	17	102.5	19.5	13 5	24	19 40
Ce	104	102.5	93.5	99.5	106.5	98.5	106	102	93		100.40
Co	11.5	15.5	22	13.5	100.5 Q	0.5	8	102	7	NA	11 00
Cs	12	1.8	0.9	2.8	2	0.5	49	3	0.8	NA	1 99
Cu	25	20	50	35	45	55	195	60	85	NA	63.33
Dv	4	44	44	43	4	3.2	3	4 1	3	NA	3.82
Fr	21	2	22	2	2	17	15	1.8	12	NA	1.83
Eu	2.1	2	1.9	2	2	1.7	1.6	2	1.5	NA	1.87
Ga	21	21	20	21	20	21	19	21	21	NA	20.56
Gd	6.1	6.3	6.4	6.5	6.1	5.3	5	6	4.4	NA	5.79
Hf	4	4	4	4	4	4	4	4	4	NA	4.00
Но	0.7	0.7	0.8	0.7	0.8	0.6	0.5	0.7	0.5	NA	0.67
La	43.5	43	37.5	43	47.5	43.5	47.5	43.5	42	NA	43.44
Lu	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.1	NA	0.26
Nd	45	42	41.5	41.5	44	39	39	41.5	34	NA	40.83
Ni	<5	<5	5	<5	<5	<5	<5	5	<5	NA	5.00
Pb	10	15	15	20	15	20	20	20	20	NA	17.22
Pr	11.8	11.4	10.8	11	11.5	10.7	11.3	11.2	10	NA	11.08
Sm	7.3	7.6	7.9	7.4	7.6	6.8	6.3	7.1	5.4	NA	7.04
Sn	<1	1	2	1	3	3	1	1	1	NA	1.63
Та	<0.5	<0.5	<0.5	< 0.5	<0.5	0.5	<0.5	<0.5	0.5	NA	0.50
Tb	0.8	0.8	0.9	0.9	0.9	0.6	0.7	0.8	0.6	NA	0.78
Th	9	8	8	8	9	12	9	10	12	NA	9.44
TI	<0.5	0.5	<0.5	0.5	0.5	<0.5	0.5	<0.5	0.5	NA	0.50
Tm	0.3	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.1	NA	0.26
U	3	3	4	3	4.5	4.5	4	3	7	NA	4.00
V	145	150	155	160	160	100	95	140	75	NA	131.11
W	<1	<1	3	1	3	1	6	3	<1	NA	2.83
Yb	1.9	1.8	2.2	1.7	2.1	1.7	1.4	1.8	1.1	NA	1.74
Zn	65	75	55	85	50	100	40	70	35	NA	63.89

Analyses completed by ALS Chemex, 212 Brookbank Ave, Vancouver, BC

Major elements in percent; other elements in ppm; NA = sample not analyzed for the element

Major elements except FeO by XRF

FeO by HCI-HF digestion & titrimetric finish

Ba, Nb, Rb, Y and Zr by XRF

Other elements by lithium meta-borate fusion and ICP-MS

#### Sample locations & descriptions

	UTM	UTM
GR01-69	346484	6161771 LD01-30, 395 ft weakly altered hornblende-biotite diorite with 15 % mafics
GR01-70	346484	6161771 LD01-30, 382 ft unaltered diorite
GR01-71	346484	6161771 LD01-30, 397 ft bleached & altered hornblende-biotite diorite
GR01-72	346484	6161771 LD01-30, 350 ft dark hornblende-biotite diorite, moderately chloritized. Some hairline pyrite veinlets
GR01-73	346484	6161771 LD01-30, 356 ft dark hornblende-biotite diorite, moderately chloritized. Some hairline pyrite veinlets
GR01-74	346484	6161771 LD01-30, 847 ft bleached, albitized and, chloritized monzonite with Mo-bearing veinlets
GR01-86	346448	6162051 LD01-36, 327 ft, grey, wkly porphyritic hornblende-biotite diorite. Moderate alteration & disseminated pyrite
GR01-107	346484	6161771 LD01-30, 134 to 150 ft. Unaltered hornblende diorite
GR01-108	346342	6162469 LD01-39, 467-547 ft. Biotite-hornblende diorite with trace pyrite veinlets
GR00-27	347003	6162467 Dark diorite with 8-10 % biotite-hornblende phenocrysts. Pyrite on fractures

Lustdust hydrothermal system; alternatively, they may represent high sulphidation mineralization that formed above another buried intrusion emplaced south of the Glover Stock (*see* Figure 9, Dunne and Ray, 2002, this volume).

Megaw (2001) notes that the manto and vein mineralization is strongly controlled by (1) the presence of carbonate hostrocks, (2) lithological contacts including dike and sill margins or limestone-tuff contacts, (3) bedding planes and faults, and (4) antiformal fold hinges.

Lustdust represents a classic intrusion-related system that exhibits distinct proximal to distal zoning, both in its mineralogy and metal chemistry (Evans, 1996; 1998; Megaw, 1999, 2000, 2001). Changes in the chemistry and estimated formation temperatures of the fluid inclusions throughout the system also reflect this zonation (Dunne and Ray, 2002, this volume). Outboard from the porphyry, Megaw (2001) notes that much of the mineralized belt is auriferous (>0.5 g/t Au). Assay data for the various styles of mineralization are shown in Tables 2A to 2E and the average values of the elements and metal ratios are presented in Table 3.

#### **PORPHYRY MINERALIZATION IN THE GLOVER STOCK**

The Glover Stock, which outcrops north and south of Canyon Creek, hosts molybdenite  $\pm$  chalcopyrite-bearing veinlets with classic porphyry-style alteration selvages. This mineralization is developed in both the dioritic and monzonitic phases; the best intersection are in drillhole LD01-39 which cut an 8.8m wide zone with 0.24 % Mo (Megaw, 2001). Mineralization is often associated with several generations of either barren or mineralized veins containing variable amounts of quartz, K feldspar, sericite, pyrite and rare tourmaline. Assay values on some of the mineralization are presented in Table 2A, and Megaw (2001) notes the following styles of porphyry-related alteration:

- 1. Tourmaline related to quartz veins that cut the diorite south of Canyon Creek. The tourmaline may occur in the veins (Photo 6), or as replacements of the diorite adjacent to the vein margins.
- 2. Early, generally barren K feldspar-quartz veins cut the stock (Photo 4) and also extend out into the hornfels (Photo 3).
- 3. Potassic alteration that includes: (a) secondary biotite selvages on mineralized veinlets, (b) secondary euhedral and/or "shreddy" biotite replacing primary biotite and hornblende, (c) secondary pervasive K feld-spar flooding and (d) weak to strong pervasive sericitic alteration of the intrusions.
- 3. Widespread late chloritization and epidotization of the igneous hornblendes and feldspars.

Porphyry-style mineralization in the Glover Stock includes:

- 1. Quartz-tourmaline veins containing minor pyrite and chalcopyrite (Photo 6).
- 2. Quartz-K feldspar-pyrite-chalcopyrite veinlets.



Figure 5. Comparative chondrite normalized rare earth element (REE) plots of the maximum and minimum element ranges (ppm) for the Hogem Batholith and the mafic dioritic and leucocratic monzonitic phases of the Glover Stock. Hogem Batholith data from Barrie (1993). Note the Light Rare Earth Element (LREE) enrichment in the Glover Stock relative to the Hogem Batholith.

- 3. Quartz-K feldspar-pyrite-molybdenite veinlets (Photos 4 and 5).
- 4. Younger quartz-K feldspar ± pyrite veinlets that cut the Mo-bearing veins (Photo 5).
- 5. Igneous hornblendes that are replaced, in turn, by specularite and then magnetite containing interstitial chalcopyrite.
- 6. Open sigmoidal cavities lined with early quartz-K feldspar-pyrite and then filled with specularite, epidote and rare, late garnet.

TABLE 2A	
ASSAY DATA OF GLOVER STOCK PORPHYRY SAMPLES, I	LUSTDUST PROPERTY

No.	IWE01-2	GR01-50	GR01-51	GR01-53	GR01-58
Ag	0.2	0.4	0.36	0.6	0.42
As	50	66.2	64.6	9.6	5
Au	4	6	2	9	4
Bi	0.4	0.7	0.2	1.1	0.3
Cd	< 0.20	6.98	2.1	10.45	2.66
Ce	98	91.5	83.2	78.9	72.6
Со	7	3.5	3.4	6.9	6.2
Cr	90	112	57	177	97
Cu	119.2	80	46.8	165.9	117.1
F	450	660	910	780	740
Fe	3.09	1.2	1.08	1.99	1.38
Ga	22	15.15	19.4	18.55	15.8
Ge	< 0.50	0.2	0.2	0.2	0.15
Hg	<10	10	<10	<10	<10
In	0.05	0.09	0.025	0.125	0.03
Κ	2.41	2.7	3.03	2.57	2.13
La	55	56	50.5	46	43.5
Mg	1.06	0.48	0.71	0.62	0.6
Mn	600	90	120	135	135
Мо	5.5	201	362	866	899
Na	3.08	2.17	2.32	2.24	2.07
Nb	22	10	11.7	12.5	10.4
Ni	16	4.8	4	6.2	5.4
Р	1700	1030	970	990	900
Рb	65	15	13.5	51.5	10.5
S	< 0.10	0.71	0.35	1.12	0.74
Sb	52	6.95	4.9	45.85	3.4
Se	<10	<1	<1	1	1
Sn	<2.0	0.6	0.8	0.8	0.8
Te	< 0.50	0.2	0.05	0.5	0.25
Tl	1	0.86	0.9	0.78	0.9
U	3	4.1	4.7	4.5	3.9
W	1	8.8	2.5	2.4	2.9
Zn	120	708	134	838	38

The paragenesis of the porphyry Momineralization is:

- 1. Quartz-tourmaline-pyrite ± chalcopyrite (early pre-mineralization).
- 2. Quartz-K feldspar-pyrite-chalcopyrite (early mineralization phase).
- 3. Quartz-pyrite-molybdenite-chalcopyrite-bornite (main mineralization phase).
- 4. Quartz-sericite-pyrite-chalcopyrite (late mineralization phase).
- 5. Quartz-pyrite (post-mineralization).

#### CANYON CREEK SKARN

The Canyon Creek skarn (Megaw, 1999) forms a north-trending, garnet-dominant body that mostly lies east of the Glover Stock (Figure 2). It is usually hosted by limestones but has also replaced argillite, hornfels and clastic tuff, as well as some intrusive rocks to produce endoskarn. Garnet is the most abundant prograde mineral; it may exceed 80 % of the skarn and forms coarse-grained, euhedral

Analytical methods etc., for Tables 2A - 2F.
Analyses performed at ALS Chemex, 212 Brooksbank Avenue, North Vancouver, B.C. V7J 2C1
Au by fire assay and Induced Coupled Plasma-Mass Spectrometry (ICP-MS); reported in ppb
F by carbonate nitrate fusion and specific ion electrode finish; reported in ppm
All other elements analyzed by combined ICP-MS and ICP-Atomic Emission Spectroscopy. Hg & Au reported in ppb
Fe, K, Mg, Na and S reported in per cent. All other elements in ppm. $<=$ below detection limit.
Note: ICP-MS detections levels were raised for some samples to reflect high-grade sulphide analysis.
Locations using NAD 83, UTM Zone 10 co-ordinates. Sample descriptions & locations:
IWE01-2: Sub-crop of hornblende-biotite monzonite with pyrite and trace chalcopyrite. 346428E 6162162N
GR01-50: LD01-34; 559 feet. Coarse grained monzonite with disseminations and veinlets of pyrite and trace molybdenite. 346495E 6162133N
GR01-51: LD01-34; 540 feet. Coarse grained monzonite with disseminations and veinlets of pyrite-molybdenite. 346495E 6162133N
GR01-53: LD01-34; 456 feet. Monzonite with molybdenite-quartz-pyrite veins and trace chalcopyrite. 346495E 6162133N
GR01-58: LD01-34; 221 feet. Monzonite cut by quartz-pyrite-molybdenite veinlets. 346495E 6162133N

crystals that reach 1 cm in diameter. Clinopyroxene is far less common, forming between 0 and 15 % by volume and occurring as small (<0.25 mm) euhedral to subhedral crystals. Where later hydrous alteration has taken place, the relict clinopyroxene is extensively corroded and partially replaced by fine-grained chlorite, carbonate and possible hydrobiotite (Leitch, 2001a). Other retrograde minerals include up to 20% calcite, 10% quartz, and variable quantities of amphibole, biotite and chlorite (Leitch, 2001a). Minor amounts of epidote, vesuvianite and wollastonite have also been seen, the latter tending to occur along the outermost contact between garnet skarn and marble.

