MAP NO.:	ASSESSMENT REPORT	X	DOCUMENT NO: 092748
	PROSPECTUS		MINING DISTRICT: Dawson
115 P 14,15	CONFIDENTIAL	X	TYPE OF WORK: Geology, Geochemistry,
	OPEN FILE		Geophysics, Diamond Drilling

REPORT FILED UNDER: Goldrite Mining Corporation Ltd.

DATE PERFORMED: June 2 - September 11, 1988 DATE FILED: September 15, 1989

LOCATION: LAT.: 63° 52'N AREA: Clear Creek

LONG.: 137° 05'W VALUE $: 35 000.00

CLAIM NAME & NO.: RUM 1-50 YA 88956 - YA 89005,RYE 43 YB 05665, RYE 45 YB 05666, RYE 47 YB 05667
RUM 50-90 YA 89345 - YA 89384,RYE 49 YB 05668, RYE 51 YB 05669
RYE 1-41 YB 05624 - YB 05664,RYE 53-84 YB 05670 - YB 05701
RYE 85-135 YB 17821 - YB 17904,ROLL 1-48 YB 17773 - YB 17820

WORK DONE BY: S.D. Robinson, R.A. Doherty (Aurum Geological Consultants Inc.)

WORK DONE FOR: Goldrite Mining Corporation

DATE TO GOOD STANDING:	REMARKS: #11 RHOSGOBEL, #12 PUKELMAN, #17 JOSEPHINE, #52 RUM

8 DDH - 1236.56 m.

66
238

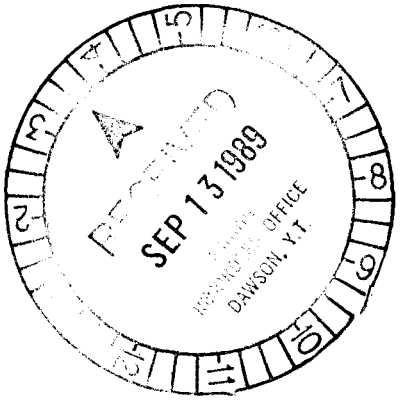
092748

GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL AND DIAMOND DRILLING 1988 SUMMARY REPORT on the RUM, RYE & ROLL CLAIMS

DAWSON M.D., Yukon
June 2-September 11, 1988

CLAIMS:
RUM 1-50 (YA88956-YA89005)
RUM 50-90 (YA89345-YA89384)
RYE 1-41 (YB05624-YB05664)
RYE 43 (YB05665)
RYE 45 (YB05666)
RYE 47 (YB05667)
RYE 49 (YB05668)
RYE 51 (YB05669)
RYE 53-84 (YA05670-YB05701)
RYE 85-135 (YB17821-YB17904)
ROLL 1-48 (YB17773-YB17820)

LOCATION:
1. NTS Map Sheets 115/P 14,15
2. 435 km North of Whitehorse, Yukon
3. Latitude 063° 52'N
   Longitude 137° 05'W



For: **GOLDRITE MINING CORPORATION**
620-625 Howe Street
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V6C 2T6

By: Sally D. Robinson, B.Sc. and
R. Allan Doherty, B.Sc.
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V6B 1N2

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 25,000.00.

Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

SUMMARY

Goldrite Mining Corporation's Clear Creek Property consists of 300 contiguous Quartz claims in the West Ridge area of the Dawson Mining District, Yukon Territory. It is accessible by road from Dawson City. Significant placer gold has been recovered from Left Clear Creek which drains the claim group.

The property is within the McQuesten Mineral Belt and is underlain by weakly metamorphosed and deformed Paleozoic metasediments that have been intruded by Cretaceous quartz-monzonite and granodiorite stocks.

Auriferous quartz-arsenopyrite stockworks occur at the intrusion margins. Metasediments also contain finely disseminated arsenopyrite-pyrite-pyrrhotite. Mineralization is related to zones of faulting and alteration, which are the locus of granodiorite/quartz-porphyry dikes containing disseminated auriferous arsenopyrite.

Two mineralized zones have been identified; the **Contact Zone** and the **Saddle Zone**. Both zones are related to ENE trending faults near intrusion contacts and contain quartz-arsenopyrite stockworks and disseminations. Alteration consists of locally intense sericitization, limonitization, argillic alteration, silicification and tourmalinization.

The **Contact Zone** is defined by a large irregular gold in soil anomaly ranging from 500 ppb Au to 3780 ppb Au. Two anomalous trends, 056° and 136°, are recognized and correspond with structural breaks. Eight diamond drill holes totalling 1236.56 meters were drilled on the **Contact Zone**. Seven of the holes intersected a distinct tabular fault and alteration zone containing gold mineralization in the 1 to 9 grams per tonne range, over a strike length of 275 m and a vertical distance of 170 m. The best intersections in the zone are at depth. The zone is open to both the east and west. Steep terrain prevented drilling the eastern extension of the zone where the best soil anomalies are found.

Reconnaissance and grid soil sampling on the **Saddle Zone** has outlined a 400 m x 240 m open ended, east-west trending gold in soil anomaly ranging between 500 and 3740 ppb Au. This anomaly is related to a fault structure visible on air photographs that has the same trend as the **Contact Zone** fault.

Preliminary mapping, sampling and diamond drilling results suggest that the property has very good potential to host an economic low grade high tonnage gold deposit. Continued exploration consisting of prospecting, mapping, geochemistry, geophysics, and diamond drilling are recommended.

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APPENDIX II: Rock Sample Descriptions Tables.
APPENDIX III: Geochemical Data.
APPENDIX IV: Diamond Drill Core Logs.

INTRODUCTION

This report was prepared at the request of Goldrite Mining Corporation. Its purpose is to summarize the economic potential of the **RUM**, **RYE** and **ROLL** Claims through a description of the 1988 mineral exploration program.

Exploration work carried out in 1988 included: Phase I (June 3rd to June 30th), which consisted of soil, rock, heavy mineral concentrate geochemistry (both reconnaissance and detailed), and magnetometer and VLF geophysical surveys. A brief summary report was written describing results of the Phase I program (Robinson and Doherty, 1988).

Phase II (July 17th to September 11th) involved follow-up soil and rock geochemistry, trenching (Golden Hill Ventures), and diamond drilling (Tonto Diamond Drilling). Drill collar, trench and limited claim surveys were completed by Underhill & Underhill Engineering Ltd., of Whitehorse. Following camp demobilization on September 11, 1988, colour 1:20,000 scale air photographs were taken of the property.

Supervision on site was carried out by Sally Robinson B.Sc., Geologist, assisted by Steven Tufford and Blayne Hunter B.Sc., Geologist. The geophysical surveys were carried out by Todd Ballantyne B.Sc., Geophysicist; all of Aurum Geological Consultants Inc.

Location and Access

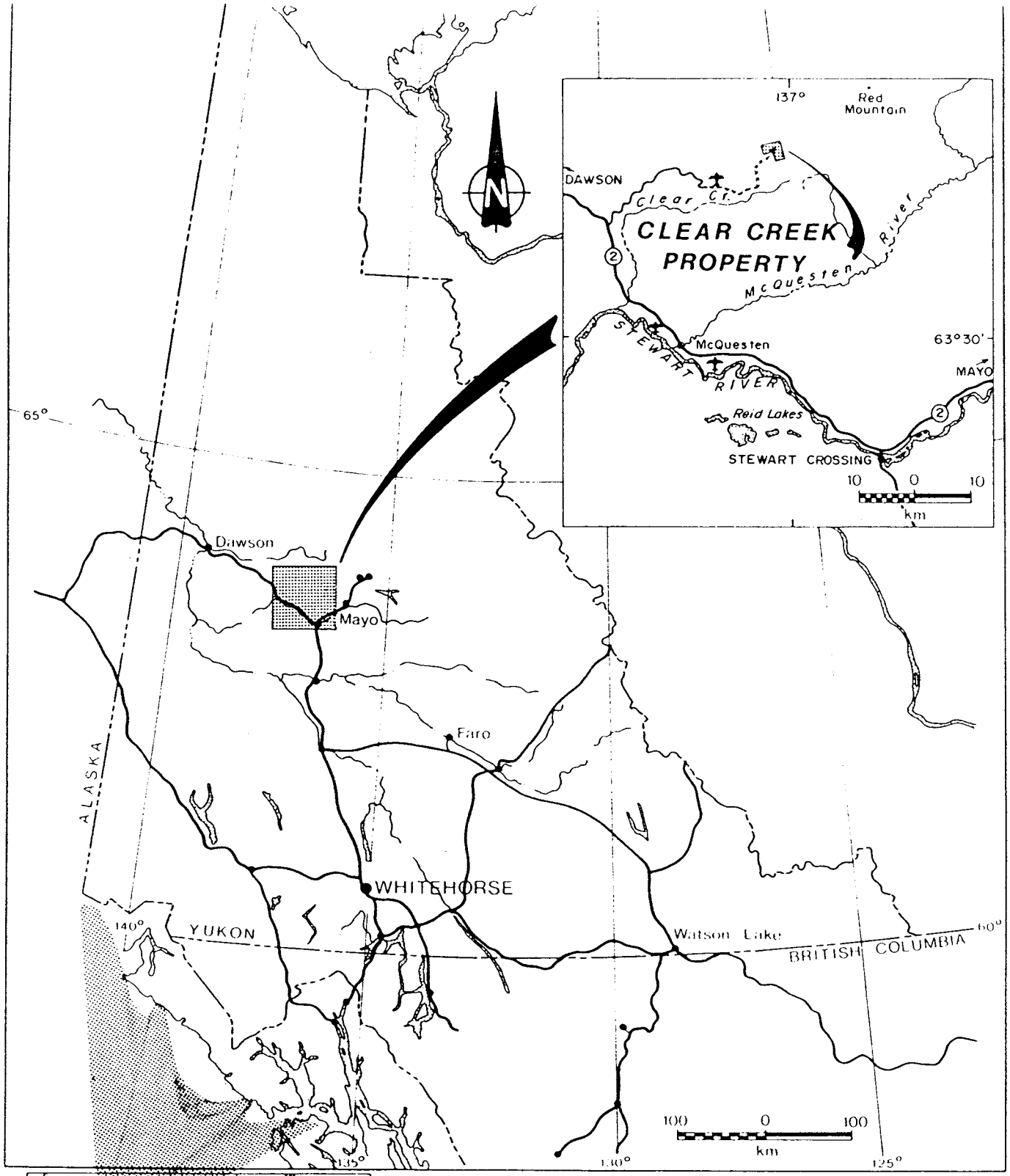
The Clear Creek Property is located in the Clear Creek area of the Dawson Mining District in central Yukon (Figure 1). Access to the property is via the Klondike highway north of Whitehorse for 435 km and then 37 km east on a well maintained gravel road to the west boundary of the property. This gravel road continues across the centre of the property to provide good 4 wheel drive access to a large portion of the property.

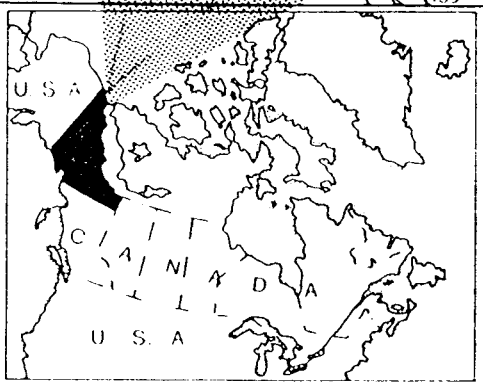
Property

The Clear Creek property consists of 300 contiguous unsurveyed quartz claims, staked in accordance with the Yukon Quartz Mining Act. The claims (RUM, RYE and ROLL) cover an area of approximately 15,495 hectares, and are known collectively as the Clear Creek Property.

The RUM 1-50 claims were staked in 1987 by Ron Robertson of Whitehorse; Kevin McCrory of Whitehorse later optioned a 30% interest in the claims. Soon afterward Goldrite Mining Corporation of Vancouver negotiated an option agreement whereby it can earn a 100% interest in the property. The RUM 51-90 claims were added to the claim block on June 10th, 1987,

The RYE 1-41, 43, 45, 47, 49, 51, and 53-84 were staked prior to the 1988 exploration program to cover adjacent areas of interest. RYE 85-168 claims and ROLL 1-48 were staked following encouraging trenching and drilling results and the release of a regional stream geochemical survey (Hornbrook and Friske, 1988).





GOLDRITE MINING CORP.

CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

LOCATION

Aurum Geological Consultants Inc.			Date: JUNE, 1988
NTS: 115P/14, 15	Drawn by NH		Figure : 1

Claim data are as follows (refer to Figure 2):

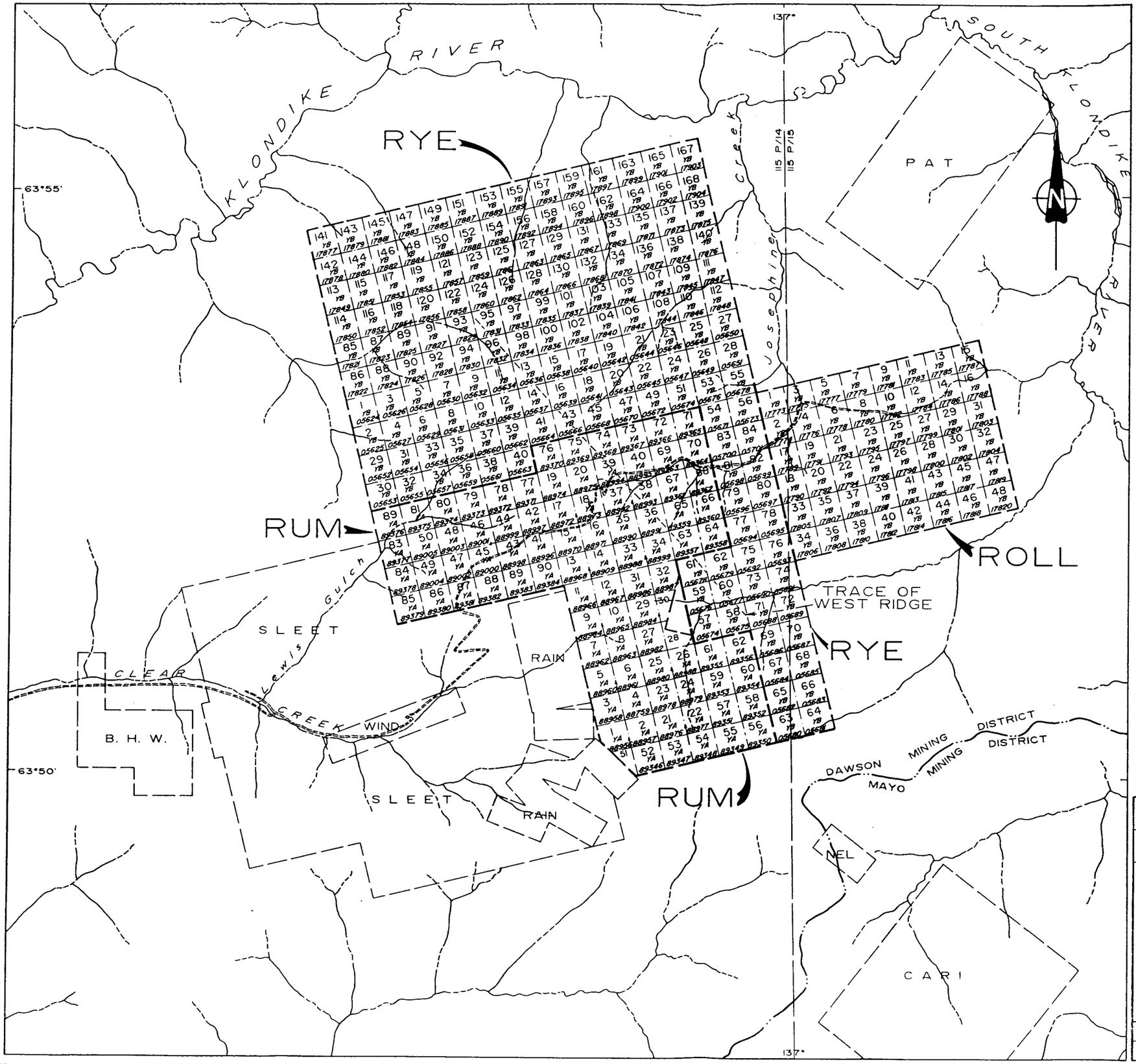
CLAIM NAME	GRANT No.	No. Claims	EXPIRY DATE
RUM 1-50	YA88956-YA89005	50	Apr. 1, 1990 *
RUM 51-90	YA89345-YA89384	40	Jun. 17, 1990 *
RYE 1-41,43, 45,47,49,51, 53-84	YB05624-YB05701	78	Jun. 8, 1989 *
RYE 85-168	YB17821-YB17904	84	Sep. 7, 1989 *
ROLL 1-48	YB17773-YB17820	48	Sep. 7, 1989 *

* Prior to filing assessment work from 1988 work program.

History

Placer Gold was first discovered in Clear Creek in 1898. Since then placer mining operations have been active throughout the area. There are presently a number of successful operations on the upper portion of Left Clear Creek which drains the central portion of the Clear Creek Property. The placers show concentrations of gold, scheelite, arsenopyrite, and tin.

Following the release of a 1969 regional stream sediment survey by Archer-Cathro and Associates Ltd., exploration for tin and tungsten mineralization took place in the late 1970's and early 1980's. Exploration work included soil geochemistry and geological mapping on the Pukelman and Rhosgobel stocks. Potential for significant scheelite, tin and gold mineralization was indicated.



LEGEND

- claim boundary
- claim number
- tag number
- staking direction
- creek, river
- 4WD trail

NOTE: adapted from D.I.A.N.D. map sheets 115 P-14 & 15

1000m 0 1000m 2000m 3000m
METRES

GOLDRITE MINING CORP.

CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

CLAIM MAP

Aurum Geological Consultants Inc.			AUGUST, 1988
NTS 115 P/4&15	DRAWN BY NH	SCALE 1:63,360	FIGURE: 2

During the 1980-1981 field seasons, Bema Industries Ltd., acting on behalf of Canada Tungsten Mining Corporation Ltd., staked 1,054 claims in the West Ridge area and optioned several adjoining properties. Approximately $500,000 was expended on a major tungsten exploration program. Some samples were analyses for gold in addition to tin and tungsten. Rock and soil samples returned anomalous gold values up to 45 g/t gold (1.313 oz/ton) and 5100 ppb gold respectively. In 1982 financial considerations and the declining world tungsten price forced Canada Tungsten to terminate work in the area.

During the period from September 28 to October 4, 1987 a brief exploration program consisting of soil sampling and prospecting was conducted by Aurum Geological Consultants Inc., under the supervision of George Nicholson of Goldrite Mining Corporation.

Physiography, Climate and Vegetation

The Clear Creek property straddles the north-south trending West Ridge of the southern Ogilvie Mountain Range. Elevations range from 900 meters to over 1800 meters.

Rugged mountains, cliffs and felsenmeer covered ridges and slopes are cut by a dendritic drainage system. An interior continental climate with moderate to low precipitation (30 cm annually), warm summers and cold winters typifies the area. Permafrost is discontinuous, present only on the steeper north and east facing slopes and low marshy forested areas. The property is usually snow free from mid June to late September.

Most of the property is above treeline; ground cover consists of moss, alpine plants, dwarf willow and birch. The

Most of the property is above treeline; ground cover consists of moss, alpine plants, dwarf willow and birch. The most recent glaciation did not cover this area of the Yukon except for small alpine glaciers on the highest peaks. As a result outcrop exposure is poor (<5%) except on ridge tops and along creek and stream gullies. A large portion of the property is covered by felsenmeer and talus fines.

REGIONAL GEOLOGY

The West Ridge area occurs within the McQuesten Mineral Belt (Aho, 1963) and is located on the northern limb of the east trending McQuesten anticline in the northeast portion of the Selwyn basin. The McQuesten mineral belt is a 30-50 km wide east-west trending belt which consists of a major transverse zone of ENE trending folds, Cretaceous (?) acid intrusions and related mineralization. The belt straddles the McQuesten anticline and extends from Clear Creek in the west to past the well known Mayo district in the east. The continuity of the McQuesten anticline throughout most of the McQuesten mineral belt, along with the similarities in rock type, structure, and mineralization have led to the conclusion that the area is one metallogenic district. Intrusion of acid stocks parallel to the fold direction has resulted in fault controlled mineralization spatially related to the stocks. Mineralization consists of; tin-tungsten and gold, silver-lead-zinc veins, and silver-lead-antimony veins. Mineralization associated with acid stocks occur at Clear Creek, Arizona Creek, Boulder Creek, Haggert Creek, Highet Creek and Mayo Lake Creek (Aho, 1963).

The area north of West Ridge is underlain by a sequence of Paleozoic (predominantly Ordovician to Devonian) sedimentary and metasedimentary rocks considered to be part of the Road River Formation (Emond, 1986). Lithologies

include; quartzites, conglomerate, sandstones, slate, phyllites and limestone (Bostock, 1964).

To the south, the West Ridge area is underlain by a thick, relatively monotonous sequence of Late Proterozoic-Early Paleozoic metamorphosed and deformed sedimentary rocks assigned to the "Grit Unit" (Green, 1971), also called the Yukon Group (Bostock, 1964).

Three phases of deformation have been recognized through stratigraphic and structural interpretation of folding and layering within the "Grit Unit" (Rainbird and Kelly, 1981). Most of the deformation is believed to predate the early Cretaceous (?) regional plutonism. Regional metamorphism has imprinted a greenschist facies metamorphic mineral assemblage on the "Grit Unit" rocks. The trace of the Tintina fault is 30 km west of the West Ridge area.

PROPERTY GEOLOGY

The Clear Creek Property is underlain by a sequence of metamorphosed and deformed sedimentary rocks of the Late Proterozoic-Early Paleozoic "Grit Unit". Northeast of the property the "Grit Unit" is overthrust by late Ordovician to early Silurian deep sea basinal metasediments believed to be part of the Road River Formation. These units have been folded and appear to be structurally positioned on the upper limb of a major nappe structure (Rainbird and Kelly, 1981).

Three large Cretaceous (?) stocks dominate the property and vary in composition from porphyritic quartz monzonite (Pukelman and Rhosgobel stocks) to granodiorite/quartz diorite (Josephine stocks). They appear to have been emplaced at relatively shallow depths and on a local scale, contact metamorphism up to the amphibolite facies has resulted in hornfelsing of the country rock. Numerous late

stage Cretaceous/Tertiary (?) dykes and sills attributed to late stage differentiates of the main magma chambers are seen throughout the property. Compositionally they include; quartz porphyry, granodiorite, aplite, feldspar porphyry, rhyolite, lamprophyre and other intermediate to mafic intrusive rocks. Figure 8, shows the property geology and rock geochemistry.

Stratigraphic relations are difficult to recognize within the "Grit Unit" due to the lack of outcrop (<5%) and degree of metamorphism and deformation in the area.

Lithologies

"Grit Unit"

Greywacke to dirty quartzite (**Pgw**), micaceous quartzite (**Pmq**) and sericite-muscovite-quartz-biotite semi-schist/phyllite (**Pph**) are the predominant metasedimentary units within the Clear Creek property. All of these units exhibit varying degrees of sericitization, silicification and limonite staining. The metagreywacke-greywacke/dirty quartzite contains thin layers of mudstone which host up to 4% finely disseminated pyrite, pyrrhotite and arsenopyrite. This unit contains more sulphides than the other metasedimentary units on the property.

Massive quartzite (**Pg**) is not as prevalent as the micaceous quartzite. Several outcrops were mapped in the northwest corner of the property. Graphitic phyllite (**Pgph**) and chlorite phyllite (**Pcph**) are noted in several areas; on Josephine Creek, and in the northwest corner of the property. Feldspathic quartzite (**Pfq**) occurs in outcrop south of the dyke in the **Contact Zone** and northeast of Josephine Creek. This unit is characterized by mm scale rounded, argillic altered feldspar within highly siliceous,

whitish buff, fine grained quartzite. Locally the quartzite is bimodal with mm scale rounded quartzite grains within a fine quartz rich groundmass. In places sericitic partings and a fine aplitic texture suggest a mylonitic origin. This unit may represent highly siliceous volcanic layers interbedded with the metasediments.

On a regional scale all of the "Grit Unit" rocks are metamorphosed to greenschist facies. Locally biotite, muscovite and minor staurolite, andalusite, potassium feldspar and garnet occur in the contact metamorphosed hornfelsed metasediments.

Interlayered quartzite and biotite schist (**Phqs**) and massive quartzite hornfels (**Phq**) are the most common hornfelsed rocks. They are recognized in the south and central part of the property associated with stocks, and in the northern part of the property associated with dykes, sills and plugs. Limits of the metamorphic aureole are not distinct although red-brown gossan zones resulting from the oxidation of iron rich silicates and sulphides helps to accentuate these units. Minor massive and interlayered biotite and chlorite schist (**Phs**) associated with the granodiorite stock occur along Josephine Creek.

Minor skarn (**Psp** and **Psw**) and weak carbonaceous metasediments were mapped along the road above the switchback to Josephine Creek. Minor scheelite was found associated with mm scale quartz sweats within the hornfelsed quartzites and schists.

Breccias (**Pb**) occur throughout the property, and are commonly associated with intrusive activity. They are predominantly clast supported with cm scale quartz and schist fragments in a fine quartz, biotite, limonite and

manganese rich matrix. The limonite and manganese result in a rusty weathered appearance.

Intrusive Rocks

The Rhosgobel and Pukelman stocks are composed of porphyritic quartz-monzonite (**Kqm**) and are located south of the headwaters of Left Clear Creek and Josephine Creek respectively. The Rhosgobel stock is approximately 12 km^2 whereas the Pukelman stock is 1.5 km^2. Both stocks have relatively sharp, steeply dipping contacts and appear to have been emplaced slowly; minor brecciation was noted.

The quartz-monzonite is medium- to coarse-grained and has up to 45% potassium feldspar phenocrysts. The phenocrysts, up to 1 cm long, are partially of replacement origin. The groundmass is composed mainly of potassium feldspar, quartz, and plagioclase.

The Josephine stocks are composed of quartz-diorite/granodiorite (**Kgd**) and jointly comprise an area of 7.5 km^2. Little associated brecciation was noted, suggesting a passive emplacement. The composition and spatial association indicate that these stocks may join at depth.

The quartz diorite/granodiorite (**Kgd**) are medium to fine grained and are predominantly porphyritic with feldspar, quartz, and biotite (mm scale) phenocrysts in a feldspar, quartz, biotite and occasionally calcite rich groundmass. All of the phenocrysts are anhedral to subhedral and show varying degrees of alteration (refer to section on alteration).

Quartz-porphyry (**Kqp**) is recognized in sill and dyke like bodies across the property. They vary from narrow

discontinuous tabular pods to 20 m wide and over a kilometer long. Little to no contact metamorphism is present suggesting a rapid emplacement. Texturally they vary from strongly porphyritic, with up to 25% mm scale di-pyrimidal quartz phenocrysts, to non-porphyritic. Compositionally they vary from quartz-rhyolite and dacite to a more mafic variety which is mapped as feldspar porphyry (**Kfp**).

Aplites (**Kap**) occur as narrow discontinuous dykes associated with the Rhosgobel and Pukelman stocks. They are predominantly quartz rich and are characterized by a fine saccharroidal texture. This unit is often difficult to distinguish from recrystallized hornfelsic quartzites.

Light grey dacite (**Kd**) float occurs near 33+00N, 33+50E on the Pukelman Grid and in the area of the **Gossan Zone**. It has an aphanitic groundmass composed of mm size ash and anhedral feldspar crystals suggesting a pyroclastic origin.

Lamprophyre and intermediate to mafic dykes (**Kld**) occur throughout the area. They are medium- to fine-grained and biotite rich, resulting in a red brown hue on weathered surfaces. Cross-cutting relationships with other intrusions suggest that this is the latest intrusive event.

For more detailed descriptions of petrography, alteration and textures of the lithological units, refer to Appendix I.

Contact Zone (Pukelman South Grid) Geology

The Phase I program, resulted in the discovery of the **Contact Zone** with anomalous soil, and float rock samples carrying up to 2525 ppb Au and 19.54 g/t Au (0.57 opt) respectively. Detailed mapping and sampling at 1:2500 scale

(Figure 9), was completed during Phase II prior to diamond drilling. A granodiorite/quartz-porphyry dyke was outlined trending approximately 050° and dipping steeply to the north, with an inferred length of over 1 km. Subsequent information from diamond drilling indicates that the dyke dips at approximately 080°N. Argillic altered granodiorite/quartz-porphyry was noted at several locations along a topographic depression associated with the dyke, suggesting a possible fault zone. In and next to the main dyke a large number of float samples of cm and dm scale quartz-arsenopyrite stockwork vein material was sampled; anomalous values up to 194 g/t AU (5.673 opt) were not uncommon along the entire 1 km strike length,(Figure 9).

Slickensides and fracture sets at 126° and 042° in outcrop at 33+00N and 34+00E suggest conjugate faulting. This outcrop lies south of the main dyke and consists of feldspathic quartzite (**Pfq**) that in places resembles a mylonite. Here, faulting does not appear related to the above mentioned depression and consequently represents another target of interest.

The metasediments in this area are hornfelsed due to the proximity of the Pukelman stock and are predominantly composed of interbedded micaceous quartzite, sericite-muscovite-quartz-biotite schist and dirty quartzite/metagreywacke which have been fractured, sericitized, and locally limonitized and silicified. A well developed foliation overprints bedding and trends at approximately 085° and dips (20-40°) north. Jointing is pervasive and appears to have a conjugate relationship with the McQuesten Anticline. The main orientations are approximately 180°, 090°, and 040° which represent cross longitudinal and oblique joints respectively; all dip steeply to vertical and are similar in orientation to dykes and faults in the area.

Tourmaline is found throughout the grid area but is most prevalent in the area around 37+00N, 40+00E where it occurs within brecciated quartz-arsenopyrite-pyrite veins and within the metasediments. The tourmaline is concentrated as fine needles on sericitic foliation planes. (For further discussion on this area refer to the geochemistry and drilling sections).

ALTERATION

Alteration includes argillic, sericitic, limonitic and minor greisen alteration, silicification, and minor tourmalinization.

Sericite alteration is the most common and appears to be both metamorphic and post metamorphic. It is pervasive within the metasediments and is also noted within the intrusives, usually related to structural breaks or retrograde alteration within the large stocks as a result of late stage cooling. Limonite staining is strongest within the hornfelsed metasediments due to the large proportion of biotite. It is also found within the intrusives and associated breccias, concentrated in areas of faulting.

Argillic alteration is most extensive within the late stage felsic dykes, especially in areas of faulting. The granodiorite/quartz-porphyry dyke in the **Contact Zone** and a small granodiorite stock on Josephine Creek were the most argillic altered units noted on the property. Minor degrees of argillic alteration were also noted within granodiorite/quartz-porphyry dykes in the **Saddle Zone.** Within the metasediments, argillic alteration was only noted in areas of faulting.

Silicification, bleaching and stockwork quartz is found associated with the main stocks and to a lesser extent with felsic dykes. These zones tend to be narrow and discontinuous.

Tourmalinization is found locally within the metasediments and is spatially associated with the main stocks on the property. Fine tourmaline needles are concentrated on sericitic foliation planes throughout the **Contact Zone** area.

MINERALIZATION

Arsenopyrite is the most common sulphide, although minor pyrrhotite, pyrite, galena, chalcopyrite and stibnite were also noted. Arsenopyrite occurs with scorodite in glassy white saccharroidal and drusy quartz veins. The arsenopyrite is concentrated in mm scale blebs along vein selvages and as euhedral needles on fracture surfaces. It is found finely disseminated in narrow quartz-monzonite and granodiorite dykes. Minor disseminated arsenopyrite occurs in the metasediments. Pyrrhotite is the next most common sulphide and is disseminated and concentrated on fracture surfaces within the metagreywacke and rarely within quartz stringers. The pyrrhotite is commonly associated with scheelite. Pyrite occurs uncommonly as euhedral mm scale cubes in the metasediments and the quartz-monzonite. Galena and minor stibnite occur on the **Galena Zone**, concentrated on micro-fractures within the phyllites and quartzites, or associated with quartz stringers in the lamprophyre dykes. Chalcopyrite was noted in trace amounts within quartz veins.

Most gold showings or geochemical anomalies on the property are associated with the quartz-arsenopyrite veins.

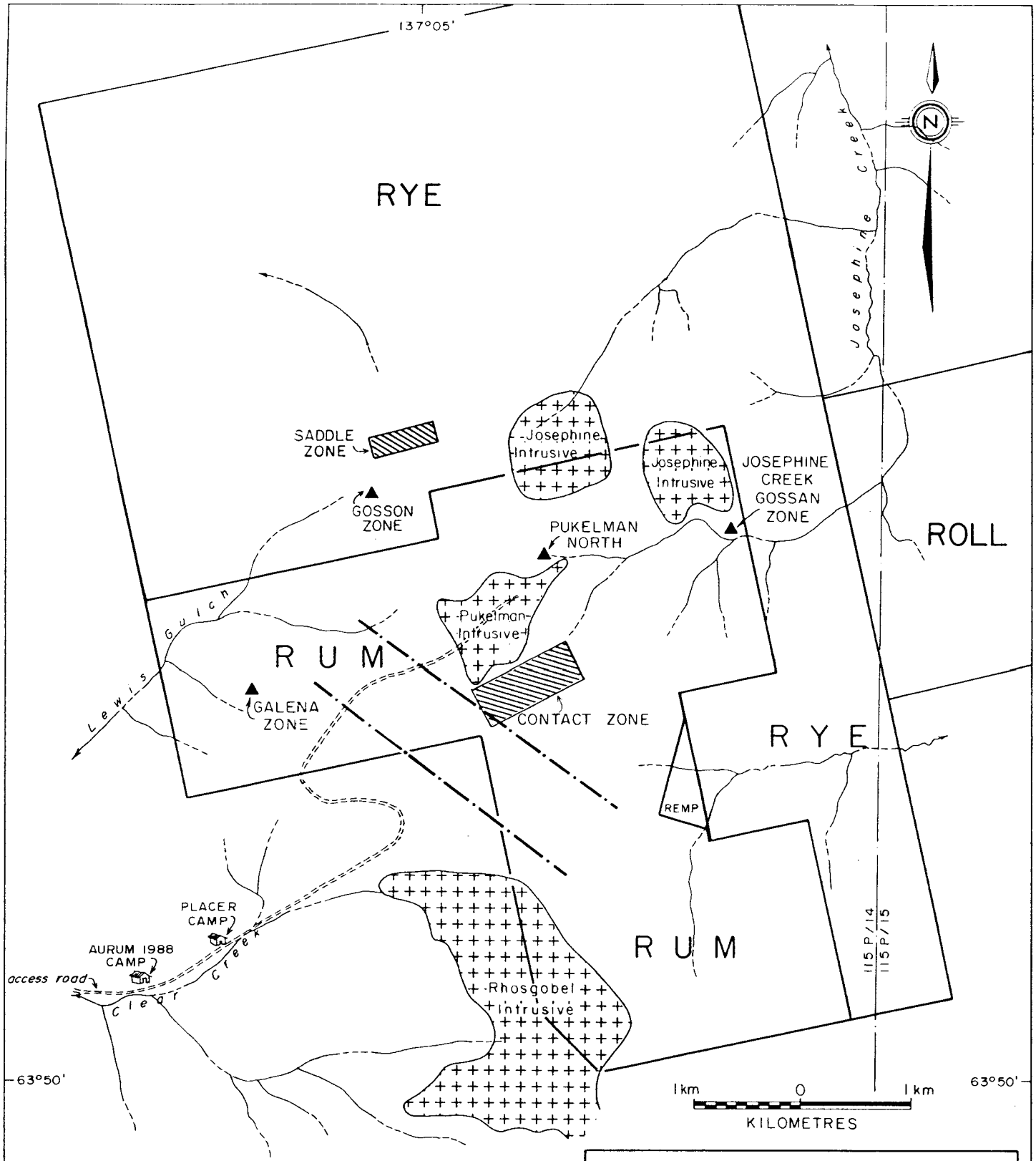
GEOCHEMISTRY

Introduction

The 1988 geochemical field work consisted of soil (talus fines), rock and minor heavy mineral concentrate sampling. A total of 1513 soil (talus fine) samples, 183 rock samples and 5 heavy mineral concentrate samples were analyses for gold, silver and arsenic at Bondar-Clegg and Company Ltd. Three grids were established; the Pukelman, Rhosgobel Extension and the Saddle Zone to cover three main auriferous zones. Reconnaissance scale sampling was completed on other areas of the property with an emphasis on saddles, gullies, gossanous areas, and anomalous samples or areas outlined by Bema Industries Ltd., in 1981. The three grid areas and other significant anomalous zones are discussed below (refer to Figure 3). For simplicity only the gold geochemical values are reported in the text. Arsenic values have a high positive correlation with gold, while silver values are commonly low and have low correlation with gold or arsenic.

A large percentage of rock samples collected were of angular float material from felsenmeer which was considered to be close to source.