In surface outcrop, the garnets mostly form pale yellow-green to pale greenish brown crystals, but locally they are cut by younger veins of dark brown garnet. Megaw (1999, 2001) notes that the younger, darker, and presumably more Fe-rich garnet becomes dominant with depth. In thin section, the pale garnets occur as highly fractured, euhedral to subhedral crystals that have a distinctive yellow-green colour (Leitch, 2001a). They exhibit minor anomalous anisotropism and prominent zoning that is partly due to the

| 158.5         12.3         17.9         154.5         149         161.5         283           8500         1600         1201         5100         5100         1000         117         81         3           63.9         9.4.4         81         7.3         91         81         71.2         81         3           63.9         9.4.4         81         7.48         3.3         91         81         3           361         2.6.6         8.4         2.8.6         21.3         9.0         140         119           7100         2.101         300         1300         4.601         166.00         3800         3560           202         12.3         12.75         14.15         13.15         18.75         11           6         8.5         10.5         14.35         18.15         18.75         19           6         8.5         10.5         14.35         18.15         18.75         19           7         10.6         10.7         2.00         360         3560         360         360           7         10.5         11.5         14.15         13.15         18.75         19   
  | 158.5         12.3         179         154.5         149         165         28.           8500         1600         1210         5100         3100         1060         1712         81           63.9         9.14         8.1         7.8         31         91         81         13           63.9         9.14         8.1         7.8         33         91         81         13           21.3         33.2         52.4         397         489         17.2         199           361         2.66         8.4         28.6         21.3         91         81         15         18           7100         2.01         300         200         230         200         3360         3360           201         2.01         130         14.15         18.15         18.15         18         91         91           202         103         200         200         200         303         300         1356           203         105         10         105         11         125         11         13         91         11           157         105         101         201         201   
   
  | 158.5         123         179         154.5         149         1615         23           8500         1600         1210         5100         3100         1060         171         88           63.9         9.14         8.1         7.83         31         91         81         13         91         81           21.3         33.2         52.4         39.7         48.9         17.2         89         9           361         2.66         8.4         2.86         7.0         148         17.2         81           361         2.00         1300         1300         4660         1475         181         81         9         181           7100         2.10         100         1300         4600         1300         3360         3360         3360         3360           2105         103         200         200         200         300         300         336         13         <  
  | 158.5         123         179         154.5         149         1615         22           8500         6.00         1210         5100         3100         1060         117.2         81           710         549         9.14         8.1         7.48         3.3         9.1         8:           6.3         9.14         8.1         7.48         3.3         9.1         8:           5.3         5.4         39.7         4.89         17.2         19:           7100         2140         13800         4600         16600         300         138           7100         2140         13800         4600         16600         300         138           210         300         200         200         200         200         380         138           210         300         200         200         200         200         380         138           215         14.5         14.5         13.15         18.5         13.5         13.5           210         201         201         201         201         201         13.3         9.           215         4.15         3.15         14.5  
  | 158.5         123         179         154.5         149         1615         22           71.0         54.0         120         51.0         51.0         31.0         106.1         21.3           71.0         54.0         12.0         51.0         51.0         31.0         106.0         117.2         81           71.0         54.0         8.4         28.6         8.4         28.6         117.2         181           710.0         2140         13800         46.00         166.00         300         316         131.5         141.5 <th>158.5         123         179         154.5         149         161.5         23           71.0         5.00         10.00         11.0         5.00         31.00         10.60         11.2         81           71.0         5.00         13.0         10.60         11.0         5.00         31.0         10.60         11.1         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         81.5         71.2         81         81.5         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81      
  71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81&lt;</th> <th>158.5         123         179         154.5         149         1615         23           <math>71.0</math> <math>50.0</math> <math>12.0</math> <math>51.0</math> <math>51.0</math> <math>51.0</math> <math>10.0</math> <math>11.1</math> <math>71.0</math> <math>55.0</math> <math>52.4</math> <math>39.7</math> <math>48.9</math> <math>11.2</math> <math>81.1</math> <math>21.3</math> <math>33.2</math> <math>52.4</math> <math>39.7</math> <math>48.9</math> <math>17.2</math> <math>19.9</math> <math>361</math> <math>21.66</math> <math>8.4</math> <math>28.6</math> <math>8.4</math> <math>28.6</math> <math>21.3</math> <math>91</math> <math>81.7</math> <math>7100</math> <math>2100</math> <math>1380</math> <math>4115</math> <math>113.15</math> <math>18.75</math> <math>11.3</math> <math>91</math> <math>2105</math> <math>91.9</math> <math>20.2</math> <math>14.35</math> <math>14.15</math> <math>13.15</math> <math>82.7</math> <math>11.3</math> <math>91</math> <math>13.35</math> <math>20.2</math> <math>12.5</math> <math>14.15</math> <math>13.15</math> <math>13.15</math> <math>11.3</math> <math>91</math> <math>13.35</math> <math>21.5</math> <math>91.7</math> <math>10.7</math> <math>20.7</math> <math>11.3</math> <math>91</math> <math>13.35</math> <math>20.7</math> <math>10.6</math> <math>10.6</math> <math>10.7</math> <math>20.5</math> <math>11.3</math> <math>11.3</math></th> <th>158.5         12.3         17.9         15.5.5         14.9         16.15         2           71.0         5.9         0.9         31.0         31.0         31.0         10.0         11.2         2           <math>63.9</math>         9.14         81         7.48         33         9.11         8         71.2         19         8           <math>63.9</math>         9.14         81         7.48         33         9.11         8         71.2         19         8         71.2         19         165         19         165         19         165         19         165         19         17.2         19         17         10         17         10         17         19         17         10</th> <th>158.5         123         179         154.5         149         1615           710         5.9         9.14         81         7.48         310         100         112           <math>63.9</math>         9.14         81         7.48         313         9.12         149         1615           <math>710</math>         5.0         332         5.2.4         337         48.9         172         14           <math>7100</math>         2140         13800         46600         13800         143         112         14           <math>7100</math>         210         300         200         230         200         339         1           <math>2125</math>         143         113         1415         1315         18.75         1         1           <math>202</math>         143         143         143         133         133         1         1         2           <math>203</math>         0.01         0.01         200         230         200         333         1         1           <math>2105</math>         105         0.01         201         201         1333         1         1         2         1         1         1         3         3         1         1</th> <th>158.5         12.3         17.9         15.45         14.9         16.15         17.2           <math>710</math> <math>500</math> <math>500</math> <math>500</math> <math>5100</math> <math>3100</math> <math>1000</math> <math>1120</math> <math>5100</math> <math>3100</math> <math>1000</math> <math>112</math> <math>633</math> <math>9.14</math> <math>81</math> <math>748</math> <math>313</math> <math>9112</math> <math>191</math> <math>81</math> <math>361</math> <math>256</math> <math>84</math> <math>286</math> <math>84</math> <math>286</math> <math>2133</math> <math>9112</math> <math>1912</math> <math>191</math> <math>71000</math> <math>21000</math> <math>1300</math> <math>4600</math> <math>1600</math> <math>1600</math> <math>330</math> <math>112</math> <math>71000</math> <math>2100</math> <math>1300</math> <math>200</math> <math>230</math> <math>200</math> <math>330</math> <math>112</math> <math>71000</math> <math>100</math> <math>100</math> <math>100</math> <math>100</math> <math>100</math> <math>300</math> <math>112</math> <math>200</math> <math>200</math> <math>230</math> <math>201</math> <math>401</math> <math>102</math> <math>114</math> <math>113</math> <math>2105</math> <math>100</math> <math>1001</math> <math>4001</math> <math>4001</math> <math>1001</math> <math>400</math> <math>1001</math> <math>400</math> <math>1001</math> <math>101</math> <math>1010</math></th> <th>158.5         12.3         17.9         154.5         14.9         161.5         222           <math>8500</math>         1600         120         5100         300         1000         1170           <math>633</math>         9.14         81         7.48         33         91         817.2         819.3           <math>613</math>         2.21         33.2         5.2.4         397         489         17.2         819.3           <math>361</math>         2.6.6         8.4         2.86         2.1.3         87         91         817           <math>361</math>         2.00         1.00         1.16         0.0         1.60         1300           <math>7100</math>         2.00         300         2.00         4.60         4.90         140           <math>7100</math>         2.00         1.00         1.60         100         2.00         1300           <math>7100</math>         2.00         4.00         4.60         3.80         3.30         3.30           <math>7100</math>         100         100         1.60         100         2.00         140         10           <math>7100</math>         145         145         145         145         143         133         9.1           <math>625</math></th> <th>158.5         123         179         154.5         149         161.5         222           710         63.9         9.14         81         7.48         33         9.1         81.8           710         53.0         100         110         71.2         81.9           331         23.2         52.4         39.7         48.9         17.2         81.9           341         2.66         8.4         2.80         1460         1660         17.2         81.9           341         2.81         2.81         39.7         48.9         17.2         81.9         14.9           71000         21400         13800         46.60         16.60         38000         3800         1360           210         300         200         230         230         200         380         136           215         14.3         14.3         14.3         14.3         14.3         14.3         10.1         136           215         14.3         14.3         14.3         14.3         14.3         14.3         10.1         136           215         14.3         14.3         14.3         14.3         14.3         14.3&lt;</th> <th>158.         123         179         154.5         149         1615         203           710         500         120         510         510         310         105         117           8500         100         113         31         213         31         91         818           361         2.66         84         2.81         2.84         31         91         818           361         2.66         84         2.86         7.48         33         91         818           7100         2140         1390         4660         1660         300         300         136           202         123         127.5         1415         131.5         181.5         81           203         200         203         200         300         300        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202         233         1315         818         135         813           <math>2103</math>         103         200         230         200         3360         3360         3360           <math>2103</math>         103         201         401         201         301         136         815         1315         815         815         1315         818         1315         818         1316         136         136         136         136         136         136         136         136         1315         1315</th> <th>158.5         123         173     
   154.5         165         222           710         500         120         510         510         310         165         313           710         500         131         514         31         31         91         81           710         530         914         81         7.48         33         91         81           213         332         52.4         397         489         172         817           311         91         116         94         126         91         91         91           211         300         200         230         203         3360         3360           202         143         116         91         116         91         113         91           201         010         010         011         01         011         91         113           202         145         145         145         145         145         145           155         145         145         145         146         07         10           151         143         155         145         145         <t< th=""></t<></th> | 158.5         123         179         154.5         149         161.5         23           71.0         5.00         10.00         11.0         5.00         31.00         10.60         11.2         81           71.0         5.00         13.0         10.60         11.0         5.00         31.0         10.60         11.1         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         71.2         81         81.5         71.2         81         81.5         71.2         81<  
   | 158.5         123         179         154.5         149         1615         23 $71.0$ $50.0$ $12.0$ $51.0$ $51.0$ $51.0$ $10.0$ $11.1$ $71.0$ $55.0$ $52.4$ $39.7$ $48.9$ $11.2$ $81.1$ $21.3$ $33.2$ $52.4$ $39.7$ $48.9$ $17.2$ $19.9$ $361$ $21.66$ $8.4$ $28.6$ $8.4$ $28.6$ $21.3$ $91$ $81.7$ $7100$ $2100$ $1380$ $4115$ $113.15$ $18.75$ $11.3$ $91$ $2105$ $91.9$ $20.2$ $14.35$ $14.15$ $13.15$ $82.7$ $11.3$ $91$ $13.35$ $20.2$ $12.5$ $14.15$ $13.15$ $13.15$ $11.3$ $91$ $13.35$ $21.5$ $91.7$ $10.7$ $20.7$ $11.3$ $91$ $13.35$ $20.7$ $10.6$ $10.6$ $10.7$ $20.5$ $11.3$ $11.3$  
  | 158.5         12.3         17.9         15.5.5         14.9         16.15         2           71.0         5.9         0.9         31.0         31.0         31.0         10.0         11.2         2 $63.9$ 9.14         81         7.48         33         9.11         8         71.2         19         8 $63.9$ 9.14         81         7.48         33         9.11         8         71.2         19         8         71.2         19         165         19         165         19         165         19         165         19         17.2         19         17         10         17         10         17         19         17         10  
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  | 158.5         12.3         17.9         15.45         14.9         16.15         17.2 $710$ $500$ $500$ $500$ $5100$ $3100$ $1000$ $1120$ $5100$ $3100$ $1000$ $112$ $633$ $9.14$ $81$ $748$ $313$ $9112$ $191$ $81$ $361$ $256$ $84$ $286$ $84$ $286$ $2133$ $9112$ $1912$ $191$ $71000$ $21000$ $1300$ $4600$ $1600$ $1600$ $330$ $112$ $71000$ $2100$ $1300$ $200$ $230$ $200$ $330$ $112$ $71000$ $100$ $100$ $100$ $100$ $100$ $300$ $112$ $200$ $200$ $230$ $201$ $401$ $102$ $114$ $113$ $2105$ $100$ $1001$ $4001$ $4001$ $1001$ $400$ $1001$ $400$ $1001$ $101$ $1010$   | 158.5         12.3         17.9         154.5         14.9         161.5         222 $8500$ 1600         120         5100         300         1000         1170 $633$ 9.14         81         7.48         33         91         817.2         819.3 $613$ 2.21         33.2         5.2.4         397         489         17.2         819.3 $361$ 2.6.6         8.4         2.86         2.1.3         87         91         817 $361$ 2.00         1.00         1.16         0.0         1.60         1300 $7100$ 2.00         300         2.00         4.60         4.90         140 $7100$ 2.00         1.00         1.60         100         2.00         1300 $7100$ 2.00         4.00         4.60         3.80         3.30         3.30 $7100$ 100         100         1.60         100         2.00         140         10 $7100$ 145         145         145         145         143         133         9.1 $625$       
   | 158.5         123         179         154.5         149         161.5         222           710         63.9         9.14         81         7.48         33         9.1         81.8           710         53.0         100         110         71.2         81.9           331         23.2         52.4         39.7         48.9         17.2         81.9           341         2.66         8.4         2.80         1460         1660         17.2         81.9           341         2.81         2.81         39.7         48.9         17.2         81.9         14.9           71000         21400         13800         46.60         16.60         38000         3800         1360           210         300         200         230         230         200         380         136           215         14.3         14.3         14.3         14.3         14.3         14.3         10.1         136           215         14.3         14.3         14.3         14.3         14.3         14.3         10.1         136           215         14.3         14.3         14.3         14.3         14.3         14.3< | 158.         123         179         154.5         149         1615         203           710         500         120         510         510         310         105         117           8500         100         113         31         213         31         91         818           361         2.66         84         2.81         2.84         31         91         818           361         2.66         84         2.86         7.48         33         91         818           7100         2140         1390         4660         1660         300         300         136           202         123         127.5         1415         131.5         181.5         81           203         200         203         200         300         300         136           210         201         401         10         20         30         136         91           215         135         135         131         135         82         91         136           215         001         401         20         20         91         140         17           215         135<   | 158.5         123         179         154.5         149         165         222 $710$ 500         120         510         510         310         110         313 $710$ 500         123         332         52.4         397         489         172         313 $311$ 2.66         81         7.48         33         9.1         819 $311$ 2.66         81         7.48         33         9.1         819 $71000$ 21400         1380         46600         16600         58000         33600 $2102$ 103         202         233         1315         818         135         813 $2103$ 103         200        
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700         700<td>2.20         700         710         500         710         500         710         500         710         500         710         500         710         500         710         500         710         510         510         511         713         312         514         377         480         712         811         713         9111         911         911         911<!--</td--><td>2.20         700</td></td></td> | 2.20 $600$ $1.71$ $310$ $1000$ $1.71$ $310$ $1000$ $1.71$ $3111$ $3111$ $3111$ $3111$ $3111$ $3111$ $3111$ $3111$ $3111$ $3111$ $3111$ $31111$ $31111$ $31111$ $31111$ $31111$ $31111$ $31111$ $31111$ $31111$ $311111$ $311111$ $311111$ $3111111$ $3111111111111111111111111111111111111$  | 2.20         700 <td>2.20         700         710         500         710         500         710         500         710         500         710         500         710         500         710         500         710         510         510         511         713         312         514         377         480         712         811         713         9111         911         911         911<!--</td--><td>2.20         700</td></td> | 2.20         700         710         500         710         500         710         500         710         500         710         500         710         500         710         500         710         510         510         511         713         312         514         377         480         712         811         713         9111         911         911         911 </td <td>2.20         700</td>                                 
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| 385         213         332         52.4         397         489         172         1996           7         361         2.66         8.4         2.86         213         3         3         3           9         7         144         119         90         114         70         140         3600         3800         360         3600         360         3600         360         360         360         3600         360         3600         3600         3600         360         360         360         360         360         360         360         360         360         360         360         360         360         360         360         360         360         360         360 <t< td=""><td>38.5         2.1.3         33.2         5.2.4         39.7         4.8.9         17.2         19.9           7         36.1         2.6.6         8.4         2.8.6         2.1.3         8         9.9           9.6         7100         2.100         2.900         14.6         7.1.3         8         9.3           400         2.100         2.100         1.00         1.00         1.00         3.00         3.35           6.09         2.02         1.2.3         1.2.5         1.4.15         1.3.15         1.8.75         1.1           20.5         6.25         9.8         2.02         1.4.35         18.15         1.8.75         1.1           21.0         1.01         2.01         -0.01         -0.01         -0.01         3.03         0.00           10.1         1.05         1.0         -0.01         -0.01         -0.01         0.01         1.0         1.1           11.2         1.5         1.1         1.25         1.1         1.25         1.1         1.1           11.0         1.15         1.15         1.15         1.15         1.13         1.1         1.1           11.2         1.15         1.1</td><td>385 <math>213</math> <math>332</math> <math>524</math> <math>397</math> <math>489</math> <math>172</math> <math>199</math>           7         <math>341</math> <math>256</math> <math>84</math> <math>286</math> <math>213</math> <math>8</math> <math>9</math>           96         <math>1144</math> <math>119</math> <math>90</math> <math>115</math> <math>113</math> <math>113</math> <math>113</math> <math>113</math>           96         <math>2100</math> <math>2100</math> <math>1300</math> <math>4600</math> <math>3000</math> <math>3300</math> <math>400</math> <math>2102</math> <math>123</math> <math>1275</math> <math>1415</math> <math>1315</math> <math>1875</math> <math>1</math> <math>2055</math> <math>6.53</math> <math>98</math> <math>202</math> <math>1435</math> <math>1600</math> <math>300</math> <math>3303</math> <math>100</math> <math>2001</math> <math>-001</math> <math>-001</math> <math>-001</math> <math>201</math> <math>213</math> <math>911</math> <math>1192</math> <math>160</math> <math>100</math> <math>222</math> <math>1435</math> <math>1650</math> <math>141</math> <math>113</math> <math>911</math> <math>112</math> <math>213</math> <math>2133</math> <math>213</math> <math>213</math>         &lt;</td><td>385 <math>21.3</math> <math>33.2</math> <math>52.4</math> <math>39.7</math> <math>489</math> <math>17.2</math> <math>19.4</math> <math>7</math> <math>341</math> <math>2.66</math> <math>8.4</math> <math>2.86</math> <math>2.13</math> <math>8</math> <math>9</math> <math>96</math> <math>71000</math> <math>21000</math> <math>13800</math> <math>4600</math> <math>58000</math> <math>38000</math> <math>3336</math> <math>400</math> <math>2102</math> <math>1200</math> <math>13800</math> <math>4600</math> <math>58000</math> <math>3800</math> <math>3336</math> <math>609</math> <math>202</math> <math>123</math> <math>12.75</math> <math>14.15</math> <math>13.15</math> <math>18.75</math> <math>7.7</math> <math>100</math> <math>200</math> <math>300</math> <math>200</math> <math>3000</math> <math>3360</math> <math>3333</math> <math>205</math> <math>6.55</math> <math>9.8</math> <math>20.2</math> <math>14.35</math> <math>18.15</math> <math>13.3</math> 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        230         200         <math>380</math> <math>1315</math> <math>112</math> <math>15.7</math> <math>10.6</math> <math>10</math> <math>20.1</math> <math>40.13</math> <math>1315</math> <math>131</math> <math>112</math> <math>15.7</math> <math>14.15</math> <math>1315</math> <math>132</math> <math>1312</math> <math>1312</math> <math>112</math> <math>15.75</math> <math>11.13</math> <math>125</math> <math>11.14</math> <math>1133</math> <math>010</math></td><td>385         21.3         332         52.4         397         489         172         193           7         361         2.66         8.4         2.86         2.13         3.8         9           9         0         144         119         900         46601         5600         380         313           9         0         210         300         200         230         200         380         13           6.09         2.02         12.3         12.75         14.15         13.15         88.7         7         7           6.09         2.02         12.3         12.75         14.15         13.15         88.7         7         7           6.09         2.02         12.3         12.5         14.3         13.15         88.7         7</td><td>385         213         332         52.4         397         489         172         193           7         361         26.6         8.4         28.6         21.3         8         9           96         7100         2100         300         460         300         3600         3800         3800         3830         313           400         210         200         230         200         3800         313           609         202         12.3         12.5         14.15         13.15         18.75         1           205         6.25         98         20.2         14.35         18.15         13.15         18.75         1           210         0.01         -0.01         -0.01         -0.01         -0.01         20.05         78           112         15.7         10.6         10         20         20.7         11.3         20.7           112         15.7         10.6         10         20.1         4.05         78         0.0           205         16.0         1455         15.9         17         20.9         17         20.9         17           122.5         15.6</td><td>385         213         332         52,4         397         489         172         19           7         361         2.66         <math>8.4</math>         2.86         <math>2.13</math> <math>8.9</math>         7.03         <math>3.01</math> <math>3.00</math> <math>3.</math></td><td>385 <math>213</math> <math>332</math> <math>524</math> <math>397</math> <math>489</math> <math>172</math> <math>112</math> <math>112</math> <math>112</math> <math>112</math> <math>112</math> <math>112</math> <math>112</math> <math>112</math> <math>113</math> <math>00</math> <math>115</math> <math>00</math> <math>115</math> <math>00</math> <math>113</math> <math>00</math> <math>115</math> <math>00</math> 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    12.3         12.75         <math>1.4.5</math>         13.15         <math>18.75</math> <math>1.7</math>           609         2.02         12.3         12.75         <math>1.4.5</math> <math>13.15</math>
<math>18.75</math> <math>1.7</math>           609         2.02         12.3         12.5         <math>1.4.5</math> <math>1.35</math> <math>13.75</math> <math>1.4.5</math> <math>13.75</math> <math>1.4.5</math> <math>13.75</math> <math>1.4.5</math> <math>1.7</math> <math>1.7</math><td>38.5         2.13         3.24         5.44         3.97         4.89         1.72         1995           7         3.61         2.66         8.4         2.86         5.91         2.60         389         2.93           9.8         71000         2.10         3.80         4.605         1.60         3800         3600         3800         3600         3800         3600         3800         3600         3800         3600         3800         3600         3800         3800         3590         359         <t< td=""><td>381         213         332         52,4         397         489         172         1995           7         361         2.66         84         2.60         590         590         390          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      84         266         213         89         172           98         71000         2400         1360         3600         3600         3800         3300           400         210         300         230         230         230         300         3300           400         210         300         2300         2300         2300         3600         3300           609         202         123         123         123         123         1315         815         11           100         40         10         201         401         70         30         30           112         113         113         113         113         113         113         91           123         413         60         143         113         113         91         10           113         113         116         11         125         113         113         113         113           113         113         113         113         113         113</td></t<><td>365         213         322         524        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3830           966         71000         2140         1380         4660         16600         3800         3830           400         210         230         200         230         200         380         3860           400         210         213         123         1315         1315         1315         135           203         010         210         123         123         1315         1315         132           203         055         105         07         200         201         101         201         101           112         106         10         -001         -001         -001         201         125         125           113         113         114         114         114         113         201         125           114         213         116         114         53         117         203         203           115         125         155         116         146</td></t<></td></td></td></t<> | 38.5         2.1.3         33.2         5.2.4         39.7         4.8.9         17.2         19.9           7         36.1         2.6.6         8.4         2.8.6         2.1.3         8         9.9           9.6         7100         2.100         2.900         14.6         7.1.3         8         9.3           400         2.100         2.100         1.00         1.00         1.00         3.00         3.35           6.09         2.02         1.2.3         1.2.5         1.4.15         1.3.15         1.8.75         1.1           20.5         6.25         9.8         2.02         1.4.35         18.15         1.8.75         1.1           21.0         1.01         2.01         -0.01         -0.01         -0.01         3.03         0.00           10.1         1.05         1.0         -0.01         -0.01         -0.01         0.01         1.0         1.1           11.2         1.5         1.1         1.25         1.1         1.25         1.1         1.1           11.0         1.15         1.15         1.15         1.15         1.13         1.1         1.1           11.2         1.15         1.1   
   
   | 385 $213$ $332$ $524$ $397$ $489$ $172$ $199$ 7 $341$ $256$ $84$ $286$ $213$ $8$ $9$ 96 $1144$ $119$ $90$ $115$ $113$ $113$ $113$ $113$ 96 $2100$ $2100$ $1300$ $4600$ $3000$ $3300$ $400$ $2102$ $123$ $1275$ $1415$ $1315$ $1875$ $1$ $2055$ $6.53$ $98$ $202$ $1435$ $1600$ $300$ $3303$ $100$ $2001$ $-001$ $-001$ $-001$ $201$ $213$ $911$ $1192$ $160$ $100$ $222$ $1435$ $1650$ $141$ $113$ $911$ $112$ $213$ $213$ $213$ $213$ $213$ $213$ $213$ $213$ $213$ $213$ $213$ $213$ $213$ $2133$ $213$ $213$ <   
   | 385 $21.3$ $33.2$ $52.4$ $39.7$ $489$ $17.2$ $19.4$ $7$ $341$ $2.66$ $8.4$ $2.86$ $2.13$ $8$ $9$ $96$ $71000$ $21000$ $13800$ $4600$ $58000$ $38000$ $3336$ $400$ $2102$ $1200$ $13800$ $4600$ $58000$ $3800$ $3336$ $609$ $202$ $123$ $12.75$ $14.15$ $13.15$ $18.75$ $7.7$ $100$ $200$ $300$ $200$ $3000$ $3360$ $3333$ $205$ $6.55$ $9.8$ $20.2$ $14.35$ $18.15$ $13.3$ $9.7$ $1102$ $4001$ $-001$ $-001$ $2001$ <   
   | 385 $21:3$ $332$ $52.4$ $397$ $489$ $112$ $195$ 7         3d1         2.66 $8.4$ 2.86 $8.4$ 2.86 $123$ $123$ 96         7100         2.103         300         4600         16600 $5800$ $300$ $124$ $400$ 2.10         300         200         230         200         380 $131$ $609$ 2.02         12.3         12.75 $14.15$ $1315$ $18.75$ $131$ $609$ 2.02         12.3         12.75 $14.35$ $14.15$ $1315$ $132$ $600$ 2.03         200         200         230         200 $380$ $1315$ $112$ $15.7$ $10.6$ $10$ $20.1$ $40.13$ $1315$ $131$ $112$ $15.7$ $14.15$ $1315$ $132$ $1312$ $1312$ $112$ $15.75$ $11.13$ $125$ $11.14$ $1133$ $010$   
   | 385         21.3         332         52.4         397         489         172         193           7         361         2.66         8.4         2.86         2.13         3.8         9           9         0         144         119         900         46601         5600         380         313           9         0         210         300         200         230         200         380         13           6.09         2.02         12.3         12.75         14.15         13.15         88.7         7         7           6.09         2.02         12.3         12.75         14.15         13.15         88.7         7         7           6.09         2.02         12.3         12.5         14.3         13.15         88.7            
   