Ten selected rock samples were run for "Gold + 17" to test for epithermal gold-silver pathfinder element anomalies. Copper, lead, antimony and mercury were all considered anomalous, for more detailed rock descriptions and locations refer to Appendix II, (refer to Appendix III for geochemical methods and data).



LEGEND

- main zones
- zone of interest
- lineament
- claim boundary

GOLDRITE MINING CORP.			
CLEAR CREEK PROPERTY DAWSON MINING DISTRICT			
ZONE LOCATION MAP			
Aurum Geological Consultants Inc.			SEPT, 1988
NTS 115P/14,15	DRAWN by SR/NH	SCALE ~1:5000	FIGURE: 3

Contact Zone-Pukelman Grid

A total of 863 soil samples were collected on the Pukelman Grid on 100 m x 50 m and 50 m x 25 m spacing. A total of 22.55 line Km of grid line were sampled; 168 samples returned values greater than 500 ppb Au and up to 3780 ppb Au. Of these, 156 form a large irregular shaped anomaly located at the southeast corner of the grid, referred to as the **Contact Zone** (Figure 3). This anomaly occurs on steep terrain with relative relief of approximately 500 meters. This has presented a problem with interpretation as dispersion is suspected although two trends have been recognized; 056° and 136°. Both trends correspond to lineaments noted on the ground and on air photographs, one of which (056°) is definitely a fault.

Rock sampling on the **Contact Zone** returned very encouraging results. Samples of quartz-arsenopyrite vein float consistently carried high gold values; 12 samples returned between 8.88 g/t AU (0.259 opt) and 194.48 g/t AU (5.673 opt). Most of the quartz-arsenopyrite vein float was found near the trace of the granodiorite/quartz-porphyry dyke that trends approximately 050° and dips steeply north. Anomalous float samples, considered close to source, were located over a 1 km strike length.

A sample of quartz-monzonite float (**Kqm**) with disseminated and euhedral arsenopyrite (<0.5%) on fracture planes taken near the south contact of the Pukelman stock and the metasediments returned 2170 ppb Au. The best sample from the main granodiorite/quartz-porphyry dyke that crosses this area returned 396 ppb Au and contained approximately 1% disseminated arsenopyrite. Breccia and arsenopyrite bearing dirty quartzite float samples from the western end of the

Contact Zone returned values of 568 and 1390 ppb Au respectively.

In the northeast corner of this grid a small anomaly with two limbs trending at 035° includes values up to 1330 ppb Au. An outcrop in this area returned 1363 ppb Au from a sample of dirty quartzite containing up to 3% sulphides (pyrite, pyrrhotite, arsenopyrite) and minor scheelite associated with fine quartz stringers.

Saddle Zone

The **Saddle Zone** is north of the road, just to the west of the Josephine stock. Reconnaissance and contour soil sampling over this zone returned anomalous values up to 4220 ppb Au. A small 0.7 km x 4.0 km grid was picketed and sampled on 100 m x 25 m intervals. Of 149 soil samples collected on the grid, 33 had values between 500 ppb Au and 3740 ppb Au. The main anomaly correlates from line to line suggesting a strong east-west trending zone that appears to relate to a lineament (possible structural break) visible on air photographs. The anomaly is open to both the east and west and has an orientation similar to the main structure drilled on the **Contact Zone.**

Limited rock sampling on the **Saddle Zone** returned 4290 ppb Au from a float sample of quartz porphyry containing 1-2% disseminated blebby arsenopyrite and 1% disseminated euhedral pyrite. Abundant altered granodiorite float was noted in the area. Locally, striations on fracture surfaces suggest fault movement.

Rhosgobel Grid

Three gold in soil anomalies collected on a 50m x 100m centres, from the **Rhosgobel Grid**, have values over 100 ppb Au and up to 408 ppb Au. The three zones consist of 3, 3 and 12 samples respectively, all three zones are open to the south. A float sample of quartz vein taken from the Rhosgobel stock returned 1141 ppb Au. A sample of tourmalinized and argillic altered quartz-monzonite returned 191 ppb Au.

Gossan Zone

This area is northwest of the Pukelman stock. Of 14 contour soil samples taken across this zone, at 10 to 25 meter intervals, 12 returned values between 105 and 571 ppb Au. A panned heavy mineral concentrate of rusty limonitic soil returned 1778 ppb Au. The gossan appears to be related to limonite altered, late stage granodiorite dykes, and limonite and manganese cemented breccias found at the margins of these intrusions, and biotite rich metasediments. Minor sulphides were noted.

Galena Zone

The **Galena Zone** (Figure 17) was discovered by Bema Industries Ltd., in 1981 when a rock sample of hornfelsed metasediment containing arsenopyrite, scorodite and galena returned an assay of 19.3 g/t gold (0.562 opt) and 227 g/t silver (6.64 opt).

Resampling in this area has returned only 3719 ppb gold from a quartz-arsenopyrite vein. Three lamprophyre dykes and a narrow granodiorite/quartz-porphyry dyke are associated

with this showing and are assumed to strike approximately E-W to ENE-WSW. Limonite and manganese stained breccia was found at the margins of these dykes. Contour soil samples in this area did not return any significant gold values.

Josephine Creek Gossan Zone

A strongly limonite and rusty weathered zone of metagreywacke intruded by granodiorite, lamprophyre and quartz-porphyry dykes and sills is located on the north side of Josephine Creek. Minor arsenopyrite and pyrrhotite were noted in quartz veins and disseminated within the metasediments. A quartz arsenopyrite vein sampled by Bema Industries Inc., returned an assay of 3.01 g/t Au (0.088 opt). The best lithogeochemical analysis from this zone was 114 ppb Au from a sample of breccia float next to a lamprophyre dyke (Figure 17). Two heavy mineral concentrate samples returned values of 315 and 114 ppb Au. Contour soil sampling above this outcrop area did not return any anomalous results.

East of the Josephine stock, a quartz-arsenopyrite vein returned 2190 ppb Au. Bema Industries Ltd. reported a 5.14 g/t Au (0.15 opt) assay from this outcrop.

TRENCHING

Eight trenches were excavated using a D7F caterpillar on contract from Golden Hill Ventures Ltd. All of the trenches were located on soil anomalies in the **Contact Zone.** Outcrop was found in only 5 of the trenches due to permafrost, steep slopes, and overburden depth. A total of approximately 2,236 m^3 was stripped. The trenches were mapped at 1:1000 scale and rock chip samples were collected

at meter scale intervals. Trenches # 1,3,4,5 & 6 are described briefly in the following sections. Trench maps showing geology and geochemical results are presented in Figures 18 to 22.

Trench # 1

This trench was excavated under a soil anomaly containing values up to 918 ppb Au, near a 126° structural lineament. The best rock chip samples were 286 ppb Au/0.90 m and 268 ppb Au/0.85 m. Both samples were taken from quartzite with narrow quartz-arsenopyrite stringers.

Trench # 3

Trench #3 was excavated over a soil anomaly containing values between 657 and 3780 ppb Au, which coincides with the 060° trending fault zone and related dyke. Both the structure and the dyke were exposed in the trench. The best rock chip samples were 8740 ppb Au/1.0 m and 656 ppb Au/1.2 m from manganese stained quartzite with quartz-arsenopyrite veins and argillic altered granodiorite respectively.

Trench # 4

This trench was excavated to uncover more of the zone exposed in Trench #3. Very little outcrop was exposed and the trench was not sampled.

Trench # 5

This trench was excavated on the ridge above a steep cirque which contained a 3357 ppb soil anomaly. The best rock chip samples, 916 ppb Au/1.0 m and 840 ppb Au/1.0 m were both from highly oxidized and locally manganese stained sericite schist.

Trench # 6

This trench was located up slope of drill hole CC-88-6 over anomalous soil values to 1626 ppb Au. The best rock chip samples returned 5100 ppb Au/0.55 m and 521 ppb Au/0.50 m from argillic altered feldspar biotite porphyry and very dark pyritic quartzite respectively. Two rock grab samples returned values of 59.96 g/t Au (1.749 opt) and 15.39 g/t Au (0.449 opt) over narrow widths of metasediments with quartz-arsenopyrite and pyrite veins.

GEOPHYSICS

Introduction

Approximately 15 man days of geophysical surveys were completed on the Clear Creek property. Work consisted of 20.4 line kilometers of magnetometer surveys on the Pukelman South Grid. Additionally seven test lines of VLF were completed across 126°and 060° trending lineaments, on the Pukelman South Grid, and across a lineament next to the Galena Zone.

Magnetometer Survey

An EDA OMNI IV Proton Precession Magnetometer (PPM) was utilized for the magnetometer survey. This unit consists of a field magnetometer and base station used to correct data for diurnal variation in the magnetic field. The instrument sensitivity is 0.1 gamma. Survey lines were spaced at 100 meter intervals and station readings were at 25 meter intervals. The data was down loaded onto an NEC Multispeed lap top portable computer and profiles and contour plots were generated from the corrected data.

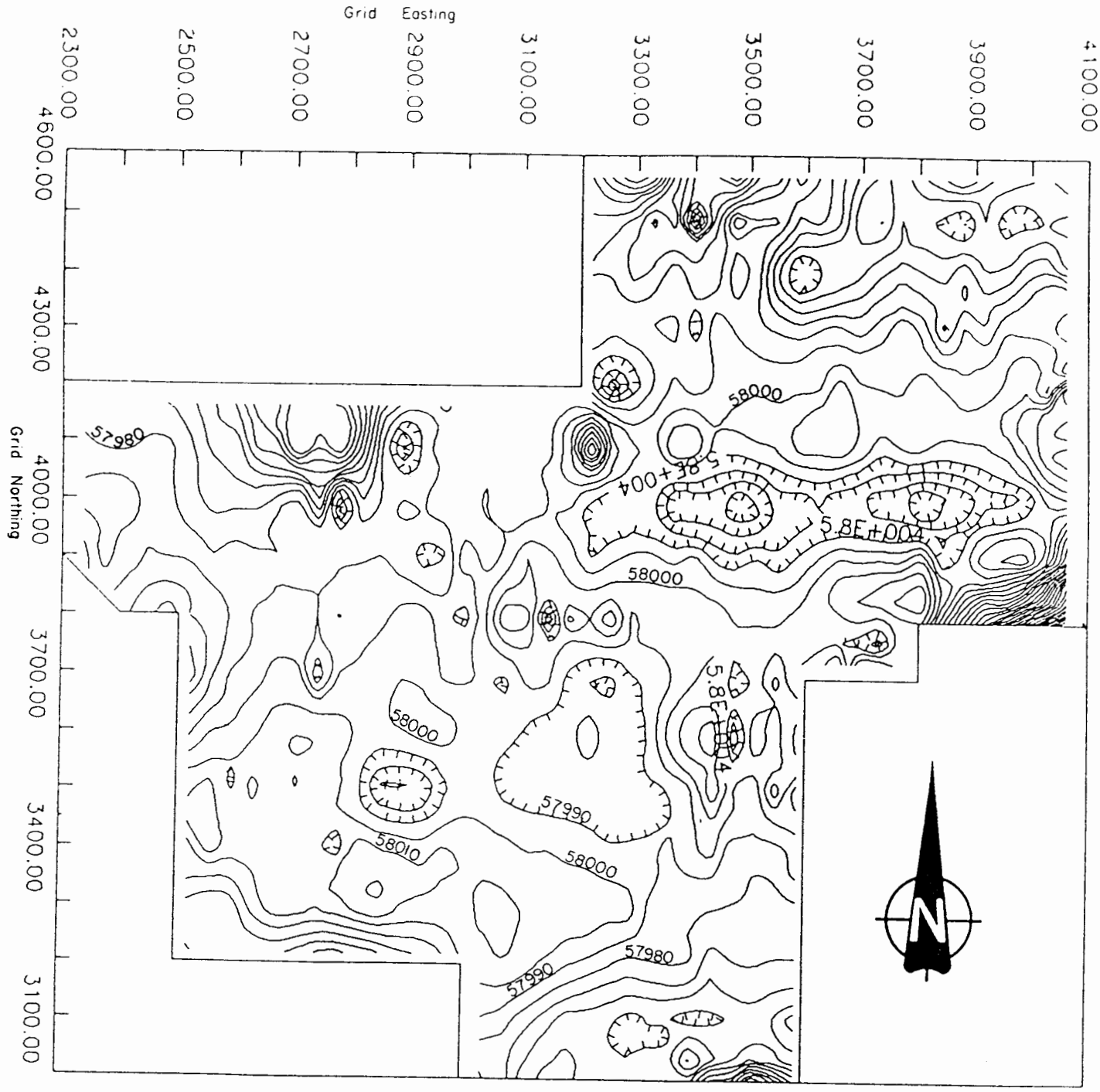
Overall the magnetic relief is low (100 gamma), contour interval is 10 gamma . A subtle E-W boundary or contact on the south end of the grid is probably due to a change in magnetic mineral content related to the contact metamorphic aureole. At the central part of the grid, a number of magnetic lows occur that may be related to alteration zones, (refer to figure 4).

Generally the magnetic data is inconclusive. Tighter spaced station readings over a larger area could improve the overall effectiveness of the data.

VLF Test Surveys

A Geonics VLF-EM16 Receiver utilizing the Jim Creek, Washington Transmitter was the instrumentation used to complete test surveys. Line spacings were at 100m and 50m with 25m station intervals. The survey direction was east.

The optimum strike direction of a conductive target using this transmitting station is north-south. Although a strike of up to 45° either way would be satisfactory. The strike, of the structures we attempted to delineate, was between 060° and 130°, and consequently responses were diminished and skewed. The Test lines indicated weak to moderate anomalies. The data is not included in this report,however, further surveying should be completed over areas of known structure and mineralization.



LEGEND

58000 Total Field Magnetic Contours in γ
contour interval 10 γ

Magnetic Low

100 50 0 100 200 300 m

GOLDRITE MINING CORP.

CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

PUKELMAN GRID
CONTOURED MAGNETOMETER SURVEY

Aurum Geological Consultants Inc.			OCTOBER, 1988
NTS 115P/14,15	Drawn by TB/GS	Scale 1:10000	Figure 4

AURUM GEOLOGICAL CONSULTANTS INC.

DIAMOND DRILLING

Introduction

Diamond drilling on the **Contact Zone** commenced on August 4th and was completed on the 11th of September. A total of 1236.56 meters were drilled in 8 diamond drill holes. All holes were drilled with HQ core so that the holes could be reduced to NQ in bad ground. The drill contract was completed by Tonto Diamond Drilling Ltd using a skid mounted Longyear 38 diamond drill.

The drill pads and approximately 4.4 km of drill access roads were constructed using a D7F caterpillar and operator on contract from Golden Hill Ventures Ltd., of Whitehorse. Water was pumped to the drill sites from a sump at the head of Left Clear Creek. Three water pumps and rubber hose line were required to lift the water through a 400 m vertical lift and 1.8 km horizontal distance to the drill sites. Including the caterpillar work, diamond drilling costs averaged $159/ meter.

The core was logged, and approximately 90% was split and sent to Bondar-Clegg and Company Limited for gold fire assays. All of the core is stored in core racks at the exploration camp site on Left Clear Creek

Drill logs, and assay data are included as Appendix IV and drill cross sections at 1:250 scale are presented in Figures 23 to 29. Reduced cross sections and drill log summaries are included at the end of this section. Plan maps and a longitudinal section of the fault alteration zone are presented in Figures 5, 6 & 7 respectively.

Contact Zone (Alteration-Fault Zone)

Drill holes CC-88-1 to 5 and CC-88-8 were all drilled within 80 m of each other over a distance of 250 m. These holes were drilled under soil anomalies spatially associated with a granodiorite/quartz-porphyry (**Kgd**) dyke and an alteration fault zone. All of these holes intersected the alteration fault zone although only CC-88-1 to CC-88-5 intersected the dyke. The alteration fault zone is marked by limonite staining, sericitization, bleaching, argillic alteration, gouge zones, deformation, and local silicification within the metasediments and granodiorite/quartz-porphyry (**Kgd**). Narrow quartz-arsenopyrite, quartz-pyrite and arsenopyrite stringers were noted locally throughout this zone. Disseminated arsenopyrite and pyrite (1%) was recognized within the dyke. Holes CC-88-2 and 3 were drilled behind the other holes; this scissor set tested the depth and dip of the dyke and fault zone.

Intersections assaying greater than 1 gm/tonne Au were concentrated in the alteration fault zone (refer to Figure 7). The best intersections were in holes that hit the alteration fault zone at depth; 3.40 gm/t over 2.40 m, from altered and contorted metasediments in CC-88-3; 2.19 g/t over 3.55 m, in silicified, sericitized and argillic altered granodiorite/quartz-porphyry with quartz-arsenopyrite stringers in CC-88-2; 1.79 g/t over 3.00 m, in limonite stained and sericitized feldspathic quartzite in CC-88-8; and 4.68 g/t over 1.80 m from silicified feldspathic quartzite with cm scale quartz-arsenopyrite veinlets also in CC-88-8. Below the alteration zone only one significant intersection, 1.68 g/t over 1.50 m, was returned. Numerous intersections, up to 8.60 g/t over 1.10 m were found above

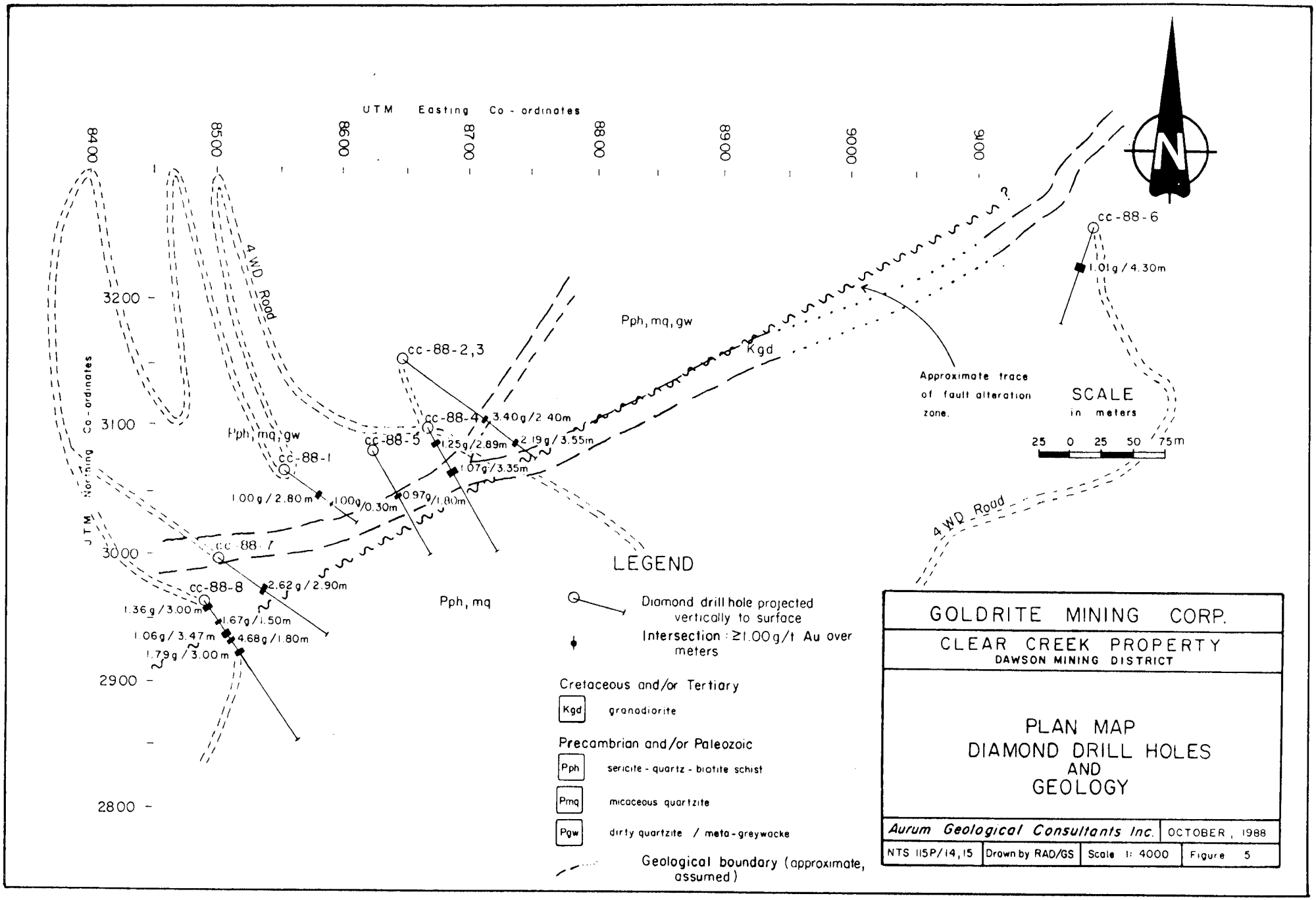
the alteration fault zone, indicating an enrichment of gold mineralization in the hanging wall.

The alteration fault zone is a tabular body that trends at approximately 060° and dips steeply (080°) to the north.

The dyke is more irregular trending from 50° to 65° and dipping steeply north.

Contact Zone East End

Hole CC-88-6 was collared 545 m ENE of hole CC-88-4. It was drilled under a soil anomaly with values up to 1626 ppb Au, and a trench with anomalous rock samples up to 59.96 g/t (1.749 opt). This was drilled south of the trace of the main dyke and alteration fault zone referred to in the previous section. A fault zone associated with two narrow argillic altered feldspar-porphyry dykes was intersected high up in the hole. This may represent a conjugate shear associated with the main fault. The only intersection in this hole, 1.01 g/t over 4.3 m, was from an area of quartz arsenopyrite fracture infilling in relatively unaltered metasediments deeper in the hole.



GOLDRITE MINING CORP.

CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

PLAN MAP DIAMOND DRILL HOLES AND GEOLOGY

Aurum Geological Consultants Inc.			OCTOBER, 1988
NTS 115P/14,15	Drawn by RAD/GS	Scale 1: 4000	Figure 5

CC 88-2 & 3
1755.55

CC 88-1
1696.70
1650.0
1642.0
1634.5
1690.0
FG 1613.5

CC 88-5
1728.72
1700.5
1692.0
1681.5

CC 88-4
1750.22
1728.0
1721.0
1708.5

CC 88-3
1635.5
CC 88-2
1678.0
1608
1669
1601
1589.0
EOH CC 83-3
1649
1641.5
EOH CC 88-2

CC 88-7
1640.79
1625.0
1596.0

CC 88-8
1619.85
1596.0
1557.0

LEGEND

drill hole projection to a horizontal plane

1700.5 — fault alteration zone

granodiorite/quartz porphyry dyke

1681.5 — elevations in metres A.S.L.

10m 0 10 20 30 40 50m
METRES

REFERENCE LINE 065°

REFERENCE POINT

GOLDRITE MINING CORP.

CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

PLAN MAP OF DIAMOND DRILL HOLES CC 88- 1-5, 7and 8

Aurum Geological Consultants Inc.			AUGUST, 1988
NTS 115 P/14	DRAWN BY SR	SCALE 1:1000	FIGURE: 6

REFERENCE LINE

REFERENCE POINT

LEGEND

CRETACEOUS or TERTIARY

Kgd granodiorite dyke

FG major fault gouge

alteration fault zone

CC 88-4 drill hole number

1.0/2.80 intersection (Au in gm/t over metres)

+100 distance in front of reference line

* erratic Au value

approximate surface profile

CC 88-4
1.25/2.89
+168
Kgd
1.95*/1.10
1.07/3.35
+148

CC 88-5
1.92/0.65
1.64/1.05
+164
Kgd
0.97/1.80
+145

CC 88-2
+180
Kgd
1.68*/1.50

CC 88-3
1.05/4.01
Kgd
2.19/3.55
6.60/1.10
+152
+188
2.16/0.65
3.40/2.40
1.23/1.20
Kgd
+163

CC 88-1
1.0/2.80
+175
1.0/0.30
Kgd
FG
+149

CC 88-7
2.67/1.30
+158
9.29*/1.05
9.19*/1.20
2.62/2.90
+133

CC 88-8
1.36/3.00
0.81/3.60
1.67/1.50
+121
1.06/3.47
4.68/1.80
1.79/3.00
+85

ELEVATION IN METRES ASL

1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

20m
10m
0
10m 20m 30m 40m
METRES

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CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

VERTICAL LONGITUDINAL SECTION
LOOKING NORTH
REFERENCE LINE AT 065°

Aurum Geological Consultants Inc.			AUGUST, 1988
NTS 115 P/14	DRAWN BY SR	SCALE 1:1000	FIGURE: 7

DRILL SUMMARIES

DRILL HOLE CC-88-1

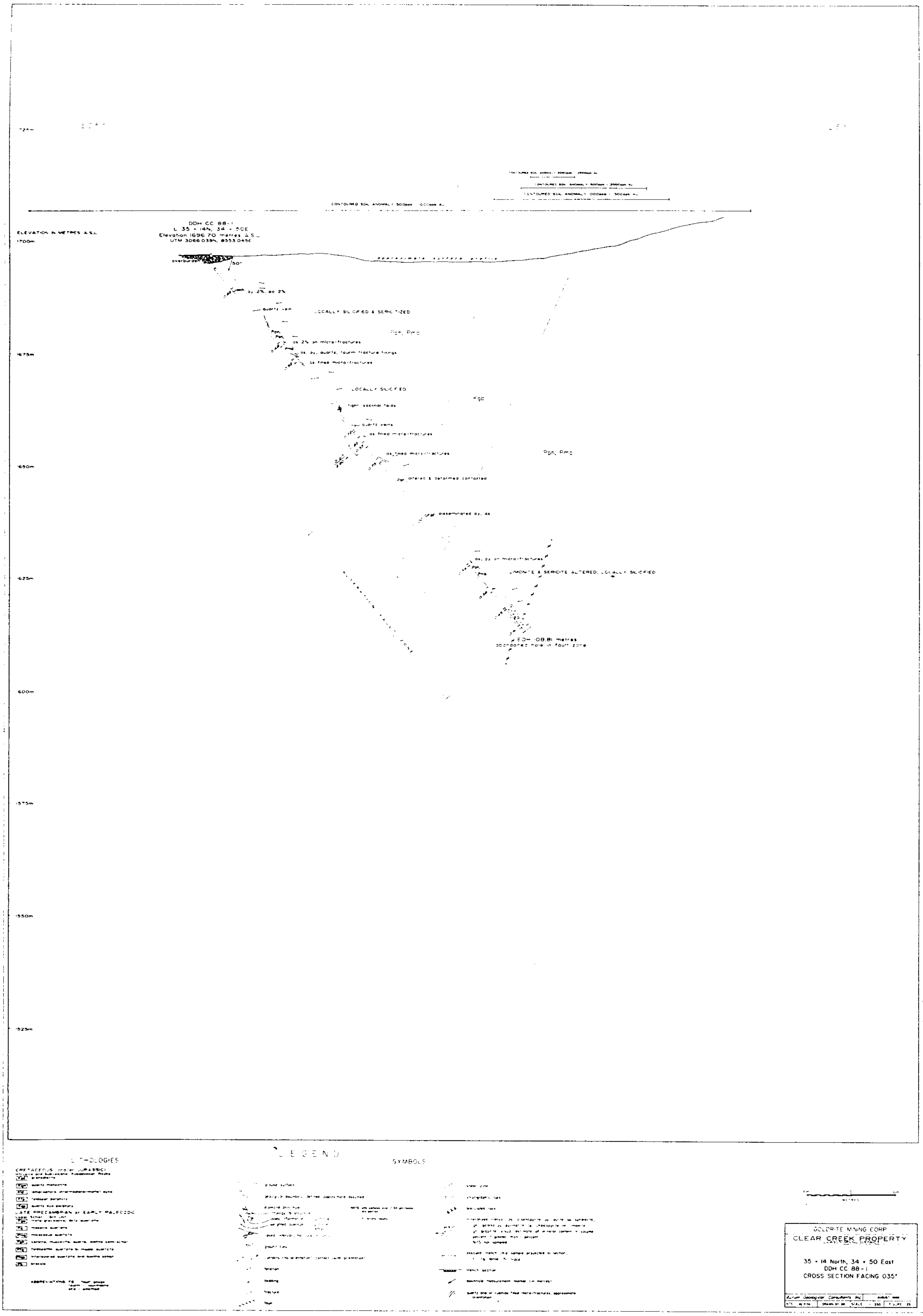
ELEVATION:	1696.70 m	AZIMUTH:	125°
UTM NORTH:	7083066.04N	DIP:	-50°
UTM EAST:	398553.05E	LENGTH:	108.81 m
LOC. GRID:	35+14N 34+50E	DEPTH:	83.00 m
DATE COLLARED:	AUG.8,1988	COMPLETED:	AUG.12,1988

PURPOSE: To test under a soil anomaly (2340 ppb AU) and area with anomalous quartz-arsenopyrite vein float samples up to 0.545 opt AU. To intersect the granodiorite dyke and possible fault zone.

0.00-2.34 m	Overburden
2.34-61.50 m	Metasediments, well foliated metagreywacke and dirty quartzite (Pgw).
52.00-54.80 m	**1.00gm AU/2.80 m** Arsenopyrite in quartz stringers in metasediments.
61.50-71.75 m	Contorted and highly fractured metasediments (Pph,Pgw).
71.75-81.75 m	Granodiorite (Kgd).
81.75-101.80 m	Metasediments, weakly sericitized and limonite stained dirty quartzite (Pph, Pgw)
101.80-108.81	Fault gouge.
108.81	E.O.H. Hole lost in fault gouge.

This hole collared in medium to dark grey green well foliated metasediments (metagreywacke and dirty quartzite), with approximately 1% finely disseminated pyrrhotite and pyrite and concentrations of up to 2% in fine cm scale mudstone bands. Minor amounts of arsenopyrite were noted on microfractures and in quartz veins. A granodiorite dyke was intersected (71.75-81.75 m) with 1% disseminated pyrite and arsenopyrite. The metasediments on either side of the dyke were sericitized, limonite stained and locally contorted. At 101.80 m a fault zone was intersected. At 108.81 m the hole was abandoned due to loss of water pressure.

This hole was successful in intersecting the dyke and fault but unsuccessful in testing the full extent of the fault zone.



CONTOURED SOIL ANOMALY 500ppb - 1000ppb Au
CONTOURED SOIL ANOMALY 1000ppb - 500ppb Au
ELEVATION IN METRES A.S.L.
1700m
1675m
1650m
1625m
1600m
1575m
1550m
1525m
DDH CC 88-1
L 35 + 14N, 34 + 50E
Elevation 1696.70 metres A.S.L.
UTM 3066.039N, 8553.045E
overburden
50°
approximate surface profile
py 2%, po 2%
quartz vein
LOCALLY SILICIFIED & SERICITIZED
Pph, Pmc
as 2% on micro-fractures
as, py, quartz, tourm fracture fillings
as filled micro-fractures
LOCALLY SILICIFIED
tight isoclinal folds
quartz veins
as filled micro-fractures
Kgc
as filled micro-fractures
Pph, Pmc
altered & deformed contorted
disseminated py, as
as, py on micro-fractures
LIMONITE & SERICITE ALTERED, LOCALLY SILICIFIED
EOH 108.81 metres
abandoned hole in fault zone
LEGEND
LITHOLOGIES
CRETACEOUS (and/or JURASSIC)
LATE PRECAMBRIAN or EARLY PALEOZOIC
SYMBOLS
GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
35 + 14 North, 34 + 50 East
DDH CC 88-1
CROSS SECTION FACING 035°
Aurum Geological Consultants Inc.

DRILL HOLE CC-88-2

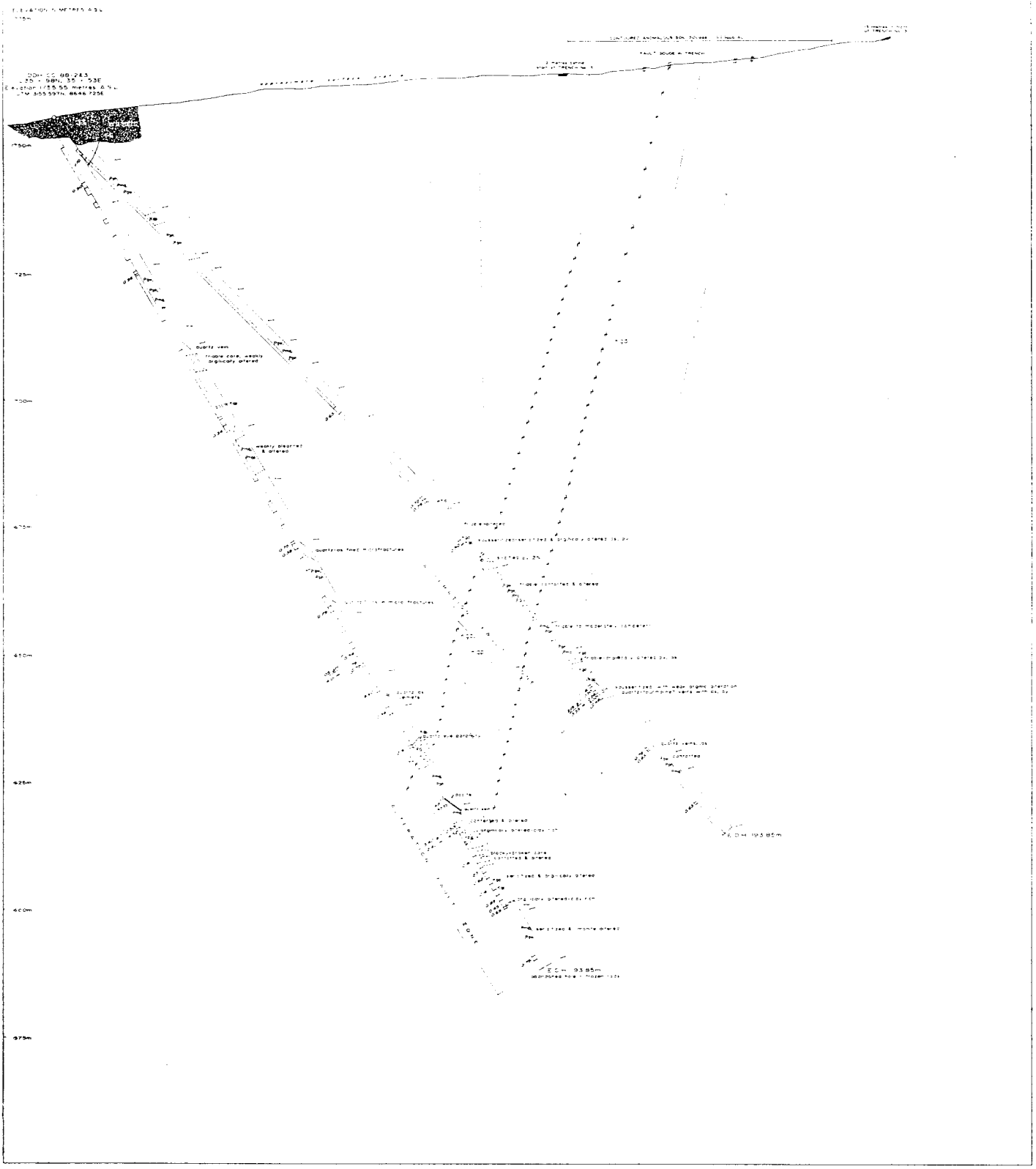
ELEVATION:	1755.55 m	AZIMUTH:	125°
UTM NORTH:	7083155.60N	DIP:	-45°
UTM EAST:	398646.73E	LENGTH:	193.85 m
LOC. GRID:	35+98N 35+53E	DEPTH:	140.30 m
DATE COLLARED:	AUG.12,1988	COMPLETED:	AUG.16,1988

PURPOSE: To intersect the dyke and fault zone and drill under a soil anomaly with contoured values up to 3780 ppb Au.

0.00-7.62 m	Overburden.
7.62-26.85 m	Metasediments (Pgw, Pmq).
26.85-29.08 m	Aplite dyke (Kap).
29.08-39.20 m	Metasediments (Pgw, Pph, Pmq).
39.20-110.00 m	Weakly altered metasediments (Pgw, Pmq).
110.00-121.70 m	Porphyritic Granodiorite (Kgd).
121.70-148.40 m	Altered metasediments (Pph, Pmq).
148.40-158.59 m	Porphyritic Granodiorite (Kgd).
154.20-157.75 m	**2.19gm AU/3.55 m**, argillic altered porphyritic granodiorite with minor pyrite and quartz-arsenopyrite stockwork.
158.59-193.85 m	Metasediments (Pph, Pmq).
193.85 m	E.O.H.

This hole collared in medium to dark grey limonitic stained metasediments (alternating metagreywacke and micaceous quartzite). Porphyritic granodiorite dykes were encountered between 110.00-121.70 m and 148.40-158.59 m. with approximately 1% disseminated pyrite and arsenopyrite. Locally these dykes were argillic altered, bleached, and brecciated. Abundant quartz-arsenopyrite-tourmaline stringers were intersected in an argillic altered interval in the lower dyke. Metasediments between these dykes were altered, locally contorted, and highly fractured.