  | 385         213         332         52.4         397         489         172         193           7         361         26.6         8.4         28.6         21.3         8         9           96         7100         2100         300         460         300         3600         3800         3800         3830         313           400         210         200         230         200         3800         313           609         202         12.3         12.5         14.15         13.15         18.75         1           205         6.25         98         20.2         14.35         18.15         13.15         18.75         1           210         0.01         -0.01         -0.01         -0.01         -0.01         20.05         78           112         15.7         10.6         10         20         20.7         11.3         20.7           112         15.7         10.6         10         20.1         4.05         78         0.0           205         16.0         1455         15.9         17         20.9         17         20.9         17           122.5         15.6   
   | 385         213         332         52,4         397         489         172         19           7         361         2.66 $8.4$ 2.86 $2.13$ $8.9$ 7.03 $3.01$ $3.00$ $3.$   
   | 385 $213$ $332$ $524$ $397$ $489$ $172$ $112$ $112$ $112$ $112$ $112$ $112$ $112$ $112$ $113$ $00$ $115$ $00$ $115$ $00$ $113$ $00$ $115$ $00$ $1300$ $200$ $3300$ $113$ $00$ $115$ $18.75$ $18.75$ $18.75$ $18.75$ $11$ $00$ $330$ $11300$ $46600$ $5300$ $3300$ $11$ $210$ $3800$ $113$ $18.75$ $11$ $113$ $20$ $114$ $113$ $20$ $114$ $113$ $20$ $114$ $113$ $20$ $114$ $113$ $20$ $114$ $113$ $20$ $114$ $113$ $20$ $114$ $113$ $20$ $114$ $113$ $20$ $114$ $113$ $20$ $114$ $113$ $20$ $114$ $113$ $20$ $114$ $113$ $20$ $114$ $113$ $2$   
   | 385         213         332         52.4         397         489         172         19           7         361         2.66 $8.4$ 2.86 $2.13$ $3.2$ $5.24$ $3.97$ $4.89$ $172$ $19$ 96         71000         2.100         2.00         1380 $4.60$ 5.06 $3.97$ $4.9$ $7.2$ $19$ 609         2.02         12.3         12.75 $1.4.5$ 13.15 $18.75$ $1.7$ 609         2.02         12.3         12.75 $1.4.5$ $13.15$ $18.75$ $1.7$ 609         2.02         12.3         12.5 $1.4.5$ $1.35$ $13.75$ $1.4.5$ $13.75$ $1.4.5$ $13.75$ $1.4.5$ $1.7$ <td>38.5         2.13         3.24         5.44         3.97         4.89         1.72         1995           7         3.61         2.66         8.4         2.86         5.91         2.60         389         2.93           9.8         71000         2.10         3.80         4.605         1.60         3800         3600         3800         3600         3800         3600         3800         3600         3800         3600         3800         3600         3800         3800         3590         359         <t< td=""><td>381         213         332         52,4         397         489         172         1995           7         361         2.66         84         2.60         590         590         390           98.         7100         210         380         4.60         150         590         390           40         210         300         230         230         330         333           40         210         300         230         230         300         330           40         210         300         230         230         300         333         313           40         10         20         133         12.5         141         315         315         315           112         117         106         10         20         301         301         301           112         113         106         101         201         401         01         23         303         033           113         114         114         114         113  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114         213         116         114         53         117         203         203           115         125         155         116         146</td></t<></td></td> | 38.5         2.13         3.24         5.44         3.97         4.89         1.72         1995           7         3.61         2.66         8.4         2.86         5.91         2.60         389         2.93           9.8         71000         2.10         3.80         4.605         1.60         3800         3600         3800         3600         3800         3600         3800         3600         3800         3600         3800         3600         3800         3800         3590         359 <t< td=""><td>381         213         332         52,4         397         489         172         1995           7         361         2.66         84         2.60         590         590         390           98.         7100         210         380         4.60         150         590         390           40         210       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 1315         135           203         010         210         123         123         1315         1315         132           203         055         105         07         200         201         101         201         101           112         106         10         -001         -001         -001         201         125         125           113         113         114         114         114         113         201         125           114         213         116         114         53         117         203         203           115         125         155         116         146</td></t<></td>  | 381         213         332         52,4         397         489         172         1995           7         361         2.66         84         2.60         590         590         390           98.         7100         210         380         4.60         150         590         390           40         210         300         230         230         330         333           40   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| 98.6         71000         21400         13800         46600         56000         58000         33600           400         210         300         200         230         200         389         1355           205         6.05         9.0         230         230         230         389         1355           205         0.55         9.8         20.2         14.3         1315         13.5         8.23           205         0.55         10.5         0.9         20         14.0         135         8.23           7010         40         10         20         9.0         20         14.0         136         9.11           12         15.7         10.6         10         20         9.0         20         20         20           255         15         16.0         4.05         11.4         11.3         9.11         0.12         0.12           255         15.6         15.6         14.35         16.30         4.33         10.7         0.03         20         12.3         0.12           255         255         14         13.5         14.3         10.7         0.03         10.7         0.0  
  | 98.6         71000         21400         13800         46600         5600         5800         3360           400         210         300         230         230         230         380         3350           609         202         123         1275         14.15         1315         1375         82         1315         82         1315         1355         82           205         6.55         105         0.9         20         105         11         1135         1315         82         131           100         40         10         20         90         70         140         11           112         157         106         10         20         90         20         130           255         159         01         -001         -001         -001         120         120           255         155         151         1435         1435         143         01         120           103         6         1435         1630         1435         141         123         01           255         140         70         70         70         70         70         70 <t< td=""><td>986         71000         21400         13800         4660         16600         5800         3360           400         210         300         200         233         14.15         13.15         18.75         1           205         202         123         12.75         14.15         13.15         18.75         1          
205         0.55         106         0.5         105         0.5         13.15         13.5         82           100         40         10         20         201         106         11         -0.50         7.8           112         1157         106         10         20         11         12.5         11.4         11.3         9.1           112         115         106         0.01         -0.01         -0.01         10         10         10         10         10         10         10         11         11.3         9.1         10         11         11.3         9.1         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10</td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td><math display="block">\begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>98.6         71000         21400         13800         46600         16600         58000         336           400         210         300         200         230         200         380         133         18.75         13         13         18.75         13         14</td><td>98         71000         21400         13800         46600         16600         58000         536         536         536         536         536         536         536         5</td><td>98         7100         21400         13800         4660         16600         58000         338           400         210         300         200         230         200         380         13           205         6.25         103         0.0         200         230         200         380         13           205         6.55         105         0.0         53         10         10         20         13         8         13         8         13         8         13         8         13         8         13         8         13         9         7</td><td>98         71000         21400         13800         46600         16600         5600         330           400         210         300         200         233         202         14.35         18.75         8.75           609         202         12.3         12.75         14.35         18.75         8.07         200         330         1           609         0.55         6.55         1.05         0.02         0.55         1.13         18.75         18.75         18.75           100         40         10         20         20         50         20         140         1           112         15.7         10.6         10         20         14.35         14.35         14.35         14.35           123         -0.01<td>986         7100         <math>21400</math>         13800         <math>46600</math>         16600         58000         339         11           <math>400</math> <math>210</math> <math>300</math> <math>200</math> <math>230</math> <math>200</math> <math>380</math>         11           <math>205</math> <math>625</math> <math>918</math> <math>202</math> <math>1475</math> <math>18.75</math> <math>18.75</math></td><td>9.6         7100         2140         1380         4660         16600         5800         3360           4.00         2.10         300         2.00         2.30         2.00         380         1350           5.09         2.02         1.23         1.2.75         14.15         1315         135         825           7         -0.50         0.55         105         0.0         200         380         1350           6         -0.50         0.55         105         0.0         10         20         3815         135         825           100         40         10         20         0.0         20         130         140         11         10         11         10         10         11         10         11         10         11         10         11         10         11         10         11         10         11         &lt;</td><td>9.6         7100         2140         1380         4660         16600         5800         3360           400         210         300         230         230         230         380         380           6         30         202         123         12.75         14.15         1315         18.75         135           6         405         0.55         105         0.9         0.5         114         133         825           6         405         0.55         105         0.9         0.5         114         135         825           100         401         401         401         401         401         20</td><td>98.         7100         21400         13800         46600         58000         33800         5300</td><td>98.         7100         21400         13800         46600         5600         33600           0.0         2.0         2.0         2.0         2.0         2.0         3.0           0.0         2.0         2.0         2.0         2.0         3.0         3.0           0.0         0.0         0.0         0.0         0.0         2.0         3.0         3.0           0.10         0.0         0.0         0.0         0.0         0.0         3.0         3.0           1.12         1.15         1.05         0.0         0.0         0.0         2.0         2.0         3.0           1.12         1.01         0.0         0.0         0.0         0.0   
     2.0         3.0           1.12         1.15         1.16         0.0         0.0         0.0         0.0         3.0           1.12         0.1         0.01         0.01         0.01         0.0         0.0         0.0           1.13         1.15         1.15         1.15         1.15         1.15         0.10           1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13</td><td>96.         7100         2140         1380         4660         5600         5300           400         202         212         13.5<!--</td--></td></td></t<>  | 986         71000         21400         13800         4660         16600         5800         3360           400         210         300         200         233         14.15         13.15         18.75         1           205         202         123         12.75         14.15         13.15         18.75         1           205         0.55         106         0.5         105         0.5         13.15         13.5         82           100         40         10         20         201         106         11         -0.50         7.8           112         1157         106         10         20         11         12.5         11.4         11.3         9.1           112         115         106         0.01         -0.01         -0.01         10         10         10         10         10         10         10         11         11.3         9.1         10         11         11.3         9.1         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10  
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  | 98.6         71000         21400         13800        
46600         16600         58000         336           400         210         300         200         230         200         380         133         18.75         13         13         18.75         13         14   
  | 98         71000         21400         13800         46600         16600         58000         536         536         536         536         536         536         536         5   
   | 98         7100         21400         13800         4660         16600         58000         338           400         210         300         200         230         200         380         13           205         6.25         103         0.0         200         230         200         380         13           205         6.55         105         0.0         53         10         10         20         13         8         13         8         13         8         13         8         13         8         13         8         13         9         7   
   | 98         71000         21400         13800         46600         16600         5600         330           400         210         300         200         233         202         14.35         18.75         8.75           609         202         12.3         12.75         14.35         18.75         8.07         200         330         1           609         0.55         6.55         1.05         0.02         0.55         1.13         18.75         18.75         18.75           100         40         10         20         20         50         20         140         1           112         15.7         10.6         10         20         14.35         14.35         14.35         14.35           123         -0.01 <td>986         7100         <math>21400</math>         13800         <math>46600</math>         16600         58000         339         11           <math>400</math> <math>210</math> <math>300</math> <math>200</math> <math>230</math> <math>200</math> <math>380</math>         11           <math>205</math> <math>625</math> <math>918</math> <math>202</math> <math>1475</math> <math>18.75</math> <math>18.75</math></td> <td>9.6         7100         2140         1380         4660         16600         5800         3360           4.00         2.10         300         2.00         2.30         2.00         380         1350           5.09         2.02         1.23         1.2.75         14.15         1315         135         825           7         -0.50         0.55         105         0.0         200         380         1350           6         -0.50         0.55         105         0.0         10         20         3815         135         825           100         40         10         20         0.0         20         130         140         11         10         11         10         10         11         10         11         10         11         10         11         10         11         10         11         10         11         &lt;</td> <td>9.6         7100         2140         1380         4660         16600         5800         3360           400         210         300         230         230         230         380         380           6         30         202         123         12.75         14.15         1315         18.75         135           6         405         0.55         105         0.9         0.5         114         133         825           6         405         0.55         105         0.9         0.5         114         135         825           100         401         401         401         401         401         20</td> <td>98.         7100         21400         13800         46600         58000         33800         5300</td> <td>98.         7100         21400         13800         46600         5600         33600           0.0         2.0         2.0         2.0         2.0         2.0         3.0           0.0         2.0         2.0         2.0         2.0         3.0         3.0           0.0         0.0         0.0         0.0         0.0         2.0         3.0         3.0           0.10         0.0         0.0         0.0         0.0         0.0         3.0         3.0           1.12         1.15         1.05         0.0         0.0         0.0         2.0         2.0         3.0           1.12         1.01         0.0         0.0         0.0         0.0         2.0         3.0           1.12         1.15         1.16         0.0         0.0         0.0         0.0         3.0           1.12         0.1         0.01         0.01         0.01         0.0         0.0         0.0           1.13         1.15         1.15         1.15         1.15         1.15         0.10           1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13</td> <td>96.         7100         2140         1380         4660         5600         5300           400         202         212         13.5        
13.5         13.5<!--</td--></td> | 986         7100 $21400$ 13800 $46600$ 16600         58000         339         11 $400$ $210$ $300$ $200$ $230$ $200$ $380$ 11 $205$ $625$ $918$ $202$ $1475$ $18.75$   | 9.6         7100         2140         1380         4660         16600         5800         3360           4.00         2.10         300         2.00         2.30         2.00         380         1350           5.09         2.02         1.23         1.2.75         14.15         1315         135         825           7         -0.50         0.55         105         0.0         200         380         1350           6         -0.50         0.55         105         0.0         10         20         3815         135         825           100         40         10         20         0.0         20         130         140         11         10         11         10         10         11         10         11         10         11         10         11         10         11         10         11         10         11         <   
  | 9.6         7100         2140         1380         4660         16600         5800         3360           400         210         300         230         230         230         380         380           6         30         202         123         12.75         14.15         1315         18.75         135           6         405         0.55         105         0.9         0.5         114         133         825           6         405         0.55         105         0.9         0.5         114         135         825           100         401         401         401         401         401         20   | 98.         7100         21400         13800         46600         58000         33800         5300   | 98.         7100         21400         13800         46600         5600         33600           0.0         2.0         2.0         2.0         2.0         2.0         3.0           0.0         2.0         2.0         2.0         2.0         3.0         3.0           0.0         0.0         0.0         0.0         0.0         2.0         3.0         3.0           0.10         0.0         0.0         0.0         0.0         0.0         3.0         3.0           1.12         1.15         1.05         0.0         0.0         0.0         2.0         2.0         3.0           1.12         1.01         0.0         0.0         0.0         0.0         2.0         3.0           1.12         1.15         1.16         0.0         0.0         0.0         0.0         3.0           1.12         0.1         0.01         0.01         0.01         0.0         0.0         0.0           1.13         1.15         1.15         1.15         1.15         1.15         0.10           1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13   | 96.         7100         2140         1380         4660         5600         5300           400         202         212         13.5         13.5         13.5         13.5         13.5         13.5         13.5         13.5         13.5         13.5         13.5         13.5         13.5         13.5         13.5         13.5         13.5         13.5        
13.5         13.5 </td      |
| 400         210         300         200         230         230         330         335         136         136 <td>400         210         300         200         230         230         315         135         137         1375         137         130         1305         131         1317         1317         1317         1317         1317         131         1317         131         1317         131         131         1315<td>400         210         300         200         230         230         230         331         331<td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>400         210         300         200         230         200         380         133         58         133         59         20         100         103         &lt;</td><td>400         210         300         200         230         230         133<td>400         210         300         200         230         200         330         11           205         6.25         19.8         20.2         14.15         13.15         18.75         8           400         20.0         55         105         0.05         10         20         13.55         18.75           405         0.55         106         10         20         14.15         13.75         18.75           100         40         10         20         105         20         140         13.55           112         15.7         10.6         10         201         -001         -001         100         10           205         6         8.5         15.5         11         12.5         10         10           205         14.60         1435         1630         1435         1470         900         11           205         14.60         1470         750         940         730         1600         66           201         1001         1560         1470         730         1600         66         23         40           203         185         725         24<td>400         210         300         230         230         230         230         230         230         230         1315         18.75         <math>4.35</math>         1315         18.75         8.75         <math>4.35</math>         1315         18.75         8.75         <math>4.35</math>         1315         18.75         8.75         <math>4.35</math>         13.15         18.75         <t< td=""><td>400       210       300       200       230       200       330       11       331       18       75         205       6.25       19       2.02       14.15       13.15       18.75       18.75         <math>-0.50</math>       0.55       10.6       0.7       0.5       1.6       1.0       20       18.75         <math>-0.50</math>       0.55       10.6       0.7       0.7       0.7       1.41       1.35       18.75         <math>-0.50</math>       0.55       1.06       10       2.0       4.75       1.41       1.13       9         <math>1.2</math> <math>1.55</math>       1.55       1.41       <math>0.51</math>       1.14       11.3       9       9       1       <math>0.77</math>       0.30       1.0       1.0         <math>2.55</math>       1.450       1.455       4.15       3.155       1.17       0.3       1.2       1.1       <math>1.75</math>       0.0       1.1       <math>1.77</math>       0.3       1.1       <math>1.75</math> <math>2.44</math>       6       <math>2.44</math>       6       <math>2.44</math>       6       <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math></td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>400 <math>210</math> <math>300</math> <math>200</math> <math>230</math> <math>230</math> <math>390</math> <math>3900</math> <math>390</math> <math>390</math>         &lt;</td><td>400         210     
   300         200         230         230         331         331<td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td></td></t<></td></td></td></td></td>  | 400         210         300         200         230         230         315         135         137         1375         137         130         1305         131         1317         1317         1317         1317         1317         131         1317         131         1317         131         131         1315 <td>400         210         300         200         230         230         230         331         331<td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>400         210         300         200         230         200         380         133         58         133         58         133         58         133         58         133         58         133         58        
133         58         133         59         20         100         103         &lt;</td><td>400         210         300         200         230         230         133<td>400         210         300         200         230         200         330         11           205         6.25         19.8         20.2         14.15         13.15         18.75         8           400         20.0         55         105         0.05         10         20         13.55         18.75           405         0.55         106         10         20         14.15         13.75         18.75           100         40         10         20         105         20         140         13.55           112         15.7         10.6         10         201         -001         -001         100         10           205         6         8.5         15.5         11         12.5         10         10           205         14.60         1435         1630         1435         1470         900         11           205         14.60         1470         750         940         730         1600         66           201         1001         1560         1470         730         1600         66         23         40           203         185         725         24<td>400         210         300         230         230         230         230         230         230         230         1315         18.75         <math>4.35</math>         1315         18.75         8.75         <math>4.35</math>         1315         18.75         8.75         <math>4.35</math>         1315         18.75         8.75         <math>4.35</math>         13.15         18.75         <t< td=""><td>400       210       300       200       230       200       330       11       331       18       75         205       6.25       19       2.02       14.15       13.15       18.75       18.75         <math>-0.50</math>       0.55       10.6       0.7       0.5       1.6       1.0       20       18.75         <math>-0.50</math>       0.55       10.6       0.7       0.7       0.7       1.41       1.35       18.75         <math>-0.50</math>       0.55       1.06       10       2.0       4.75       1.41       1.13       9         <math>1.2</math> <math>1.55</math>       1.55       1.41       <math>0.51</math>       1.14       11.3       9       9       1       <math>0.77</math>       0.30       1.0       1.0         <math>2.55</math>       1.450       1.455       4.15       3.155       1.17       0.3       1.2       1.1       <math>1.75</math>       0.0       1.1       <math>1.77</math>       0.3       1.1       <math>1.75</math> <math>2.44</math>       6       <math>2.44</math>       6       <math>2.44</math>       6       <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math></td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>400 <math>210</math> <math>300</math> <math>200</math> <math>230</math> <math>230</math> <math>390</math> <math>3900</math> <math>390</math> <math>390</math>         &lt;</td><td>400         210         300         200         230         230         331         331<td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td></td></t<></td></td></td></td>  
   | 400         210         300         200         230         230         230         331         331 <td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td> <td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td> <td>400         210         300         200         230         200         380         133         58         133         59         20         100         103         &lt;</td> <td>400         210         300         200         230         230         133<td>400         210         300         200         230         200         330         11           205         6.25         19.8         20.2         14.15         13.15         18.75         8           400         20.0         55         105         0.05         10         20         13.55         18.75           405         0.55         106         10         20         14.15         13.75         18.75           100         40         10         20         105         20         140         13.55           112         15.7         10.6         10         201         -001         -001         100         10           205         6         8.5         15.5         11         12.5         10         10           205         14.60         1435         1630
        1435         1470         900         11           205         14.60         1470         750         940         730         1600         66           201         1001         1560         1470         730         1600         66         23         40           203         185         725         24<td>400         210         300         230         230         230         230         230         230         230         1315         18.75         <math>4.35</math>         1315         18.75         8.75         <math>4.35</math>         1315         18.75         8.75         <math>4.35</math>         1315         18.75         8.75         <math>4.35</math>         13.15         18.75         <t< td=""><td>400       210       300       200       230       200       330       11       331       18       75         205       6.25       19       2.02       14.15       13.15       18.75       18.75         <math>-0.50</math>       0.55       10.6       0.7       0.5       1.6       1.0       20       18.75         <math>-0.50</math>       0.55       10.6       0.7       0.7       0.7       1.41       1.35       18.75         <math>-0.50</math>       0.55       1.06       10       2.0       4.75       1.41       1.13       9         <math>1.2</math> <math>1.55</math>       1.55       1.41       <math>0.51</math>       1.14       11.3       9       9       1       <math>0.77</math>       0.30       1.0       1.0         <math>2.55</math>       1.450       1.455       4.15       3.155       1.17       0.3       1.2       1.1       <math>1.75</math>       0.0       1.1       <math>1.77</math>       0.3       1.1       <math>1.75</math> <math>2.44</math>       6       <math>2.44</math>       6       <math>2.44</math>       6       <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math></td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>400 <math>210</math> <math>300</math> <math>200</math> <math>230</math> <math>230</math> <math>390</math> <math>3900</math> <math>390</math> <math>390</math>         &lt;</td><td>400         210         300         200         230         230         331         331<td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td></td></t<></td></td></td> | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$   
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   | 400         210         300         200         230         200         380         133         58         133         59         20         100         103         <  
   
  | 400         210         300         200         230         230         133 <td>400         210         300         200         230         200         330         11           205         6.25         19.8         20.2         14.15         13.15         18.75         8           400         20.0         55         105         0.05         10         20         13.55         18.75           405         0.55         106         10         20         14.15         13.75         18.75           100         40         10         20         105         20         140         13.55           112         15.7         10.6         10         201         -001         -001         100         10           205         6         8.5         15.5         11         12.5         10         10           205         14.60         1435         1630         1435         1470         900         11           205         14.60         1470         750         940         730         1600         66           201         1001         1560         1470         730         1600         66         23         40           203         185         725         24<td>400         210         300         230         230         230         230         230         230         230         1315         18.75         <math>4.35</math>         1315         18.75         8.75         <math>4.35</math>         1315         18.75         8.75         <math>4.35</math>         1315         18.75         8.75         <math>4.35</math>         13.15         18.75         <t< td=""><td>400       210       300       200       230       200       330       11       331       18       75         205       6.25       19       2.02       14.15       13.15       18.75       18.75         <math>-0.50</math>       0.55       10.6       0.7       0.5       1.6       1.0       20       18.75         <math>-0.50</math>       0.55       10.6       0.7       0.7       0.7       1.41       1.35       18.75         <math>-0.50</math>       0.55       1.06       10       2.0       4.75       1.41       1.13       9         <math>1.2</math> <math>1.55</math>       1.55       1.41       <math>0.51</math>       1.14       11.3       9       9       1       <math>0.77</math>       0.30       1.0       1.0         <math>2.55</math>       1.450       1.455       4.15       3.155       1.17       0.3       1.2       1.1       <math>1.75</math>       0.0       1.1       <math>1.77</math>       0.3       1.1       <math>1.75</math> <math>2.44</math>       6       <math>2.44</math>       6       <math>2.44</math>       6       <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math> <math>6.7</math> <math>2.44</math></td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>400 <math>210</math> <math>300</math> <math>200</math> <math>230</math> <math>230</math> <math>390</math> <math>3900</math> <math>390</math> <math>390</math>         &lt;</td><td>400         210         300         200         230         230         331         331<td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td></td></t<></td></td> | 400         210         300         200         230         200         330         11           205         6.25         19.8         20.2         14.15         13.15         18.75         8           400         20.0         55         105         0.05         10         20         13.55         18.75           405         0.55         106         10         20         14.15         13.75         18.75           100         40         10         20         105         20         140         13.55           112         15.7         10.6         10         201         -001         -001         100         10           205         6         8.5         15.5         11         12.5         10         10           205         14.60         1435         1630         1435         1470         900         11           205         14.60         1470         750         940         730         1600         66           201         1001         1560         1470         730         1600         66         23         40           203         185         725         24 <td>400         210         300         230         230         230         230         230         230         230         1315         18.75         <math>4.35</math>         1315         18.75         8.75         <math>4.35</math>         1315         18.75         8.75         <math>4.35</math>         1315         18.75         8.75         <math>4.35</math>         13.15         18.75     
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20           192         2.55         159         0.61         -0.01         -0.01         0.01         0.0         176           0.95         6.545         4.05         4.55         4.15         305         2.44         6.9           1000         1560         1470         -0.01         -0.01         -0.01         0.16         -0.01         7.0         13.6           1000         1560         1470         7.0         150         147         5.3         49.         -0.0           1100         1850         147         5.3         147         5.3         49.         -0.0         -0.0         -0.0         -0.0         -0.0         -0.0         -0.0         -0.0         -0.0         -0.0         -0.0         -0.0         -0.0         -0.0         -0.0         -0.0         -0.0         -0.0         -0.0</td> <td>1.2 <math>15.7</math> <math>10.6</math> <math>10</math> <math>22</math> <math>11.4</math> <math>11.3</math> <math>9</math>:         <math>25</math> <math>6</math> <math>85</math> 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  | 100     150     150     150     750     940     730     1600     66       330     185     7.5     8     885     12.5     300     200       330     185     7.5     8     885     12.5     300     20 $2135$ 2.55     1.44     5.34     1.77     6     3.2 $3135$ 2.09     1305     7.25     26     8.3     196.5     225. $<10$ 4     5     2.4     21     7     40     2 $<710$ 4     5     2.6     13.4     15     2.25.     255. $<710$ 15     2.26     18.4     18.2     2.8     0.7 $<0.7$ 0.15     0.9     0.4     15     35. $<0.7$ 15.8     15.3     12.2     16.8     4     5. $<0.7$ 10.5     2.6     2.0     0.3     2.8     0.7 $<0.7$ 10.5     15.8     15.3     12.2     16.8     4     5.3 $<0.7$ 10.5     2.6     7.0     2.0     3.4     2.8     0.7 $<0.7$ 10.5     2.6     19.3     2.0     2.8     3.1   
   
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| 330         18.5         7.5         8         88.5         12.5         300         207           0.2         >10.00         2.55         1.44         5.34         1.77         6         327           343.5         2.09         13.05         7.25         1.44         5.34         1.77         6         327           -10         49         5         4         21         7         40         9           6         7.4         15         2.26         184         18.2         28.6           6.5         6.55         2.9         0.15         0.9         0.4         15         356.4           6         10.5         15.8         15.3         12.2         16.8         4         5.3           6         10.5         15.8         15.3         12.2         16.8         4         5.3           6         10.5         15.8         15.3         12.2         16.8         4         5.3           74         89.3         0.20         2.00         13.3         12.2         16.8         4         5.3           75         16.8         15.3         12.2         12.8         5.4  
  | 330         185         7.5         8         88.5         12.5         300         20           0.2         >>1000         2.55         1.44         5.34         1.77         6         3.2.           343.5         2.09         13.05         7.25         1.44         5.34         1.77         6         3.2.           <   
   