This hole successfully intersected the dyke and fault zone.



LITHOLOGIES

CRETACEOUS (and/or JURASSIC)

LATE PRECAMBRIAN or EARLY PALEOZOIC

ABBREVIATIONS

SYMBOLS

COLORITE MINING CORP.

CLEAR CREEK PROPERTY

35 + 98 North, 35 + 53 East
DDH CC 88-2 & 3
CROSS SECTION FACING 035°

Aurum Geological Consultants Inc.

DRILL HOLE CC-88-3

ELEVATION:	1755.55 m	AZIMUTH:	125°
UTM NORTH:	7083155.60N	DIP:	-60°
UTM EAST:	398646.73E	LENGTH:	193.85 m
LOC. GRID:	35+98N 35+53E	DEPTH:	166.80 m
DATE COLLARED:	AUG.16,1988	COMPLETED:	AUG.21,1988

PURPOSE: To drill under CC-88-2 to determine the dip and continuity of the dyke and fault zone at depth.

0.00-4.49 m	Overburden.
4.49-73.00 m	Metasediments (Pgw, Pmq).
73.00-81.10 m	Altered metasediments (Pmq, Pgw).
81.10-139.66 m	Metasediments (Pgw, Pmq), locally silicified and altered.
120.38-124.39 m	**1.05 gm Au/4.01 m**, silicified quartzite with sulphides.
139.66-154.85 m	Fault Zone, Altered and contorted metasediments (Pgw, Pph, Pmq).
154.85-156.35 m	Dacite (Kd).
156.35-163.90 m	Altered and contorted Metasediments (Pph, Pmq).
160.20-162.60 m	**3.40 gm AU/2.40 m** Silicified and altered metasediments on the hanging wall of the fault zone.
163.90-165.20 m	Fault gouge, clay altered.
165.20-170.50 m	Altered and contorted metasediments (Pph, Pmq).
170.50-179.36 m	Altered porphyritic granodiorite (Kgd).
179.36-179.96 m	Fault gouge.
179.96-193.85 m	Weakly altered Metasediments (Pmq, Pph)
193.85 m	E.O.H.

This hole collared in medium to dark grey well foliated and locally contorted metasediments (alternating dirty and clean quartzite). From 139.66-170.50 the metasediments were altered and fractured and contained several narrow clay rich fault gouges. An argillic and sericite altered porphyritic granodiorite dyke was intersected between 170.50-179.36 m containing minor pyrite and arsenopyrite. The hole continued through weakly altered and contorted metasediments to 193.85 m where at was abandoned as a result of transmission breakdown which resulted in the rods freezing in the hole.

This hole was successful in intersecting the upper dyke and the fault zone but was unsuccessful in intersecting the second dyke.

DRILL HOLE CC-88-4

ELEVATION:	1750.22 m	AZIMUTH:	150°
UTM NORTH:	7083101.75N	DIP:	-45°
UTM EAST:	398667.89E	LENGTH:	154.22 m
LOC. GRID:	35+45N 35+75E	DEPTH:	111.50 m
DATE COLLARED:	AUG.21,1988	COMPLETED:	AUG.24,1988

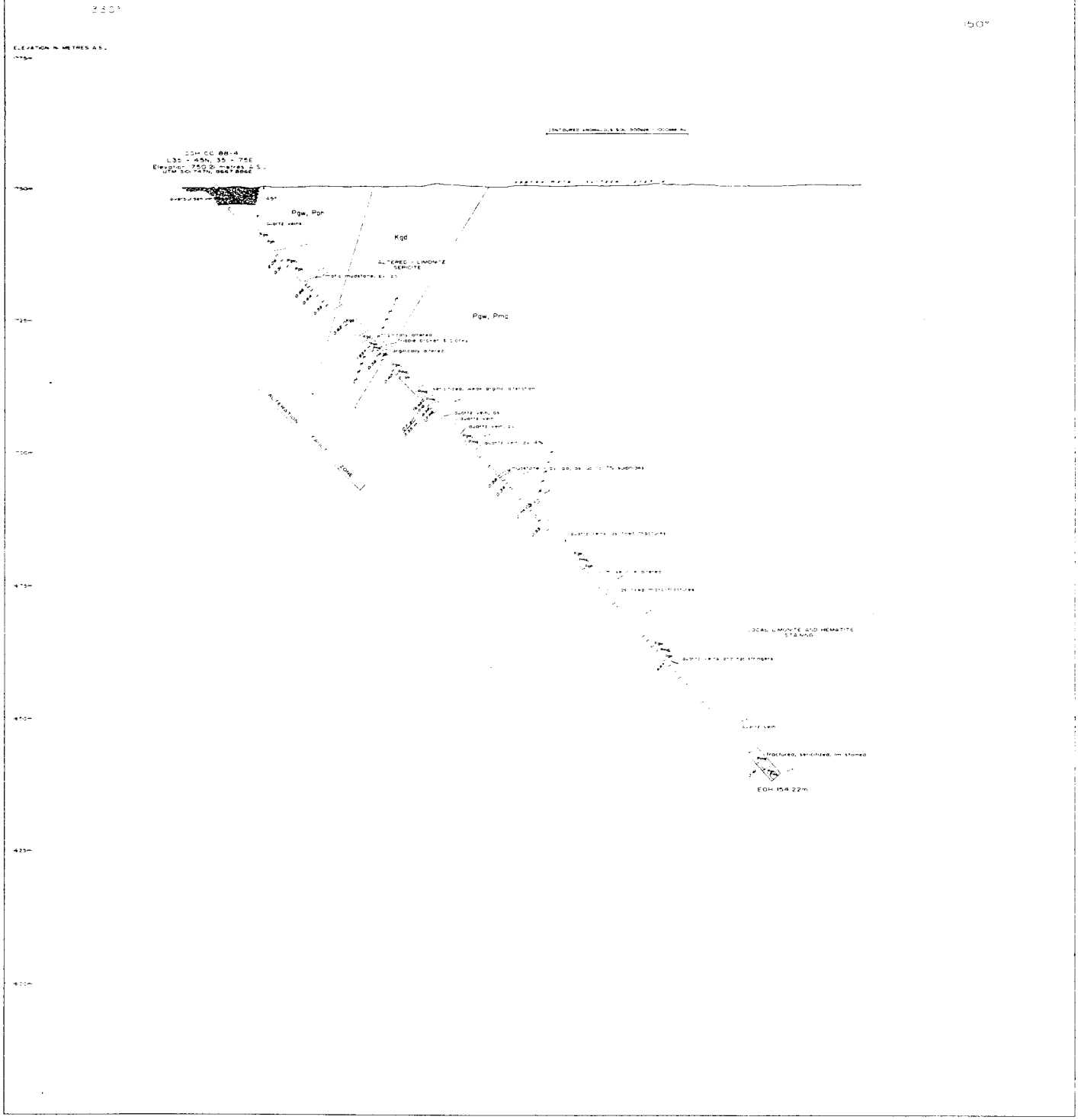
PURPOSE: To intersect the dyke, and fault and drill beneath a soil anomaly.

0.00-4.50 m	Overburden.
4.50-32.20 m	Metasediments (Pgw, Pmq)
17.21-20.10 m	**1.25 gm AU/2.89 m**, 0.5% pyrite and 1% arsenopyrite in fractured rusty quartzite.
32.20-40.80 m	Granodiorite (Kgd). 38.60-40.80 Strong argillic alteration.
40.80-44.15 m	Weakly altered metasediments (Pgw)
44.15-45.40 m	Argillic altered granodiorite (Kgd)
45.40-54.07 m	Weakly altered metasediments (Pgw, Pmq).
54.07-84.28 m	Metasediments (Pgw, Pmq, Pph)locally altered and contorted.
56.17-59.58 m	**1.07 gm AU/3.35 m**, brecciated quartz veins in altered quartzite.
84.28-85.04 m	Fault Gouge.
85.04-154.22 m	Metasediments (Pgw, Pmq), Locally altered and contorted.
154.22 m	E.O.H.

This hole collared in medium grey well foliated metasediments (metagreywacke and dirty quartzite). They are locally contorted, fractured, sericitized, limonite stained and silicified. The silicified intervals have quartz and quartz-arsenopyrite veinlets and minor finely disseminated pyrite (~1%). Two granodiorite dykes were intersected between 32.20-40.80 and 44.15-45.40 m with 1% arsenopyrite concentrated along fracture planes. The second dyke was

argillic altered, sericitized and highly fractured. Between the two dykes the metasediments were contorted and weakly sericitized , limonite stained and bleached. Altered and contorted metasediments were intersected to the end of the hole, with narrow sulphide rich mudstone beds. Over all there was <1% finely disseminated sulphides (pyrite, pyrrhotite and arsenopyrite) with local concentrations on microfractures and in quartz veins.

This hole was successful in intersecting the dyke and fault zone.



LEGEND

LITHOLOGIES

SYMBOLS

SOLORITE MINING CORP.

CLEAR CREEK PROPERTY

35 + 45 North, 35 + 75 East
DDH CC 88-4
CROSS SECTION FACING 070°

DRILL HOLE CC-88-5

ELEVATION:	1728.72 m	AZIMUTH:	150°
UTM NORTH:	7083082.41N	DIP:	-45°
UTM EAST:	398623.02E	LENGTH:	128.62 m
LOC. GRID:	35+22N 35+25E	DEPTH:	90.50 m
DATE COLLARED:	AUG.24,1988	COMPLETED:	AUG.27,1988

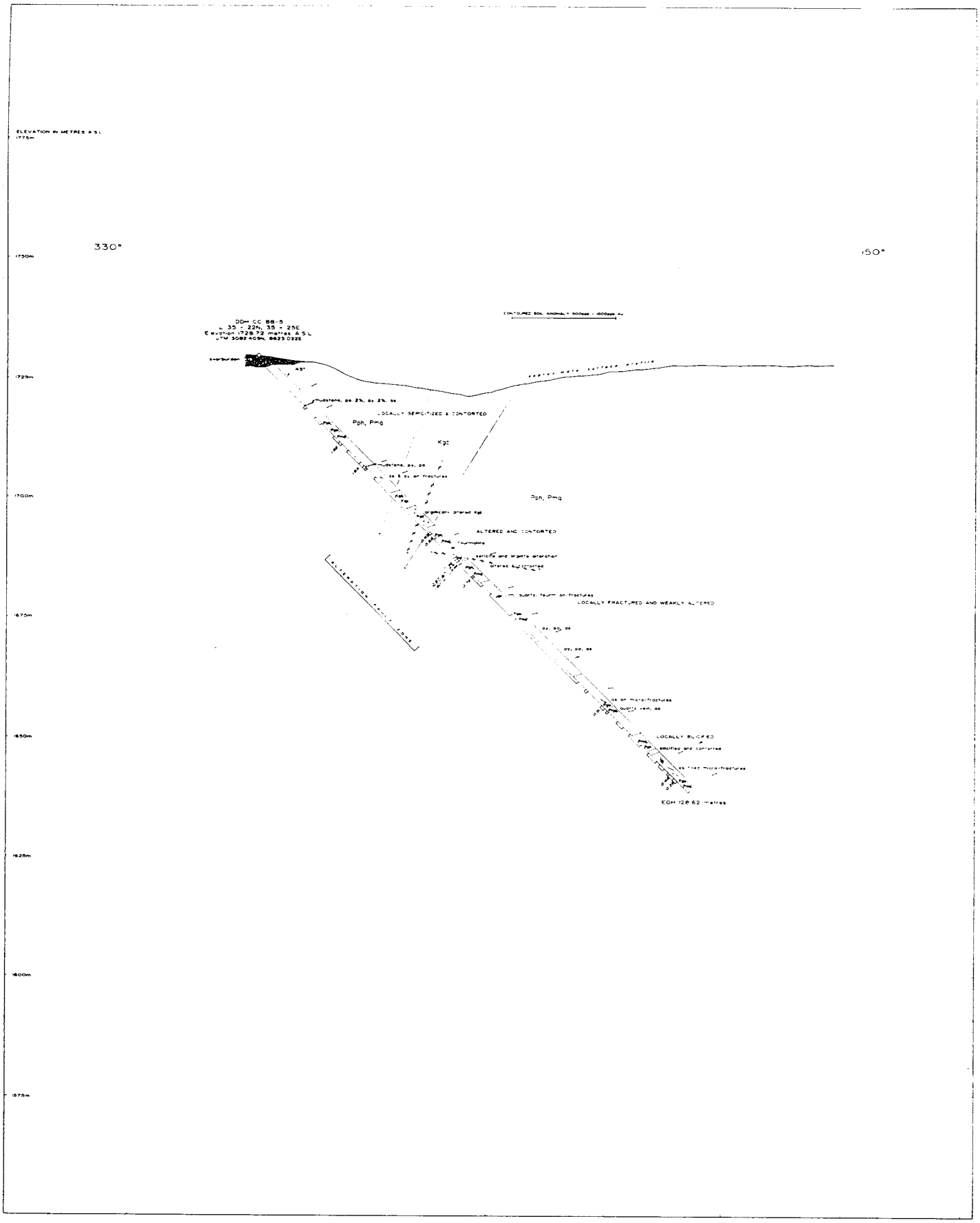
PURPOSE: To intersect the dyke, and drill past the fault zone that hole CC-88-1 was abandoned in. To drill beneath a soil anomaly (>500 ppb Au) and anomalous zones of float and rock sample (values up to 21.53 g/t AU, 0.628 opt).

0.00-3.05 m	Overburden.
3.05-40.45 m	Metasediments (Pgw, Pph).
40.45-44.90 m	Granodiorite (Kgd).
44.90-50.70 m	Argillic altered granodiorite (Kgd).
50.70-59.44 m	Altered metasediments (Pph, Pmq).
59.44-60.70 m	Fault Gouge.
58.90-60.70 m	**0.97 gm AU/1.80 m**, fault gouge, minor sulphides.
60.70-67.16 m	Weakly altered and contorted metasediments (Pph, Pgw).
67.16-94.90 m	Metasediments (Pgw, Pph) locally contorted.
94.90-128.62 m	Competent metasediments (Pgw, Pmq).
128.62 m	E.O.H.

This hole collared in well foliated medium to dark grey metasediments (dirty quartzite, metagreywacke, and sericite-muscovite-quartz-biotite semi-schist). A locally argillic altered granodiorite dyke was intersected between 40.45-50.70 m. with minor disseminated pyrite and arsenopyrite (~1%). Sericitized and weakly argillic altered metasediments were encountered to 59.44 m with minor quartz-arsenopyrite stringers. Locally sericitized, limonite stained and contorted metasediments were intersected to the end of the

hole. Overall there was less than 1% sulphides with concentrations to 4% in mafic bands and within silicified intervals associated with quartz-arsenopyrite veins.

This hole successfully intersected the dyke and fault gouge that CC-88-1 was abandoned in.



LEGEND

LITHOLOGIES

CRETACEOUS (and/or JURASSIC):
volcanic and subvolcanic Hazelton Assemblage granodiorite
- Kgr — quartz monzonite
- Kp — hornblende biotite/andesite-mafic dyke
- Kfp — feldspar porphyry
- Kqp — quartz eye porphyry

LATE PRECAMBRIAN or EARLY PALEOZOIC
Basal / Gun Lake
- Pmg — metamorphosed, dirty quartzite
- Pq — massive quartzite
- Pmq — micaceous quartzite
- Pqs — calcite, muscovite, quartz, biotite schist
- Pfq — hornblende quartzite/biotite-muscovite quartzite
- Pqs — interlayered quartzite and biotite schist
- Pb — breccia

ABBREVIATIONS: FG = fine grained; tourm = tourmaline; qtz = quartz

SYMBOLS

- ground surface
- stratigraphic boundary, defined, approximately located
- diamond drill hole
- mineral occurrence
- geological contact, defined, approximately located
- gradational contact
- fault, defined, approximately located
- bedding
- fracture
- vein
- shear zone
- stratigraphic tops
- anticlinal axis
- synclinal axis
- mineralized zone, as grab samples, by drilling, as diamond drill intersections, by trenching, as chip samples, or visually, as percentage of mineral content or volume percent of sulphides, pyrite, pyrrhotite, chalcopyrite, sphalerite, galena, arsenopyrite, tetrahedrite, tennantite, native gold, native silver, electrum, bismuthinite, molybdenite, stibnite, cinnabar, realgar, orpiment, malachite, azurite, chrysocolla, native copper, hematite, magnetite, limonite, goethite, specular hematite, native sulphur, graphite, or combinations thereof, as specified
- outcrop, rock or soil sample projected to section, ± 50m, ± more
- mineral deposit
- diamond drill hole (number, dip in degrees)
- quartz vein or mineralized zone, micro-fractured, approximate orientation

0 — 0 — METRES

GOLDRITE MINING CORP
CLEAR CREEK PROPERTY
Cariboo Mining District

35 + 22 North, 35 + 25 East
DDH CC 88-5
CROSS SECTION FACING 060°

Aurum Geological Consultants Inc. | AUGUST, 1988 | DRAWN BY: MF | SCALE: 1:250 | FIGURE: 88

DRILLHOLE CC-88-6

ELEVATION:	1730.08 m	AZIMUTH:	198°
UTM NORTH:	7083262.20N	DIP:	-45°
UTM EAST:	399189.89E	LENGTH:	114.60 m
LOC. GRID:	37+40N 40+95E	DEPTH:	81.20 m
DATE COLLARED:	AUG.28,1988	COMPLETED:	AUG.30,1988

PURPOSE: To test under a soil anomaly with values to 1626 ppb Au and anomalous rock trench samples (up to 59.96 g/t Au, 1.749 opt), and to test the western extension of the fault zone or a riedel shear associated with the main fault.

0.00-7.20 m	Overburden.
7.20-11.60 m	Weakly altered metasediments (Pgw, Pmq).
11.60-14.45 m	Intermediate feldspar porphyry (Kfp).
14.45-15.40 m	Contact Zone.
15.40-24.99 m	Altered metasediments (Pph, Pgw).
24.99-26.60 m	Intermediate feldspar porphyry (Kfp).
26.60-27.50 m	Clastic dyke.
27.50-27.95 m	Altered intermediate feldspar porphyry (Kfp).
27.95-114.60 m	Metasediments (Pgw, Pph, Pmq).
44.10-48.40 m	**1.01 gm AU/4.30 m**, Arsenopyrite and pyrite concentrated along fractures in dirty quartzites.
114.60 m	E.O.H.

This hole collared in medium grey, limonite stained well foliated metasediments (metagreywacke, and micaceous quartzite). Two feldspar porphyry dykes were intersected between 11.60-14.45 and 24.99-27.95. Both dykes were argillic altered, fractured, and had minor amounts of pyrite and arsenopyrite. The metasediments between the dykes were limonite stained, contorted, and sericitized. Fine tourmaline needles were noted on sericitic foliation planes. Locally silicified, sericitized, and limonite stained metasediments occur from 27.95 to the end of hole. Minor

DRILLHOLE CC-88-6

ELEVATION:	1730.08 m	AZIMUTH:	198°
UTM NORTH:	7083262.20N	DIP:	-45°
UTM EAST:	399189.89E	LENGTH:	114.60 m
LOC. GRID:	37+40N 40+95E	DEPTH:	81.20 m
DATE COLLARED:	AUG.28,1988	COMPLETED:	AUG.30,1988

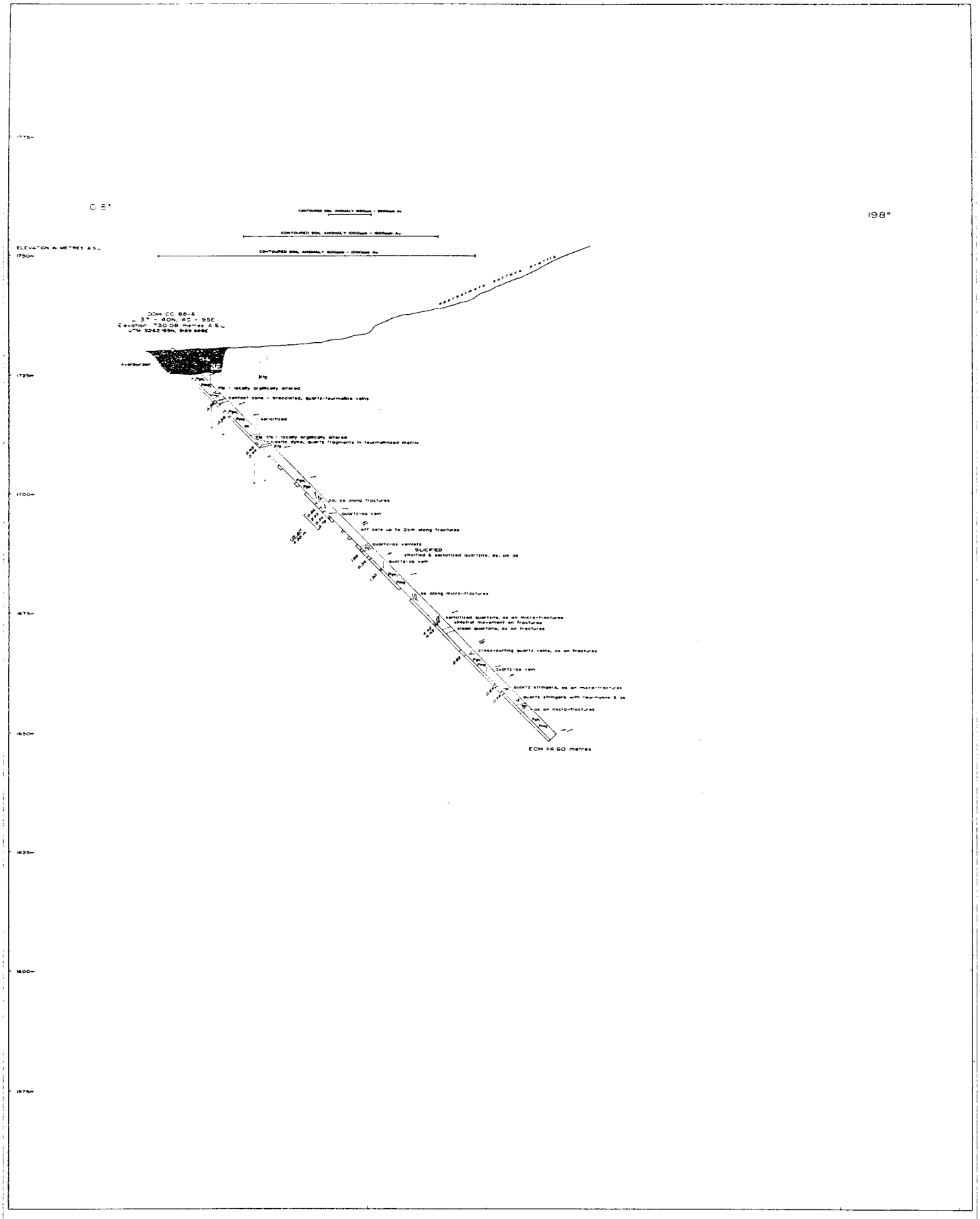
PURPOSE: To test under a soil anomaly with values to 1626 ppb Au and anomalous rock trench samples (up to 59.96 g/t Au, 1.749 opt), and to test the western extension of the fault zone or a riedel shear associated with the main fault.

0.00-7.20 m	Overburden.
7.20-11.60 m	Weakly altered metasediments (Pgw, Pmq).
11.60-14.45 m	Intermediate feldspar porphyry (Kfp).
14.45-15.40 m	Contact Zone.
15.40-24.99 m	Altered metasediments (Pph, Pgw).
24.99-26.60 m	Intermediate feldspar porphyry (Kfp).
26.60-27.50 m	Clastic dyke.
27.50-27.95 m	Altered intermediate feldspar porphyry (Kfp).
27.95-114.60 m	Metasediments (Pgw, Pph, Pmq).
44.10-48.40 m	**1.01 gm AU/4.30 m**, Arsenopyrite and pyrite concentrated along fractures in dirty quartzites.
114.60 m	E.O.H.

This hole collared in medium grey, limonite stained well foliated metasediments (metagreywacke, and micaceous quartzite). Two feldspar porphyry dykes were intersected between 11.60-14.45 and 24.99-27.95. Both dykes were argillic altered, fractured, and had minor amounts of pyrite and arsenopyrite. The metasediments between the dykes were limonite stained, contorted, and sericitized. Fine tourmaline needles were noted on sericitic foliation planes. Locally silicified, sericitized, and limonite stained metasediments occur from 27.95 to the end of hole. Minor

sulphides were noted; local concentrations of pyrite, pyrrhotite and arsenopyrite occur in mudstone beds and on fracture planes with quartz.

This hole intersected the down dip extension of the surface anomalies and also intersected a fault zone associated with two porphyritic dykes. This fault may be a conjugate shear of the main fault which is believed to run to the north of this hole.



LEGEND

LITHOLOGIES

CRETACEOUS (and/or JURASSIC)
andesite and subordinate intermediate flows, pyroclastics

- quartz monzonite
- quartz syenite, granodiorite, mafic dike
- feldspar porphyry
- quartz eye porphyry

LATE PRECAMBRIAN or EARLY PALEOZOIC
Kaslo (Jm) unit
- mica gneisses, schists, quartzites
- migmatite quartzite
- metamorphosed quartzite
- quartzite, metasiltite, quartz, biotite semi-schist
- metasiltite, quartzite/limestone, quartzite
- interbedded quartzites and biotite schist
- gneisses

abbreviations: FG - fault gouge, fault breccia, mylonite; aff - offset

SYMBOLS

- ground surface
- stratigraphic boundary, defined, approximate, assumed
- diamond drill hole
- lithology & structure
- assay information g/tonne
- weighted average g/tonne metres
- closed interval, no core recovery
- ground core
- contact (no sample), contact (with sample)
- lineation
- bedding
- fracture
- fault
- shear zone
- stratigraphic top
- brecciated rock
- mineralized interval as drawn/projected, by percent as sulphides, py - pyrite, po - pyrrhotite, cp - chalcopyrite, sp - sphalerite, gn - galena, n.v.p. estimate of mineral content in volume percent of greater than 1 percent
- N/S not sampled
- assayed trench chip sample projected to section, t - tonnes, tr - tract
- trench section
- borehole measurement marker (in section)
- quartz and/or sulphide filled micro-fractures, approximate orientation

0m 5 10m
METRES

GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
CARIBOO MINING DISTRICT

37 + 40 North, 40 + 95 East
DDH CC 88-6
CROSS SECTION FACING 108°

Aurum Geological Consultants Inc. | AUGUST, 1988
NTS 82 F/6e | DRAWN BY BB | SCALE 1:200 | FIGURE 27

DRILL HOLE CC-88-7

ELEVATION:	1640.79 m	AZIMUTH:	125°
UTM NORTH:	7082998.87N	DIP:	-45°
UTM EAST:	398504.81E	LENGTH:	151.81 m
LOC. GRID:	34+45N 34+14E	DEPTH:	106.70 m
DATE COLLARED:	AUG.30,1988	COMPLETED:	SEP.05,1988

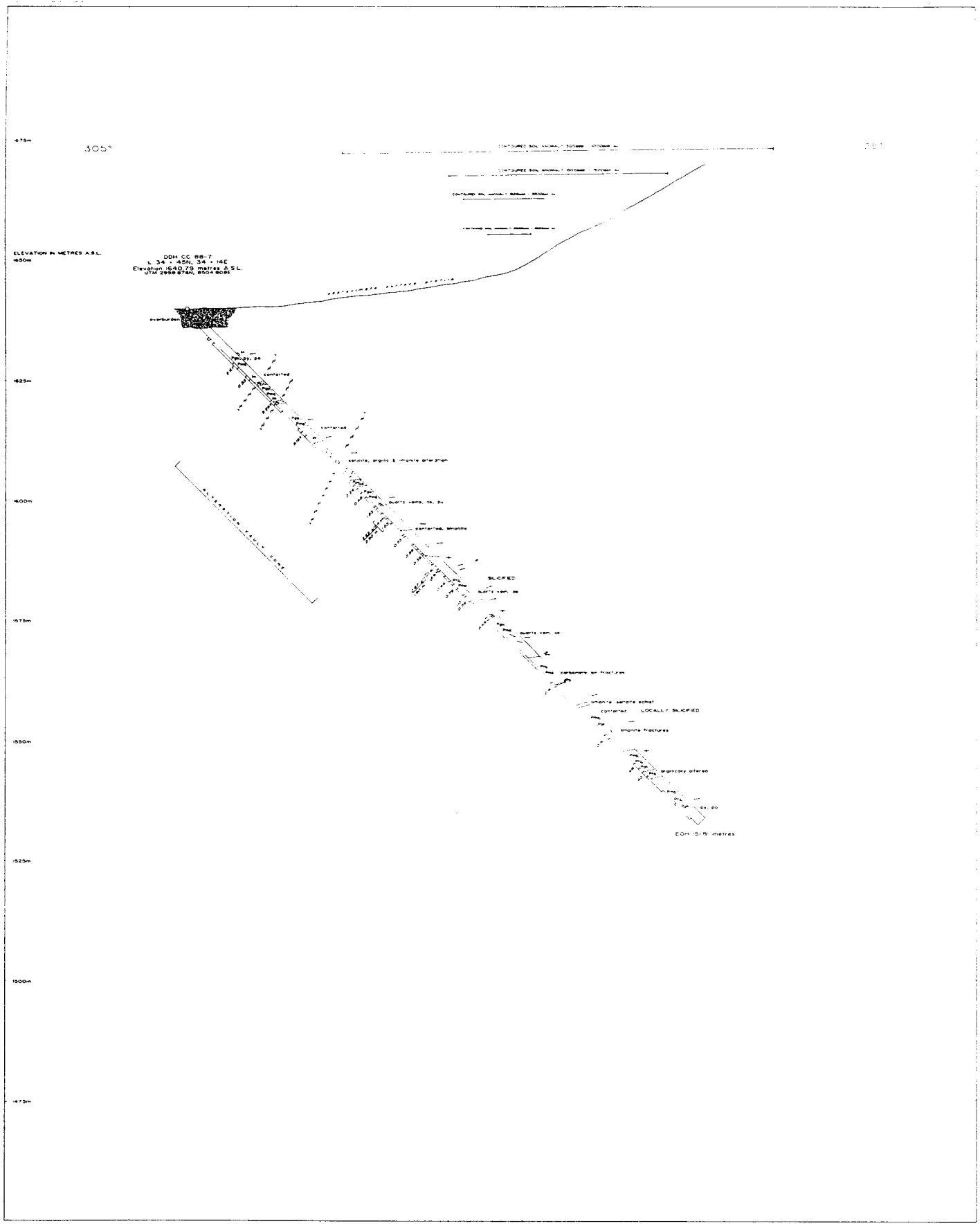
PURPOSE: To test the western extension of the fault zone and dyke, and to test for the subsurface source of a soil anomaly with values up to 2002 ppb Au.

0.00 -5.70 m	Overburden
5.70-39.00 m	Metasediments (Pgw, Pmq).
39.00-50.09 m	Fault gouge.
50.09-51.80 m	Fault breccia.
51.80-72.80 m	Altered metasediments (Pgw, Pmq).
59.00-61.90 m	**2.62 gm AU/2.90 m**, fine stringers of arsenopyrite and quartz-arsenopyrite in sericitized metasediments.
72.80-86.30 m	Silicified metasediments (Pfq, Pmq).
86.30-110.40 m	Metasediments (Pgw, Pmq).
110.40-110.70	Breccia.
110.40-151.81 m	Metasediments (Pgw, Pmq), locally silicified and sericitized.
151.81 m	E.O.H.

This hole collared in medium to light grey greenish-buff well foliated micaceous quartzite and sericite metagreywacke (dirty quartzite). Two narrow fault gouge zones were intersected at 21.00-21.94 m and 26.85-27.55 m. A major fault gouge was intersected at 39.00-50.09 m with highly fractured, sericitized argillic altered and limonite stained metasediments. A narrow 1.71 m interval of breccia marked the lower contact with competent weakly altered metasediments. From 72.80-86.30 silicified metasediments occur with up to 2% pyrite and pyrrhotite disseminated and concentrated on fracture planes. relatively unaltered

metasediments were encountered to the end of the hole with abundant bimodal feldspathic quartzite. Arsenopyrite was noted in minor concentrations associated with quartz-arsenopyrite veins.

This hole successfully tested the western extension of the fault zone but did not intersect the dyke.



LITHOLOGIES

CRETACEOUS and/or JURASSIC

- Kgd — quartz monzonite
- Kdp — hornblende porphyry, feldspar-hornblende-biotite quartz diorite porphyry dykes
- Kfp — feldspar porphyry
- Kqp — quartz rich porphyry

LATE PRECAMBRIAN or EARLY PALEOZOIC

- PEm — migmatite, gneiss, schist, quartzite
- PEq — massive quartzite
- PEqg — interlayered quartzite and biotite schist
- PEs — feldspathic quartzite/arkose quartzite
- PEqs — interlayered quartzite and biotite schist
- PEs — arkose

ABBREVIATIONS: py = fine grained pyrite; po = pyrrhotite; cp = chalcopyrite

LEGEND

SYMBOLS

- ground surface
- geological boundary (defined, assumed)
- fault (defined, assumed)
- shear zone
- stratigraphic tops
- bedding tops
- foliation
- bedding
- fracture
- fault
- quartz and/or carbonate veins micro-fracture, stockworks, silicification

GOLDRITE MINING CORP.

CLEAR CREEK PROPERTY

34 - 45 North, 34 - 4 East
DDH CC 88-7
CROSS SECTION FACING 035°

Huron Geological Consultants Inc.

DRILL HOLE CC-88-8

ELEVATION:	1619.85 m	AZIMUTH:	145°
UTM NORTH:	7082964.87N	DIP:	-45°
UTM EAST:	398491.53E	LENGTH:	190.80 m
LOC. GRID:	34+25N 33+90E	DEPTH:	135.00 m
DATE COLLARED:	SEP.06,1988	COMPLETED:	SEP.09,1988

PURPOSE: To test a soil anomaly (>500 ppb Au) and a fault zone in an outcrop of argillic altered feldspathic quartzite at 33+00n, 34+20E.

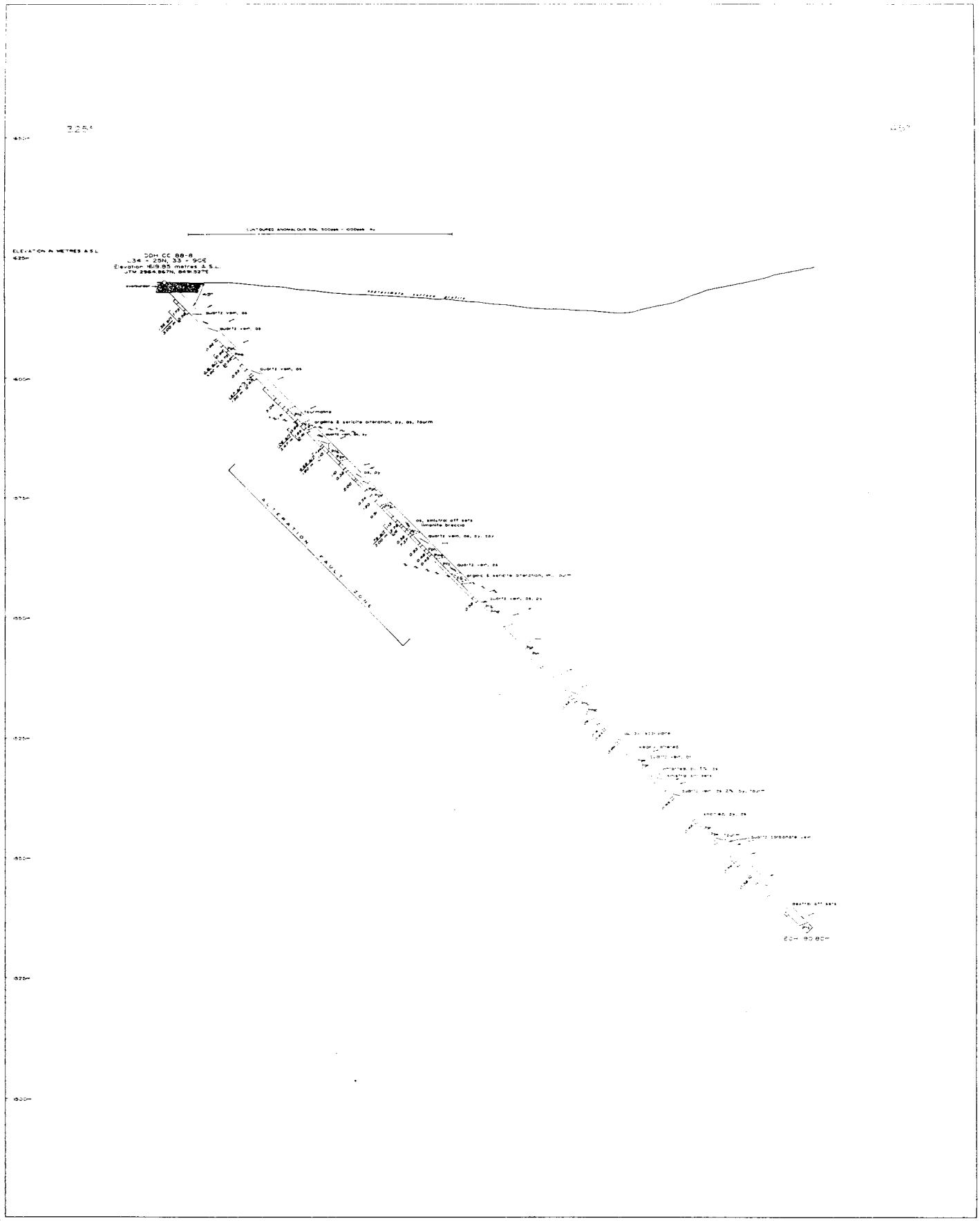
0.00-2.80 m	Overburden
2.80-36.85 m	Metasediments, predominantly sericite-muscovite-quartz-biotite-schist and micaceous quartzite (Pph, Pmq).
5.0-8.00 m	**1.36 gm AU/3.00 m**, arsenopyrite on fracture planes in sericitic metasediments.
26.00-27.50 m	**1.67 gm AU/1.50 m**, pyrite and arsenopyrite filled fractures in well foliated sericite schist.
36.85-41.00 m	Feldspathic quartzite (Pfq).
39.50-42.97 m	**1.06 gm AU/3.47 m**, Fault gouge and argillic altered metasediments , minor sulphides.
41.00-42.97 m	Fault gouge.
42.97-52.35 m	Alternating dirty quartzite and feldspathic quartzite, (Pgw, Pfq)
47.00-48.80 m	**4.68 gm AU/ 1.80** , 3cm wide quartz vein with 1% arsenopyrite on selvage.
52.35-85.70 m	Metasediments predominantly sericite-muscovite-quartz-biotite semi-schist and micaceous quartzite (Pph, Pmq).
68.00-71.00 m	**1.79 gm Au/3.00**m, Sericite and feldspathic quartzite with mm scale quartz-arsenopyrite veinlets.
85.70-88.85 m	Fault Gouge.

88.85-137.00 m	Micaceous quartzite and feldspathic quartzite (Pmq, Pfg).
137.00-188.97 m	Metasediments, dirty quartzite and sericite-muscovite-quartz-biotite-semi-schist (Pgw, Pph).
188.97-190.80 m	Feldspathic quartzite (Pfq).
190.80 m	E.O.H.

The hole collared in medium to dark grey-green, well foliated and locally contorted metasediments with abundant limonite staining on fractures and foliation planes. Mineralization includes <1% fine grained disseminated pyrite and pyrrhotite with local concentrations up to 2%, and

arsenopyrite (2%) in fractures with quartz. Fault gouge zones were intersected between 41.00-42.97 m and 85.70-88.85 m. The metasediments were strongly sericitized, argillic altered, and locally brecciated and contorted. Intervals of locally argillic altered feldspathic quartzite were encountered throughout the hole.

The hole was successful in outlining a fault zone with arsenopyrite and quartz-arsenopyrite stringers.



LEGEND

LITHOLOGIES

CRETACEOUS and/or JURASSIC
Volcanic and Sedimentary Successions Undivided
- Kvs — greywacke
- Kqp — quartz porphyries
- Kvp — andesite porphyries, amygdaloidal mafic dykes
- Kfp — feldspar porphyries
- Kvp — quartz eye porphyries

LATE PRECAMBRIAN or EARLY PALEOZOIC
Lower - Unit
- Lmv — mafic pyroclastics, minor sediments
- PEq — massive quartzites
- PEmq — massive quartzites
- PEmq — semipelite, metapsammite, quartzite, biotite, mafic schist
- PEqs — metapsammite, quartzite, biotite, mafic schist
- PEgn — amphibolite, hornblende gneiss, biotite gneiss
- PEs — limestone

Abbreviations: FW = Foot Wall
HW = Hanging Wall
dyke = dykelet

SYMBOLS

- ground surface
- geological boundary, defined, approximate, assumed
- bedding dip & top
- lithology & structure
- drill intercept — g/tonne — metres
- weighted average — g/tonne — metres
- (core interval, no core recovery)
- ground rock
- contacts (no orientation), contact (with orientation)
- foliation
- bedding
- fracture
- fault
- shear zone
- stratigraphic tops
- brecciated rock
- mineralized intervals, as determined by an assay or combination of assays
  - gn - grams per ounce
  - g - grams per tonne
  - % - percent
  - ppm - parts per million
  - ppb - parts per billion
  - n/s - not sampled
- drill hole, collar, dip, azimuth, direction & number
  - 1 g/tonne/1% trace
- mine opening
- abandoned underground mine(s) or trench(es)
- bulk sample or subdrill hole, depth indicated, approximate location

GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
34 + 25 North, 33 + 90 East
DDH CC 88-8
CROSS SECTION FACING 055°

Aurum Geological Consultants Inc. | SHEET No.
N.T.S. 93 P/14 | DRAWN BY MF | SCALE 1:250 | FIGURE 29

CONCLUSIONS AND RECOMMENDATIONS

The 1988 exploration program on the Clear Creek Property resulted in the discovery of two main target zones (**Contact & Saddle**) and five other geochemically anomalous areas.

Geologically both the **Contact** and **Saddle Zones** show intense but local argillic, sericitic, and limonitic alteration and mineralization typical of mesothermal systems. Both zones are related to late Cretaceous (?) hypabyssal granodiorite/quartz-porphyry dykes and late stage ENE trending fault zones.

Drilling on the **Contact Zone** was successful; auriferous intervals were intersected in every hole, outlining a mineralized fault and alteration zone. Further work is strongly recommended to determine the significance and extent of this mineralized zone.

In the **Contact Zone** faulting post dates the dyke and may represent a reactivation of the original structure into which the dyke intruded. The dyke is oblique to the tabular alteration fault zone.

Hole CC-88-8 had the most gold intersections. It intersected the fault zone at the lowest elevation and was drilled near an outcrop with conjugate faulting.

Steep slopes on the eastern extension of the **Contact Zone** will require helicopter supported drill sites. Trenching can help to delineate soil and rock float anomalies in other areas.

Small auriferous arsenopyrite stockwork veins and stringers are common in and near the contacts of the main stocks. These are a major cause of the geochemical anomalies and, though not of economic importance individually,may represent undiscovered, fault controlled mineralization similar to the **Contact and Saddle Zones.**

Magnetometer and VLF geophysical surveys carried out to date were not conclusive.

Continued exploration on the property should include reconnaissance and detailed mapping, prospecting, and soil and rock geochemistry with an emphasis on ENE trending structural lineaments, saddles, gullies, gossans zones and late stage altered felsic dykes. Geochemical targets should be trenched and sampled and diamond drilled in order of priority.

A large part of the property (**RYE** 85-168 and **ROLL 1-48**) was staked at the end of the season. This area requires reconnaissance work to evaluate the economic potential.

The following work is recommended:

1. Further detailed reconnaissance mapping, prospecting, soil and rock sampling over the entire property with an emphasis on saddles, structural lineaments, gossans and late stage acid intrusions related to the main stocks.

2. Air photography interpretation of lineaments and structural features to help identify target areas for prospecting, sampling and mapping.

3. Extend both the Pukelman and Saddle Grids to determine the extent of the mineralized zones.

4. The Saddle Zone in particular requires more detailed mapping and sampling in an effort to delineate drill targets.

5. Magnetometer and VLF surveys should be extended to include the Contact Zone Fault and the Saddle Zone. Closer spaced magnetometer survey stations could enhance the results. Induced Polarization survey tests should be considered.

6. Fill in diamond drilling on the Contact fault zone using a helicopter supported drill to explore the eastern end of the zone. Additional drilling should test the Contact Zone at depth, and to the west toward the property boundary.

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Templeman-Kluit, D., 1981: Geology and Mineral Deposits of Southern Yukon. In, Yukon Geology and Exploration 1979-80. Geology Section, Dept. of Indian and Northern Affairs,, Whitehorse, Yukon.

STATEMENT OF QUALIFICATIONS

I, Sally D. Robinson hereby certify that:

1. I am a geologist with AURUM GEOLOGICAL CONSULTANTS INC., P.O. Box 5179, Whitehorse, Yukon.

2. I am a graduate of Queens University, Kingston Ontario with a degree in geology (Hons. B.Sc., 1983). I have been involved in mineral exploration continuously since then.

3. I supervised the work carried out on the property during the 1988 exploration program. I am the principal author of this report, which is based on field work carried out during 1988 as well as previously published maps and reports.

4. I have no interest in the claims discussed in this report, nor do I expect to recieve any direct or indirect interest in the properties of Goldrite Mining Corp.

November 4, 1988

Sally D. Robinson, B.Sc.

STATEMENT OF QUALIFICATIONS

I, R. Allan Doherty, hereby certify that:

1. I am a geologist with AURUM GEOLOGICAL CONSULTANTS INC., P.O. Box 5179, Whitehorse, Yukon.

2. I am a graduate of the University of New Brunswick, with a degree in geology (Hons. B.Sc., 1977) and that I attended graduate school at Memorial University of Newfoundland, 1978-81. I have been involved in geological mapping and mineral exploration continuously since then.

3. I am a member of the Yukon Association of Professional Geoscientists and the CIMM.

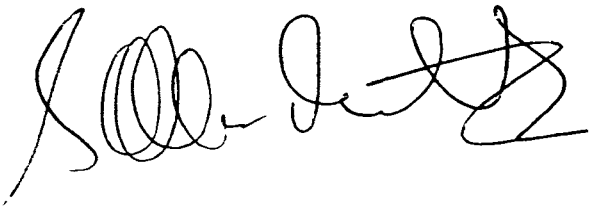
4. I am a shareholder and a Director of Golden Rum Resources Ltd. which owns 20,000 shares of Goldrite Mining Corp.

5. I supervised the work program and the preparation of this report on the Clear Creek property, which is based on data collected during property work and property visits between June 2nd, and August 31, 1988.

6. I consent to the use of this report in a company report or statement, provided that no portion is used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.

November 4, 1988

R. Allan Doherty, B.Sc.



STATEMENT OF COSTS

1. CAMP AND SUPPLIES	$43,600.00
2. DIAMOND DRILLING (TONTO DIAMOND DRILLING LTD.)	
1236 M OF HQ CORE	$188,617.00
3. ASSAYING CORE AND ROCK &SOIL SAMPLES	$26,202.75
4. CATERPILLAR RENTAL	$42,016.41
5. REPORT COSTS	$15,000.00
TOTAL	**$315,436.16**

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1988 CLEAR CREEK REPORT
APPENDICES
VOLUME
2 of 3

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APPENDIX I

PETROGRAPHIC DESCRIPTION OF SAMPLES

BY

GRAHAM WILSON
TURNSTONE GEOLOGICAL SERVICES LTD.

MINERALOGY OF DRILL CORE AND HAND SPECIMEN MATERIAL FROM THE CLEAR CREEK PROPERTY, DAWSON MINING DISTRICT, YUKON

On behalf of
Aurum Geological Consultants Inc.
P.O. Box 5179
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(403)-667-4168
Contact: Sally D. Robinson

By
Graham Wilson, PhD, FGAC
Turnstone Geological Services Ltd
P.O. Box 130, Station 'B', Toronto
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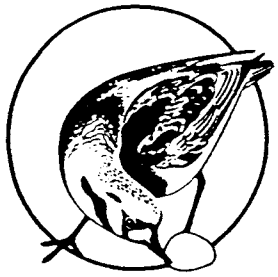
(416)-466-3386

Wed 02-Nov-1988

Detailed Petrographic Descriptions 786-800 (TGSL File PET80B), 20+6pp.



Abstract:

12 samples of 2.5-inch (63mm) core and 3 hand specimens from the Clear Creek mining property were examined in transmitted light. Results are summarized here and in Table 1. Abbreviations and methodology employed in this work are explained in a 6-page glossary (copy appended).

Seven samples represent a suite of felsic, Cretaceous (Descr. 786, ref. 2) intrusions, including granite, granodiorite and quartz ± feldspar porphyries. Six samples are schists and gneisses, all plausibly metasediments, although in some cases the degree of deformation obscures the exact nature of the original rock. The remaining two samples are vein material.

Visible (Cu)-Fe-As-S mineralization was introduced late in the paragenesis, and late in the tectonic evolution of the suite, as in CC-88-6(2) (Descr. 793), where coarse quartz veining with abundant sulphide and only minor recrystallization truncates a foliation developed in its wallrock (early quartz veining, and/or silicified wallrock).

Only sample CC-88-4(2) is appreciably magnetic in hand specimen. Only 2/15 samples (Descr. 786,795) contain significant calcitic (reactive with dilute acid) carbonate, although in thin section 10/15 samples carry minor (trace-3%) carbonate. The dominant alteration style of the suite is argillic-sericitic, but six samples carry minor tourmaline, which forms much of the matrix to a brecciated schist (CC-88-7(3), Descr. 796).

TABLE 1. MODAL MINERALOGY AND SUGGESTED NAMES FOR ALL SAMPLES, CLEAR CREEK PROJECT, YUKON

Descr.	Sample	Qz	Feld(1) Plag+KF	Musc	Bi	Chl	Amph	Tour	And	Epi	Ap	Sphen	Zir	Carb	Sul	Ox	Rock type identification(2)
786	CC-88-1	42	8+42	1	3	1	-	-	-	-	Tr.	-	Tr.	2	1	Tr.	Granitic QFP
787	CC-88-2	61	35	3	-	-	-	-	-	-	-	Tr.	-	Tr.	-	1	Fractured, sericitized QFP
788	CC-88-3	35	-	40	16	-	-	2	4	-	-	-	-	-	3	Tr.	Tourmalinitic foliated metapelite
789	CC-88-4(1)	68	25	3	-	-	-	Tr.	-	-	-	-	Tr.	-	-	4	Fractured, sericitized QFP
790	CC-88-4(2)	50	5+ 0	-	42	-	-	-	-	Tr.	Tr.	-	-	Tr.	3	-	Quartz-biotite schist
791	CC-88-5	58	27+14	Tr.	1	Tr.	-	-	-	Tr.	Tr.	-	Tr.	Tr.	Tr.	Tr.	Quartz-veined granodiorite
792	CC-88-6(1)	22	60+10	-	7	Tr.	1	-	-	Tr.	-	-	Tr.	-	Tr.	Tr.	Biotite granodiorite
793	CC-88-6(2)	87	Tr.+0	5	-	-	-	-	-	-	-	-	Tr.	3	5	Tr.	Quartz-arsenopyrite veining
794	CC-88-7(1)	90	10	-	-	-	-	Tr.	-	-	-	-	-	Tr.	Tr.	Tr.	Sheared, sericitized quartz porphyry
795	CC-88-7(2)	92	Tr.+0	5	2	Tr.	-	Tr.	-	Tr.	-	-	Tr.	Tr.	1	Tr.	Quartz-veined bi-musc-quartz gneiss
796	CC-88-7(3)	65	-	6	16	Tr.	-	12	-	-	Tr.	-	Tr.	Tr.	Tr.	Tr.	Brecciated, tourmalinized mica schist
797	CC-88-8	90	-	9	-	-	-	Tr.	-	-	Tr.	-	Tr.	Tr.	1	Tr.	Quartz sericite schist
798	J.C.	95	-	1	1	1	-	-	-	-	-	-	Tr.	Tr.	-	2	Quartz schist (metasediment?)
799	8-829084	94	-	-	-	-	-	2	-	-	-	Tr.	-	-	4	-	Brecciated quartz-arsenopyrite vein
800	8-411030	27	32+38	1	2	Tr.	-	-	-	-	-	Tr.	Tr.	-	-	Tr.	Biotite granite

Estimated modal mineralogy; contents in area(volume) percent, or noted 'tr.' if in trace amounts (<<1%). (1) plus alteration products, such as sericite and kaolinite. If one value is given, feld is too altered for precise identification, and the 'feld' may consist entirely of sericitic mica. If 2 modes are given, the first is plagioclase, the second K-feldspar. (2) Tentative identification of rock type (primary rock type, in case of strong superposed alteration and/or deformation). For rationale, and qualifications on quoted rock types, see report / individual descriptions, numbers 786-800.

Minerals not noted in the table:
1% cordierite in Descr. 796.

Abbreviations;
Amph=amphibole, and=andalusite, ap=apatite, bi=biotite, carb=carbonates, chl=chlorites, epi=epidote group, musc=muscovitic micas (including fine-grained 'sericite', unless clearly in altered feldspar), ox=all Fe-Ti oxides (rutile, ilmenite, hematite, limonite, etc), QFP=quartz-feldspar porphyry, qz=quartz, sphen=sphene (titanite), sul=all sulphides (pyrrhotite, pyrite, arsenopyrite, chalcopyrite, etc), tour=tourmaline and zir=zircon. For further explanation, see 6-page "Glossary of Abbreviations used in Petrographic Descriptions".

GCH, Turnstone Geol.Serv.Ltd, TO, November 1988.
Reference files: PET80B, CLEAR

TURNSTONE PETROGRAPHIC DESCRIPTION Status; CONFIDENTIAL

Sample ; CC-88-1 Description; 786

Client/job ; Aurum Geological Consultants Inc., Whitehorse, on behalf of Goldrite Mining Corp., Vancouver.
Locality ; Clear Creek property, Dawson mining district, Yukon. Site located N. of the Stewart River between Dawson and Mayo.
Collection details; DDH, intersection 77.30 m.

Format ; CTS, Geoplastech, TO - 31um
Hand specimen data; pale grey, sulphidic quartz-feldspar porphyry (QFP) with abundant rounded grey 1-2mm qz phenocrysts. A small proportion of dark, elongate dark bi phenocrysts. Thin (sub-mm) qz veinlets, traces of disseminated py, and more abundant silvery, striated, euh asp crystals, which appear to be, at least in part, fracture- related. Slight localized eff in dil HCl. Not appreciably magnetic. 1 piece and 4 chips.

Major Minerals;
* Quartz- some 34% of rock is fgr qz in groundmass of rock, 3% is qz in granophyric intergrowth with Kfeld, and 5% is rounded qz phenocrysts. Embayed phenocrysts to 3.0x2.4mm, sometimes with small inclusions of twinned plag and flakey musc. Phenocrysts show clean (unstrained) ext.
Overall mode 42%.
* K-feldspar and alteration products- some 35% of the rock is fgr Kfeld, 3% is tied up in granophyric intergrowths with qz, and 4% occurs as coarser phenocrysts. Phenocrysts may comprise aggregates of simple -twinned individual crystals, max gs 2.5x1.8mm. Kfeld is darkened by vfgr (<10um) low-bir kaol alteration, and also contains abundant flakes of ser (bir to 2nd-o bl, LS, str ext, colourless, max gs 50x10um).
Overall mode 42%.
* Plagioclase feldspar and alteration products- perhaps 7% of rock is fgr plag, and another 1% is twinned phenocrysts, max gs 1.4x0.4mm. More extensive ser alteration than Kfeld, sometimes largely replacing plag crystals. Albite and simple twins sometimes visible, but plag sections ill-suited to accurate compositional estimate.
Overall mode 8%.

Minor and Accessory Minerals (8%);
* Biotite phenocrysts- strongly pleo, brn to colourless, str ext. Elongate, max gs 1.8x0.5mm, may be partly altered to chl and (?) fgr Fe-Ti oxide. Most laths appear to be aggregates composed of smaller, elongate subgrains. 3%.
* Carbonate- anh disseminated grains, and local concentrations on late qz veinlets. Colourless, twinkles on rotation. Max gs 800x700um, may be intergrown with qz and anh sulphide. 2%.
* Opaque phases- mostly fgr anh sulphide, less often as rhombohedral euhedra (asp). Mostly asp, with subordinate py, and a trace of Fe-Ti oxide (fgr inclusions are abundant in flakes of bi). Overall mode 1%.
* Muscovite- coarser than ser alteration after feld. Probably a primary phase like bi, max gs 300x100um, mottled appearance at ext position. 1%.
* Chlorite- low 1st-o bir, pale chl, mostly a secondary phase replacing bi. 1%.

* Apatite- colourless, high relief, hexagonal basal section, also elongate prisms, fgr, low 1st-o bir. Included within bi phenocryst, found also in groundmass. Max gs 100x80um. LF, str ext. Rare tr.
* Zircon- one 70x50um grain, rounded, very high relief and bir, pale brownish colour. Located in qz-feld groundmass of rock, causing irradiation damage (darkening) in adjacent bi phenocryst. Another grain in fgr granular qz, 100x80um, shows a square cross-section with bevelled corners, and gives a centred uniaxial +ve figure. Rare tr.

Texture;
rock composed of approx 50% feld, 42% qz, plus 8% minor and accessory phases. Massive, porphyritic granitic intrusive with local development of granophyric texture in groundmass. Cut by very minor qz(-carb-chl) veining, max width 0.5mm, which in one instance cuts through a qz phenocryst, veinlet and host qz in optical continuity. Chloritic alteration of bi more pronounced against veinlet, no concentration of opaques on veining in this CTS.

Summary;
quartz-feldspar porphyry with abundant quartz phenocrysts, widespread traces of silvery arsenopyrite, and lesser traces of disseminated pyrite. Estimated QAP mode (45-46-9) indicates that the bulk mineralogy is that of a K-feldspar-rich granite [1].

Age; Regional geology [2] includes Proterozoic (Windermere) to Paleozoic (and minor Mesozoic) sediments intruded by early-mid Cretaceous felsic to intermediate rocks, and Au-(Sn) placers of late Tertiary/Quaternary age (W - scheelite - also noted in area: S.D. Robinson, pers.commun., 1988).

References;
1. Streckeisen,A (1976) To each plutonic rock its proper name. Earth-Science Reviews 12, 1-33.
2. GSC Map 1513A, 1:2,000,000 scale (1984).

Petrography; GCW, Turnstone Geological Services Ltd, TO
Mon 31-Oct-88

TURNSTONE PETROGRAPHIC DESCRIPTION Status; CONFIDENTIAL

Sample ; CC-88-2 Description; 787

Client/job ; Aurum Geological Consultants Inc., Whitehorse.
Locality ; Clear Creek property, Dawson mining district, Yukon.
Collection details; DDH, intersection 154.60 m.

Format ; CTS, Geoplastech, TO - 30um
Hand specimen data; pale grey porphyry with yellowish wash. 1-3mm phenocrysts include both grey qz and white powdery pseudomorphs after feld. No eff in dil HCl. Not appreciably magnetic. 1 piece and 3 chips.

Major Minerals;
* Quartz- 55% granular qz, 6% phenocrysts. The latter are rounded, embayed, significantly strained (c.f. qz phenocrysts in 88-1 (Descr. 786)), max gs 3.0x2.3mm. Matrix qz displays variable gs, with some vfgr patches. Coarser areas consist of angular qz grains to 100x70um, with interstitial ser flakes. Overall mode 61%.
* Feldspars and alteration products- dominated by fgr flakey sericitic mica. The mica completely pseudomorphs small feld phenocrysts (max size 1.5x1.0mm), individual colourless muscovitic flakes to 200x40um.
35%.

Minor and Accessory Minerals (4%);
* Muscovite- distinctly coarser than ser. Ragged grains to 800x300um, bright int 2nd-o colours, LS, str ext. 3%.
* Secondary Fe oxide- vfgr granular 'lim'. Often on fractures. 1%.
* Altered sphene(?)- pale rhombohedral grains to 1.2x0.6mm, high relief, pale yl body colour. Very low 1st-o bir, appears in XP to be vfgr aggregate of secondary phase pseudomorphing original phenocryst mineral. Does not yield useful int figure. Lozenge-shaped habit is typical of sphene, which may be the precursor phase. Abundant tr.
* Secondary brown carbonate- granular, to 150x120um, brn and (?)Fe-rich, high relief and extreme bir. Tr.
* Opaque phases- a few small irregular grains, to 50x40um. Fe-Ti oxide? Tr.

Texture;
rounded, embayed, strained qz phenocrysts in a fgr qz-rich groundmass. The latter contains vfgr areas (15-30um gs) of granular qz. Margins of some phenocrysts, although in optical continuity with the cores, appear to be disintegrating in bands upto 200um wide. Feld grains are thoroughly sericitized, and even sphene(?) grains are altered to a vfgr secondary phase. Late fracturing carries qz, ser, Fe oxide and traces of Fe carb.

Summary;
thoroughly sericitized quartz-feldspar porphyry. The matrix of the rock is unfoliated, but the rock is cut by micaceous, limonitic fractures.

Age; Cretaceous intrusives, Proterozoic-Paleozoic sediments (see Descr. 786).

Petrography; GCW, Turnstone Geological Services Ltd, TO
Mon 31-Oct-88

TURNSTONE PETROGRAPHIC DESCRIPTION Status; CONFIDENTIAL

Sample ; CC-88-3 Description; 788

Client/job ; Aurum Geological Consultants Inc., Whitehorse.
Locality ; Clear Creek property, Dawson mining district, Yukon.
Collection details; DDH, intersection 116.15 m.

Format ; CTS, Geoplastech, TO - 30um
Hand specimen data; brownish-black, fgr, foliated rock with abundant bi and foliation-parallel streaks of sulphide (pyrr?). Fabric cut at high angles by cgr rusty granitic rock (abundant qz+ musc), and by a fracture lined with euh asp. No eff in dil HCl, not appreciably magnetic. 1 piece and 4 chips.

Major Minerals;
* Muscovite- divided between coarser flakey material (15% of rock) and finer white mica (25%). Small dark pleo haloes are quite common. Overall mode 40%.
* Quartz- 25% of rock is qz-dominated foliation-parallel laminae (some of these psssibly discontinuous qz veinlets). 10% of rock is fgr granular qz amid the micaceous bulk. Overall mode 35%.
* Biotite- strongly pleo brn mica, max gs 300x100um, sometimes carrying small dark pleo haloes. 16%.

Minor and Accessory Minerals (9%);
* Andalusite- colourless to pale or-pink mineral of moderate relief. Str ext, LF, bir 0.010, max gs 2.8x0.6mm. Columnar grains, elongate parallel to foliation. Wide biaxial -ve figure. Distinctive pleo colour observed when laths lie parallel to polarizer (same as max absorption in bi, but not tour). Aluminosilicate polymorph andalusite, a mineral commonly found in metapelites in contact aureoles ([1], pp.38-40). 4%.
* Opaque phases- largely anh sulphides? Irregular grains to approx 450x200um. Also some tabular grains, some including deep brn, translucent patches: Fe-Ti oxides and alteration products? Overall mode 3%.
* Tourmaline- elongate laths of high relief, marked colourless to yl pleo, with bluish tints. Variable aspect ratios. LF, str ext, max gs 300x75um. 2%.

Texture;
strongly foliated bi-rich schist, most prismatic or tabular grains elongate along the strong fabric. Small tour grains overgrow earlier mica flakes.

Summary;
strongly foliated tourmaline-bearing muscovite -biotite schist (metapelitic sediment with pleochroic andalusite) cut (in hand specimen) by granitic veining and by arsenopyrite-lined fracture.

Age; Cretaceous intrusives, Proterozoic-Paleozoic sediments (see Descr. 786).

Reference;
1. Deer,WA, Howie,RA and Zussman,J (1966) An Introduction to the Rock-Forming Minerals. Longman, 528pp.

Petrography; GCW, Turnstone Geological Services Ltd, TO
Mon 31-Oct-88

TURNSTONE PETROGRAPHIC DESCRIPTION Status; CONFIDENTIAL

Sample ; CC-88-4(1) Description; 789

Client/job ; Aurum Geological Consultants Inc., Whitehorse.
Locality ; Clear Creek property, Dawson mining district, Yukon.
Collection details; DDH, intersection 45.00 m.

Format ; CTS, Geoplastech, TO - 31um
Hand specimen data; pale altered rock cut by numerous limonitic fractures. QFP with qz phenocrysts upto 3mm in size. No eff in dil HCl, not appreciably magnetic. 1 piece and 5 chips.

Major Minerals;
* Quartz- 6% phenocrysts, abundant fgr granular qz. Phenocrysts are strained, max gs approx 1.5x1.2mm, with numerous fluid inclusions, both primary (to 10um dia, with central gas bubbles) and secondary (<10um, in trails crossing the crystals). Occasional cgr musc inclusions in phenocrysts.
Overall mode 68%.
* Sericitic mica- vfgr 'white mica', in part as pseudomorphous replacements after feld phenocrysts, max gs approx 1.0x0.6mm. Thought to be derived largely from the alteration of fgr feld in the groundmass of the rock. 25%.

Minor and Accessory Minerals (7%);
* Secondary Fe oxides- mostly as granular infillings of jagged, brittle fractures. Yl-brn colour, very high relief, extreme bir; 'go'. Veins as wide as 600um, mostly 50-150um, filled with extremely fgr granular material. Higher relief than carb, no twinkling on rotation. A trace of (?) oxidized py grains are now pseudomorphs, max gs 280x150um, with a more typically red go replacing the sulphide. 4%.
* Flakey muscovite mica- coarse colourless mica, bright int colours, max gs 400x300um. Arguably a primary mica, although some may be recrystallized (coarsened) ser. 3%.
* Tourmaline- high relief, strong yl-brn to colourless pleo, single 400x120um prism, LF, str ext, 2nd-o bl int colour. Rare tr.
* Zircon- colourless, very high relief, 150x90um grain, LS, bright int colours to lower 3rd-o. Rare tr.

Texture;
quartzose sericitized rock cut by irregular, iron-stained fractures, lined by late Fe oxide alteration. Porphyritic primary texture, with abundant qz phenocysts (lesser volume of feld phenocrysts now altered to micaceous aggregates).

Summary;
pale, fractured, thoroughly sericitized quartz-feldspar porphyry.

Age; Cretaceous intrusives, Proterozoic-Paleozoic sediments (see Descr. 786).

Petrography; GCW, Turnstone Geological Services Ltd, TO
Mon 31-Oct-88

TURNSTONE **PETROGRAPHIC DESCRIPTION** **Status; CONFIDENTIAL**

Sample ; CC-88-4(2) **Description; 790**

Client/job ; Aurum Geological Consultants Inc., Whitehorse.
Locality ; Clear Creek property, Dawson mining district, Yukon.
Collection details; DDH, intersection 76.95 m.

Format ; CTS, Geoplastech, TO - 30um
Hand specimen data; dark brn, strongly foliated, rusty-weathering rock with streaks of fgr sulphide (asp and ?pyrr). Apparently rich in bi mica, with a few qz-rich lenticles. No eff in dil HCl. Noticeably magnetic in HS. 1 piece plus 4 chips.

Major Minerals;
* Quartz- the large qz lenticle which makes up roughly half of the CTS has a seriate texture, with equant, unstrained qz grains, max gs 700x600um. Smaller qz grains also form less clearly-marked patches in the bi-rich bulk rock.
50%.
* Biotite- moderately pleo bi, warm brn to colourless tints, LS, str ext. Some small dark pleo haloes. Elongate, euh sections common, overgrowing earlier-formed bi flakes.Max gs 250x120um.
42%.
* Plagioclase feldspar- found not in the qz lenticles, but as interstitial grains in bi-dominated bulk of the rock. 1st-o grey bir, sometimes with traces of simple and albite twinning. Max gs 250x70um, appears quite fresh.
5%.

Minor and Accessory Minerals (3%);
* Opaque phases- essentially all irregular sulphides. Asp and possibly pyrr. Found in both qz- and bi-rich areas, coarsest in qz lenticles, max gs approx 1.2x0.6mm. May be partly overgrown by granular carb. 3%.
* Apatite- colourless, high relief (RI>>qz), low 1st-o bir, max gs 120x70um. Common in bi-rich foliae. Abundant tr.
* Carbonate- vfgr granular carb, as overgrowths on cgr sulphide. Pale brownish carb, granular clumps to 120x40um. Tr.
* Epidote, var. allanite(?)- pale yl-brn epi family mineral, assoc with brn pleo haloes in bi mica. High relief, max gs 30x20um. Rare tr.

Texture;
foliated micaceous rock with qz lenticles. CTS includes a large qz-rich lenticle, and as such the estimated mode is qz-rich and bi-poor relative to the sample as a whole. Decussate-textured foliae consist largely of sheaves of flakey bi, with interstitial feld. The large lenticle is a seriate mass of equant qz grains, the unstrained qz presumably crystallized / recrystallized during the local peak metamorphism.

Summary;
foliated quartz-biotite schist with disseminated sulphides.

Age; Cretaceous intrusives, Proterozoic-Paleozoic sediments (see Descr. 786).

Petrography; GCW, Turnstone Geological Services Ltd, TO
Tue 01-Nov-88

TURNSTONE PETROGRAPHIC DESCRIPTION Status; CONFIDENTIAL

Sample ; CC-88-5 Description; 791

Client/job ; Aurum Geological Consultants Inc., Whitehorse.
Locality ; Clear Creek property, Dawson mining district, Yukon.
Collection details; DDH, intersection 45.10 m.

Format ; CTS, Geoplastech, TO - 28um
Hand specimen data; pale grey intrusive rock, 1-2mm gs, sparse qz phenocrysts. Traces of disseminated fgr sulphide (asp and ?pyrr+py). Similar in appearance to CC-88-1 (Descr. 786), but more equigranular in texture. Minor amounts of mafic phases (bi). Cut by mm-wide qz veinlet with limonitic altered borders 2-8mm thick. No eff in dil HCl, not appreciably magnetic. 1 piece plus 3 chips.

Major Minerals;
* Quartz- 5% in vein, 5% as phenocrysts, and roughly 48% of rock as vfgr crystals in groundmass. Rounded phenocrysts, often embayed, displaying little strain, max gs 1.8x1.5mm. Vein qz is also little strained, with ragged grain margins, max gs 1.6x1.2mm. Groundmass qz is equant, subangular, gs mostly 25-50um. Overall mode 58%.
* Plagioclase feldspar and alteration products- 7% of rock is partially altered plag phenocrysts. Very roughly 20% of rock is thought to be fgr plag in matrix of rock. Phenocrysts display both Carlsbad and albite twin laws, max gs approx 1.5x0.5mm. Variably altered to flakey ser (and sometimes to traces of other phases: carb and epi). Fgr feld in the matrix of the rock commonly carries vfgr ser alteration.
Overall mode 27%.
* Alkali feldspar and alteration products- a few phenocrysts, plus uncertain fraction (estimate; 14% of rock) in groundmass. Most grains are 30-50um in size, with variable dark (kaol) alteration.
Overall mode 14%.

Minor and Accessory Minerals (1%);
* Biotite- brn pleo mica flakes. The larger grains (to 2200x200um) are criss-crossing patchworks of smaller flakes, sometimes with dark rims; possibly secondary after amph? Often with stubby inclusions of Fe-Ti oxides. 1%.
* Carbonate- colourless granular carb. Max gs 300x200um, in part assoc with sulphide. Abundant tr.
* Opaque phases- anh sulphides to 500x300um, and tabular Fe-Ti oxide grains assoc with bi, including a few grains of brn (extremely high relief and bir) rut. Tr.
* Non-ferrian zoisite- high relief, pale yl body colour, anomalous deep bl colour in low 1st-o bir. An epi family mineral. Str ext. Assoc with sulphides, and as alteration product of plag. Tr.
* Chlorite- bluish and brownish low 1st-o int colours, flakes secondary after bi. Very pale grn to colourless, max gs 250x250um. Tr.
* Muscovite- colourless ragged flakes to 300x200um. Tr.
* Zircon- small grains, very high relief and bir. Pale yl to colourless, max gs 70x60um, adjacent bi showing deep brn pleo haloes upto 30um thick. Rare tr.
* Apatite- colourless, high relief, low bir, max gs 70x60um. Rare tr.

Texture;
porphyritic intrusive rock, with small (and hence not very prominent) qz and feld phenocrysts. The fgr nature of groundmass of rock makes QAP estimate for bulk rock (excluding qz veining) very inaccurate: QAP 56-15-29 suggests a granodiorite; a lower Kfeld content would indicate the name tonalite instead. Bulk rock is cut by a vein of pure, unstrained, polygonal qz, 1.2-2.2mm wide.

Summary;
granodiorite with small quartz and feldspar phenocrysts, cut by thin quartz veinlet with broad altered selvages.

Age; Cretaceous intrusives, Proterozoic-Paleozoic sediments (see Descr. 786).

Petrography; GCW, Turnstone Geological Services Ltd, TO
Tue 01-Nov-88

TURNSTONE PETROGRAPHIC DESCRIPTION Status; CONFIDENTIAL

Sample ; CC-88-6(1) Description; 792

Client/job ; Aurum Geological Consultants Inc., Whitehorse.
Locality ; Clear Creek property, Dawson mining district, Yukon.
Collection details; DDH, intersection 12.85 m.

Format ; CTS, Geoplastech, TO - 30um
Hand specimen data; speckled intrusive with abundant fgr bi flakes (including tabular phenocrysts to 3mm) and also 3mm greenish plag phenocrysts. Fresh-looking bi granodiorite, cut by rusty (?) joint planes. No eff in dil HCl, not appreciably magnetic. 1 piece cut in 2.