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  | 7         330         18.5         7.5         8         88.5         1.25         300         2           0         0.2         >10.00         2.55         1.44         5.34         1.77         6         3.3           1         -10         2.55         1.44         5.34         1.77         6         3.3           1         -10         49         5         2.6         8.3         196.5         225           1         -10         49         5         2.6         18.4         18.2         20           1         -10         49         5         2.6         18.4         18.2         2.8         8           1         -10         49         5         2.6         18.4         18.2         2.8         8           1         -10         49         5         2.12         0.14         16.3         3.1         3.8         5 <td><math display="block">\begin{array}{cccccccccccccccccccccccccccccccccccc</math></td> <td>330         18.5         7.5         8         88.5         1.25         300         2           <math>0.2</math>         &gt;10.00         <math>2.55</math>         1.44         <math>5.34</math> <math>1.77</math>         6         <math>3.3</math> <math>343.5</math> <math>2.09</math> <math>1.305</math> <math>7.25</math> <math>2.6</math> <math>8.3</math>
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2.75       2.6       8       3       166.5       2.52.8         <math>49</math>       5       7.4       15       2.26       18.4       18.2       2       84.9         <math>6</math>       7.4       15       2.26       18.4       18.2       2       84.9       0.36         <math>6</math>       0.42       0.29       0.15       0.9       0.4       15       35.6       0.35         <math>6</math>       0.42       0.26       10.5       12.3       10.2       12.3       10.3       0.36       0.3         <math>6</math>       0.12       0.50       7.00       2.00       2.00       2.00       4       5.35         <math>140</math>       99.30       92.0       7.00       2.86       7.30       880         <math>140</math>       99.30       92.0       7.00       2.86       7.30       880     <td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td></td> | $\begin{array}{cccccccccccccccccccccccccccccccccccc$   
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  | 330 $185$ $7.5$ $8$ $885$ $125$ $300$ $2$ $02$ > $5100$ $255$ $1.44$ $5.34$ $1.77$ $6$ $3$ $3435$ $209$ $1305$ $725$ $26$ $83$ $1965$ $22$ $<10$ $49$ $5$ $4$ $21$ $72$ $8$ $30$ $5$ $22$ $<10$ $4$ $15$ $226$ $184$ $182$ $22$ $20$ $6$ $74$ $15$ $226$ $015$ $024$ $15$ $30$ $6$ $105$ $153$ $122$ $103$ $024$ $28$ $0$ $1$ $6$ $112$ $1905$ $276$ $133$ $269$ $63$ $1$ $140$ $8930$ $920$ $760$ $740$ $286$ $720$ $6$ $1$ $140$ $8930$ $920$ $740$ $286$ $720$ $6$ $720$ $6$ $7$  
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   | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 30 $18.5$ $7.5$ $8$ $88.5$ $12.5$ $300$ $207$ 0.2       >10.00 $2.55$ $1.44$ $5.34$ $1.77$ $6$ $32.2$ $313.5$ $20.9$ $13.65$ $7.25$ $2.64$ $2.255$ $2265$ $2265$ $226$ $9$  | 30       18.5 $7.5$ 8       88.5       12.5       300       207         0.2       >1000       2.55       1.14       5.34       1.77       6       3.27         313.5       2.09       1.30       2.75       2.8       8       3.46.5       2.52.8 $313.5$ 2.09       1.30       2.75       2.6       8       3       166.5       2.52.8 $49$ 5       7.4       15       2.26       18.4       18.2       2       84.9 $6$ 7.4       15       2.26       18.4       18.2       2       84.9       0.36 $6$ 0.42       0.29       0.15       0.9       0.4       15       35.6       0.35 $6$ 0.42       0.26       10.5       12.3       10.2       12.3       10.3       0.36       0.3 $6$ 0.12       0.50       7.00       2.00       2.00       2.00       4       5.35 $140$ 99.30       92.0       7.00       2.86       7.30       880 $140$ 99.30       92.0       7.00       2.86       7.30       880 <td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td>   
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| 02         >10.00         2.55         1.44         5.34         1.77         6         3.27           343.5         20.9         13.05         7.25         26         8.3         196.5         225.8           <10  
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   | 0       3435       209       13.05       7.25       26       8.3       196.5       225.6         10       49       5       4       21       7       40       5       24         6       7.4       15       19       15       19       13       12       10         6       0.5       6.55       29       0.15       014       13       35.6         6       0.42       0.22       0.26       2.02       0.34       2.8       0.71         6       10.5       15.8       15.3       12.2       16.8       4       5.5         6       10.5       19.05       2.76       193       269       63       13         7       100       8930       920       760       740       286       720       88         110       8930       920       760       740       286       720       88   | 3435 $209$ $1305$ $725$ $26$ $8.3$ $1865$ $2235$ $<10$ $49$ $5$ $4$ $21$ $7$ $40$ $9$ $6$ $7.4$ $15$ $2156$ $184$ $182$ $2$ $836.$ $65$ $655$ $29$ $0156$ $026$ $034$ $218$ $074$ $6$ $105$ $153$ $122$ $168$ $4$ $536.$ $6$ $105$ $153$ $122$ $168$ $4$ $536.$ $140$ $8930$ $920$ $760$ $740$ $226$ $720$ $880.$   | 3435 $209$ $1305$ $725$ $26$ $8.3$ $1865$ $2235$ $<10$ $49$ $5$ $4$ $21$ $7$ $40$ $5$ $6$ $7.4$ $15$ $2156$ $184$ $182$ $22$ $865$ $65$ $653$ $219$ $015$ $026$ $024$ $218$ $070$ $6$ $105$ $153$ $153$ $122$ $168$ $4$ $5.3$ $6$ $105$ $158$ $15.3$ $122$ $168$ $4$ $5.3$ $140$ $8930$ $920$ $760$ $740$ $236$ $720$ $880$ $140$ $8930$ $920$ $760$ $740$ $236$ $720$ $880$   
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  | 0         0.42         0.22         0.24         2.0         0.34         2.0         0.34         2.0         0.34         2.0         0.34         2.0         0.34         2.0         0.34         2.0         0.34         2.0         0.34         2.0         0.34         2.0         0.34         2.0         0.34         2.0         0.34         2.0         0.3         1.1         110         8930         920         760         740         286         720         1         120         120         120         120         120         1           140         8930         920         760         740         286         720         1  | 0         0.042         0.42         0.43         4.0           5         112         1905         276         193         269         63         131           1         140         9930         920         760         740         286         720         880   
   | 0         0.04         0.42         0.42         0.04         0.9           6         112         1905         216         133         123         131           1         140         8930         920         760         740         286         720         880  | 0.0         0.42         0.22         0.24         2.0         0.04         2.0         0.04         4.0         0.04         4.0         0.04         4.0         0.04         4.0         0.04         4.0         0.04         4.0         0.04         4.0         0.04         4.0         0.04         4.0         0.04         4.0         0.04         4.0         0.04         4.0         0.04         4.0         0.04         4.0         0.04         4.0         0.04         6.0         131         0.04 <th0.04< th="">         0.04         0.04         <t< td=""><td>0.0     0.42     0.22     0.24     2.02     0.34       5     112     1905     276     193     269     63     131       140     8930     920     760     740     286     720     880</td><td>0         0.04         0.12         0.12         0.04         4.0           5         112         196         2.16         193         2.69         63         131           1         140         8930         920         760         740         286         63         131</td></t<></th0.04<>  | 0.0     0.42     0.22     0.24     2.02     0.34       5     112     1905     276     193     269     63     131       140     8930     920     760     740     286     720     880  
  | 0         0.04         0.12         0.12         0.04         4.0           5         112         196         2.16         193         2.69         63         131           1         140         8930         920         760         740         286         63         131  |
| o 10.5 15.6 15.5 12.2 10.6 4 5.3<br>5 112 190.5 276 193 269 63 131<br>140 8930 920 760 740 286 720 880   
  | o 10.5 15.6 15.5 12.2 10.0 4 5.<br>5 112 190.5 276 193 2.69 63 13<br>140 8930 920 760 740 286 720 88   
   
  | o 10.3 13.0 13.3 1.2.2 10.0 4 3.   
  | 2 0 103 130 133 122 100 4 0<br>1 5 112 190.5 276 193 269 63 11<br>1 140 8930 920 760 740 286 720 88  
  | 2 0 103 133 135 122 130 4 3 13<br>1 140 8930 920 760 740 286 720 88  
   
  | o 10.3 10.5 13.3 12.2 10.0 4 1<br>5 112 10.5 276 193 2.69 6.3 11<br>140 8930 920 760 740 286 720 88  
   | 0 10.0 10.0 10.0 10.0 14.0 12.2 10.0 4 0.0 14.0 11.2 190.5 27.6 193 289 63 13.1 14.0 1930 92.0 76.0 74.0 286 72.0 18  
  | 0 10.3 10.3 10.3 10.4 10.0 10.0 10.0 4 10.1 10.0 10.5 10.3 10.1 10.0 20.0 10.0 10.0 10.0 10.0 10.0   
  | 6 11.2 13.5 12.2 10.0 4<br>140 8930 920 760 740 286 720 1  
  | 0         11.2         10.3         13.3         12.2         10.6         4           1         1         10.5         27.6         193         2.6         7.3         13           140         8930         920         760         740         286         720         1  | 1         0         10.0         13.0         13.0         14.0         19.3         10.0         13.1           1         1         10         8930         920         760         740         286         7.3         131           1         140         8930         920         760         740         286         720         800  
   | 7         5         112         102         153         124         103         33           1         1         1         930         920         760         740         286         73         131           1         140         930         920         760         740         286         730         800  | 5         11.2         10.5         12.4         10.6         4         0.1           140         8930         920         760         740         286         720         881  | 5 112 103 153 154 154 154 154 154 154 154 154 154 154  
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| 140 8930 920 /00 /40 280 /20 880   
  | 140 8530 720 /00 /40 260 /20 088   
   
  | 140 03-30 9-20 100 1-40 2-80 1.20 88   
  | 4 140 8930 920 70 70 740 8   
  | 1 140 8530 YZU 700 140 Z80 720 88  
   
  | 140 05-30 7.20 7.00 1.40 2.60 1.20 6   
   | 140 8930 920 /00 /40 280 /20 88   
  | 140 5930 920 /00 140 280 /20 C   
  | 1 07 020 140 000 070 010 010 010 010 010 010 010 01  
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TABLE 2B ASSAY DATA OF CANYON CREEK SKARN SAMPLES, LUSTDUST PROPERTY

#### TABLE 2C ASSAY DATA OF SPHALERITE-BEARING MANTO SAMPLES, NUMBER 3 AND 4B ZONES, LUSTDUST PROPERTY

No.	GR01-43	GR01-78	GR01-79	GR01-80	GR01-99	GR01-100	IWE01-3	GR00-43	GR00-44	GR01-19	GR01-39	GR01-40	GR01-42	GR01-49	GR01-88
Ag	8.8	151	68	36.6	223	13	9.2	10.85	121	20.3	8.62	13.2	64.7	21.8	444
As	235	>10000	>10000	>10000	289	2270	390	651	2420	56	1855	1635	383	627	27.6
Au	16	1430	4700	1200	2500	990	125	91	1190	580	280	340	770	2100	26050
Bi	0.7	193	59.9	87.6	1450	54.3	42	40.1	259	12.9	10.8	9.3	3.9	165.0	44.6
Cd	46.4	230	4.6	210	>500	10.55	>500	>500	>500	>500	>500	>500	257	>500	>500
Ce	1.18	0.9	<0.10	1	1.3	2.6	7.4	7.94	1.39	3.89	2.67	3.48	0.83	6.03	1.52
Со	3.6	<1.0	<1.0	1	<1.0	25	39	19.4	0.8	575	2.3	3.5	17.1	9.6	906
Cr	12	80	20	40	30	160	70	24	103	43	79	93	60	74	12
Cu	168.8	805	247	1320	15000	213	1165	629	330	6510	1025	1680	245	1290	159000
F	90	60	50	60	90	50	80	130	40	120	30	60	380	340	40
Fe	3.99	>25.0	>25.0	>25.0	12.9	>25.0	21.5	12.65	22.8	7.52	>25.0	>25.0	22.1	12.45	>25.0
Ga	0.8	8.5	2.5	5.5	26	1	13	17.9	5.1	2.4	7.9	6.85	1.8	17.15	0.6
Ge	< 0.05	0.5	< 0.50	0.5	< 0.50	< 0.50	< 0.50	14.35	25.25	0.45	0.7	0.65	0.5	0.45	0.9
Hg	70	3490	510	1240	90	40	470	810	290	190	310	330	170	100	60
In	0.355	31.1	0.55	23.1	13.15	0.3	26.5	29	2.5	27.1	12.65	8.39	3.95	38	26.1
К	< 0.01	0.05	< 0.01	0.03	< 0.01	0.03	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.05	0.03	< 0.01
La	3	<5.0	<5.0	<5.0	<5.0	<5.0	5	7.5	5	2	3	3	6.5	5	1
Mg	0.19	0.03	0.03	0.01	0.49	< 0.01	0.46	0.17	0.01	1.17	0.01	0.03	0.12	0.21	0.14
Mn	840	50	<50	100	3350	50	1600	2060	845	3750	840	845	525	1905	935
Mo	0.45	19	0.5	32.5	2	1	< 0.50	1.55	2.6	0.75	2.1	1.35	1	1.1	9.5
Na	< 0.01	0.03	0.03	0.03	< 0.01	0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ni	19.6	4	6	10	6	8	18	14.6	3.8	93.6	<0.2	<0.2	4.6	8	2460
Р	260	1400	<100	1200	<100	<100	200	340	50	590	20	40	30	230	1610
Pb	5010	11600	2820	9830	760	320	120	316	67400	7.5	40.5	34.5	145500	231	11.5
S	4.77	0.4	0.2	0.2	>10.00	>10.00	>10.00	>10.00	>10.00	>10.00	>10.00	>10.00	>10.00	>10.00	>10.00
Sb	>1000.0	>1000.0	>1000.0	>1000.0	164	254.5	107.5	309	>1000.0	4.1	23.25	22.1	>1000.0	152.2	14
Se	2	<10	20	<10	50	50	70	60	113	121	62	57	78	94	190
Sn	0.2	<2.0	<2.0	<2.0	8	<2.0	2	1	3.2	2	1	1	6	1.6	1
Те	0.8	1	12.5	0.5	37	12.5	12.5	4.5	78.4	1.15	4.25	4.75	6	66.4	13.35
TI	0.06	84.8	56.2	5	1	2.6	0.4	5.24	0.9	0.12	0.04	0.04	0.3	0.12	0.4
U	2.2	16	2	21	2	<1.0	2	1.6	1.6	2.8	2.5	2.4	2.3	4.2	0.5
W	1.6	52	9	30	297	8	20	59.9	0.5	61.2	24.7	36.6	10.2	21.1	5.7
Zn	4500	23000	480	15900	474000	1220	316000	436000	142500	437000	176500	164000	42000	415000	141500

Sample descriptions & locations:

GR01-43: LD93-11; 32.9 metres. Oxidized mineralization in marble.

GR01-78: No. 3 Zone. Light and dark vuggy oxidized material from trench. 347552E 6161102N

GR01-79: No. 3 Zone. Light and dark vuggy oxidized material from trench. 347552E 6161102N

GR01-80: No. 3 Zone. Light and dark vuggy oxidized material from trench. 347552E 6161102N

 $\mathsf{GR01-99:}\ \mathsf{No.}\ \mathsf{4B}\ \mathsf{Zone.}\ \mathsf{Massive}\ \mathsf{black}\ \mathsf{sphalerite}\ \mathsf{with}\ \mathsf{coarse}\ \mathsf{pyrite}\text{-}\mathsf{pyrhotite.}\ \mathsf{347096E}\ \mathsf{6161452N}$ 

GR01-100: No. 4B Zone. Massive black sphalerite with coarse pyrite-pyrhotite. 347096E 6161452N IWE01-3: No. 4B Zone. Massive sphalerite with coarse pyrite. 347085E 6161470N

GR00-43: 4B Zone. Massive sphalerite-pyrite. 437096E 6161459N

GR00-44: No. 4B Zone. Massive sphalerite-pyrite. 437096E 6161459N GR00-44: No. 4B Zone. Massive sphalerite-pyrite. 437096E 6161459N

GR01-19: LD99-17; 266 feet; No. 4B (transition) Zone. Sphalerite and chalcopyrite.