Major Minerals;
* Plagioclase feldspar and alteration products- phenocrysts with strong zoning, simple and albite twinning are prominent (8% of rock), max gs 2.7x1.1, 1.8x1.7mm. Half (52%) of rock is relatively fgr plag crystals, gs<0.5mm. All plag shows patchy traces of (minor) kaol alteration. Overall mode 60%.
* Quartz- 12% of rock is granular qz, another 10% is the qz component of the granophyric intergrowths which are a major feature of the groundmass of the rock. Overall mode 22%.
* Alkali feldspar- approx half of the 20% content of granophyre in the rock. Apparently quite fresh, RI<qz. 10%.
* Biotite- deep foxy red pleo bi. Max gs 2.0x0.3mm. 7%.

Minor and Accessory Minerals (1%);
* Amphibole- pale bl-grn pleo, fairly high relief, amph var. act. Max gs 1200x900um. May be simple-twinned. Incl ext. Wide biaxial -ve figure, 2V approx 75. 1%.
* Opaque phases- anh grains of sulphides, max gs 600x600um, in part intergrown with bi flakes. Tr.
* Chlorite- bluish anomalous int colours, LS, str ext, chl var. penninite. Tr.
* Epidote- pale yl, 1st-o bir, max gs 90x80um. Epi s.s. or related phase. Tr.
* Rutile- hexagonal exsolution patterns; acicular rut in bi. Rare tr.
* Zircon- very high relief, bright int colours despite fine gs. Max gs 70x35um, LS, str ext, int colours to lower 3rd-o. Rare tr.

Texture;
patches of irregular granophyric intergrowths make up about one fourth of the matrix of the rock. Well-formed, intimate intergrowths make up a relatively small proportion of this volume, in patches upto 300um in dia. Plag phenocrysts are prominent, and mostly display complex concentric zoning. The estimated QAP mode of the rock, 24-11-65, is on the plag-rich 'end' of the granodiorite field, c.f. CC-88-5 (Descr. 791), which was equally qz-rich.

Summary;
a largely unaltered plagioclase-phyric biotite granodiorite.

Age; Cretaceous intrusives, Proterozoic-Paleozoic sediments (see Descr. 786).

Petrography; GCW, Turnstone Geological Services Ltd, TO
Tue 01-Nov-88

TURNSTONE PETROGRAPHIC DESCRIPTION Status; CONFIDENTIAL

Sample ; CC-88-6(2) Description; 793

Client/job ; Aurum Geological Consultants Inc., Whitehorse.
Locality ; Clear Creek property, Dawson mining district, Yukon.
Collection details; DDH, intersection 57.85 m.

Format ; CTS, Geoplastech, TO - 29-32um
Hand specimen data; vfgr silicified rock, orangey-brn in colour, with a trace of disseminated py. Cut by numerous quartzose fractures, including wider (early) and narrow (late) examples. Orangey material either Kfeld or Fe-rich carb? A 7mm-wide banded quartzose veinlet in the earlier set carries abundant asp and a trace of chalc. No eff in dil HCl, and not appreciably magnetic. 1 piece plus 7 chips.

Major Minerals;
* Quartz- earlier granular qz and later, coarser veining, the latter with max gs approx 1.5x0.7mm, irregular prisms cut by planes of recrystallization (zones of gs reduction with 20um qz granules). 87%.
* Muscovite- late, may be intergrown with granular carb bordering sulphide, sheaves of brightly bir flakes to 250x120um, LS, str ext. 5%.
* Opaque phases- sulphides: largely asp and minor py, both phases occasionally displaying euh (rhombic, square) crystal outlines. Mostly occurs in late qz veining. Max gs 2.0x2.0mm, may carry small rounded inclusions of qz, sometimes fractured, the cracks infilled by fgr qz and traces of go. 5%.

Minor and Accessory Minerals (3%);
* Carbonate- colourless carb, angular, max gs 350x300um, finely granular rather than coarsely crystalline. Stained brn by lim in late qz veining. 3%.
* Plagioclase feldspar- mostly rather turbid, with dark kaol and minor ser alteration. Max gs 350x250um, albite-twinned, in fgr qz matrix. Abundant tr.
* Secondary Fe oxide- red, high relief, translucent go replacing sulphide (py?) in cracks, areas to 200x20um. Rare tr.
* Zircon- vfgr, max gs 50x40um, pale, very high relief, high bir. Rare tr.

Texture;
the qz-rich mineralized zone cutting the rock seems to be late veining with asp-plated margins and a thin, off-centre band of final asp deposition within the core of the vein. This veining cuts a granular, fgr, siliceous lithology which is either an intensely silicified rock or (more likely) an earlier phase of massive qz veining. This wallrock has a crude micaceous foliation which is truncated by the sulphidic veining, and contains traces of plag, carb and zir.

Summary;
highly siliceous rock cut by quartz-rich, arsenopyritic veining. Arguably the whole sample represents two successive stages of quartz veining, the first essentially barren, the second carrying (Cu)-Fe-As sulphide mineralization.

Age; Cretaceous intrusives, Proterozoic-Paleozoic sediments (see Descr. 786).

Petrography; GCW, Turnstone Geological Services Ltd, TO
Tue 01-Nov-88

TURNSTONE **PETROGRAPHIC DESCRIPTION** **Status; CONFIDENTIAL**

Sample ; CC-88-7(1) **Description; 794**

Client/job ; Aurum Geological Consultants Inc., Whitehorse.
Locality ; Clear Creek property, Dawson mining district, Yukon.
Collection details; DDH, intersection 50.70 m.

Format ; CTS, Geoplastech, TO - irregular, approx 34um
Hand specimen data; extremely soft and friable, intensely altered rock, very difficult to section effectively (extensive epoxy impregnation required). White, powdery, with qz-lined cavities and relict rounded (2mm) qz phenocrysts. No eff in dil HCl, not appreciably magnetic. 1 piece and 3 chips.

Major Minerals;
* Quartz- the bulk of this sample is fgr, granular, unstrained qz, most grains 50-200um in dia. A few of the largest crystals, max gs approx 400x250um, display appreciably strained ext.
90%.
* Sericite- vfgr muscovitic mica, colourless, LS, str ext, max gs approx 70x40um, int colours to 2nd-o bl. Isolated flakes, patches, sinuous foliae, and fracture fillings throughout the sample. May be at least partly derived from alteration of feld, but this is not certain as no relict feld nor obvious pseudomorphs occur in the CTS.
10%.

Minor and Accessory Minerals (Tr.);
* Opaque phases- max gs 150x150um, probably sulphide plus traces of secondary Fe oxides. Tr.
* Tourmaline- pale to deep yl-brn pleo, high relief, str ext, LF, prominent basal parting on small prisms, max gs 250x100um. Dominant yl colour of tour in this suite consistent with tour dominated by the dravite (Mg) end-member. Tr.
* Carbonate- pale yl-brn granular carb, max gs 70x50um. Rare tr.

Texture;
finely granular rock, qz and fgr secondary sheet silicate (ser). The HS, more than the CTS, suggests a primary porphyritic texture, with original qz (and, possibly, feld) phenocrysts. Cut by micaceous foliation, the oriented fabric suggesting a degree of ductile shear accompanying recrystallization, which was followed by minor brittle fracturing.

Summary;
a foliated felsic intrusive (probably a quartz porphyry). Shearing accompanied by intense sericitization and silicification, with deposition of traces of sulphides and tourmaline.

Age; Cretaceous intrusives, Proterozoic-Paleozoic sediments (see Descr. 786).

Petrography; GCW, Turnstone Geological Services Ltd, TO
Tue 01-Nov-88

TURNSTONE PETROGRAPHIC DESCRIPTION Status; CONFIDENTIAL

Sample ; CC-88-7(2) Description; 795

Client/job ; Aurum Geological Consultants Inc., Whitehorse.
Locality ; Clear Creek property, Dawson mining district, Yukon.
Collection details; DDH, intersection 73.90 m.

Format ; CTS, Geoplastech, TO - 33um
Hand specimen data; a vfgr foliated rock, grey in colour, dappled with small clumps and foliae of fgr (?) bi. Disseminated silvery asp, the coarser grains subh-euh, striated. Cut by thin fractures with creamy carb, rimmed by rusty orange alteration haloes several mm wide, showing minor eff in dil HCl. Not appreciably magnetic. One piece and 5 chips.

Major Minerals;
* Quartz- 91% in bulk rock, 1% in qz vein at one corner of CTS. Unstrained vein qz to 750x400um. Equant wallrock qz, 100-300um gs. Overall mode 92%.
* Muscovite- mid-2nd-o bir, colourless flakes to 400x60um. One basal section with rut inclusions gives fuzzy biaxial -ve figure. Trace of euh musc flakes in qz vein represents a late (hydrothermal) generation. 5%.

Minor and Accessory Minerals (3%);
* Biotite- brn pleo flakes. Near-uniaxial -ve figure, max gs 300x150um. 2%.
* Opaque phases- max gs 1.6x0.6mm. Subh-euh sulphide (asp), both in qz vein and overgrowing musc foliae in the adjacent wallrock. 1 %.
* Chlorite- very pale, very low 1st-o bir, flakes sometimes assoc with musc. Max gs approx 250x150um. Abundant tr.
* Plagioclase feldspar- scattered grains, max gs 600x400um, with albite and pericline twinning. Tr.
* Carbonate- colourless, twinkling carb, extreme bir, may enclose small musc flakes, found in the qz veinlet. Max gs 250x150um. Tr.
* Rutile- foxy-brn high-relief acicular inclusions in basal section of musc, max gs 70x10um, bright bir visible through strong body colour. Rare tr.
* Zircon- very high relief, pale yellowish grains, max gs 120x60um. Strong bir (3rd-o colours). Rare tr.
* Tourmaline- yl-brn pleo, high relief, max gs 130x75um. Rare tr.
* Epidote(?)- high relief grains to 180x180um in qz veining, high relief and 1st-o yl int colour. Rare tr.

Texture;
fgr granular siliceous rock, foliation defined by musc sheaves, cut by thin qz-(asp) veinlet. Asp+tour may be preferentially developed upon musc foliae. Unstrained equant qz in wallorkc indicates extensive recrystallization during foliation development.

Summary;
biotite quartz gneiss cut by thin quartz-(arsenopyrite) veining.

Age; Cretaceous intrusives, Proterozoic-Paleozoic sediments (see Descr. 786).

Petrography; GCW, Turnstone Geological Services Ltd, TO
Wed 02-Nov-88

TURNSTONE PETROGRAPHIC DESCRIPTION Status; CONFIDENTIAL

Sample ; CC-88-7(3) Description; 796

Client/job ; Aurum Geological Consultants Inc., Whitehorse.
Locality ; Clear Creek property, Dawson mining district, Yukon.
Collection details; DDH, intersection 110.50 m.

Format ; CTS, Geoplastech, TO - 31um
Hand specimen data; breccia with cm-sized fragments in a vfgr black matrix. Some clasts are finely foliated, and variably micaceous. Others are white, vfgr, massive, apparently silicified. No eff in dil HCl. Not appreciably magnetic. One piece cut in 2 plus 3 chips.

Major Minerals;
* Quartz- equant recrystallized grains (max gs approx 300x220um) in the schist clasts, and finer grains (mostly <50um) in the bi- and tour- rich matrix.
65%.
* Biotite- rich brn bi flakes, max gs 280x150um, near-uniaxial -ve figure. Found in some clasts, and as dense-packed fine flakes in matrix.
16%.
* Tourmaline- prismatic habit, max gs 550x100um, 400x50um, colourless to yl-brn pleo, max absorption normal to polarizer, bright bl 2nd-o bir, LF, str ext. Basal parting. Some cross- sections of tour show concentric zoning.
12%.
* Muscovite- concentrated within two musc-dominated clasts, colourless flakey mica, bright 2nd-o bir. Broad micaceous swathes in these clasts composed of aligned musc flakes, max gs approx 100x25um.
6%.

Minor and Accessory Minerals (1%);
* Cordierite?- rather low relief, massive to columnar habit (not flakey like micas nor fibrous like some sill), densely crowded with inclusions of tour, bi and opaque grains. Bir 0.007, with a very wide biaxial -ve int figure. Like musc, occurs in restricted area of CTS, corresponding to metapelitic clasts in the breccia. Inclusions often aligned within the host phase. Some vfgr (?) ser alteration. Thought to be cord, with minor 'pinite' alteration. 1%.
* Opaque phases- irregular clumps of sulphide to 700x400um, mostly located in small micaceous clasts. Abundant tr.
* Chlorite- very pale grn, anomalous deep bl low-1st-o int colours, str ext, LS, chl var. penninite. Tr.
* Fe oxides- secondary red go on late fractures, and (?) replacing pre-existing sulphide grains, max gs 150x120um. Tr.
* Carbonate- colourless carb, disseminated and on late fractures, max gs 100x70um, twinkles on rotation. Tr.
* Apatite- colourless, high relief, LF, str ext, low bir, max gs 250x75um, elongate prismatic habit. Rare tr.
* Zircon- pale, very high relief, max gs 130x70um. High bir seen in suitable grains. May generate dark pleo haloes upto 35um wide in adjacent bi. Rare tr.

Texture;
breccia of mm- to cm- sized clasts, mostly micaceous schistose lithologies, in a qz-bi-tour matrix. Tour prisms grow as fine porphyroblasts across the micas and cord in the clasts. This tour may grow across mica foliation, although it may be preferentially located along kink bands in musc-rich areas. The largest clast is a qz schist, with strong foliation outlined by foliae of bi mica.

Summary;
hydrothermal breccia with a dark biotite- and tourmaline- rich matrix enclosing cm-scale clasts, most of which appear to be schistose, altered metapelitic sediments. A brecciated, tourmalinized, muscovite-biotite schist.

Age; Cretaceous intrusives, Proterozoic-Paleozoic sediments (see Descr. 786).

Petrography; GCW, Turnstone Geological Services Ltd, TO
Wed 02-Nov-88

TURNSTONE **PETROGRAPHIC DESCRIPTION** **Status; CONFIDENTIAL**

Sample ; CC-88-8 **Description; 797**

Client/job ; Aurum Geological Consultants Inc., Whitehorse.
Locality ; Clear Creek property, Dawson mining district, Yukon.
Collection details; DDH, intersection 90.40 m.

Format ; CTS, Geoplastech, TO - 31um
Hand specimen data; deformed, foliated, apparently porphyritic rock with abundant small (1mm) white feld (?)phenocrysts. Trace of fgr disseminated py. Thin lenticles of grey qz elongated in the plane of the foliation. No eff in dil HCl. Not appreciably magnetic. One piece cut in 2 plus 5 chips.

Major Minerals;
* Quartz- unstrained, inclusion-free, largely recrystallized qz, max gs 450x300um. Coarsest in monomineralic qz lenticles.
90%.
* Muscovite- colorless flakes, bright 2nd-o bir, max gs 550x70um. Individual flakes often slightly bent, LS, str ext. Mostly as micaceous foliae.
9%.

Minor and Accessory Minerals (1%);
* Opaque phases- small grains in both qz lenticles and the bulk rock, max gs 120x60um. Probably a mixture of sulphide plus lesser primary and secondary Fe-(Ti) oxides. 1%(-).
* Tourmaline- yl-brn pleo, high relief, uniaxial -ve figure, max gs 370x220um. Common in some planes within the rock. Abundant tr.
* Carbonate- brn granular carb, probably Fe-rich. Vfgr, individual granules often 10um or so, in aggregates upto 100um in dia. Tr.
* Apatite- colourless grains, fairly high relief, very low bir. Many equant grains, max gs 70x60um. Tr.
* Zircon- pale, very high relief and bir, max gs 60x60um. Rare tr.

Texture;
qz-rich lithology, a recrystallized schistose rock, foliation defined by discontinuous oriented streamers of flakey musc. In HS the pale altered feld grains are more suggestive of phenocrysts than detrital feld. In CTS lenticles of pure, equigranular qz are bounded by thin sheets of musc. While clots of sericitic mica (and maybe other vfgr sheet silicates) do occur, no definite phenocrysts were identified.

Summary;
quartz-sericite schist of uncertain origin. Originally thought to be a felsic porphyritic volcanic rock with a strong acquired foliation, but the strong fabric, suggestive of a mylonite, may have replaced the primary texture of some other siliceous protolith.

Age; Cretaceous intrusives, Proterozoic-Paleozoic sediments (see Descr. 786).

Petrography; GCW, Turnstone Geological Services Ltd, TO
Wed 02-Nov-88

TURNSTONE **PETROGRAPHIC DESCRIPTION** **Status; CONFIDENTIAL**

Sample ; J.C. **Description; 798**

Client/job ; Aurum Geological Consultants Inc., Whitehorse.
Locality ; Clear Creek property, Dawson mining district, Yukon.
Collection details; HS.

Format ; CTS, Geoplastech, TO - 32um
Hand specimen data; pale buff -coloured schist, very fine-scale (<<1mm) foliation. Limonitic alteration on surface and on thin foliation -parallel fractures. No eff in dil HCl. Not appreciably magnetic. One piece cut in 2 plus 4 chips.

Major Minerals;
* Quartz- max gs 800x500um, less recrystallized than sample CC-88-8 (Descr. 797). Rounded to irregular grains, some of the larger ones elongate along the foliation direction. Mostly unstrained, only the largest crystals showing slightly undulose ext.
95%.

Minor and Accessory Minerals (5%);
* Secondary Fe oxides- areas of yl 'lim' and red 'go' to 250x150um. 2%(+).
* Chlorite- very pale chl flakes, max gs 200x70um, LS, str ext, low bir. 1%.
* Muscovite- colourless flakes to 200x50um. 1%.
* Biotite- small brn flakes, strongly pleo. 1%(-).
* Carbonate- vfgr brn granular (?)Fe- rich carb, highly bir despite small gs. Tr.
* Zircon- very high relief, 3rd-o int colours, a pale ovoid euh grain, 60x30um in size. Rare tr.

Texture;
A fgr foliated lithology, seriate qz grains entrained in thin laminae of sheet silicates and other phases, coloured by the Fe oxide and chl contents.

Summary;
finely foliated quartz schist. The quartzose mineralogy, and the lesser degree of recrystallization (relative to CC-88-8, Descr. 797) suggest that both samples may have a fine, clastic sediment as a protolith.

Age; Cretaceous intrusives, Proterozoic-Paleozoic sediments (see Descr. 786).

Petrography; GCW, Turnstone Geological Services Ltd, TO
Wed 02-Nov-88

TURNSTONE **PETROGRAPHIC DESCRIPTION** **Status; CONFIDENTIAL**

Sample ; 8-828084 **Description; 799**

Client/job ; Aurum Geological Consultants Inc., Whitehorse.
Locality ; Clear Creek property, Dawson mining district, Yukon.
Collection details; HS.

Format ; CTS, Geoplastech, TO - 31um
Hand specimen data; milky vein qz and adjacent black qz breccia. Greenish (tour) fractures cut the qz subparallel to wavy contact with black breccia (matrix colouration due to vfgr tour and sulphide) carrying vein qz fragments. Rusty surface of qz shows a drusy (cellular) texture, perhaps due to weathering of fgr sulphide grains. Vein qz contains abundant asp, max gs 3mm, and a trace of py. Traces of sulphides also found in breccia. No eff in dil HCl. Not appreciably magnetic. One piece and 5 chips.

Major Minerals;
* Quartz- bulk of sample is angular, strained vein qz, coherent crystals to 3.6x2.6mm (larger crystals, broken into strained subgrains, approach 10mm). Ragged grains with abundant fluid inclusions, mostly <10um in dia, some with single gas bubbles.
94%.

Minor and Accessory Minerals (6%);
* Opaque phases- in both the vein and adjacent breccia, the sulphide (largely asp, some py) occurs in two habits: fgr subh-euh crystals (single and in clusters) and larger crystals, commonly broken, with qz (and sometimes sphene) infilling the fractures and forming thin rims on the sulphide. 4%.
* Tourmaline- pale yl-brn pleo tour, high relief, str ext, LF. Small prisms to 120x15um. A major component of the breccia matrix, but absent from the nearly qz veining. 2%.
* Sphene- fgr pale brownish high-bir sphene, sometimes in small discrete grains, often forming a translucent rind on opaque grains. Tr.

Texture;
sample consists largely of vein qz. One end of CTS (and HS) is brecciated, with angular vein qz clasts in a fgr qz-tour matrix. Sulphides (dominated by asp) occur in both vein and adjacent breccia. Progressive fracturing of cgr qz at the margin of the coherent veining suggests that this early qz was fractured during a renewal of movement along the plane of the vein, generating the breccia which was cemented by a new, B-rich influx of mineralizing fluid.

Summary;
vein quartz and breccia. Sample contains abundant disseminated arsenopyrite. General appearance of hand specimen suggests an arsenical (deeper?) variant of epithermal veining encountered at other locations in the cordillera.

Age; Cretaceous intrusives, Proterozoic-Paleozoic sediments (see Descr. 786).

Petrography; GCW, Turnstone Geological Services Ltd, TO
Wed 02-Nov-88

TURNSTONE **PETROGRAPHIC DESCRIPTION** **Status; CONFIDENTIAL**

Sample ; 8-411030 **Description; 800**

Client/job ; Aurum Geological Consultants Inc., Whitehorse.
Locality ; Clear Creek property, Dawson mining district, Yukon.
Collection details; HS.

Format ; CTS, Geoplastech, TO - 30um
Hand specimen data; fgr felsic intrusive, gs 1-2mm, sparse feld phenocrysts to 3mm, mostly qz and white feld, with scattered dark bi flakes. No eff in dil HCl. Not appreciably magnetic. One piece and 5 chips.

Major Minerals;
* Alkali feldspar and alteration products- distinctive coarse perthitic exsolution. Relatively cgr, max gs 4.2x2.5mm. Commonly single-twinned, with dark patchy alteration to vfgr kaol. Low relief, RI<qz. 38%.
* Plagioclase feldspar and alteration products- variable simple, albite and pericline twin laws. One euh phenocryst, 2.5x1.4mm, is larger than the other grains, which show variable (generally minor) kaol and ser alteration. 32%.
* Quartz- irregular qz, as discrete grains, excepting very minor graphic intergrowth with Kfeld. Max gs 1.4x1.2mm, slight strain, commonly with rounded grain boundaries against Kfeld. 27%.

Minor and Accessory Minerals (3%);
* Biotite- strongly pleo in brn tones, partially altered to chl along basal cleavage planes, largest flakes 2.0x0.4, 1.4x0.6mm. Local exsolution of thin brn rut needles. 2%.
* Muscovite- colourless flakes, bright bir, mottled in ext position. 1%.
* Opaque phases and alteration products- small rounded grains of (?)oxides to 90x50um, in part altered to granular sphene. Tr.
* Chlorite- replacing bi, grn pleo chl with bl low 1st-o bir. LS, str ext. Tr.
* Zircon- tiny (10-30um) inclusions in dark pleo haloes (upto 30um wide) in bi. Also found outside the mica, max gs 60x30um. Rare tr.
* Rutile- thin brn needles exsolved from bi mica. Rare tr.

Texture;
allotriomorphic granular texture, with ragged grains (qz plus 2 feld) showing complex margins. A few euh phenocrysts (a hexagonal plag grain is the best example) show evidence of reaction with the bulk rock, and may be xenocrysts of a related melt, entrained during emplacement of the granite magma.

Summary;
a predominantly fine-grained biotite granite, estimated QAP mode 28-39-33, presumably a relatively late, chemically evolved intrusive in the region, not subject to significant deformation or deuteric-hydrothermal alteration.

Age; Cretaceous intrusives, Proterozoic-Paleozoic sediments (see Descr. 786).

Petrography; GCW, Turnstone Geological Services Ltd, TO
Wed 02-Nov-88

GLOSSARY OF ABBREVIATIONS USED IN PETROGRAPHIC DESCRIPTIONS

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The following are often obvious, but for the record most of the abbreviations used are given below, with some additional notes on procedures involved. This system is being evolved for detailed, standardised descriptions, and can be applied to handwritten or computer-based formats. For an example of a very rigid, coded format (conceived for handling large numbers of samples on now-obsolete computer card input) see McRitchie (1969). The current expansion of this glossary is intended for use with GCW's numbered description series, starting at no. 401.

An earlier (1986), Spanish-annotated edition of this glossary is available; two relevant works in Spanish being - Anon (1981), Williams et al (1968).

Specifics of rock names and mineralogy are commonly dealt with by references in the descriptions concerned. A major advance in plutonic rock nomenclature is the modal classification described by Streckeisen (1976), and generalized for all igneous rocks by Hyndman (1972, pp.31-41).

Colour:

bl	blue
brn	brown
grn	green
or	orange
yl	yellow

General:

anh	anhedral
assoc	associated
balsam	mounting medium; balsam or glue of similar RI.
DDH	diamond drill hole (drill core samples)
dia	diameter
EDS	energy-dispersive spectrometry (of EPM)
eff in HCl	effervescence in (cold) dilute (10%) hydrochloric acid
EPM	electron microprobe analysis
esp	especially
euh	euhedral
HS	hand specimen
magnetism	magnetic samples, enriched in minerals such as mag and magnetic pyrr, may be remarked on in HS descriptions. High concentrations of these phases result in an extremely magnetic sample, in which an offcut slice (say 45x25x5 mm) of the rock can be lifted up with a small magnet.
max	maximum
min	minimum

PGE	Platinum Group Elements
PGM	Platinum Group Minerals
rel	relatively (or 'relief'; discontinued)
WDS	wavelength-dispersive spectrometry (of EPM)
staining	Kfeld staining involves the HF - sodium cobaltinitrate test (see e.g. Sclar and Fahey 1972, Hayes and Klugman 1959), leaving a bright yellow colouration on the feldspar. For carbonate staining a variety of methods can serve to distinguish e.g. calcite, dolomite, ankerite and magnesite, the most important carbonates to differentiate when outlining gold-related alteration assemblages. See the paper by Friedman (1959), and the chapter in Hutchison (1974).
symm	symmetric(ally)
tr	trace

Grainsize:

dia	diameter
(v)cgr	(very)coarse-grained
mgr	medium-grained
fgr	fine-grained
gs	grain size - NB; section orientation influences apparent size of tabular and acicular minerals (e.g. micas and tourmalines respectively).
mm	1 mm=0.03937 inch
um	1 micron=0.001 mm

Minerals (including some solid solutions - 66 species and groups of minerals):

ab	albite
act	actinolite
amph	amphibole
an	anorthite
ap	apatite
asp	arsenopyrite
bi	biotite
cal	calcite
carb	carbonate
chalc	chalcopyrite
chl	chlorite
chr	chromite
clzo	clinozoisite
cord	cordierite
cpx	clinopyroxene
ctoid	chloritoid
cumm	cummingtonite
di	diopside
dol	dolomite
en	enstatite
epi	epidote
fa	fayalite
fo	forsterite
fstilp	ferrostilpnomelane
gal	galena

gar	garnet
go	goethite
grp	graphite
hb	hornblende
hem	hematite
hyp	hypersthene
ilm	ilmenite
kaol	kaolinite
Kfeld	alkali feldspars;orthoclase, microcline,perthite,sanidine..
ky	kyanite
lim	limonite
ma	marialite (sodic scapolite)
mag	magnetite
marc	marcasite
me	meionite (calcic scapolite)
moly	molybdenite
musc	muscovite
neph	nepheline
oliv	olivine
opx	orthopyroxene
pent	pentlandite
phlog	phlogopite
plag	plagioclase feldspar
px	pyroxene
py	pyrite
pyrr	pyrrhotite
qz	quartz
rieb	riebeckite
rut	rutile
ser	sericite
serp	serpentine
sill	sillimanite
sphal	sphalerite
sphen	sphene (titanite)
staur	staurolite
stilp	stilpnomelane
tour	tourmaline
ves	vesuvianite (idocrase)
woll	wollastonite
zir	zircon
zo	zoisite

Miscellaneous:

C-A	Carlsbad-Albite twinning in plagioclase
QAM	Quartz-Ankerite-Mariposite rock (Mother Lode)
QAP	Quartz - Alkali-feldspar - Plagioclase estimated modes in a rock, normalized to 100% (see Streckeisen 1976).
QFP	Quartz-Feldspar-Porphyry

Mode: A rough visual estimate. Accessory phases <1% are annotated 'Tr.' (trace); subdivisions are 'Abundant tr.' and 'Rare tr.'. An attempt is made to counteract the common tendency to overestimate the frequency of the dark phases. Minerals are described in order of decreasing modal abundance.

Optical Properties:

aniso	anisotropic/anisotropy
bir	birefringence - relative retardation is often written in shorthand,e.g. 1st-o yl = first-order yellow. The maximum birefringence is estimated from the thickness (calculated from colours of dependable minerals, such as quartz) and the highest colours observed in the section.
birl	bireflectance
ext	extinction. May be 'str' (straight, parallel to length) or 'clean', meaning that the whole grain goes dark at once, c.f. strained quartz, for instance.
int	interference
LF/LS	orientation: length fast/slow
MEA	Specifically, Maximum Extinction Angle (degrees) in the Michel-Levy test for plagioclase composition. Where available, a minimum of 6 suitable grains is used. MEA is also used of EA in other minerals. In the case of intermediate-calcic plagioclase, note that the M-L test often gives results which are rather more sodic than the the actual composition, as determined by either the Carslbad-Albite (C-A) test or by EPM (a point seldom noted in discussion, an (unpublished) exception being Finn, 1981). If both are available, a C-A determination is generally preferred to a M-L value. A similar situation applied for albite and oligoclase below An20, where unless a perfectly oriented section is found the estimate is liable to be rather too calcic. This is unlikely to prove a serious obstacle in interpretation, even though in one instance plag estimated at An8 (M-L test) and An5 (C-A test) was found by EPM to be An1, nearly pure albite.
PH	polishing hardness; see Uytenbogaardt and Burke (1971, pp.17-21)
Pleo	pleochroism
PPL	plane polarized light
refl	reflectance
RI	refractive index
RL	reflected light
'RL'	obliquely-incident light, often used on CTS
ST	sensitive tint plate, for determination of orientation and of optical sign.
TL	transmitted light
XP	cross-polarized light; usually with exact alignment of polarizer and analyser. In RL one is sometimes rotated a few degrees in order to emphasise anisotropy / bireflectance. Some properties, such as pleochroism and relief, are described with respect to the orientation of the polarizer (the phrase 'vibration plane of the lower nicol' is equivalent to the polarizer).

Ore Microscopy:
For optical properties in reflected light see Craig and Vaughan (1981) or Spry and Gedlinske (1987), which each contain descriptions of about 100 opaque minerals. Properties such as scratch and polishing hardness, bireflectance and reflection pleochroism are also briefly discussed (Craig and Vaughan 1981, pp.36-43). Systematic descriptions of ore minerals are listed in, e.g., Uytenbogaardt and Burke (1971) and Ramdohr (1980).

Photomicrographs and Figures:

Colour	Photomicrographs are made by either a)using daylight-balanced colour film and a blue filter, or b)using film balanced for tungsten lighting, without a blue filter. Photos taken in RL may thus have bluish-grey backgrounds (method (a)) or brownish backgrounds (method (b), used in many of the earlier descriptions). Satisfactory intermediate colour renditions can also be achieved with daylight film, and no blue filter. Slide film is used for maximum flexibility, and for quality control; two or more exposures are made per subject due to high rejection rates.
FOV	field of view in mm (long axis of photo); the primary scale indicator, as magnification (for a given FOV) is dependent on equipment used. FOV is approximate; prints often show only 95% of so of the FOV on the original transparency. The quoted FOV may sometimes be reduced from that of the original by extra enlargement and/or cropping of the print.

Sample Format:

CTS	covered thin section, nominal thickness 30um.
(D)PTS(C)	(doubly-) polished thin section (C=>circular, in 25mm dia. form for microprobe work; some rectangular PTS are also microprobe-compatible). Suitable for reflected light study. For the purpose of high-current ion beam analysis, only, such glass-backed mounts may be made up with a thickness of about 500um or more; 'ThPTS(C)'.
PM	polished mount, for reflected light microscopy, also microprobe-compatible unless qualified. Generally circular in form, and 10mm or so thick.
Thickness	gauged by quartz interference colour in quartzose sections. Excludes the slide margins, which commonly taper somewhat.

Sections (meaning in this case the glass backing slide) are approx 1mm thick; normal CTS and PTS are 46x27mm in plan. Large sections (75x50mm) can be especially useful for structural geology, often with oriented samples. In the case of PM ('ore mounts') it is probably better to prepare smaller mounts than the older samples commonly found in teaching and museum collections. While some of these, e.g. 30mm wide and 18mm deep, may fit into electron microscope sample chambers, maximum compatibility with microprobe systems is achieved with circular mounts 25mm wide and somewhat shallower, say 10mm

thick. Most of the volume is commonly the epoxy mounting medium; the actual sample can be a few sub-mm grains, mm-scale flakes or drill chips, or a slice of ore upto 25mm wide and a few mm thick.

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APPENDIX II

ROCK SAMPLE DESCRIPTIONS

AURUM GEOLOGICAL CONSULTANTS INC. ROCK SAMPLE LOCATION AND DESCRIPTION

Date: SEPT. 1988 Property: Rum/Rye NTS: 115 P/14 Samplers: SR & BH Area: Clear Creek, Y.T.

Sample No.	Location	Description	Attitude	Width	Analytical results Au ppb	Ag ppm	As ppm
8-424000	Roadside	Rusty weathered, Mn stained quartzite biotite schist, locally up to 1% f.g. pyrite stringers parallel to foliation		float	17	0.1	60
8-424001	Roadside	Quartz Monzonite, porphyritic, 20% cm scale feldspar pheno's rusty weathering fresh hbl, altered to biotite		float	47	0.1	260
8-424002	Roadside	Mafic metasediment-greywacke-dirty quartzite, locally up to 1% po, biotite		float	33	0.1	1000
8-424003	Roadside	Similar to 8-424000, gossanous, Mn stained metasediment, 0.5% fine grained wisps of pyrite parallel to foliation		float	10	0.3	55
8-424004	BL 32+00E 37+00N	Quartzite with abundant quartz veins (cm scale), sucrosic, < 1% Apy.		float	57	0.2	800
8-424005	BL 32+00E 36+50N	Quartz vein within quartzite, cm scale < 1% Apy concentrated on fracture planes		float	91	0.2	620
8-424006	BL 32+20N 32+25E	Breccia; angular quartzite and quartz fragments (mm and cm size) within a limonitic clay matrix, porous-not well cemented, trace Apy. Next to creek, poss. fault.		float	46	0.9	260
8-424007	BL 32+10N 31+60E	Dirty quartzite / greywacke, limonitic and Mn stained, sucrosic texture, up to 1% Apy, minor Py conc. on fracture planes.		float	1390	0.4	1000
8-414008	L 33+00N 34+00E	Otc. Relatively fresh quartzite with sucrosic texture, muscovite partings. Breccia on Southern side of Otc.	Jting 185/73E 060/48N	O/C grab	18	0.2	1000
8-424009	L 33+00N 34+00E	Breccia. Limonitic and Mn rich cement.		float	121	1.2	250
8-424010	30+50N 29+00E	Cm scale white sucrosic quartz vein within metaseds. Trace Py.		float	14	0.2	98
8-424011	Along lineament. 80m NE of trench	Metasediment - greywacke / dirty quartzite (very dense and competent). <1% fine disseminated Apy.		float	12	1.2	390

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Sample No.	Location	Description	Attitude	Width	Analytical results Au ppb	Ag ppm	As ppm
B-424012	Next to BL 32+00E North of road	Dirty quartzite / greywacke (silicified) with limonitic patches and abundant cm and mm scale stringers. Locally up to 2% Apy.		float	404	0.6	1000
B-424013	North part of Pukelman grid (BL).	Limonitic quartzite, rusty - buff on fresh surface, stringers of limonite, abundant mm scale quartz stringers. Trace sulphides - rusted out, sucrosic texture - hornfels		float	62	1.6	240
B-424014	North part of Pukelman grid BL	Same as above. Only, <0.5% Apy mm scale needles conc. on fracture surfaces.		float	24	0.2	380
B-424015	300m N of BL 32+00E 46+00N	Rusty weathered quartz monzonite. Up to 2% fine Apy needles conc. on fractures. In contact with a mafic dyke (hornblende to biotite).		float	1130	1.6	1000
B-424016	44+00N 34+00E	Quartz arsenopyrite vein near intrusive-metasediment contact. Whitish grey quartz with up to 2% Apy conc. along selvages.		float	1675	17.9	1000
B-424017	West of switchback	Quartzite-hornfels with strong limonitic staining - 1cm rusty rind, Mn staining sucrosic, and trace Py.		float	129	1.1	600
B-424018	West of switchback	Limonitic and Mn stained greywacke (dirty quartzite), dense with up to 2% fine grained Po, minor Apy		float	20	0.1	200
B-424019	100m west of trench on South side of road	Sucrosic, white quartz vein (6cm wide) with trace sulphides and rusty patches found in a package of metasediments.		float	12	0.8	50
B-424020	Float from trenches N of road	Laminated quartzite with white to grey quartz veining, 0.5% Apy		float	42	0.3	900
B-424021	Rhosgobel stock near soil anomalies	White bull quartz vein at least 5cm wide, vuggy with minor Py. Appears in contact with metasediments		float	1141	3.3	100

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Sample No.	Location	Description	Attitude	Width	Analytical results Au ppb	Ag ppm	As ppm
B-424022	Rhosgobel stock near west claim boundary	Quartz monzonite with amphibole altered to biotite (5 - 10%). Cm scale euhedral to subhedral feldspar phenocrysts. Salt and pepper on fresh, rusty patches with trace Py.	float		57	0.2	20
B-424023	Rhosgobel stock near west claim boundary	Rusty weathered Quartz monzonite. Amphiboles altered to biotite, minor muscovite, abundant cm scale quartz veins minor radiating black needles (tourmaline)	float		124	2.6	65
B-424024	Rhosgobel stock near west claim boundary	Quartz vein, cm scale, bull quartz with rusty fracture planes	float		168	0.2	15
B-424025	200m west of BL 32E, 46+00N	Gossanous metasediment - quartzite. Plag. altered to light green sericite, Pitted rusty patches, trace Py, bleached appearance and sucrosic texture	float		130	12	300
B-424026	West side of slope (hill) N of road. 0.386oz/t Au	Extremely limonitic, up to 1cm altered rind, quartzite to biotite schist. Trace sulphides	float		177	1	45
B-424027	Traverse to Gossan. N of road	Metasediment with abundant, cm scale, white sucrosic quartz veins. Quartz has rusty weathered fracture planes with trace sulphides and fine dk brown xls (cassiderite ?). Biotite and muscovite schist	float		9	0.3	34
B-424028	Traverse to gossan. N of road	Limonitic and Mn stained breccia , mm and cm scale bleached quartzite fragments . Quartz frags. are extremely porous, poorly cemented and are angular to subrounded.	float		43	0.2	800
B-424029	50m SW up-slope from gossanous gulley	Gossanous metasediment, dirty quartzite, minor mm scale quartz eyes, <0.5% sulphides noted	float		14	0.3	15

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Sample No.	Location	Description	Attitude	Width	Analytical results Au ppb	Ag ppm	As ppm
B-424030	Float above gossan	Altered quartz monzonite / breccia at metasediment / intrusive contact. It is an extremly limonitic altered unit ressembles B-424028, only frags. are more rounded. Narrow unit, 0.5m wide, with a HMC taken below.		float	41	0.5	1000
B-414031	O/C above gossan	Quartzite with rusty weathered rind and <0.5% Apy conc. along fractures	Jnting 112/78N 022/72E	grab	8	0.2	87
B-414032	O/C on Josie. Ck.	Quartzite with minor interbedded biotite schist, 0.5cm wide rusty rind and sericitic layers	Fol. 074/32W Jnting. 062/70W	grab	10	0.1	47
B-414033	O/C on Josie. Ck	Rusty metasediment with mm scale greyish white quartz stringers. 1% Apy conc. along foliaton planes and cross cutting fractures. Chlorite along quartz vein selvages	Fol. 080/08N	grab	13	0.1	49
B-414034	O/C on Josie. Ck.	Quartz veining, mm scale within phyllitic (weakly graphitic) metasediments. Silicified with 1-2% Po and Py conc. along foliation planes	Fol. 064/25NE Jnting. 156/80W	grab	6	0.2	12
B-414035	O/C on Josie. Ck.	Silicified metasediment/greywacke. Relatively massive, fine grained with up to 4% fine grained Po and minor Py in blebs and stringers. Limonitic stains on foliation planes		grab	9	0.1	19
B-414036	O/C on Josie. Ck.	Gossanous metasediment O/C. Breccia with angular quartzite and quartz frags. Near Lamp. dyke (contact zone). Cemented with limonite,also Mn staining.	Fol. 070/26N Jnting. 103/83N 183/70S 088/88N 150/80N	grab	114	0.2	350
B-414037	O/C on Josie. Ck.	Quartzite, extremely limonitic, Mn staining on weathered surface. White sucrosic, quartz rich unit with rusty fractures containing Po and trace Apy (<1%)		grab	62	0.1	67

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Sample No.	Location	Description	Attitude	Width	Analytical results Au ppb	Ag ppm	As ppm
B-414038	O/C on Josie. Ck.	Bleached limonitic fine grained felsic intrusive with minor mm scale quartz eyes, argillic alteration (plag. to clay) and a pitted weathered surface.		grab	11	0.1	19
B-414039	O/C on Josie. Ck.	Limonitic, Mn stained quartzite (mudstone) partially brecciated - near intrusive / metased. contact.Also weakly silicified.		grab	32	0.2	190
B-424040	Galena Showing	Yellow - greenish weathered metased. (sericite schist) with local conc. of galena along fracture planes and 1% minor Apy		float	544	50 3.45 opt	1000
B-424041	Galena Showing	Mafic - intermediate dyke (Lamprophyre) with mm scale plag. and biotite xls in an aphanitic med. grey matrix. 5 - 10 % quartz.		float	24	3.3	520
B-424042	Galena Showing	Limonitic, Mn stained, sulphide rich metased. unit. Predominately Po and Py, and extremely weathered.		float	222	22.4	1000
B-424043	Galena Showing	Siliceous greywacke with extremely fine wisps of Po and Py along foliation planes.Next to limestone / skarn float.		float	13	0.9	140
B-424044	Galena Showing	Altered quartzite with yellow staining abundant mm scale Apy - scorodite veins, weakly calcareous.		float	606	50.0 3.84 opt	1000
B-424045	Galena Showing	Vuggy quartz vein with Apy conc. along selvages, locally up to 5% Apy, which is 10cm wide in metasediments		float	3719	13.9	1000
B-424046	31+70E 38+80N	10cm wide quartz vein with Apy, <0.5% , conc. along fracture planes.		float	10000 0.623 opt	24.9	1000
B-424047	32+10E 38+00N	Hornfels metasediment with limonitic weathering, mm scale sucrosic quartz veins, <0.5% Apy conc. along foliation planes		float	1982	6.7	1000
B-424048	32+30E 33+30N	10cm wide white quartz vein with rusty pitted patches, <0.5% Apy conc. along microfractures		float	10000 0.576 opt	3.4	1000

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Sample No.	Location	Description	Attitude	Width	Analytical results Au ppb	Ag ppm	As ppm
B-424049	32+30E 33+30N	Breccia - with limonitic, Mn and a yellowish staining (possibly altered Apy) scorodite		float	568	4.8	1000
B-424050	Near .12oz/t Au showing	Breccia - quartz and metased. cm to mm scale angular frags. in a Mn and Fe stained and altered matrix.		float	22	0.2	80
B-424051	Trenches N of road	Siliceous greywacke - fine grained, dense, competent unit with 1% fine grained Py and Po		float	274	0.3	1000
B-424052	39+50N 33+80E	Quartz Monzonite with extreme weathered appearance, limonitic and Apy yellow veins and needles with <0.5% Apy.		float	2170	0.9	6290
B-424053	42+20N 34+20E	<0.5% Apy in a 5cm wide white glassy quartz vein within quartzite metasediments		float	7270	1.3	426
B-424054	E of lines 37+00N 36+00E	Quartz Apy vein with light aqua - green weathering. Quartz is white, glassy with <1% Apy conc. along fracture surfaces		float	6370	3	9900
B-424055	E of lines 36+50N 38+00E	Dirty quartzite with fine, mm scale, quartz stringers and fine grained disseminated Apy, <1% , conc. on fracture planes. Spatially related to a felsic dyke.		float	489	0.3	3750
B-424056	E of lines 36+50N 38+00E	Subcrop of felsic quartz eye porphyry: mm scale quartz eyes and feldspars in a fine grained grey - buff matrix.<1% Apy occurs throughout.	Fol. 060/20N 065/38N 074/46N	float	90	0.4	327
B-424057	34+50N 35+40E	Quartz vein with 1% Apy (brecciated along selvages) within quartz eye porphyry rubble.Also abundant quartz boulders are nearby.		float	10000 0.545 opt	13.9	9710
B-424058	34+50N 35+40E	Quartz eye porphyry with 20% quartz eyes, minor feldspars and hornblende in fine med. grey matrix. Abundant mm to cm scale quartz stringers and 1% Apy throughout the rock (but conc. on frac. planes)		float	396	1.1	2440
B-424059	36+00N 34+60E	Fine grained Granodiorite with lt. grey weathering. <1% Apy throughout but conc. on frac. planes in large blebs, up to 1cm , asoc. with muscovite.		float	193	0.3	1450

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Sample No.	Location	Description	Attitude	Width	Analytical results Au ppb	Ag ppm	As ppm
B-414060	Josie. Ck. Apy - Qtz vein	10cm wide quartz Apy vein with up to 30% Apy conc. along selvages. White to grey glassy quartz vein within Qtz. Diorite (near sed. contact)	Fol. 105/65N	grab	2190	0.4	9800
B-414061	Josie. Ck. Qtz - Apy vein	Quartz Diorite with lt. grey weathering, mm scale phenocrysts in fine, grey matrix Up to 1% Po, minor Apy and abundant qtz. stringers (mm scale)	Jnting. 165/85N	grab	56	0.1	875
B-424062	Josie. Ck. Qtz - Apy vein	Greywacke / dirty quartzite with abundant quartz veins, highly deformed (folded, boudinaged) and up to 1% Po, minor Apy	Fol. 165/85N	float	9	0.1	180
B-424063	Far Side	Limonitic altered Quartz Diorite with bleached weathered rind , limonitic center, mm size quartz eyes, and weakly brecciated		float	13	0.1	1010
B-424064	Far Side	Hornfels metased. near qtz-diorite contact. Schistose - sericite and biotite interbedded with quartzite. Fine, mm scale qtz. stringers.		float	27	0.3	70
B-424065	Far Side	Hornfels metased. interbedded quartzite and biotite schist. Extreme limonitic staining (due to biotite alteration) and some mm scale qtz stringers		float	251	0.8	170
B-424066	Far Side	White glassy quartz vein, 10cm wide, with rusty frac. surfaces, muscovite clots in porous areas near selvages. Host rock is metased. between qtz-diorite.		float	5	0.1	17
B-414067	Josie. Ck.	Quartz vein up to 20cm wide in places cutting metasediments to the north and the intrusive/metased. contact to the south. Locally up to 7% Apy as blebs in the qtz. vein	Jnting. 124/84N	grab	86	0.1	493
B-414068	Josie. Ck.	Quartz vein, 20cm wide, locally up to 2% Po, trace Apy. Quartz is glassy and extremely rusted.		grab	17	0.1	110
B-414069	Josie. Ck.	Intermediate - felsic dyke with lt. green on weathered surfaces. Fine grained siliceous matrix with mm scale biotite, plagioclase, and quartz eyes.		grab	8	0.1	36

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Date: SEPT. 1988 Property: Rum/Rye NTS: 115 P/14 Samplers: SR & BH Area: Clear Creek, Y.T.

Sample No.	Location	Description	Attitude	Width	Analytical results Au ppb	Ag ppm	As ppm
B-424070	13+19E 40+00N	Altered quartz monzonite with siver telluride? , abundant microfractures and slickensides. Kaolinite and alunite altered plagioclase. Abundant mm scale quartz grains.	float		14	7.7	466
B-424071	42+90E 11+80N	Trace sulphides in a quartz vein, 20cm wide, with rusty fracture planes and glassy, crystalline texture. Host rock is a schistose metased. with abundant biotite, muscovite and quartz.	float		5	0.4	49
B-424072	43+40E 9+15N	Leucocratic massive, med. grained quartz monzonite - quartz diorite with mm scale, sub-anhedral feldspar phenocrysts,10% mafics, quartz stringers and v. fine grey disseminated sulphides (Apy). Limonitic weathering and (argillite) altered feldspars.	float		7	0.5	43
B-424073	40+40E 13+60N	Tourmalinized, argillic altered quartz monzonite. Rusty weathering, altered mm to cm scale feldspar in a siliceous quartz rich matrix. Cross-cutting vein stockwork of tourmaline & quartz. Apy <0.5% in vuggy quartz infillings	float		5	1.5	362
B-424074	39+60E 13+50N	Similar to B-424073 with more limonite and less tourmaline. Extreme argillic alteration. Euhedral mm scale py (4%) concentrated on frac. planes and in matrix	float		191	0.08	1890
B-424075	39+50E 13+60N	Tourmalinized altered brecciated metased. Abundant brecciated quartz. frags.(mm size) in tourmaline rich matrix. Trace Py, <0.05% Apy conc. on fractures. Staurolite noted in metaseds near contact.	float		118	2.1	14000
B-414076	Josie. Ck. Gossan Zone	5m wide lamprophyre dyke. Fine grained with mm scale plag. and biotite. Rock is massive and blocky with grey to rusty weathering color.	grab		24	0.8	120
B-414077	Josie. Ck. Gossan Zone	Extremely altered sample from lamprophyre rhyolite contact. Bleached buff white, limonitic, friable clay rich unit	grab		6	0.3	93
B-424078	35+05E 33+05N	Milky white, sucrosic qtz. vein with Apy (0.5%) conc. on fractures in a sericitic schist - quartzite float area	float		106	0.3	748

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Sample No.	Location	Description	Attitude	Width	Analytical results Au ppb	Ag ppm	As ppm
B-424079	34+10E 32+60N	Altered felsic intrusion, bleached to a buff white with altered plagioclase and siliceous matrix. Quartz stringers are cryptocrystalline.		float	17	0.2	87
B-424080	34+00N 38+25E	Qtz-Apy-scorodite vein, ~10 cm wide up to 5% blebby cm scale Apy, glassy white quartz in metasediments		float	604	1.1	1000
B-424081	34+00N 37+20E	White sucrosic quartz vein in sericite quartzite, cm scale ~1% euhedral mm scale disseminated pyrite.		float	123	0.6	740
B-424082	36+00N 38+00E	Brecciated quartz vein, cm scale, minor tourmaline in matrix, <1% euhedral mm scale Py, <.5% Apy		float	431	10.4	1000
B-424083	36+00N 36+50E	Quartz-Apy-scorodite vein, cm scale in metasediments. Locally 2% Apy.		float	2.37 opt	50.0	1000
B-424084	35+00N 35+85E	Brecciated quartz vein, cm scale near granodiorite metased contact. Apy concentrated along vein selvage in brecciated sections of vein.		float	5732	5.9	1000
B-424085	34+40N 35+20E	Qtz-Apy-Py vein, cm scale within siliceous metaquartzite float on top of metased o/c multiple phases of veining, sulphides conc. on selvages of latest vein .		float	3348	5.7	1000
B-414086	34+40N 35+35E	Quartz vein, white glassy quartz with minor Apy at vein selvage. Vein cuts quartzite/bi-ser-schist.	Vn 140/55N Fol. 90/32N	4.0 cm	598	0.7	350
B-424087	34+40N 35+50E	Cm scale vuggy quartz veins, vugs are concentrated at centre of veins. Apy is conc. at vein selvages.		float	0.628 opt	37.9	1000
B-414088	34+50N 35+50	Qtz-Apy vein in siliceous metaseds, minor euhedral Py,	VN. 120/55N	20 cm	251	1.4	1000
B-424089	31+90N 36+00E	Limonitic breccia in felsic volcanics, cm scale fragments near felsic volcanic metasdiment contact. next to 1434 ppb AU soil anomaly.		float	144	0.3	850
B-424090	35+60N 32+40E	Narrow mm to cm scale qtz-Apy veins in a sericitic metaquartzite. Locally up to 4% Apy , minor Apy in metasediments		float	1566	2.9	1000

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Sample No.	Location	Description	Attitude	Width	Analytical results Au ppb	Ag ppm	As ppm
B-424091	35+60N 32+40E	Quartz-Apy vein, glassy whitish grey quartz 2 small specks of visible gold associated with Apy along selvages and fractures.		float	1364	7.4	1000
B-424092	34+50N 33+60E	Argillic altered granodiorite-quartz eye porphyry, rusty weathering, plagioclase and matrix altered to clay		float	202	0.7	200
B-424093	33+00N 34+10E	Feldspathic quartzite, argillically altered, very siliceous, plag is completely altered to clay. Up to 2% Apy on fracture planes.		float	121	0.7	1000
B-424094	Saddle Zone	Fine grained black argillite-greywacke 1% f.g. Py in mm scale stringers and blebs. Minor Po. Very rusty weathering.		float	285	<0.1	75
B-424095	Saddle Zone	Fine grained quartzite, laminated, med. to dark grey. 5% f.g. blebs of pyrite, minor Apy disseminated and conc. on fractures.		float	252	0.3	290
B-414096	Saddle Zone	Massive to weakly foliated siliceous metased. f.g. quartzite with minor mm scale plag. grains. <1% Apy conc. on fractures.		grab	16	0.1	32
B-414097	Saddle Zone	Gossanous metagreywacke-bio-schist extremely limonitic weathered surface up to 5% f.g. Py, disseminated Apy, minor garnet and actinolite		grab	14	0.1	10
B-424098	Saddle Zone	Argillically altered qtz monzonite. mm scale plag pheno's completely altered to clay.		float	84	0.1	300
B-424099	Saddle Zone	Limonitic Qtz-monzonite, weak argillic alteration. Trace pyrite.		float	84	0.2	43
B-414100	Saddle Zone	Rusty weathered qtz vein in metaseds. No sulphides noted.	VN. 184/60W	8.0 cm	16	<0.1	7
B-424101	Saddle Zone	Extremely rusty qtz-monzonite, with mm scale qtz stockwork.		float	84	0.2	1000
B-424102	Saddle Zone	Cm scale bull quartz vein, white sucrosic, abundant float along edge of slope.			38	0.1	11
B-424103	TRENCH 34+00n 34+50E	Granodiorite qtz eye porphyry, fine grained very siliceous, probably margin of intrusion, ~1% f.g. disseminated Apy, minor Py.		grab	87	0.5	1000

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Sample No.	Location	Description	Attitude	Width	Analytical results Au ppb	Ag ppm	As ppm
8-424104	35+25N 36+60E	Altered granodiorite quartz eye porphyry, argillically altered feldspar, rusty weathering ~1% f.g. py, apy and scorodite staining.		float	112	1.2	220
8-424105	36+00N 40+50E	Bi-ser-schist/metagreywacke, very rusty weathering, 1% f.g. Py, 1% f.g.Po as fine stringers concentrated along foliation.		float	56	0.3	900
8-414106	37+60N 40+50E	Granodiorite qtz eye porphyry, < 0.5% f. g. Py-Apy		grab	389	0.5	100
8-424107	37+80N 40+50E	Qtz-Apy vein, cm scale in granodiorite near sed contact. Rusty gossanous area with locally up to 5% Apy & 1% Py.		float	4510	4.7	1000
8-424108	37+80N 40+50E	Weakly altered grdr, < 0.5% Apy & Py.		float	107	0.7	1000
8-414109	37+80N 40+50E	Rusty Mn stained metaseds, interbedded quartzite/bio-ser-schist, extremely limonitic on weathered surface, ~1% Apy-Py.		grab	150	0.7	1000
8424110	S. Fork Josie. Ck.	Extremely limonitic weathered gossanous metased, up to 2% f.g. sulphides, Py-Po.		float	72	0.2	470
8-424111	35+45N 36+80E	Qtz-Apy vein near granodiorite qtz eye porphyry/metased contact. Locally up to 4% blebby Apy. Intrusion is bleached and argillically altered		float	0.259 opt	8.9	1000
8-424112	35+20N 34+50E	2% Apy, 1% Py, 1% Po in quartzite and bio-schist	FOL. 65/27N 90/38N	float	202	0.6	1000
8-424113	number not used.						
8-414114	number not used.						
8-424115	Contact Zone	Rusty weathering quartz eye porphyry/ granodiorite	whole rock geochemistry				
8-414116	Puckleman Intrusion	Qtz-Monzonite	whole rock geochemistry				
8-424117	36+75N 40+50E	Qtz-tour-Apy vein, within metaseds up to 8% Apy as fracture fillings.		grab	414	0.6	1000
8-414118	TRENCH # 6	Dark grey quartz vein with disss. cubic Py and apy, within sericite schists		20 cm	0.449 opt	11.9	1000

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Sample No.	Location	Description	Attitude	Width	Analytical results Au ppb	Ag ppm	As ppm
B-421001	Along lineament near road	Apy in a small cm scale qtz. vein conformable with foliation in a highly siliceous, purplish quartzite.		grab	53	0.1	190
B-411001	N of BL at 46+00n	Oxidized pyrite cubes in a highly siliceous rusty colored quartzite		float	93	1.5	480
B-411002	N of BL at 46+00n	Insitu, highly oxidized quartz vein, 1 cm wide, in finely laminated metased.	Fol 102/50N	grab	29	0.5	550
B-421003	N of BL at 46+00n	Abundant Apy within matrix of felsic dyke. Py and Cpy? in trace amounts Apy to 5%, Py <0.5%		float	140	0.1	1000
B-421004	N of BL at 46+00n	Apy and Py in highly oxidized (rusty to yellowish) hornfels		float	666	0.3	1000
B-411005	NW of BL at 46+00N	Highly oxidized, light grey, fine grained massive quartzite, rusty along fractures		grab	2034	3.3	850
B-421006	36+00E 46+00N	Medium grained Apy and v.f. grained diss. Py along parallel fractures in a rusty quartz vein in dirty grey quartzite.		float	303	0.3	300
B-411007	40+50E 46+00N	Insitu, oxidized Qtz vn, 4-5 cm wide, in a siliceous grey-whitish grey fine grained quartzite	Fol 102/66N JT 180/72E 090/30N	4.0-5.0 cm	23	0.2	17
B-421008	West of Galena Showing	Highly oxidized, slightly brecciated massive qtz vn (5 cm), in a graphitic phyllite		5.0 cm	14	0.1	34
B-411009	West of Galena Showing	Insitu rusty qtz vn (8 cm), conformable with foliation of interbedded phyllite and quartzite. Qtz locally vuggy and limonitic		8.0 cm	6	0.1	21
B-421010	NW of BL at 45+00N	Trace f.g. Apy along conchoidal fractures in milky white quartz within a quartzite host. Apy <0.1%		float	51	0.1	546
B-421011	NE of BL at 46+00N	Character sample, light to med grey biotite rich lamprophyre		float	28	0.1	1140
B-421012	NE of BL at 46+00N	Trace f.g. Apy in matrix of oxidized felsic dyke (qtz monz). Apy <1%.		float	479	1.6	3820

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Sample No.	Location	Description	Attitude	Width	Analytical results Au ppb	Ag ppm	As ppm
B-411013	Saddle Traverse	F. g. Apy, <0.5%, locally along fractures in cm scale qtz vn, cross-cutting a sequence of phyllites and quartzites.		grab	2080	0.4	2850
B-421014	Saddle Traverse	Minor mm size Apy 1%, in matrix of a lamprophyre dyke. Phenocrysts of biotite and quartz. Matrix light grey, aphanitic		float	28	0.1	62
B-421015	East side Saddle	10 cm wide massive crystalline, locally vuggy quartz vein in a light grey, m.g. quartzite.		float	77	0.4	140
B-421016	Galena Showing	V.f.g. Py,, locally to 2%, along foliation and fracture planes in a dk. grey dirty quartzite		float	40	0.1	97
B-421017	Galena Showing	Silicified, finely laminated, med. grey fine grained greywacke with f. g. sulphides disseminated along foliation planes. Py up to 2%, trace galena.		float	25	0.9	364
B-421018	Galena Showing	Highly oxidized, dk. grey, med. grained dirty quartzite.		float	41	3.6	3420
B-421019	S of road W of grid	Po and Cp?, in a qtz vn conformable with foliation in a mod. silicified dirty quartzite. Po is coarse grained (1%), Cp is very f. g. and <0.5%.		float	21	0.2	140
B-421020	42+00E 14+00N RGE Grid	Extremely oxidized, vuggy, brecciated coarsely crystalline quartz. Locally limonite infills vugs and fractures.		float	105	2.1	1050
B-411021	O/C along Josie. Ck.	Argillically altered felsic dyke near intrusive/metased. contact. Trace f.g. Mn along fractures		grab	72	2.3	593
B-411022	South of 36+00E 39+00N	Apy, trace Py in siliceous, lt. grey quartzite near granodiorite dyke. F. g. sulphides along fracture planes.	Jt. 060/90 110/82N 050/78S	grab	32	1.9	363
B-411023	38+00N 41+00E	Insitu, highly siliceous sericite schist with a 3cm wide qtz vn. Minor Apy occurs along fractures and grain boundaries.	Fol. 090/40N Jt. 012/70E 286/62E 350/82W	grab	1295	5.5	353

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Sample No.	Location	Description	Attitude	Width	Analytical results Au ppb	Ag ppm	As ppm
8-421024	34+00N 42+00E	Very f. g. Py along foliation in a dk. grey dirty quartzite. Rock is rusty and moderately silicified, Py 1%.		float	250	0.6	1480
8-421025	35+00N 34+80E	Quartz vein, 3-5% Apy disseminated throughout but mainly at selvage, trace Py & Po <0.5%.		float	4.932 opt	3.24 opt	1000
8-421026	35+00N 35+00E	Quartz vein (>6cm) , vuggy & brecciated with Apy 10-12% and Py 1%. Apy occurs as blebs and blades to 2 cm and as disseminations. Py occurs as 1-3mm cubes.		float	1.037 opt	27.4	1000
8-411027	35+00N 35+50E	Granodiorite, highly jointed, massive, rusty weathering, siliceous, trace Apy.	Jt 350/88W 090/36N 020/60W 170/60E	grab	378	0.8	1000
8-411028	36+20N 36+60E	5-6m wide granodiorite dyke. Siliceous margin hosts Apy & Py 1-2%, sample in non mineralized central portion of dyke.	Jt. 360/88W 032/78N	grab	69	0.1	570
8-411029	36+20N 36+60E	Same as above but along western margin of dyke.		grab	182	0.5	1000
8-411030	36+50N 36+70E	Narrow, siliceous, med. gr. granodiorite dyke with 1% Apy and 0.5% Py conc. at margin and on fractures.	JT. 294/86S	grab	985	1.0	1000
8-411031	37+00N 38+20E	E/W trending, 2cm wide qtz vn with Apy up to 4%, (scorodite alt.) in biotite schist host rock.	Vn 098/86S FOL 280/40N JT. 190/58E	grab	5.673 opt	20.5	1000
8-411032	38+50N 39+00E	3.5 m wide N/S trending granodiorite dike with trace (<1%) Apy in groundmass.	360/90	grab	170	0.1	640
8-411033	42+00N 40+00E	Irregular quartz vein along foliation of bi-schist. Locally vein has fragments of wall rock. Biotite is chloritized, limonite on fractures.	Vn. 090/60N JT. 350/76E 040/90 092/42N	grab	183	0.1	190
8-411034	41+30N 40+00E	Rusty quartz vein, locally vuggy limonite.	VN. 086/30N	8.0 cm	16	<0.1	28

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8-421035	41+30N 41+50E	Siliceous quartzite with a 3cm wide vuggy quartz vein. Py & Apy to 5% along fractures. Py as mm scale cubes, Apy as fine blebs and blades 1cm long.		float	875	0.4	62
8-421036	45+25N 34+00E	Grey quartzite with Py cubes up to 1% along fractures and Apy <0.5% on frac. and along grain boundaries.		float	88	0.1	62
8-411037	45+25N 34+00E	Granodiorite quartz eye porphyry dyke (1m) within micaceous quartzite. Trace Apy in matrix and on fractures.	JT. 160/90 080/42S	grab	12	0.4	350
8-421038	along ridge to saddle zone	Rusty med. grey fine grained quartzite with fine disseminated sulphides		float	19	0.9	23
8-421039	along ridge to saddle zone	Apy 1-2% and Py 1% within aphanitic matrix of a granodiorite quartz eye porphyry. Apy occurs as mm scale blebs and Py as mm scale cubes.		grab	4290	0.5	1000
8-411040	Gossan Zone	Argillic altered, very rusty granodiorite with minor Apy and Py in the matrix.	JT. 092/88N 020?58E	grab	682	0.1	1000
8-411041	Gossan Zone	Grey quartzite/greywacke with Apy and Py along foliation and fracture planes Sulphides v.f.g. up to 1%.	Fol 090/24N	grab	52	0.1	50
8-411042	Josie Ck. Gossan	Quartz sweat/vein that pinches and swells up ,to 6 cm wide in metasediments. Minor Py &Po <1% and Apy to 1%.		grab	234		
8-411043	Josie Ck. Gossan	Strong argillic altered bleached white granodiorite. Easily weathered and crumbly. Same location as 8-461083, 8-451083.		grab	16		
8-421044	38+00N 34+80E	Small qtz vein, 6cm wide locally vuggy, with abundant disseminated Apy up to 10% and Py 7-8%.		grab	3330	8.5	1000
8-411045 to 8-411067	TRENCH # 6	See detailed map.					
8-411067 to 8-411083	TRENCH #5	See detailed map.					

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B-411084 to B-411085	TRENCH #6	See detailed map.					
B-411086 to B-411094	TRENCH #1	See detailed map					
B-411095	35+25N 34+60E	Limonite stained f.g. grey quartzite with <0.5 Apy.		grab	302	1	290
B-411096	35+25N 34+65E	Quartz vein, conformable with foliation of a siliceous quartzite. Apy up to 5% concentrated, along selvages.	FOL. 090/22N JT. 150/81W	grab	10000 0.323 opt	7.5	1000
B-421097	37+00N 33+75E	Highly oxidized, Mn stained white/light grey quartzite.		grab	113	0.3	620
B-411098	35+35N 32+80E	Fresh, light blue/grey med. grained granodiorite/ quartz eye porphyry with a trace of Apy ~1% diss. in martrix.	JT. 110/88W 044/74S	grab	68	0.2	150
B-421099	35+30N 32+80E	Granodiorite with a small cm scale Qtz/Apy vein. Apy is conc. on vein selvage		grab	1047	2.3	1000
B-422001	42+00E 6+90N	Altered qtz monzonite with limonite, calcite. Slightly brecciated with mm scale grey, cryptocrystalline quartz fragments. F. g. Py (<1%) and thin stringers of Mn.		float	15	0.3	49
B-425001	125 lineament E of galena Showing	Rusty, Mn stained float with minor sulphides, elevated quartz eyes and stringers of oxide material		float	27	0.3	150
B-425002	Josie. Ck.	Dacite ? dyke with weathered out phenocrysts locally infilled with sulphides.		float	10	1.0	180
B-425003	126 Lineament Near Bema .883 opt sample	Rusty, Mn stained quartz with no visible sulphides.		float	68	6.5	709
B-425004	As Above	Py, Apy mineralization in a fractured rusty quartz gouge. Slickensides cut by veinlets of Mn and small brecciated veins and sulphides.		float	401	6.5	762

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8-425005	As Above	Rusty brecciated material with minor sulphides		float	80	3.8	651
8-415006	Roadside	Pervasive Apy, Py, Po and scheelite along foliation planes in a rusty weathered dirty quartzite.		grab	1362	0.7	40
8-425007	Roadside Near Pukleman contact	Rusty Mn stained, multi-fractured altered (argillic) intrusive with minor pyrite.		float	29	9.2	1810
8-415008	Josie. Ck.	Unaltered, fresh, med. grained quartz diorite adjacent to quartz Apy vein.		1m chip	8	0.1	64
8-415009	Josie. Ck.	Quartz diorite chip above Apy vein.		1m chip	47	0.1	72
8-415010	Josie Ck.	Quiartz diorite chip above Apy vein.		1m chip	31	0.1	75
8-415011	Josie. Ck.	Quartz diorite. Chip sample above Qtz-Apy vein.		1m chip	38	0.1	228
8-425012	36+00N 42+75E	Quartz rich Mn and iron stained breccia.		float	24		
8-425013	southeast 8-425012	Dirty metasediments with a high >5% Py-Apy.		float	139		
8-425014	southeast 8-425012	Rusty breccia .		float	29		
8-415015	Tributary Josie Ck.	Chill zone of intrusion, qtz and bio rich, trace disseminated Apy.		grab	84		
8-415016	37+15N 40+65E	Quartz vein with ~10% Py-Apy.		10 cm	1.749 opt	43.7	1000

APPENDIX III

GEOCHEMICAL DATA

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BONDAR-CLEGG

Sample Preparation Procedures:

General Organization

Upon arrival the samples are assigned a unique lot number. They are then sorted and catalogued in alphanumeric order. This order is kept throughout the preparation, analytical and reporting process. Any discrepancies between the submittal form and the samples received are noted at this time.

Rock Crushing

The entire dried sample is put through a primary jaw crusher. This reduces the sample to 1/4" or finer. All of this material is then transferred to a cone crusher which reduces the sample to 10 mesh. The entire crushed sample is passed through a Jones riffle splitter repeatedly until a representative split of about 250 grams is obtained.

Pulverizing

A ring and puck grinder is used to reduce the sample to 150 mesh. Because this equipment breaks the sample down by impact rather than by shearing, there is less of a contamination problem than with a plate pulverizer and it is also easier to get a finer grind. These grinding heads are a hardened steel alloy with a high chrome content. Because this grinding head may cause some contamination (about .01% Cr and .05%Fe), we also have a ceramic grinding head which can be used in place of the chrome steel head to eliminate this source of contamination.

Contamination Prevention

Each crushing unit is cleaned out between samples using brushes and compressed air. In addition, a gravel with a low metal content is crushed using both the jaw and cone crushers to clean out these units between different lots. If high samples are indicated then gravel is run through the equipment between samples. Similarily, the grinding heads are cleaned between samples by brushing and blowing with compressed air. A cleaning sand (ie low metal content) is pulverized in each grinding head between different lots or between any high samples which are indicated. This eliminates the possibility of cross contamination between lots. However, there is still a possibility of a contamination train if high grade samples are not indicated and are submitted in the same batch as trace level samples.

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Procedure for Geochemical Gold Analysis:

A prepared sample of .10 to 30 grams is mixed with a flux which is composed mainly of lead oxide. The proportions of the flux components are adjusted depending on the nature of the sample. Silver is added to help collect the gold. The samples are fused at 1950 F until a clear melt is obtained. The lead button which also contains the precious metals is then separated from the slag. Heating in the cupellation furnace separates the lead from the noble metals. The precious metal beads that remain are transferred to test tubes and dissolved with aqua-regia. The solution is analyzed using Atomic Absorption or a Plasma Emission Spectrograph by comparing the readings of these solutions with readings of standard solutions.

Contamination Prevention

The test tubes and cupels are used only once so that there is no possibility of cross contamination. The fusion crucibles are cleared before re-use by discarding any which had high samples in them. During the analysis a blank solution is run between each sample to ensure that there is no carry-over.

Determination of Arsenic

The samples of 0.1 grams in weight are digested in test tubes with nitric and perchloric acids. These tubes are heated until strong fumes are given off. Reagants are then added to this solution to produce arsine gas which is collected in a pyridine solution. The colour that develops is compared to those of standards prepared at the same time.

Contamination Prevention

The test tubes are used for arsenic only and are discarded if they are high in arsenic. The glassware is cleaned with acetone before reusing. The samples are digested in a separate area to prevent contamination from other digestions. In addition the samples are analyzed as soon as the digestion is complete so that possible contamination is reduced.

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FIRE ASSAY PROCEDURE:

A prepared sample of one assay ton (29.166 grams) is mixed with a flux which is composed mainly of lead oxide. The proportions of the flux components (the litharge, soda, silica, borax glass, and flour) are adjusted depending upon the nature of the sample. Silver is added to help collect the gold. The samples are fused at 1950 F until a clear melt is obtained. The 30-40 gram lead button that is produced contains the precious metals. It is then separated from the slag. Heating in the cupellation furnace separates the lead from the noble metals. The normal-sized precious metal beads that are produced are transferred to test tubes and dissolved with aqua-regia. This solution is analyzed using Atomic Absorption by comparing the absorbance of these solutions with that of standard solutions. In the case of high grade samples, the precious metal bead is parted to separate the silver and the remaining gold is weighed.

COMMENTS:

As part of our routine quality control we run a duplicate analysis for about 15% of the samples. Also, all samples which are over 0.20 OPT on the original fusion are run again to verify the results. If a sample gives erratic results, such as 0.10, 0.020, 0.30, we will indicate this on the report. We suggest that a new split should be taken from the reject for preparation and analysis by our metallics sieve procedure. These assay results will always be signed by the registered assayer.

Determination of Elements by Atomic Absorption Analysis

The samples of 0.5 grams in weight are digested in test tubes with concentrated nitric and hydrochloric acids. These tubes are heated in hot water baths for two and one-half hours. The sample is then diluted and mixed. This solution is analyzed by atomic absorption using the appropriate lamp and wavelength for each element. The absorbance is recorded and compared to a standard series to determine the amount of the element that is present. This procedure is used for the analysis of silver, copper, lead, zinc, molybdenum, bismuth, cadmium, chromium, cobalt, iron, manganese, nickel, and vanadium. Some elements such as silver and lead have background correction applied to overcome matrix problems.