GR01-39: LD93-8: 20.4 metres. Massive black sphalerite with pyrite. 347112E 6161510N

GR01-40: LD93-8; 21.5 metres. Massive black sphalerite-pyrite with white quartz veining. 347112E 6161510N

GR01-42: LD93-8; 31 metres. Massive sphalerite with 20% coarse euhedral pyrite. 347112E 6161510N

GR01-49: LD92-15; 32 metres. Massive black sphalerite with pyrite

GR01-88: LD20-06; 329 feet. Massive to semi-massive sphalerite with pyrite and chalcopyrite. 347005E 6161743N

presence of very large decrepitation fluid inclusions (*see* Photo 5, Dunne and Ray, 2002, this volume). Locally, they contain abundant small fibrous inclusions of unknown composition and origin (Leitch, 2001a).

Where the skarns contain sulphide mineralization, the late, pale to dark green and weakly pleochroic chlorite may make up to 10 % of the rock. Mineralization occurs as Ag and Au-bearing chalcopyrite and lesser bornite with abundant pyrite, variable amounts of sphalerite and rare arsenopyrite and stibnite. It is commonly controlled by fractures but may be disseminated. Megaw (2000, 2001) notes that the conduit structures through the garnetite are often surrounded by zones, several metres wide, of more disseminated mineralization. The density of mineralized structures, the width of their disseminated haloes, and the intensity of retrograde alteration increase with both depth and proximity to the Canyon Creek Fault (Figure 2). Retrograde alteration is often accompanied by a dramatic increase in chalcopyrite, pyrite and magnetite. The latter mineral occurs either as fine-grained masses or as pseudomorphs, up to 2 mm long, after bladed specularite. The chalcopyrite commonly occurs as interstitial blebs and masses up to 6 mm in length. However, chalcopyrite is also seen as small (<0.5 mm), rounded to irregular inclusions in sphalerite and magnetite (Leitch, 2001a). Also present are variable quantities of specular hematite, marcasite and relict pyrrhotite. In rare cases, the skarn may contain up to 30 % sphalerite (Table 2B), as well as trace amounts of a fibrous, dark grey mineral that may be tetrahedrite-tennantite. The dark, red-brown subhedral sphalerite crystals reach 2 mm in length.

#### TABLE 2D ASSAY DATA OF MASSIVE PYRITE-PYRRHOTITE REPLACEMENTS, 4B ZONE, LUSTDUST

No.	GR01-21	GR01-41	GR01-44	GR01-46	GR01-47	GR01-48	GR01-67
Ag	54.7	20	5.14	3.24	5	3.04	15.45
As	428	3530	792	1710	>10000	>10000	324
Au	1840	110	400	84	680	550	960
Bi	1165.0	48.5	18.9	14.1	27.6	9.2	74.6
Cd	15.5	>500	4.08	4.8	2.98	1.66	1.76
Ce	1.2	25.8	1.12	7.74	2.37	25.3	12.15
Co	178.2	8	15.4	36.1	21.3	55.2	17.1
Cr	58	59	48	183	103	105	73
Cu	15600	864	891	556	828	405	4750
F	100	2500	320	670	300	210	520
Fe	>25.0	>25.0	>25.0	>25.0	>25.0	24.5	>25.0
Ga	1.1	5.9	1.45	2.85	1.25	7.95	8.45
Ge	0.85	0.9	0.65	0.5	0.75	0.65	1.65
Hg	<10	390	<10	10	30	10	<10
In	3.19	3.95	0.07	0.09	0.07	0.075	3.98
K	<0.01	0.51	0.07	0.03	0.04	0.4	<0.01
La	0.5	28	1	6	2	12.5	9.5
Mg	0.29	0.88	0.38	0.28	0.1	0.69	0.29
Mn	725	910	200	375	385	575	545
Мо	1.2	42.35	0.75	1.65	1.4	5.3	3.8
Na	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ni	2.8	22.8	7	17.2	14.8	33.8	31.4
Р	380	1110	<10	4060	1420	330	2990
Pb	43.5	27800	325	2360	335	205	29
S	>10.00	>10.00	>10.00	>10.00	>10.00	>10.00	>10.00
Sb	31.05	>1000.0	247.7	>1000.0	434	453.9	15.5
Se	95	29	36	13	5	2	39
Sn	2.4	1.6	0.4	0.2	<0.2	1.2	12
Te	129	6.45	12.3	2.1	0.55	1.4	63.2
TI	0.02	1.22	0.22	0.1	0.08	0.52	0.12
U	3.4	14.5	4	0.5	0.1	1.2	10.7
W	23.3	15.3	2.3	4.1	12.8	74.9	18.5
Zn	1655	122500	354	410	220	136	164

Sample descriptions & locations:

GR01-21: LD99-17; 192 feet. 4B zone; 1.2 metre wide massive pyrite-pyrrhotite-chalcopyrite in marble.

GR01-41: LD93-8; 27.2 metres. Massive pyrrhotite with sulphosalts. 347112E 6161510N

GR01-44: LD93-11; 46 metres, 1 metre wide zone of massive pyrrhotite in bleached marble.

GR01-46: LD93-4; 88 metres. Massive pyrite-pyrrhotite with sulphosalts.

GR01-47: LD93-4; 90 metres. Massive pyrite-pyrrhotite with white quartz blebs. 347153E 6161265N

GR01-48: LD93-4; 91.5 metre. Massive pyrrhotite-pyrite and white quartz blebs. 347153E 6161265N

GR01-67: LD20-07; 295 feet. Massive pyrite-pyrrhotite-chalcopyrite zone 1 metre from hornfels contact (at 301 feet).

Cross-cutting relationships show that the bulk of the Canyon Creek skarn formed early during an evolving, cyclic process that generated enormous volumes of garnet  $\pm$  pyroxene assemblages. These features suggest the presence of a potent, long-lived hydrothermal system that resulted in skarn replacement of the limestone, intrusions and previously hornfelsed argillite. The subsequent mineralization was controlled by structures, crystal grain boundaries, and other geologic discontinuities or lithological contacts in the skarn.

The skarn's outer contact with the country rocks is commonly sharp, the very pale brown-green garnet passing out to a narrow (< 2 metres) zone of strongly bleached marble. Locally, the marble-skarn contacts are occupied by irregular blebs and narrow zones of massive sulphide mineralization containing sphalerite, pyrite, pyrrhotite and minor chalcopyrite. Megaw (1999) considers these to be a transitional style of mineralization between the skarns and the more distal mantos.

#### MANTOS (NUMBERS 2, 3 AND 4B ZONES)

The Canyon Creek skarn passes southwards into a number of more or less stratigraphically concordant massive sulphide mantos and their oxidized equivalents. The mantos are best developed along permeable carbonates, particularly where these rocks are in close proximity to chlorite-altered mafic tuff beds. They tend to occur as

#### TABLE 2E ASSAY DATA OF SULPHIDE AND SULPHOSALT-BEARING VEINS, NUMBER 1 ZONE (TAKLA SILVER MINE), LUSTDUST PROPERTY

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NO.	GR01-5	GR01-26	GR01-27	GR01-101	GR01-42
Ag	167	6277.2	5513.4	1030	840
As	>10000	>10000	>10000	>10000	>10000
Au	4300	6400	4200	12050	4800
Bi	1.1	0.5	0.6	3.5	1.21
Cd	246	301	176	81.6	52.7
Ce	0.9	0.4	<0.10	0.2	0.64
Co	<1.0	<1.0	<1.0	<1.0	0.4
Cr	140	60	80	40	117
Cu	198.3	7980	4110	1000	861
F	40	30	30	30	40
Fe	19.4	7.18	5.34	14.65	9.6
Ga	3	5	2	0.5	1.5
Ge	0.5	<0.50	<0.50	<0.50	7.9
Hg	16510	>100000	62500	11560	19150
In	1.9	0.25	0.25	0.15	0.15
K	0.04	0.01	0.01	<0.01	<0.01
La	5	10	10	10	4
Mg	<0.01	<0.01	0.01	<0.01	<0.01
Mn	50	350	550	300	290
Mo	<0.50	<0.50	<0.50	6	5.1
Na	0.03	0.02	0.02	0.03	<0.01
Ni	2	8	<2.0	4	3.8
Р	<100	<100	<100	<100	120
Pb	68300	146000	223000	158000	57300
S	>10.00	>10.00	>10.00	>10.00	8.78
Sb	>1000.0	>1000.0	>1000.0	>1000.0	>1000.0
Se	<10	<10	<10	<10	<1
Sn	6	16	30	16	5.6
Те	<0.50	< 0.50	< 0.50	0.5	0.05
TI	>500	>500	>500	310	>500
U	1	2	2	3	0.8
V	<10	<10	<10	<10	3
W	1	<1.0	<1.0	2	0.4
Zn	2920	31900	11000	820	2230
Sample	e descriptio	ns & locatio	ns:		

GR01-5: Pyrite, sulphosalts, arsenopyrite, scorodite.

347853E 6160749N

GR01-26: No. 1 Zone. Pyrite, sulphosalts, arsenopyrite, scorodite. 347855E 6160516N

GR01-27: No.1 Zone. Pyrite, sulphosalts, arsenopyrite, scorodite with white quartz. 347860E 6160518N

GR01-101: No.1 Zone. White guartz vein with tetrahedrite-pyrite. 347860E 6160518N

GR00-42: No. 1 Zone. Sphalerite-sulphosalts. 349647E 6159929N

flat-lying to gently-inclined, elongate zones developed along structurally thickened and deformed antiformal crests. However, drilling has not revealed any substantial chimney feeders for these bodies, which appear to be stacked in successive limestone beds, resulting in "saddle-reef" morphologies (Megaw, 1999). From south to north the clusters of mantos have been designated the Numbers 2. 3 and 4B-Zones (Figure 2; Evans, 1996, 1997; Megaw, 2001). They crop out in an en echelon fashion (Figure 2), and the northernmost bodies, the Number 4B Zone, appear to merge into the Canyon Creek skarn.

The 4B Zone is well exposed in a number of trenches and its mantos and carbonate replacements appear to be developed along a tight, gently northwest plunging antiformal fold whose axial plane is steeply west dipping. The aligned

#### TABLE 3 AVERAGE ASSAY VALUES AND METAL RATIOS FOR THE VARIOUS STYLES OF MINERALIZATION, LUSTDUST PROPERTY

	Glover	Canyon	No. 4B Zone		No. 1 Zone
	Stock	Creek	Pyrrhotite	Sphalerite-	Distal
	Porphyry	Skarn	& pyrite-rich	rich mantos	veins
			masses		
	(n=5)	(n = 19)	(n = 7)	(n = 15)	(n = 5)
Hg (ppb)	6	38	65	545	41944
Au ppb	5	1520	661	2824	8150
Ag	0.4	43.8	15.2	81	2765.5
As	39	1140	3826	2/23	>10000
Ba D:	1320	39	20	100	1.4
BI Cd	0.5	21	194	102	1.4
Ce	84.8	43.7	10.8	2.8	0.4
Co	5.4	-5.7	47	107	0.5
Cr	107	112	90	60	87
Cs	2.1	0.9	0.8	0.3	4.5
Cu	106	17955	3413	12642	2830
F	708	304	660	108	34
Ga	18.2	14.8	4.1	7.8	2.4
Ge	0.2	0.8	0.9	3.0	1.8
Hf	2.82	4.86	0.31	3.66	2.80
In	0.1	9.0	1.6	16.2	0.5
La	50.2	19.1	8.5	3.6	7.8
Li	3.5	1.8	7.5	1.1	7.8
Mn	216	1609	531	1181	308
Mo	467	54	8	5	2
Ni	7	150	19	177	4
Р	1118	1201	1471	408	64
Pb	31	56	4443	16267	130520
Rb	81.4	17.0	15.1	1.9	1.6
Nb	13.3	2.3	0.9	0.6	1.5
50	23	31	455	4/0	1000
50 Sn	1.0	17.2	26	03.1	4.1
Sr	763	23	2.0	2.1	14.7
Te	0.3	73	30.7	17.0	03
Th	29.9	20.4	0.9	25.9	39.6
TI	0.9	0.9	0.3	10.5	462
U	4.0	13.5	4.9	4.2	1.8
W	4	233	22	43	1
Zn	368	12056	17920	185673	9774
Al (%)	6.76	1.29	0.46	0.06	0.02
Ca (%)	1.82	13.51	0.85	2.56	0.08
Fe (%)	1.75	14.98	24.93	19.39	11.23
K (%)	2.57	0.42	0.15	0.02	0.02
Mg (%)	0.69	0.72	0.42	0.21	0.01
Na (%)	2.38	0.08	0.01	0.02	0.02
S (%)	0.60	4.41	>10	7.70	9.76
Cu/Au	22848	18043	4583	4123	506
Cu/Ag	296	415	183	88	1
Zn/Pb	16	1460	7	5740	0.1
Zn/Au	03522	8162	160149	670805	1763
Cu/Mo	4.50	3563	2352	2828	9898

massive sulphide pods follow either the fold crest or a thrust that separates limestones from hornfelsed graphitic phyllites further east (Megaw, 2001). A mafic tuff horizon within the limestone appears to have been an important conduit for fluid movement. There are two styles of mineralization in the 4B Zone. The most common and economically important comprises 10 to 50 % massive, dark brown to black sphalerite with variable amounts of pyrite ± arsenopyrite  $\pm$  well-zoned pyrrhotite  $\pm$  chalcopyrite  $\pm$  an unidentified grey, fibrous sulphosalt mineral that may be boulangerite. bournonite and/or tetrahedrite-tennantite (Leitch, 2001b). Calc silicate minerals generally make up < 1% of the rock and may include thin veins of chloritized clinopyroxene.