Contamination Prevention

The test tubes are used for atomic absorption analysis only. The test tubes are cleaned between uses with soap and deionized water rinses. If the sample results are high, the test tubes are discarded.

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Whole Rock Analysis - Plasma Spectroscopy

The sample is mixed with a borate flux and fused in order to break down the entire sample. The resulting bead is then dissolved with nitric acid and diluted. This solution is analyzed on the Plasma Emission Spectrograph by comparing the emissions to those of standards with a similar matrix. Duplicate samples and a wide range of standards are routinely weighed and carried through the entire procedure. As a further control all major elements are totalled and a re-analysis is done if this total is not acceptable.

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Geochemical Lab Report

REPORT: V88-03992.0 (COMPLETE)

REFERENCE INFO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.

SUBMITTED BY: S.D. ROBINSON

PROJECT: 1400

DATE PRINTED: 13-JUL-88

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au 30g	Gold 30 grams	521	5 PPB	FIRE-ASSAY	Fire Assay AA
2	Au/wt	Sample weight/grams	60	0.1 G		
3	Au/wt	-20 Au Sample Weight	1	0.1 G		
4	Ag	Silver	516	0.1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption
5	As	Arsenic	516	2 PPM	NITRIC PERCHLOR DIG	Colourimetric

SAMPLE TYPES	NUMBER
S SOILS	454
R ROCK OR BED ROCK	62
C CONCENTRATE (PAN/HM)	5

SIZE FRACTIONS	NUMBER
1 -80	454
2 -150	67

SAMPLE PREPARATIONS	NUMBER
DRY, SIEVE -80	454
CRUSH,PULVERIZE -150	62
PULVERIZING	5
FAX CHARGE	2

REMARKS: ASSAY OF HIGH Ag AND Au TO FOLLOW ON
V88-03992.6
ERRATIC GOLD RESULTS NOTED:
L37N 31+50E REPEAT = 571 PPB Au
L38N 35+50E REPEAT = 1784 PPB Au
L40N 34+00E REPEAT = 963 PPB Au

RECEIVED
JUL 14 1988

REPORT COPIES TO: AURUM GEOLOGICAL
S.D. ROBINSON

INVOICE TO: AURUM GEOLOGICAL

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Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Au/wt G	Ag PPM	As PPM
S1 8-461000		82			0.3	910
S1 8-461001		126			0.1	365
S1 8-461002		15			0.2	200
S1 8-461003		44			0.1	560
S1 8-461004		32			<0.1	700
S1 8-461005		35			0.2	400
S1 8-461006		24			0.1	65
S1 8-461007		59			0.1	275
S1 8-461008		42	26.0		4.2	>1000
S1 8-461009		18			3.0	660
S1 8-461010		75			5.2	>1000
S1 8-461011		25			3.4	780
S1 8-461012		37			1.4	500
S1 8-461013		24			0.8	490
S1 8-461014		12			0.5	250
S1 8-461015		27			0.6	265
S1 8-461016		83			2.0	>1000
S1 8-461017		26			3.2	>1000
S1 8-461019		85			2.5	>1000
S1 8-461020		43			4.5	>1000
S1 8-461021		44			3.4	>1000
S1 8-461022		28			0.4	180
S1 8-461023		68			0.1	780
S1 8-461024		32			0.1	670
S1 8-461025		23			0.1	460
S1 8-461026		23			0.1	580
S1 8-461027		35			0.1	900
S1 8-461028		84			0.1	1000
S1 8-461029		29			0.4	>1000
S1 8-462000		2525			0.8	>1000
S1 8-462001		386			0.3	480
S1 8-462002		50			0.2	315
S1 8-462003		42			0.3	800
S1 8-462004		34			0.2	690
S1 8-462005		41			0.2	250
S1 8-462006		45			0.1	285
S1 8-462007		29			0.1	140
S1 8-462008		120			<0.1	185
S1 8-462009		65			<0.1	500
S1 8-462010		60			0.1	350

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Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt. G	Au/wt. G	Ag PPM	As PPM
S1 8-462011		42			0.1	315
S1 8-462012		83			0.4	700
S1 8-462013		51			0.1	300
S1 8-462014		46			0.1	135
S1 8-462015		96			0.2	470
S1 8-462016		17			0.1	>1000
S1 8-462017		44			0.1	260
S1 8-462018		19			0.1	130
S1 8-462019		15			0.3	80
S1 8-462020		11			0.1	95
S1 8-462021		14			0.1	85
S1 8-462022		7			<0.1	80
S1 8-462023		105			0.3	780
S1 8-462024		88			0.1	590
S1 8-462025		571	25.0		0.7	>1000
S1 8-462026		115			0.1	>1000
S1 8-462027		213			0.3	>1000
S1 8-462028		199			0.9	>1000
S1 8-462029		314			0.9	>1000
S1 8-462030		9			0.3	820
S1 8-462035		71	25.0		0.3	78
S1 8-462036		15			0.8	185
S1 8-462037		17			0.2	280
S1 8-462038		10	15.0		0.5	68
S1 8-462039		21			0.5	260
S1 8-462040		10			0.3	150
S1 8-462041		15			0.2	330
S1 8-462042		20			0.5	210
S1 8-462043		11			0.1	76
S1 8-462044		11			0.3	100
S1 8-462045		11			0.3	120
S1 8-462046		6			0.1	58
S1 8-462047		7			0.4	78
S1 8-462048		7			0.5	80
S1 8-463000		41			0.3	390
S1 8-463001		17			0.1	390
S1 8-463002		52			0.3	19
S1 8-463003		120			0.6	95
S1 8-463004		117			0.7	100
S1 8-463005		556			0.1	380

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Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Au/wt G	Ag PPM	As PPM
S1 8-463006		407			0.1	375
S1 8-463007		144			<0.1	165
S1 8-463008		97			<0.1	110
S1 8-463009		245			<0.1	260
S1 8-463010		153			0.2	400
S1 8-463011		446			0.1	550
S1 8-463012		213			<0.1	370
S1 8-463013		115			0.2	265
S1 8-463014		131			0.1	190
S1 8-463015		137			0.1	135
S1 8-463016		245			0.1	80
S1 8-463017		104			<0.1	125
S1 8-463018		169			0.1	50
S1 8-463019		108			0.1	78
S1 8-463020		24			<0.1	200
S1 8-463021		51			<0.1	130
S1 8-463022		43			<0.1	300
S1 8-463023		18			0.1	85
S1 8-463024		14			0.1	70
S1 8-463025		27			<0.1	85
S1 8-463026		29			0.1	115
S1 8-463027		66			<0.1	380
S1 8-463028		24			0.1	270
S1 8-463029		83			<0.1	500
S1 8-463030		181			<0.1	420
S1 8-463031		47			0.1	325
S1 8-463032		67			<0.1	130
S1 8-463033		79			0.1	165
S1 8-463034		48			0.2	270
S1 8-463035		189			0.1	200
S1 8-463036		80			0.1	150
S1 8-463037		74			0.2	400
S1 8-463038		378			0.1	750
S1 8-463039		324			0.1	280
S1 8-463040		48			0.2	300
S1 8-463041		150			<0.1	200
S1 8-463042		23			<0.1	90
S1 8-463043		12			<0.1	265
S1 8-463044		58			4.6	>1000
S1 8-463045		49			4.1	>1000

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Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Au/wt G	Ag PPM	As PPM
S1 8-463046		26			2.4	600
S1 8-463047		20	15.0		1.7	440
S1 8-463048		18	20.0		3.5	650
S1 8-463049		24			3.4	800
S1 8-463050		14			4.3	450
S1 8-463051		16			0.4	900
S1 8-463052		47			1.0	>1000
S1 8-463053		68			5.2	>1000
S1 8-463054		36			4.3	>1000
S1 8-463055		62			10.6	>1000
S1 8-463056		54			5.8	>1000
S1 8-463057		132			8.9	>1000
S1 8-463058		11			13.7	>1000
S1 8-463059		51			1.4	900
S1 8-463060		45			1.0	620
S1 8-463061		47			0.5	390
S1 8-463062		19	25.0		0.9	410
S1 8-463063		25			0.8	380
S1 8-463064		28			0.4	240
S1 8-463065		12			0.4	115
S1 8-463066		27			0.4	225
S1 8-463067		9			0.1	52
S1 8-463068		9			0.1	49
S1 8-463069		10			0.1	245
S1 8-463070		11			0.3	185
S1 8-463071		6			0.2	40
S1 8-464000		616			0.5	>1000
S1 L30N 30+00E		11	25.0		0.1	19
S1 L30N 30+50E		14			0.2	230
S1 L30N 31+00E		14			0.1	85
S1 L30N 31+50E		12			0.1	50
S1 L30N 32+00E		24	28.0		0.1	80
S1 L30N 32+50E		70			0.1	130
S1 L30N 33+00E		39			0.1	150
S1 L30N 33+50E		45			0.1	230
S1 L30N 34+00E		32			0.1	220
S1 L30N 34+50E		33			0.3	210
S1 L30N 35+00E		69			0.4	135
S1 L30N 35+50E		191			0.3	175
S1 L30N 36+00E		103			0.3	160

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Geochemical Lab Report

REPORT: V88-03992.0 PROJECT: 1400 PAGE 5

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Au/wt G	Ag PPM	As PPM
S1 L31N 30+00E		35			0.1	85
S1 L31N 30+50E		91			0.1	210
S1 L31N 31+00E		24			<0.1	57
S1 L31N 31+50E		12			<0.1	30
S1 L31N 32+00E		6			<0.1	30
S1 L31N 32+50E		12			0.1	50
S1 L31N 33+00E		19			<0.1	80
S1 L31N 33+50E		24			0.1	135
S1 L31N 34+00E		24			0.1	80
S1 L31N 34+50E		67			0.2	180
S1 L31N 35+00E		57			0.2	140
S1 L31N 35+50E		153			0.3	225
S1 L31N 36+00E		110			0.4	310
S1 L32N 30+00E		30	15.0		0.4	90
S1 L32N 30+50E		29			0.2	160
S1 L32N 31+00E		25			0.2	160
S1 L32N 31+50E		65	25.0		0.3	65
S1 L32N 32+50E		37			<0.1	110
S1 L32N 33+00E		51			<0.1	74
S1 L32N 33+50E		44			0.2	275
S1 L32N 34+00E		19			0.1	115
S1 L32N 34+50E		150			0.4	265
S1 L32N 35+00E		37			0.2	200
S1 L32N 35+50E		388			0.3	760
S1 L32N 36+00E		1434			0.7	280
S1 L33N 25+00E		9			0.3	53
S1 L33N 25+50E		28			3.8	140
S1 L33N 26+00E		40			6.9	165
S1 L33N 26+50E		34			0.4	200
S1 L33N 27+00E		49			0.2	130
S1 L33N 27+50E		43			0.3	130
S1 L33N 28+00E		30			0.3	100
S1 L33N 28+50E		21			0.2	80
S1 L33N 29+00E		27			0.2	90
S1 L33N 29+50E		31	25.0		0.1	120
S1 L33N 30+00E		43			0.2	125
S1 L33N 30+50E		35			0.1	100
S1 L33N 31+00E		75			0.5	215
S1 L33N 31+50E		146			0.7	600
S1 L33N 32+00E		268			0.8	>1000

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Geochemical Lab Report

REPORT: V88-03992.0 PROJECT: 1400 PAGE 6

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Au/wt G	Ag PPM	As PPM
S1 L33N 32+50E		450	25.0		1.1	750
S1 L33N 33+00E		92			0.2	140
S1 L33N 33+50E		1183			0.3	160
S1 L33N 34+50E		93			0.2	100
S1 L33N 35+00E		136			0.4	500
S1 L33N 35+50E		156			0.2	180
S1 L33N 36+00		370			0.4	>1000
S1 L34N 25+00E		62			0.3	305
S1 L34N 25+50E		56			0.1	135
S1 L34N 26+00E		13			0.1	40
S1 L34N 26+50E		9			<0.1	48
S1 L34N 27+50E		39	28.0		0.5	28
S1 L34N 28+00E		20			0.2	290
S1 L34N 28+50E		52			0.3	600
S1 L34N 29+00E		79			0.4	1000
S1 L34N 29+50E		778			0.6	720
S1 L34N 30+00E		366			0.1	550
S1 L34N 30+50E		144			0.4	700
S1 L34N 31+00E		43			0.2	500
S1 L34N 31+50E		748			0.4	800
S1 L34N 32+00E		191			0.7	710
S1 L34N 32+50E		575			0.9	>1000
S1 L34N 33+00E		500	28.0		1.2	>1000
S1 L34N 33+50E		658			0.9	>1000
S1 L34N 34+00E		630			0.6	>1000
S1 L34N 34+50E		2002			0.6	>1000
S1 L34N 35+50E		428			0.3	900
S1 L34N 36+00E		1145	25.0		0.3	1000
S1 L35N 25+00E		77			0.4	600
S1 L35N 25+50E		35	28.0		0.2	720
S1 L35N 26+00E		168	27.0		0.1	110
S1 L35N 26+50E		18	25.0		0.1	200
S1 L35N 27+00E		24	15.0		0.3	75
S1 L35N 27+50E		44			0.3	290
S1 L35N 28+00E		39			0.1	590
S1 L35N 28+50E		57			0.1	1000
S1 L35N 29+00E		69			0.3	650
S1 L35N 29+50E		122	27.0		0.9	>1000
S1 L35N 30+00E		122			0.7	>1000
S1 L35N 30+50E		200	28.0		0.2	>1000

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SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Au/wt G	Ag PPM	As PPM
S1 L35N 31+00E		250			0.9	>1000
S1 L35N 31+50E		142			0.6	850
S1 L35N 32+00E		552	15.0		0.7	>1000
S1 L35N 32+50E		531			0.3	780
S1 L35N 33+00E		452			1.3	>1000
S1 L35N 33+50E		683			0.5	>1000
S1 L35N 34+00E		387			0.7	>1000
S1 L35N 34+50E		670			1.1	>1000
S1 L35N 35+00E		429			0.6	>1000
S1 L35N 35+50E		373			0.3	>1000
S1 L35N 36+00E		376			0.7	>1000
S1 L36N 25+00E		295			0.5	800
S1 L36N 25+50E		88			0.3	1000
S1 L36N 26+00E		294			0.1	550
S1 L36N 26+50E		35			0.1	500
S1 L36N 27+00E		91			0.7	1000
S1 L36N 27+50E		140			0.3	900
S1 L36N 28+00E		45	28.0		0.2	750
S1 L36N 29+00E		114	28.0		0.2	900
S1 L36N 29+50E		398			0.9	>1000
S1 L36N 30+00E		42	20.0		0.6	300
S1 L36N 30+50E		60	25.0		0.2	400
S1 L36N 31+00E		454	25.0		0.3	720
S1 L36N 31+50E		96			0.1	280
S1 L36N 32+00E		206			<0.1	550
S1 L36N 32+50E		149			0.1	450
S1 L36N 33+00E		570			0.2	>1000
S1 L36N 33+50E		132			<0.1	300
S1 L36N 34+00E		154			0.2	>1000
S1 L36N 34+50E		73			0.2	650
S1 L36N 35+00E		11			<0.1	55
S1 L36N 35+50E		29			<0.1	140
S1 L37N 25+00E		32			0.1	400
S1 L37N 25+50E		73	25.0		0.5	>1000
S1 L37N 26+00E		75			0.2	800
S1 L37N 26+50E		86			0.2	>1000
S1 L37N 27+00E		242			0.9	>1000
S1 L37N 27+50E		117			0.5	1000
S1 L37N 28+50E		131	28.0		0.3	550
S1 L37N 29+00E		61			<0.1	450

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SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Au/wt G	Ag PPM	As PPM
S1 L37N 29+50E		162			0.2	550
S1 L37N 30+00E		108	15.0		0.2	500
S1 L37N 30+50E		890			0.2	700
S1 L37N 31+00E		328			0.1	800
S1 L37N 31+50E		397			0.3	1000
S1 L37N 32+00E		95			0.1	400
S1 L37N 32+50E		387			0.2	750
S1 L37N 33+00E		164			0.1	750
S1 L37N 33+50E		225	28.0		0.4	>1000
S1 L37N 34+00E		143			0.1	900
S1 L37N 34+50E		93			<0.1	250
S1 L37N 35+00E		520			0.4	>1000
S1 L37N 35+50E		287	28.0		0.2	850
S1 L37N 36+00E		1548			0.5	>1000
S1 L38N 32+00E		173			0.1	1000
S1 L38N 32+50E		140	28.0		0.1	780
S1 L38N 33+00E		303			0.1	610
S1 L38N 33+50E		146			0.1	700
S1 L38N 34+00E		490			0.1	920
S1 L38N 34+50E		437			<0.1	660
S1 L38N 35+00E		1179			0.4	>1000
S1 L38N 35+50E		1082			0.3	>1000
S1 L38N 36+50E		737			0.2	>1000
S1 L38N 37+00E		937			0.6	>1000
S1 L38N 37+50E		457			0.4	>1000
S1 L38N 38+00E		983			0.2	>1000
S1 L39N 32+00E		122			0.1	350
S1 L39N 32+50E		142			0.1	1000
S1 L39N 33+50E		281			0.1	700
S1 L39N 34+00E		323			0.5	>1000
S1 L39N 34+50E		180			0.1	355
S1 L39N 35+00E		673			0.4	>1000
S1 L39N 35+50E		1099			0.2	>1000
S1 L39N 37+00E		830			0.4	>1000
S1 L39N 37+50E		675			0.6	>1000
S1 L39N 38+00E		633			0.6	>1000
S1 L39N 38+50E		805			0.5	>1000
S1 L39N 39+00E		721			0.4	>1000
S1 L39N 39+50E		430			0.4	>1000
S1 L39N 40+00E		370			0.6	950

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SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Au/wt G	Ag PPM	As PPM
S1 L40N 32+00W		48			0.1	325
S1 L40N 32+50E		98			0.1	550
S1 L40N 33+00W		411			<0.1	280
S1 L40N 33+50E		561			0.2	850
S1 L40N 34+00W		628			0.2	600
S1 L40N 34+50E		788			0.4	950
S1 L40N 35+00W		758			0.5	>1000
S1 L40N 35+50E		811			0.5	>1000
S1 L40N 36+50W		35			0.1	52
S1 L40N 37+00E		589			0.4	>1000
S1 L40N 38+00W		272	20.0		0.2	>1000
S1 L40N 38+50E		892			0.3	>1000
S1 L40N 40+00W		139			1.1	750
S1 L41N 32+00E		132			0.1	980
S1 L41N 32+50W		62	28.0		0.1	600
S1 L41N 33+00E		120			0.2	720
S1 L41N 33+50W		249			0.1	950
S1 L41N 34+00E		106			0.1	850
S1 L41N 34+50W		60			0.2	600
S1 L41N 35+00E		37			0.1	560
S1 L41N 35+50W		41			0.2	500
S1 L41N 36+00E		32	28.0		0.1	350
S1 L41N 36+50W		24			0.2	200
S1 L41N 37+00E		37			<0.1	210
S1 L41N 38+00W		121			0.1	265
S1 L41N 38+50E		83			0.2	190
S1 L41N 39+00W		204			0.8	700
S1 L41N 39+50E		240			1.8	>1000
S1 L41N 40+00W		31			0.2	950
S1 L42N 32+00E		77	25.0		0.5	>1000
S1 L42N 32+50W		57			0.2	900
S1 L42N 33+00E		62			0.1	700
S1 L42N 33+50W		55			0.2	700
S1 L42N 34+00E		41			0.1	550
S1 L42N 34+50W		24			0.1	290
S1 L42N 35+00E		29			0.2	>1000
S1 L42N 35+50W		37	25.0		0.1	285
S1 L42N 36+00E		22			0.1	350
S1 L42N 36+50W		18			0.1	290
S1 L42N 37+00E		24	25.0		<0.1	210

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SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Au/wt G	Ag PPM	As PPM
S1 L42N 37+50E		61			0.1	265
S1 L42N 38+00E		274			0.1	700
S1 L42N 38+50E		241			0.5	>1000
S1 L42N 39+00E		130	25.0		0.7	600
S1 L42N 39+50E		72			0.2	107
S1 L42N 40+00E		114			0.2	800
S1 L43N 32+00E		52	25.0		0.2	950
S1 L43N 32+50E		44			0.2	700
S1 L43N 33+00E		49			0.1	600
S1 L43N 33+50E		24	25.0		<0.1	900
S1 L43N 34+00E		31			0.1	900
S1 L43N 34+50E		54			0.2	350
S1 L43N 35+00E		24			0.1	200
S1 L43N 35+50E		14			<0.1	220
S1 L43N 36+00E		22	25.0		<0.1	195
S1 L43N 36+50E		15			<0.1	155
S1 L43N 37+00E		26			0.1	130
S1 L43N 37+50E		44			0.4	230
S1 L43N 38+00E		12	25.0		0.1	160
S1 L43N 38+50E		33			0.1	95
S1 L43N 39+00E		30			0.4	210
S1 L43N 39+50E		127			0.2	>1000
S1 L43N 40+00E		51			0.1	380
S1 L44N 32+00E		9			<0.1	80
S1 L44N 32+50E		19	25.0		0.1	155
S1 L44N 33+00E		286			0.5	>1000
S1 L44N 33+50E		20			0.1	260
S1 L44N 34+00E		97	25.0		0.4	>1000
S1 L44N 34+50E		113			0.9	>1000
S1 L44N 35+00E		70	25.0		0.5	420
S1 L44N 35+50E		140			0.1	550
S1 L44N 36+00E		55			0.2	155
S1 L44N 36+50E		91			<0.1	90
S1 L44N 37+00E		12	25.0		0.1	75
S1 L44N 37+50E		98			1.0	850
S1 L44N 38+00E		57			2.6	700
S1 L44N 38+50E		56			0.4	700
S1 L44N 39+00E		17			0.2	200
S1 L44N 39+50E		58			0.1	450
S1 L44N 40+00E		49			0.3	500

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SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Au/wt G	Ag PPM	As PPM
S1 L45N 32+00E		26			0.1	135
S1 L45N 32+50E		23			0.1	220
S1 L45N 33+00E		54	8.0	22.0	3.8	650
S1 L45N 33+50E		181			0.3	>1000
S1 L45N 34+00E		951			0.2	350
S1 L45N 34+50E		121			0.2	380
S1 L45N 35+00E		60			0.2	600
S1 L45N 35+50E		61			0.1	380
S1 L45N 36+00E		1089			0.1	480
S1 L45N 36+50E		219	28.0		0.8	540
S1 L45N 37+00E		146	29.0		<0.1	320
S1 L45N 37+50E		33	28.0		<0.1	105
S1 L45N 38+00E		221			0.1	330
S1 L45N 38+50E		185			0.1	500
S1 L45N 39+00E		79	29.0		0.2	350
S1 L45N 39+50E		43			0.1	200
S1 L45N 40+00E		47			0.1	210
S1 L45N 40+50E		52			0.1	510
S1 L45N 41+00E		58			0.2	325
S1 L46N 32+00E		49			<0.1	200
S1 L46N 32+50E		124	25.0		<0.1	450
S1 L46N 33+00E		68			<0.1	670
S1 L46N 33+50E		47			<0.1	700
S1 L46N 34+00E		162			0.3	>1000
S1 L46N 34+50E		113			0.1	580
S1 L46N 35+00E		673			0.7	>1000
S1 L46N 35+50E		394			0.2	400
S1 L46N 36+00E		388			0.2	500
S1 L46N 36+50E		456			0.1	570
S1 L46N 37+00E		185			0.3	500
S1 L46N 37+50E		51			0.1	140
S1 L46N 38+00E		65			<0.1	100
S1 L46N 38+50E		63			<0.1	255
S1 L46N 39+00E		15			0.2	120
S1 L46N 39+50E		27			<0.1	135
S1 L46N 40+00E		28			<0.1	125
S1 L46N 40+50E		39			0.1	300
S1 L46N 41+00E		32			<0.1	220
S1 BL32E 30+50N		89			0.1	235
S1 BL32E 31+50N		23			0.1	70

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SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Au/wt G	Ag PPM	As PPM
S1 BL32E 32+50N		20	27.0		0.1	50
S1 BL32E 33+50N		161			0.5	720
S1 BL32E 34+50N		434			0.6	900
S1 BL32E 35+50N		224			0.7	>1000
S1 BL32E 36+50N		104			0.1	390
S1 BL32E 37+50N		249			0.1	240
S1 BL32E 38+50N		162			<0.1	210
S1 BL32E 39+50N		437			<0.1	280
S1 BL32E 40+50N		50			0.3	700
S1 BL32E 41+50N		61			0.3	650
S1 BL32E 42+50N		15			<0.1	170
S1 BL32E 43+50N		41			0.1	750
S1 BL32E 44+50N		27			<0.1	50
S1 BL32E 45+50N		127			2.6	620
R2 8-411002		29			0.5	550
R2 8-411005		2034			3.3	850
R2 8-411007		23			0.2	17
R2 8-411009		6			0.1	21
R2 8-414006		18			0.2	>1000
R2 8-414031		8			0.2	87
R2 8-414032		10			0.1	47
R2 8-414033		13			<0.1	49
R2 8-414034		6			0.2	12
R2 8-414035		9			<0.1	19
R2 8-414038		11			0.1	19
R2 8-414039		32			0.2	190
R2 8-421000		53			<0.1	190
R2 8-421001		93			1.5	480
R2 8-421003		140			0.1	>1000
R2 8-421004		666			0.3	>1000
R2 8-421006		303			0.3	300
R2 8-421008		14			0.1	34
R2 8-424000		17			0.1	60
R2 8-424001		47			0.1	260
R2 8-424002		33			<0.1	>1000
R2 8-424003		10			0.3	55
R2 8-424004		57			0.2	800
R2 8-424005		91			0.2	620
R2 8-424006		46			0.9	260
R2 8-424007		1390			0.4	>1000

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SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Au/wt G	Ag PPM	As PPM
R2 8-424009		121			1.2	205
R2 8-424010		14			0.2	98
R2 8-424011		12			1.2	390
R2 8-424012		404			0.6	>1000
R2 8-424013		62			1.6	240
R2 8-424014		24			0.2	380
R2 8-424015		1130			1.6	>1000
R2 8-424016		1675			17.9	>1000
R2 8-424017		129			1.1	600
R2 8-424018		20			0.1	200
R2 8-424019		12			0.8	50
R2 8-424020		42			0.3	900
R2 8-424021		1141			3.3	100
R2 8-424022		57			0.2	20
R2 8-424023		124			2.6	65
R2 8-424024		168			0.2	15
R2 8-424025		130			12.0	300
R2 8-424026		177			1.0	45
R2 8-424027		9			0.3	34
R2 8-424028		43			0.2	800
R2 8-424029		14			0.3	15
R2 8-424030		41			0.5	>1000
R2 8-424036		114			0.2	350
R2 8-424040		544			>50.0	>1000
R2 8-424041		24			3.3	520
R2 8-424042		222			22.4	>1000
R2 8-424043		13			0.9	140
R2 8-424044		606			>50.0	>1000
R2 8-424045		3719			13.9	>1000
R2 8-424046		>10000			24.9	>1000
R2 8-424047		1982			6.7	>1000
R2 8-424048		>10000			3.4	>1000
R2 8-424049		568			4.8	>1000
R2 8-424050		22			0.2	80
R2 8-424051		274			0.3	>1000
R2 8-425001		27			0.3	150
C2 8-452025		1778				
C2 8-452031		1830	11.0			
C2 8-452032		123	29.0			
C2 8-452033		497	19.0			

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SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt. G	Au/wt G	Ag PPM	As PPM
C2 8-452034		287	29.0			

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM
S1 8461030		9	0.4	49	S1 8462057		56	0.2	218
S1 8461031		14	0.6	94	S1 8462058		22	0.1	190
S1 8461032		35	1.0	120	S1 8462059		30	0.6	530
S1 8461033		38	1.4	100	S1 8462060		10	<0.1	76
S1 8461034		39	1.4	60	S1 8462061		26	<0.1	376
S1 8461035		57	0.5	56	S1 8462062		13	0.1	100
S1 8461036		15	0.5	68	S1 8462063		12	0.9	120
S1 8461037		42	0.5	100	S1 8462064		26	0.4	150
S1 8461038		24	0.3	100	S1 8462065		32	0.5	45
S1 8461039		16	3.8	85	S1 8462066		13	1.5	100
S1 8461040		14	0.1	16	S1 8462067		19	2.2	130
S1 8461041		31	0.2	94	S1 8462068		44	0.8	140
S1 8461042		31	0.6	211	S1 8462069		86	3.0	351
S1 8461043		34	0.4	424	S1 8462070		14	0.3	35
S1 8461044		88	2.0	741	S1 8462071		32	0.9	100
S1 8461045		19	1.3	407	S1 8462072		25	2.0	130
S1 8461046		24	0.6	554	S1 8462073		18	0.7	88
S1 8461047		232	1.4	1220	S1 8462074		15	1.1	71
S1 8461048		47	0.5	694	S1 8462075		11	0.6	35
S1 8461049		41	0.3	259	S1 8462076		16	1.9	58
S1 8461050		20	0.3	200	S1 8462077		11	1.2	51
S1 8461051		38	0.3	180	S1 8462078		19	0.2	40
S1 8461052		31	0.1	110	S1 8462079		15	0.6	38
S1 8461053		32	0.1	93	S1 8462080		19	1.3	47
S1 8461054		20	0.1	110	S1 8462081		9	0.3	59
S1 8461055		18	0.2	238	S1 8462082		27	0.3	94
S1 8461056		78	0.3	643	S1 8462083		25	0.7	231
S1 8461057		78	0.3	251	S1 8462084		32	0.2	248
S1 8461058		34	0.3	376	S1 8462085		21	1.3	190
S1 8461059		129	0.4	293	S1 8462086		13	0.4	120
S1 8461060		21	0.2	36	S1 8462087		11	0.1	14
S1 8461061		28	0.2	29	S1 8462088		5	<0.1	15
S1 8462049		307	0.3	994	S1 8462089		9	0.1	120
S1 8462050		15	0.1	100	S1 8462090		16	0.1	110
S1 8462051		351	0.2	2210	S1 8462091		31	0.1	200
S1 8462052		156	<0.1	130	S1 8462092		23	0.2	45
S1 8462053		276	0.5	422	S1 8462093		55	0.1	140
S1 8462054		23	0.1	130	S1 8462094		66	0.4	99
S1 8462055		119	0.4	269	S1 8462095		28	0.1	130
S1 8462056		35	0.4	322	S1 8462096		29	0.1	180

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Geochemical Lab Report

REPORT: V88-04625.0 | PROJECT: 1400 | PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM
S1 8462097		11	0.4	59	S1 10N 3650E		124	4.3	40
S1 8462098		10	0.5	59	S1 10N 3700E		122	0.4	23
S1 8462099		18	0.1	120	S1 10N 3750E		265	1.2	47
S1 8462100		11	0.1	74	S1 10N 3800E		191	0.8	78
S1 8462101		48	0.4	461	S1 10N 3850E		92	0.6	110
S1 8462102		10	<0.1	72	S1 10N 3900E		77	0.8	110
S1 8462103		23	0.1	214	S1 10N 3950E		111	0.6	93
S1 8462104		34	0.1	236	S1 10N 4000E		30	0.2	59
S1 8462105		54	0.6	478	S1 10N 4050E		36	0.7	73
S1 8462106		28	0.3	98	S1 10N 4100E		16	0.4	140
S1 8462107		67	0.1	354	S1 10N 4150E		16	0.4	43
S1 8462108		70	0.3	180	S1 10N 4200E		33	<0.1	14
S1 8462109		27	0.2	190	S1 10N 4250E		9	0.1	15
S1 8462110		12	0.2	87	S1 10N 4300E		<5	0.2	32
S1 8462111		48	0.4	77	S1 10N 4350E		9	0.1	12
S1 8462162		44	0.4	18	S1 10N 4400E		10	0.2	15
S1 8463072		58	<0.1	327	S1 10N 4450E		22	0.1	22
S1 8463073		29	0.2	274	S1 11N 3500E		138	0.3	11
S1 8463074		33	<0.1	287	S1 11N 3550E		81	0.2	16
S1 8463075		28	0.1	470	S1 11N 3650E		166	1.7	25
S1 8463076		56	0.1	650	S1 11N 3700E		139	2.5	120
S1 8463077		77	0.1	558	S1 11N 3750E		388	1.1	52
S1 8463078		101	0.4	473	S1 11N 3800E		42	1.2	59
S1 8463079		55	0.1	590	S1 11N 3850E		48	0.4	31
S1 8463080		83	0.1	765	S1 11N 3900E		35	0.3	24
S1 8463081		51	0.3	964	S1 11N 3950E		26	0.3	34
S1 9N 4000E		359	0.6	79	S1 11N 4000E		13	1.0	83
S1 9N 4050E		72	0.3	74	S1 11N 4050E		23	0.5	41
S1 9N 4100E		43	0.2	269	S1 11N 4100E		23	0.1	25
S1 9N 4150E		31	0.2	41	S1 11N 4150E		7	<0.1	24
S1 9N 4200E		408	0.3	35	S1 11N 4200E		51	0.2	23
S1 9N 4250E		386	0.6	71	S1 11N 4250E		22	0.1	31
S1 9N 4300E		336	1.9	408	S1 11N 4300E		<5	0.1	9
S1 9N 4350E		41	0.2	73	S1 11N 4350E		28	0.3	72
S1 9N 4400E		10	0.1	44	S1 11N 4400E		6	0.2	22
S1 9N 4450E		40	0.3	49	S1 12N 3500E		26	0.4	59
S1 9N 4500E		17	<0.1	13	S1 12N 3550E		33	0.6	39
S1 10N 3500E		114	1.7	21	S1 12N 3600E		72	0.4	71
S1 10N 3550E		162	0.3	5	S1 12N 3650E		38	0.4	110
S1 10N 3600E		161	0.7	13	S1 12N 3700E		35	0.6	190

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM
S1 12N 3750E		27	0.4	110
S1 12N 3800E		19	0.8	652
S1 12N 3850E		21	0.4	210
S1 12N 3900E		23	0.2	150
S1 12N 3950E		60	0.3	140
S1 12N 4000E		25	1.1	479
S1 12N 4050E		27	0.5	235
S1 12N 4100E		36	0.7	320
S1 12N 4150E		44	1.0	415
S1 12N 4200E		22	0.2	170
S1 12N 4250E		14	0.2	36
S1 12N 4300E		11	0.5	79
S1 13N 3500E		215	0.3	20
S1 13N 3550E		49	0.3	66
S1 13N 3600E		84	1.1	200
S1 13N 3650E		37	1.4	371
S1 13N 3750E		27	1.2	58
S1 13N 3800E		14	0.2	28
S1 13N 3850E		11	0.8	70
S1 13N 3900E		23	0.5	94
S1 13N 3950E		17	0.7	68
S1 13N 4000E		12	0.9	47
S1 40E 9+50N		286	0.4	120
S1 40E 10+50N		14	0.3	22
S1 40E 11+50N		19	0.2	26
S1 40E 12+50N		10	0.2	51
R2 8411013		2080	0.4	2850
R2 8411016		40	0.1	97
R2 8411017		25	0.9	364
R2 8411018		41	3.6	3420
R2 8414037		62	<0.1	67
R2 8414060		2190	0.4	9800
R2 8414061		56	<0.1	875
R2 8414062		9	0.1	180
R2 8414067		86	0.1	493
R2 8414068		17	0.1	110
R2 8414069		8	<0.1	36
R2 8415006		1363	0.7	40
R2 8415008		8	0.1	64
R2 8415009		47	<0.1	72

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM
R2 8415010		31	<0.1	75
R2 8415011		38	<0.1	228
R2 8421010		51	0.1	546
R2 8421011		28	<0.1	1140
R2 8421012		479	1.6	3820
R2 8421014		28	<0.1	62
R2 8421015		77	0.4	140
R2 8421019		21	0.2	140
R2 8423002		20	<0.1	296
R2 8424052		2170	0.9	6290
R2 8424053		7270	1.3	426
R2 8424054		6370	3.0	9900
R2 8424055		489	0.3	3750
R2 8424056		90	0.4	327
R2 8424057		>10000	13.9	9710
R2 8424058		396	1.1	2440
R2 8424059		193	0.3	1450
R2 8424063		13	0.1	1010
R2 8424064		27	0.3	70
R2 8424065		251	0.8	170
R2 8424066		<5	0.1	17
R2 8425002		10	1.0	180
R2 8425003		68	1.6	709
R2 8425004		401	6.5	762
R2 8425005		80	3.8	651
R2 8425007		29	9.2	1810

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT
R2 8424057		0.545

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM
S1 8-461063		21	0.4	100
S1 8-461064		29	0.4	242
S1 8-461065		9	0.1	110
S1 8-461066		48	0.2	203
S1 8-461067		<5	0.2	33
S1 8-461068		<5	0.1	31
S1 8-461069		7	0.1	100
S1 8-461070		63	0.4	282
S1 8-461071		36	0.1	260
S1 8-461072		26	0.2	610
S1 8-461073		23	0.2	499
S1 8-461074		37	0.1	462
S1 8-461075		32	0.1	590
S1 8-461076		5	<0.1	150
S1 8-461077		<5	<0.1	39
S1 8-461078		21	<0.1	460
S1 8-461079		82	0.1	318
S1 8-461080		72	0.1	553
S1 8-461081		217	0.1	793
S1 8-461082		7	<0.1	48
S1 8-461083		27	0.1	76
S1 8-462112		77	0.1	28
S1 8-462113		54	0.2	28
S1 8-462114		<5	0.2	255
S1 8-462115		<5	0.1	78
S1 8-462116		6	0.1	72
S1 8-462117		11	<0.1	160
S1 8-462118		8	0.1	120
S1 8-462119		39	0.1	203
S1 8-462120		11	0.2	93
S1 8-462121		5	0.1	89
S1 8-462122		<5	<0.1	74
S1 8-462123		<5	<0.1	59
S1 8-462124		6	0.3	160
S1 8-462125		5	<0.1	78
S1 8-462126		<5	0.1	110
S1 8-462127		<5	<0.1	54
S1 8-464001		13	0.3	47
S1 B.L.40E 13+50E		42	0.9	494
S1 B.L.40E 14+50E		19	0.4	60

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM
S1 B.L.40E 15+50E		15	0.2	86
S1 L13N 4050E		<5	0.2	47
S1 L13N 4100E		17	0.2	70
S1 L13N 4150E		7	0.4	130
S1 L13N 4200E		6	<0.1	36
S1 L13N 4250E		6	<0.1	24
S1 L13N 4300E		10	0.2	66
S1 L14N 3450E		71	0.3	80
S1 L14N 3500E		17	0.4	58
S1 L14N 3550E		135	0.3	43
S1 L14N 3600E		45	0.2	110
S1 L14N 3650E		52	0.8	96
S1 L14N 3700E		19	1.3	120
S1 L14N 3750E		54	2.9	309
S1 L14N 3800E		43	2.5	170
S1 L14N 3850E		18	1.4	120
S1 L14N 3900E		22	1.8	130
S1 L14N 3950E		8	0.5	97
S1 L14N 4000E		52	0.5	95
S1 L14N 4050E		50	0.9	276
S1 L14N 4100E		8	0.5	41
S1 L14N 4150E		23	<0.1	31
S1 L14N 4200E		12	0.1	57
S1 L15N 3550E		20	1.6	160
S1 L15N 3600E		7	0.2	52
S1 L15N 3650E		16	0.5	78
S1 L15N 3700E		22	0.8	100
S1 L15N 3750E		31	0.5	67
S1 L15N 3800E		23	0.7	95
S1 L15N 3850E		17	2.0	180
S1 L15N 3900E		10	1.2	77
S1 L15N 3950E		7	0.8	71
S1 L15N 4000E		17	1.2	140
S1 L16N 3550E		38	0.2	83
S1 L16N 3600E		11	0.4	369
S1 L16N 3650E		10	0.4	293
S1 L16N 3700E		22	0.4	238
S1 L16N 3750E		18	0.4	413
S1 L16N 3850E		30	0.5	61
S1 L16N 3900E		69	1.0	340

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM
S1 L16N 3926E		16	0.4	91					
S1 L16N 4000E		21	0.2	57					
R2 8-242070		14	7.7	466					
R2 8-411021		72	2.3	593					
R2 8-411022		32	1.9	363					
R2 8-411023		1295	5.5	353					
R2 8-414076		24	0.8	120					
R2 8-414077		6	0.3	93					
R2 8-414079		17	0.2	87					
R2 8-421020		105	2.1	1050					
R2 8-421024		250	0.6	1480					
R2 8-422001		15	0.3	49					
R2 8-424071		<5	0.4	49					
R2 8-424072		7	0.5	43					
R2 8-424073		5	1.5	362					
R2 8-424074		191	0.8	1890					
R2 8-424075		118	2.1	14000					
R2 8-424078		106	0.3	748					
C2 8-451083		315	0.5	834					

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
R2 8-424040			3.45
R2 8-424044			3.84
R2 8-424046		0.623	
R2 8-424048		0.576	

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Geochemical Lab Report

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REPORT: V88-04625.1 (COMPLETE)

REFERENCE INFO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.