Figure 6. Plots comparing the chemistry of the Number 1 Zone veins (open diamonds) and the sphalerite-rich mantos (filled triangles), Lustdust property. Data from Tables 2C and 2E.

The other style occurs as small (commonly < 1.5 m thick) pods and veins of coarse-grained pyrite-pyrrhotite-dominant mineralization. Pyrite both replaces, and is replaced by, pyrrhotite. Sphalerite in this style of mineralization is generally less abundant (< 10 %), although arsenopyrite, sulphosalt minerals and trace amounts of galena are sporadically developed (Table 2D).

Polished thin section studies (Leitch, 2001a) indicate the subhedral to euhedral sphalerite crystals in the 4B Zone to be almost opaque, suggesting a high Fe content. The crystals reach 3 mm in diameter and contain small (< 25 microns) inclusions of pyrrhotite and larger inclusions of an unidentified bladed silicate. Pyrrhotite and/or pyrite may each locally exceed 50 % of the mineralization. The former mineral comprises subhedral lath-shaped crystals up to 0.5 mm long whereas pyrite cubes, up to 0.75 cm, contain irregular core zones with abundant small silicate inclusions. Gangue minerals include up to 5 % sericite with lesser secondary quartz, calcite and amorphous limonite. Contacts between the massive sulphides in the 4B Zone mantos and the bleached, recrystallized limestone country rocks are generally very sharp. Replacement features include "scalloped" contacts and in some bodies the massive sulphides contain small, (< 0.3 m) round and isolated remnants of altered limestone. Drilling parts of the 4B Zone between 1992 and 1999 indicates a probable resource of 250,000 tonnes grading 1.3 g/t Au, 12 g/t Ag and 5.5 % Zn with possible Pb, Cu, In, Ge and Ga credits (Megaw, 2001).

The 3-Zone further south (Figure 2) contains the largest manto resource identified at Lustdust. It is entirely oxidized to a 50 m depth, possibly due to pre-glacial weathering. Below this depth, drilling intersects primary pyrite, pyrrhotite and sphalerite with elevated Au grades (Megaw, 2000, 2001). The thickest portions of the 3 Zone mantos occupy the crest of a small-scale anticline and are hosted by carbonates that are interbedded with mafic tuffs. Surface trenching reveals local sections assaying up to 17.9 g/t Au and 69.4 g/t Ag over 4 metres. Drilling from the 1950's to 1991, outlined a probable oxide resource of 650,000 tonnes grading approximately 3 g/t Au, 20 g/t Ag and 5 % Zn (Megaw, 2001).

The Number 2 Zone represents the most southerly development of manto mineralization at Lustdust (Figure 2). It is a minor oxidized replacement zone similar to the 3-Zone further north. However, it is probably controlled by a small synform and mineralization is traceable for 200 m along strike. Surface sampling (Megaw, 2001) indicates an average of 2.3 g/t Au, 109 g/t Ag, 2.16 % Zn and 2.09 % Pb across 5.3 meters true width.

#### NUMBER 1 ZONE VEINS

The Number 1 Zone veins at the southern end of the property were the target for exploration in the 1940's that led to the underground test workings at the former Takla Silver Mine (Figure 2). In this vicinity, bleached and recrystallized limestones and graphitic phyllites are intruded by numerous thin felsic dikes. At least four, steeply dipping, en echelon, fault-controlled veins and tabular replacements are hosted by the recrystallized limestones or follow dike margins. The veins comprise largely sulphides and sulphosalts with some open-space filling by quartz and calcite. In some outcrops the vein quartz is brecciated and recemented by later quartz and/or calcite. The principal quartz-sulphide vein was explored by underground drifting and drilling in the 1940's and 1960's. Sutherland Brown (1965) and Mathieu and Bruce (1970) identified a number of sulphide, arsenides, and complex sulphosalt minerals, including sphalerite, pyrite, stibnite, boulangerite (Pb5Sb4S11) and realgar. Mathieu and Bruce (1970) noted differences in the mineralogies of the underground and surface trench samples. The latter were oxidized and included a variety of Pb antimonides and secondary Pb-bearing minerals, such as jamesonite, zinkenite, anglesite and Tl-bearing twinnite. In addition, the surface samples contained sphalerite and Ag-bearing tetrahedrite, tennantite and andorite, as well as valentinite, pyrite, arsenopyrite, covellite, chalcopyrite, and scorodite Fe(AsO<sub>4</sub>). 2H<sub>2</sub>O) with a gangue of quartz and dolomite. The underground samples had fewer Pb antimonides; the major ore minerals identified included arsenopyrite, pyrite, with lesser sphalerite and jamesonite (Pb<sub>4</sub>FeSb<sub>6</sub>S<sub>14</sub>) and minor amounts of andorite, argentiferous tetrahedrite, miargyrite, realgar, stibnite and chalcopyrite in a gangue of quartz, calcite and minor dolomite. No gold was observed in the mineralogical study (Mathieu and Bruce, 1970), but their tests suggested the metal was associated with pyrite and arsenopyrite.

In a polished thin section study, Leitch (2001a) tentatively identified the presence of bournonite (PbCuSbS<sub>3</sub> (2PbS.Cu<sub>2</sub>S.Sb<sub>2</sub>S<sub>3</sub>). The abundant quartz consists of zoned crystals up to 4 mm across, and the arsenopyrite is distinctly more fractured than the pyrite. The sphalerite crystals, which are intergrown with secondary quartz and arsenopyrite, are strongly zoned with dark cores and paler rims.

#### CHEMISTRY OF THE LUSTDUST MINERALIZATION

For this study, mineralized samples were collected from the Glover Stock porphyry, the Canyon Creek skarn, the sphalerite-rich and pyrite-pyrrhotite replacements in the 3 and 4B zone mantos, and the distal Number 1 Zone veins. The analytical data for these five styles of Lustdust mineralization are presented in Tables 2A to 2E, and the average values and metal ratios are summarized in Table 3. These data demonstrate the north to south chemical zoning at Lustdust. The porphyry has the highest Mo content (average 467 ppm) and there is a progressive decrease in this metal in the skarn, mantos and more distal veins (Table 3). The highest Cu values occur in the Canyon Creek skarn and the 4B sphalerite-rich mantos (averages 17955 ppm and 12642 ppm respectively), while the Number 1 Zone veins and the porphyry have a much lower Cu content.

Unlike Cu and Mo, virtually all the other metals and pathfinder elements listed in Table 3 increase in value towards the more distal, southernmost parts of the mineralized system. The highest average values for Au, As, Hg, Pb, Sb, Sn and Tl are found in the Number 1 Zone veins (Table 3). Exceptions to this include the elements Bi, Cd, Co, Fe, Ni, Se, Te and Zn which occur in far greater abundances in the two styles of mineralization present in the 3 and 4B zone mantos (Table 3).

Figure 6 illustrates some of the chemical differences between the Number 1 Zone veins and the 4B Zone sphalerite-rich mantos. The veins generally contain significantly more Hg, As, Au and Tl than the mantos, and in the latter there is a moderate to good positive correlation between Au:Cu. The Zn versus Pb plot in Figure 6 shows the manto samples are separable into low-Pb and high-Pb populations. The high-Pb population is more chemically similar to the Number 1 Zone veins.

Plots of assay data for the Canyon Creek skarn are shown in Figure 7. These demonstrate good positive correlations between Au:Cu, Au:Ag and Ag:Cu. There is also an excellent positive relationship between Bi:Te, suggesting the presence of trace amounts of bismuth tellurides in the skarn. However, no significant correlations are seen between Au:Te, Au:Bi or Au:Fe, and the Au:As plot indicates a weak negative relationship. Figure 7 strongly suggests that





Figure 7. Chemical plots of samples from the Canyon Creek skarn, Lustdust property. Data from Table 2B.

both the Au and Ag in the skarn are associated with chalcopyrite and possibly bornite, and that Au lacks any close association with arsenopyrite or bismuth tellurides. These features, and its Cu:Au, Cu:Ag, Zn:Au and Ag:Au ratios (Table 3; Figure 8) typify Cu skarns rather than the Hedley-type Au skarns (Ray *et al.*, 1996; Ray and Webster, 1997).

#### SUMMARY AND CONCLUSIONS

• Alpha Gold Corporation's Lustdust property, which lies 210 km northwest of Prince George, represents one of the

best examples of a zoned porphyry-skarn-manto-vein mineralized system in the Canadian Cordillera.

- Mineralization is developed over a 2.5 km strike length and is related to a small, post-tectonic intrusion, the Glover Stock, and an associated swarm of felsic dikes and sills. The multiphase, composite stock includes mafic dioritic and more leucocratic monzonitic phases, and preliminary U-Pb zircon dates of circa 51-52 Ma on both phases suggest an Eocene intrusive age.
- The stock lies < 2 km west of the Pinchi Fault and it intrudes a deformed package of Cache Creek Terrane argillites, tuffs, cherts and mid to Late Permian lime-



#### Canyon Creek Skarn (Lustdust property)

Figure 8. Metal ratio plots for Canyon Creek skarn samples. (a) Cu/Au *versus* Zn/Au

(b) Cu/Au versus Ag/Au

(c) Au versus Au/Cu.

Note the Canyon Creek samples plot within the Cu skarn field. Fields for Au, Cu, Fe and Zn skarns in BC from Ray *et al.* (1996); Ray and Webster (1997).

stones. The north-trending Pinchi Fault separates the Cache Creek rocks from the large, multi-phase Jura-Cretaceous Hogem Batholith in the Quesnel Terrane further east.

- The Glover Stock hosts some Mo porphyry mineralization marked by several generations of barren and sulphide-bearing quartz  $\pm$  sericite  $\pm$  K feldspar  $\pm$  tourmaline veins. Mineralization includes molybdenite with lesser chalcopyrite and rare bornite. This is associated with extensive potassic alteration (K feldspar, sericite and biotite) as well as lesser amounts of albitic metasomatism.
- Outboard from the Glover Stock is developed a north-trending, 2.5 km-long discontinuous belt of mineralization. This comprises the proximal Cu-Au (Zn) Canyon Creek skarn, intermediate Zn (Au, Cu, Pb, Bi) mantos (the 2, 3 and 4B zones) and more distal, sulphide and sulphosalt quartz veins enriched in Au, Ag, Pb, Zn, As, Hg and Tl (the Number 1 Zone).
- Controls of the skarn, manto and vein mineralization include the presence of: (1) permeable carbonates, (2) lithological contacts, including sill-dike margins and limestone-tuff contacts, (3) gently north-plunging fold axes, and, (4) faults and shears.
- The lack of ductile structures within the intrusion, the extensive skarn envelope and the brittle-fracture-control of the veins and some mantos are evidence that the Glover Stock was emplaced at a higher structural level. This conclusion is supported by fluid inclusion studies indicating the system formed at depths between 1.1 km and 1.9 km, assuming a lithostatic regime (Dunne and Ray, 2002, this volume). The much higher depth estimates calculated assuming hydrostatic conditions (Dunne and Ray, 2002, this volume) may reflect episodic over-pressuring followed by structural release to produce the hydrothermal breccias seen in the porphyry, skarn and Number 1 Zone veins.
- The Eocene age of the Glover Stock and its REE chemistry (Figure 5) are strong evidence that the stock and the mineralization are not related to the nearby Jura-Cretaceous Hogem Batholith (Figure 1). Instead, the stock may belong to a widespread suite of Eocene plutons, some of which are associated with Cu mineralization. One example includes the intrusions in the Babine porphyry Cu belt (Dirom, 1995; Schiarizza and MacIntyre, 1999), situated approximately 80 km southwest of Lustdust. Another possible body of this type intrudes Cache Creek Terrane rocks at Rubyrock Creek, approximately 100 km south of Lustdust (MacIntyre and Schiarizza, 1999).
- Gold-bearing Cu skarns and Zn mantos associated with Mo porphyry systems are rare and there are few reported analogues to the Lustdust property in British Columbia. Foreign examples may include the Antamina and Magistral porphyry-skarn deposits in Peru (Redwood, 1999; Northern Miner, 2001). These deposits differ in a number of ways from Lustdust, including their geological setting (continental shelf-carbonates versus oceanic carbonates). However, similarities include (1) a large and metal-rich hydrothermal system related to a shallow-level, Mo-bearing, monzonitic pluton, and (2) an extensive skarn envelope comprising abundant distal green garnet and proximal darker brown garnet. Mineralization at Antamina, like Lustdust, is also Zn-rich.
- The presence at Lustdust of high-grade polymetallic mineralization over a 2.5 km distance suggests a powerful,

metal-rich hydrothermal system. The potential for further discoveries of mineralized mantos, skarn and porphyry on the property is excellent because drilling to depth reveals an increased development of retrograde alteration, sulphides and darker-coloured, proximal-type garnet. Drill intersections through skarn during the 2001 season included hole DDH01-44 which cut 59 m grading 0.8 % Cu and 0.67 g/t Au and hole DDH01-47 which cut 37 m assaying 0.92% Cu and 0.68 g/t Au (Alpha Gold Corp. News release, October 1st 2001).

• The Number 1 Zone veins most likely represent distal mineralization related to the Glover Stock. Alternatively, they could be high sulphidation veins that formed above another buried intrusion related to the Glover Stock (*see* Figure 9, Dunne and Ray, 2002, this volume). Either of these possibilities, together with the high Hg content of the Number 1 veins, raises exciting chances that some of the numerous Hg occurrences along the Pinchi Fault (Figure 3) represent distal or upper level expressions of hidden, Eocene-age porphyry systems. Thus, the long belt of Cache Creek carbonates along the Pinchi structure warrant exploration for Lustdust-type porphyry-skarn-manto-vein targets (Figure 3), as well as for the other types of mineral deposits suggested by Nesbitt and Muehlenbachs (1988) and Albino (1988).

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We dedicate this paper to the memory of our colleague, Keith Glover, who died tragically during this project. The Glover Stock is named for him, as his geological contribution to understanding the deformational history of the area and the structural controls of the mineralization were just beginning to bear fruit.

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