SUBMITTED BY: AL DOHERTY

PROJECT: 1400

DATE PRINTED: 15-AUG-88

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Bi	Bismuth	3	2 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
2	Co	Cobalt	3	1 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
3	Cr	Chromium	3	1 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
4	Cu	Copper	3	1 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
5	Mn	Manganese	3	1 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
6	Mo	Molybdenum	3	1 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
7	Ni	Nickel	3	1 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
8	Pb	Lead	3	5 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
9	Sb	Antimony	3	5 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
10	Se	Selenium	3	5 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
11	Tl	Thallium	3	1 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
12	W	Tungsten	3	10 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
13	Zn	Zinc	3	1 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
14	Hg	Mercury	3	5 PPB	HNO3-HCL HOT EXTR	Cold Vapour AA
15	Ba	Barium	3	20 PPM		X-RAY Fluorescence

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	3	2 -150	3	CRUSH,PULVERIZE -150	3

REPORT COPIES TO: AURUM GEOLOGICAL
MS. SALLY D. ROBINSON

INVOICE TO: AURUM GEOLOGICAL

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SAMPLE NUMBER	ELEMENT UNITS	Bi PPM	Co PPM	Cr PPM	Cu PPM	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM	Se PPM	Tl PPM
R2 8421015		<2	<1	180	9	31	1	5	18	<5	<5	1
R2 8424058		11	6	110	65	59	2	11	27	25	<5	1
R2 8425007		<2	2	59	105	2006	<1	<1	511	41	34	2

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SAMPLE NUMBER	ELEMENT UNITS	W PPM	Zn PPM	Hg PPB	Ba PPM
R2 8421015		<10	3	5	190
R2 8424058		12	21	50	1000
R2 8425007		<10	182	250	240

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SAMPLE NUMBER	ELEMENT UNITS	Bi PPM	Co PPM	Cr PPM	Cu PPM	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM	Se PPM	Tl PPM
R2 8-414038		<2	<1	27	8	46	4	2	46	<5	<5	<1
R2 8-424009		<2	<1	71	100	26	<1	<1	20	35	7	<1
R2 8-425001		<2	1	77	67	75	<1	2	21	9	10	2

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SAMPLE NUMBER	ELEMENT UNITS	W PPM	Zn PPM	Hg PPB	Ba PPM
R2 8-414038		<10	24	20	40
R2 8-424009		28	28	2800	160
R2 8-425001		<10	64	5	60

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Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Bi PPM	Co PPM	Cr PPM	Cu PPM	Mn PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM	Se PPM	Tl PPM
R2 8-411021		<2	1	88	41	43	3	1	137	<5	<5	1
R2 8-414077		<2	8	17	9	183	2	2	49	<5	<5	1
R2 8-421020		<2	<1	41	46	34	<1	<1	29	34	<5	<1
R2 8-422001		<2	2	29	10	777	<1	<1	53	<5	<5	<1

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SAMPLE NUMBER	ELEMENT UNITS	W PPM	Zn PPM	Hg PPB	Ba PPM
R2 8-411021		<10	20	60	140
R2 8-414077		<10	65	20	1000
R2 8-421020		<10	30	140	240
R2 8-422001		<10	69	30	750

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PAGE: 1 OF 1
COPY: 3 OF 3
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PROJECT: 1400

AUTHORITY: AL DOHERTY

AURUM CONSULTANTS INC.
HANGAR B
WHITEHORSE, YUKON

WORK ORDER: 52561-88

ATTN: AL DOHERTY

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	FIRE ASSAY AU PPB
29.15-30.15	136.0
30.15-31.0	62.0
31.0-32.0	130.0
32.0-33.0	620.0
33.0-34.0	79.0
34.0-35.0	101.0
35.0-36.0	109.0
36.0-37.2	656.0
37.22-38.0	228.0
38.0-39.0	190.0
39.0-40.0	231.0
40.0-41.0	128.0
41.0-42.0	340.0
42.0-43.0	65.0
43.0-44.0	344.0
44.0-45.0	8740.0

SIGNED: _____
C. Douglas Read,
LABORATORY MANAGER

ORIGINAL TO:
AURUM GEOLOGICAL CONSULTANTS
VANCOUVER, B.C. V6B 1N2

FOOTNOTES:
P=QUESTIONABLE PRECISION; *=INTERFERENCE; TR=TRACE; ND=NOT DETECTED;
IS=INSUFFICIENT SAMPLE; NA=NOT ANALYZED; MS=MISSING SAMPLE

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PAGE: 1 OF 3
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PROJECT: 1400

ATTENTION: ROBERT

AURUM CONSULTANTS LTD.
P.O. BOX 5179
HANGAR B
WHITEHORSE, YUKON

WORK ORDER: 12736 88
TYPE: A. ROBERTS
*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	FIRE ASSAY AU PPB
8411045	5.0
8411046	14.0
8411047	121.0
8411048	2.0
8411049	71.0
8411050	2.0
8411051	<2.0
8411052	<2.0
8411053	3.0
8411054	3.0
8411055	5.0
8411056	3.0
8411057	13.0
8411058	3.0
8411059	10.0
8411060	11.0
8411061	4.0
8411062	96.0
8411063	4.0
8411064	41.0
8411065	2.0
8411066	<2.0
8411067	2.0

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PROJECT: 1400

ATTN: J. ROBERTS

AURUM CONSULTANTS LTD.
P.O. BOX 5179
HANGAR B
WHITEHORSE, YUKON

ATTN: A. ROBERTS

WORK ORDER: 5273D-88
*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: DRILL CORE

SAMPLE NUMBER	FIRE ASSAY AU PPB
691	61.0
692	162.0
693	192.0
694	316.0
695	500.0
696	214.0
697	48.0
698	71.0
699	126.0
700	170.0
701	105.0
702	166.0
703	222.0
704	88.0
705	13.0
706	6.0
707	31.0
708	11.0
709	3.0
710	34.0
711	76.0
712	61.0
713	71.0
714	6.0
715	4.0
716	146.0
717	3.0
718	2.0
719	48.0
720	67.0

BARRINGER MAGENTA
Laboratories (Alberta) Ltd.
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PROJECT: 1400

ATTENTION: DOHERTY

AURUM CONSULTANTS LTD.
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HANGAR B
WHITEHORSE, YUKON

YOUR ORDER: 52730 88
*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: DRILL CORE

SAMPLE NUMBER	FIRE ASSAY AU PPB
721	68.0
722	48.0
723	70.0
724	86.0
725	1180.0
726	500.0
727	380.0
728	5000.0
729	481.0
730	103.0

SIGNED: _____
C. Douglas Read,
LABORATORY MANAGER

ORIGINAL TO:
AURUM GEOLOGICAL CONSULTANTS
VANCOUVER, B.C. V6B 1N2

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Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Ag PPM	As PPM	SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Ag PPM	As PPM
S1 L32N 36+25E		101	30.0	0.4	435	S1 L33N 39+75E		221	30.0	0.9	>1000
S1 L32N 36+50E		103	30.0	0.4	505	S1 L33N 40+00E		104	30.0	0.3	740
S1 L32N 37+00E		200	30.0	0.5	600	S1 L33N 40+25E		353	30.0	1.0	>1000
S1 L32N 37+25E		109	30.0	0.2	435	S1 L33N 40+50E		120	28.0	0.5	790
S1 L32N 37+50E		156	30.0	0.2	610	S1 L33N 40+75E		405	28.0	1.7	>1000
S1 L32N 37+75E		147	30.0	1.5	680	S1 L33N 41+00E		281	30.0	0.6	880
S1 L32N 38+00E		112	30.0	1.0	535	S1 L33N 41+50E		178	30.0	0.9	850
S1 L32N 38+25E		339	30.0	1.4	645	S1 L33N 41+75E		113	30.0	0.6	610
S1 L32N 38+50E		127	30.0	0.7	685	S1 L33N 42+00E		22	30.0	0.9	275
S1 L32N 38+75E		115	30.0	0.7	660	S1 L34N 29+25E		18	30.0	0.3	215
S1 L32N 39+25E		47	30.0	0.1	505	S1 L34N 29+75E		84	30.0	1.1	780
S1 L32N 39+50E		176	30.0	0.7	610	S1 L34N 30+25E		47	30.0	0.2	480
S1 L32N 39+75E		228	30.0	0.4	545	S1 L34N 30+75E		38	30.0	1.0	260
S1 L32N 40+25E		89	25.0	0.6	820	S1 L34N 31+25E		381	30.0	0.6	960
S1 L32N 40+50E		268	30.0	0.3	605	S1 L34N 31+75E		408	30.0	1.1	>1000
S1 L32N 40+75E		124	30.0	0.5	655	S1 L34N 32+25E		492	30.0	0.5	>1000
S1 L32N 41+00E		130	25.0	1.2	>1000	S1 L34N 32+75E		385	30.0	0.5	950
S1 L32N 41+25E		86	30.0	0.9	780	S1 L34N 33+25E		485	30.0	0.6	>1000
S1 L32N 41+50E		450	30.0	0.7	880	S1 L34N 33+75E		190	30.0	0.6	760
S1 L32N 41+75E		70	30.0	2.1	515	S1 L34N 34+25E		623	30.0	1.5	>1000
S1 L32N 42+00E		144	30.0	1.7	960	S1 L34N 34+75E		1247	30.0	1.0	>1000
S1 L33N 33+25E		483	30.0	0.2	140	S1 L34N 35+25E		1296	30.0	0.9	>1000
S1 L33N 33+75E		2273	30.0	0.9	245	S1 L34N 35+75E		406	30.0	0.6	970
S1 L33N 34+00E		646	30.0	0.6	405	S1 L34N 36+25E		660	28.0	0.8	>1000
S1 L33N 34+25E		56	30.0	0.3	195	S1 L34N 36+50E		235	30.0	2.0	>1000
S1 L33N 35+25E		415	30.0	0.7	625	S1 L34N 36+75E		327	30.0	0.4	900
S1 L33N 35+75E		244	30.0	0.5	610	S1 L34N 37+00E		430	30.0	0.3	>1000
S1 L33N 36+25E		790	30.0	0.3	880	S1 L34N 37+25E		519	30.0	0.2	>1000
S1 L33N 36+50E		336	30.0	0.9	>1000	S1 L34N 37+50E		874	30.0	0.8	>1000
S1 L33N 36+75E		293	30.0	0.7	>1000	S1 L34N 37+75E		609	30.0	0.5	>1000
S1 L33N 37+00E		279	30.0	1.0	>1000	S1 L34N 38+00E		186	30.0	0.5	>1000
S1 L33N 37+25E		670	30.0	1.0	>1000	S1 L34N 38+25E		108	30.0	0.3	890
S1 L33N 37+75E		856	30.0	0.6	>1000	S1 L34N 38+50E		145	26.0	0.3	>1000
S1 L33N 38+00E		453	30.0	0.7	>1000	S1 L34N 38+75E		262	30.0	0.1	760
S1 L33N 38+25E		740	30.0	0.5	900	S1 L34N 39+00E		101	25.0	0.3	>1000
S1 L33N 38+50E		178	30.0	0.6	>1000	S1 L34N 39+25E		243	28.0	0.6	>1000
S1 L33N 38+75E		236	30.0	0.5	820	S1 L34N 39+50E		326	15.0	0.6	>1000
S1 L33N 39+00E		153	30.0	0.4	690	S1 L34N 39+75E		884	30.0	0.9	>1000
S1 L33N 39+25E		646	30.0	0.7	790	S1 L34N 40+00E		332	30.0	0.8	>1000
S1 L33N 39+50E		831	26.0	0.5	820	S1 L34N 40+25E		98	30.0	0.6	>1000

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Geochemical Lab Report

REPORT: V88-05607.0 | PROJECT: 1400 |

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Ag PPM	As PPM
S1 L34N 40+50E		467	30.0	1.0	>1000
S1 L34N 40+75E		341	30.0	1.4	960
S1 L34N 41+00E		209	30.0	0.6	600
S1 L34N 41+25E		59	30.0	0.3	360
S1 L34N 41+50E		78	30.0	0.5	570
S1 L34N 41+75E		79	30.0	0.4	480
S1 L34N 42+00E		32	20.0	0.8	490
S1 L35N 32+25E		336	30.0	0.8	>1000
S1 L35N 32+75E		365	30.0	0.7	>1000
S1 L35N 33+25E		1027	30.0	0.4	>1000
S1 L35N 33+75E		633	30.0	0.9	>1000
S1 L35N 34+25E		563	30.0	1.2	>1000
S1 L35N 34+75E		824	30.0	0.7	>1000
S1 L35N 35+25E		221	30.0	0.3	960
S1 L35N 35+75E		173	30.0	0.5	950
S1 LN35N 35+75E		128	30.0	0.4	900
S1 LN35N 36+25E		311	30.0	1.6	930
S1 LN35N 36+50E		657	30.0	0.4	>1000
S1 LN35N 36+75E		376	30.0	0.4	>1000
S1 LN35N 37+00E		935	25.0	0.5	>1000
S1 LN35N 37+25E		255	30.0	0.7	>1000
S1 LN35N 37+50E		464	30.0	0.5	>1000
S1 LN35N 37+90E		664	30.0	0.6	>1000
S1 LN35N 38+25E		3357	30.0	1.1	>1000
S1 LN35N 38+50E		431	30.0	1.0	>1000
S1 LN35N 38+75E		689	30.0	1.3	>1000
S1 LN35N 39+00E		285	30.0	0.5	>1000
S1 LN35N 39+25E		62	30.0	0.1	600
S1 LN35N 39+50E		120	30.0	0.2	680
S1 LN35N 39+75E		677	30.0	0.8	>1000
S1 LN35N 40+00E		491	30.0	0.9	>1000
S1 LN35N 40+25E		321	30.0	0.4	820
S1 LN35N 40+50E		55	30.0	0.1	410
S1 LN35N 40+75E		292	30.0	0.3	>1000
S1 LN35N 41+00E		92	30.0	0.3	530
S1 LN35N 41+25E		90	30.0	0.3	700
S1 LN35N 41+50E		149	30.0	0.1	>1000
S1 LN35N 41+75E		105	30.0	0.3	930
S1 LN35N 42+00E		97	30.0	0.3	980
S1 L36N 30+25E		246	30.0	0.1	130
S1 L36N 30+75E		918	30.0	<0.1	415
S1 L36N 31+25E		460	30.0	0.2	540
S1 L36N 31+75E		334	30.0	0.1	450
S1 L36N 32+25E		1209	30.0	0.3	920
S1 L36N 32+75E		710	30.0	0.6	>1000
S1 L36N 33+25E		175	30.0	0.4	730
S1 LN36N 35+75E		113	30.0	0.2	350
S1 LN36N 36+50E		220	30.0	0.5	690
S1 LN36N 36+75E		776	30.0	1.8	>1000
S1 LN36N 37+00E		405	30.0	2.1	>1000
S1 LN36N 37+25E		514	30.0	0.6	>1000
S1 LN36N 37+50E		650	30.0	0.9	>1000
S1 LN36N 37+75E		802	30.0	1.3	>1000
S1 LN36N 38+00E		597	30.0	0.8	>1000
S1 36N 38+50E		960	30.0	1.0	>1000
S1 36N 38+75E		516	30.0	0.7	>1000
S1 36N 39+00E		1113	30.0	0.5	>1000
S1 36N 39+25E		1005	30.0	1.3	>1000
S1 36N 39+75E		361	30.0	0.3	>1000
S1 36N 40+00E		334	30.0	0.2	>1000
S1 36N 40+25E		357	30.0	0.2	730
S1 36N 40+60E		239	30.0	1.3	>1000
S1 36N 41+00E		345	30.0	0.8	>1000
S1 36N 41+25E		128	30.0	0.3	900
S1 36N 41+50E		193	30.0	0.4	>1000
S1 36N 41+75E		260	30.0	0.4	>1000
S1 36N 42+00E		159	30.0	0.3	850
S1 L36N 44+50E		395	30.0	0.4	>1000
S1 L37N 34+75E		213	30.0	0.1	260
S1 L37N 35+25E		394	30.0	0.5	930
S1 L37N 35+75E		1469	30.0	0.4	>1000
S1 L37N 36+25E		1238	25.0	0.3	>1000
S1 L37N 36+50E		625	30.0	0.3	>1000
S1 L37N 36+75E		835	30.0	0.8	>1000
S1 L37N 37+00E		593	30.0	0.8	>1000
S1 L37N 37+25E		402	30.0	0.8	>1000
S1 L37N 37+50E		937	30.0	0.5	>1000
S1 L37N 38+00E		514	30.0	0.2	>1000
S1 L37N 38+25E		433	30.0	0.3	>1000
S1 L37N 38+50E		751	30.0	0.9	>1000

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Geochemical Lab Report

REPORT: V88-05607.0 | PROJECT: 1400 |

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Ag PPM	As PPM	SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Ag PPM	As PPM
S1 L37N 38+75E		618	30.0	0.5	>1000	R2 8-424081		123	30.0	0.6	740
S1 L37N 39+00E		670	30.0	0.9	>1000	R2 8-424082		431	30.0	10.4	>1000
S1 L37N 39+25E		220	30.0	0.2	960	R2 8-424083		>10000	30.0	>50.0	>1000
S1 L37N 39+50E		420	30.0	0.7	>1000	R2 8-424084		5732	30.0	5.9	>1000
S1 L37N 39+75E		513	30.0	0.8	>1000	R2 8-424085		3348	30.0	5.7	>1000
S1 L37N 40+00E		449	30.0	0.7	>1000	R2 8-424087		>10000	30.0	37.9	>1000
S1 L37N 40+25E		735	30.0	0.4	>1000	R2 8-414088		251	30.0	1.4	>1000
S1 L37N 40+50E		1626	30.0	0.6	>1000						
S1 L37N 40+75E		1447	30.0	0.2	>1000						
S1 L37N 41+00E		1159	30.0	0.1	>1000						
S1 L37N 41+25E		504	30.0	0.2	>1000						
S1 L37N 41+50E		514	30.0	0.3	880						
S1 L37N 41+75E		104	30.0	0.1	790						
S1 L37N 42+00E		462	5.0	0.2	460						
S1 L38N 33+25E		176	30.0	0.1	650						
S1 L38N 33+75E		218	30.0	0.3	960						
S1 L38N 34+25E		101	30.0	<0.1	320						
S1 L38N 34+75E		1434	30.0	2.0	>1000						
S1 L38N 35+25E		1463	30.0	0.3	>1000						
S1 L38N 35+75E		489	30.0	0.6	>1000						
S1 L38N 36+75E		783	30.0	0.4	>1000						
S1 L38N 37+25E		805	30.0	1.1	>1000						
S1 L38N 37+75E		374	30.0	0.6	>1000						
S1 L38N 38+50E		351	30.0	0.2	>1000						
S1 L38N 38+75E		523	30.0	0.3	>1000						
S1 L38N 39+00E		296	30.0	0.5	>1000						
S1 L38N 39+25E		356	28.0	1.0	>1000						
S1 L38N 39+50E		255	2.0	1.2	>1000						
S1 L38N 39+75E		884	30.0	0.7	>1000						
S1 L38N 40+00E		507	30.0	0.4	>1000						
S1 L38N 40+25E		391	28.0	0.5	>1000						
S1 L38N 40+50E		320	30.0	1.1	>1000						
S1 L38N 40+75E		157	30.0	0.4	>1000						
S1 L38N 41+00E		358	30.0	0.4	>1000						
S1 L38N 41+50E		72	30.0	0.3	600						
S1 L38N 41+75E		77	30.0	0.2	880						
S1 L38N 42+00E		135	30.0	0.5	900						
R2 8-414086		598	30.0	0.7	350						
R2 8-421025		>10000	30.0	>50.0	>1000						
R2 8-424080		604	30.0	1.1	>1000						

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Certificate of Analysis

REPORT: V88-05607.6

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
R2 8-421025		4.932	3.24
R2 8-424083		2.370	1.28
R2 8-424087		0.628	

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Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt G	Au/wt G	Ag PPM	As PPM
S1 8-461084		3180	10.0		11.8	>1000
S1 8-461085		11	10.0		<0.1	80
S1 8-461086		55	10.0		0.2	110
S1 8-461087		64	10.0		0.3	200
S1 8-461088		152	10.0		0.2	380
S1 8-461089		214	10.0		0.6	680
S1 8-461090		70	10.0		0.2	260
S1 8-461091		720	10.0		0.2	400
S1 8-461092		258	10.0		0.1	285
S1 8-461093		126	10.0		0.1	340
S1 8-461094		195	10.0		0.1	610
S1 8-461095		2180	10.0		0.3	560
S1 8-461096		394	10.0		0.5	760
S1 8-461097		283	10.0		0.4	640
S1 8-461098		194	10.0		0.1	690
S1 8-461099		186	10.0		0.1	125
S1 8-461100		35	10.0		<0.1	220
S1 8-461101		96	10.0		0.1	620
S1 8-461102		7	10.0		0.1	90
S1 8-461103		53	10.0		0.1	125
S1 8-465000		229	10.0		6.1	850
S1 8-465001		27	10.0		0.2	540
S1 8-465002		48		5.0	0.2	850
S1 8-465003		16	10.0		0.1	215
S1 8-465004		32	10.0		<0.1	210
S1 8-465005		221	10.0		0.6	480
S1 8-465006		176	10.0		0.2	180
S1 8-465007		128	10.0		0.1	980
S1 8-465008		138	10.0		0.2	>1000
S1 8-465009		62	10.0		<0.1	230
S1 8-465010		176	10.0		<0.1	510
S1 8-465011		73	10.0		<0.1	340
S1 8-465012		57	10.0		0.1	200
S1 8-465013		40	10.0		0.1	600
S1 8-465014		125	10.0		0.1	400
S1 8-465015		70	10.0		<0.1	560
S1 8-465016		57	10.0		0.2	980
S1 8-465017		67	10.0		0.1	530
S1 8-465018		18	10.0		0.1	185
S1 8-465019		899	10.0		0.2	460

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt. G	Au/wt. G	Ag PPM	As PPM
S1 8-465020		947	10.0		0.3	200
S1 8-465021		4220	10.0		0.6	>1000
S1 8-465022		157	10.0		<0.1	690
S1 8-465023		384	10.0		0.2	550
S1 46+50N 32E		69	10.0		<0.1	610
S1 L47N 32+00E		38	10.0		<0.1	270
S1 L47N 32+50E		71	10.0		0.2	600
S1 L47N 33+00E		98	10.0		0.3	770
S1 L47N 33+50E		69	10.0		0.2	760
S1 L47N 34+00E		80	10.0		0.1	580
S1 L47N 34+25E		336	10.0		0.3	580
S1 L47N 34+50E		130	10.0		0.2	580
S1 L47N 34+75E		70	10.0		0.2	830
S1 L47N 35+00E		101	10.0		0.3	440
S1 L47N 35+25E		709	10.0		0.3	330
S1 L47N 35+50E		364	10.0		0.3	290
S1 L47N 35+75E		150	10.0		<0.1	53
S1 L47N 36+00E		148	10.0		0.1	160
S1 L47N 36+25E		71	10.0		<0.1	65
S1 L47N 36+75E		298	5.0		0.3	200
S1 L47N 37+00E		1330	0.6		0.3	225
S1 L47N 37+50E		400	10.0		0.1	130
S1 L47N 38+00E		125		10.0	0.1	75
S1 L47N 38+50E		28	3.0	7.0	<0.1	75
S1 47+50N 32E		200	10.0		0.5	>1000
S1 L48N 32+00E		273	10.0		0.9	>1000
S1 L48N 32+50E		221	10.0		0.5	1000
S1 L48N 33+50E		53	10.0		0.1	370
S1 L48N 34+00E		130	10.0		0.2	360
S1 L48N 34+25E		272	2.0	8.0	0.1	950
S1 L48N 34+50E		405	10.0		0.1	980
S1 L48N 34+75E		38	10.0		0.2	310
S1 L48N 35+00E		54	10.0		0.2	270
S1 L48N 35+25E		90	10.0		0.1	450
S1 L48N 35+50E		81	10.0		<0.1	210
S1 L48N 35+75E		45	10.0		0.1	120
S1 L48N 36+00E		515	10.0		0.3	195
S1 L48N 36+25E		336	10.0		0.2	150
S1 L48N 36+50E		155	10.0		0.1	140
S1 L48N 36+75E		265	10.0		0.1	140

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt G	Au/wt G	Ag PPM	As PPM
S1 L48N 37+00E		121	10.0		<0.1	210
S1 L48N 37+50E		114	10.0		0.3	150
S1 L48N 38+00E		70	10.0		0.1	60
S1 L48N 38+50E		11	10.0		<0.1	24
R2 8-411027		378	10.0		0.8	>1000
R2 8-411028		69	10.0		0.1	570
R2 8-411029		182	10.0		0.5	>1000
R2 8-411030		985	10.0		1.0	>1000
R2 8-411031		>10000	10.0		20.5	>1000
R2 8-411032		170	10.0		0.1	640
R2 8-411033		183	10.0		0.1	190
R2 8-411034		16	10.0		<0.1	28
R2 8-411037		12	10.0		0.1	350
R2 8-414096		16	10.0		<0.1	32
R2 8-414097		14	10.0		0.1	10
R2 8-421026		>10000	10.0		27.4	>1000
R2 8-421035		875	10.0		3.0	>1000
R2 8-421036		88	10.0		0.4	62
R2 8-421038		19	10.0		0.9	23
R2 8-421039		4290	10.0		0.5	>1000
R2 8-424089		144	10.0		0.3	850
R2 8-424090		1566	10.0		2.9	>1000
R2 8-424091		1364	10.0		7.4	>1000
R2 8-424092		202	10.0		0.7	200
R2 8-424093		121	10.0		0.7	>1000
R2 8-424094		285	10.0		<0.1	75
R2 8-424095		252	10.0		0.3	290
R2 8-424098		84	10.0		0.1	300
R2 8-424099		39	10.0		0.2	43

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Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM
S1 8-461104		18	<0.1	28
S1 8-461105		22	<0.1	70
S1 8-461106		14	<0.1	14
S1 8-461107		80	<0.1	80
S1 8-461108		30	<0.1	28
S1 8-461109		27	<0.1	45
S1 8-461110		79	<0.1	80
S1 8-461111		49	<0.1	90
S1 8-461112		518	<0.1	130
S1 8-461113		24	<0.1	24
S1 8-461114		9	<0.1	22
S1 8-461115		172	<0.1	300
S1 8-461116		43	<0.1	120
S1 8-461117		288	<0.1	258
S1 8-461118		50	<0.1	75
S1 8-461119		263	0.2	>1000
S1 8-461120		28	<0.1	31
S1 8-461121		51	<0.1	25
S1 8-461122		50	<0.1	15
S1 8-461123		48	<0.1	>1000
S1 8-461124		50	<0.1	100
S1 8-461125		102	<0.1	180
S1 8-461126		22	<0.1	16
S1 8-461127		180	<0.1	85
S1 8-461128		154	0.1	230
S1 8-461129		76	<0.1	150
S1 8-461130		472	<0.1	500
S1 8-461131		203	0.1	560
S1 8-461132		753	0.1	>1000
S1 8-461133		159	0.2	600
S1 8-461134		63	<0.1	180
S1 8-461135		239	0.1	900
S1 8-461136		169	<0.1	660
S1 8-461137		120	0.2	820
S1 8-461138		434	0.4	>1000
S1 8-461139		521	0.7	>1000
S1 8-461140		178	0.1	850
S1 8-461141		126	0.1	780
S1 8-461142		158	<0.1	995
S1 8-464001		1689	0.5	140
S1 8-464002		31	<0.1	920
S1 8-464003		26	<0.1	75
S1 8-464004		21	<0.1	55
S1 8-464005		16	<0.1	20
S1 8-464006		41	<0.1	95
S1 8-464007		32	<0.1	22
S1 8-464008		266	0.5	950
S1 8-464009		123	<0.1	200
S1 8-464010		45	<0.1	120
S1 L42N 27+00E		46	<0.1	90
S1 L42N 27+50E		47	<0.1	150
S1 L42N 28+00E		104	0.3	850
S1 L42N 28+50E		69	<0.1	220
S1 L42N 29+00E		108	0.4	660
S1 L42N 29+50E		103	0.2	900
S1 L42N 30+00E		97	0.2	690
S1 L42N 30+50E		117	0.9	>1000
S1 L42N 31+00E		92	0.1	640
S1 L42N 31+50E		72	<0.1	850
S1 L43N 27+00E		140	0.5	820
S1 L43N 27+50E		170	0.4	950
S1 L43N 28+00E		144	<0.1	400
S1 L43N 28+50E		124	<0.1	570
S1 L43N 29+00E		113	<0.1	430
S1 L43N 29+50E		123	<0.1	380
S1 L43N 30+00E		114	0.3	>1000
S1 L43N 30+50E		74	0.1	800
S1 L43N 31+00E		37	0.1	430
S1 L43N 31+50E		33	0.1	660
S1 L44N 27+00E		192	<0.1	900
S1 L44N 27+50E		203	0.6	>1000
S1 L44N 28+00E		54	<0.1	250
S1 L44N 28+80E		600	1.0	550
S1 L44N 29+50E		67	0.2	240
S1 L44N 30+00E		22	<0.1	430
S1 L44N 30+50E		8	<0.1	230
S1 L44N 31+00E		71	<0.1	200
S1 L44N 31+50E		24	<0.1	250
S1 L45N 27+00E		42	0.1	950
S1 L45N 27+50E		609	<0.1	>1000

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM
S1 L45N 28+00E		312	1.0	>1000
S1 L45N 28+50E		306	1.1	>1000
S1 L45N 29+00E		45	0.1	300
S1 L45N 29+50E		398	0.4	>1000
S1 L45N 30+00E		18	<0.1	250
S1 L45N 30+50E		24	<0.1	140
S1 L45N 31+00E		15	<0.1	115
S1 L45N 31+50E		37	<0.1	210
S1 L46N 27+00E		68	0.1	790
S1 L46N 27+50E		188	0.4	>1000
S1 L46N 28+00E		61	0.4	550
S1 L46N 28+50E		115	0.7	>1000
S1 L46N 29+00E		105	0.8	>1000
S1 L46N 29+50E		138	1.2	>1000
S1 L46N 30+00E		170	2.2	>1000
S1 L46N 30+50E		259	0.3	350
S1 L46N 31+00E		106	0.6	375
S1 L46N 31+50E		46	<0.1	95
S1 L47N 27+00E		74	0.5	800
S1 L47N 27+50E		210	0.9	>1000
S1 L47N 28+00E		98	0.5	560
S1 L47N 28+50E		141	0.8	>1000
S1 L47N 29+20E		150	0.1	>1000
S1 L47N 29+50E		195	0.2	>1000
S1 L47N 30+00E		97	<0.1	570
S1 L47N 30+50E		56	<0.1	420
S1 L47N 31+00E		304	0.4	>1000
S1 L47N 31+50E		81	0.3	50
R2 8-411040		682	0.1	>1000
R2 8-411041		52	0.1	50
R2 8-414100		16	<0.1	7
R2 8-414101		84	0.2	>1000
R2 8-414102		38	0.1	11
R2 8-414103		87	0.5	>1000
R2 8-414104		112	1.2	220
R2 8-414105		56	0.3	900
R2 8-414106		389	0.5	100
R2 8-414107		4510	4.7	>1000
R2 8-414108		107	0.7	>1000
R2 8-414109		150	0.5	>1000
R2 8-414110		72	0.2	470
R2 8-414111		>10000	8.9	>1000
R2 8-414112		202	0.6	>1000

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Certificate of Analysis

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT
R2 8-411031		5.673#
R2 8-421026		1.037

Signature

Assayer

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Certificate of Analysis

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT
R2 8-424111		0.259

Registered Assayer, Province of British Columbia

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Geochemical Lab Report

REPORT: V88-05685.0 (COMPLETE)

REFERENCE INFO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.
PROJECT: 1400

SUBMITTED BY: S. ROBINSON
DATE PRINTED: 13-SEP-88

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold - Fire Assay	6	5 PPB	FIRE-ASSAY	Fire Assay AA
2	Al203	Alumina (Al203)	2	0.01 PCT	BORATE FUSION	PLASMA EMISSION SPEC
3	CaO	Calcium (CaO)	2	0.01 PCT	BORATE FUSION	PLASMA EMISSION SPEC
4	Fe203	Total Iron as Fe203	2	0.01 PCT	BORATE FUSION	PLASMA EMISSION SPEC
5	LOI	Loss On Ignition	2	0.01 PCT		Gravimetric
6	K20	Potassium (K20)	2	0.01 PCT	BORATE FUSION	PLASMA EMISSION SPEC
7	MgO	Magnesium (MgO)	2	0.01 PCT	BORATE FUSION	PLASMA EMISSION SPEC
8	MnO	Manganese (MnO)	2	0.01 PCT	BORATE FUSION	PLASMA EMISSION SPEC
9	Na20	Sodium (Na20)	2	0.01 PCT	BORATE FUSION	PLASMA EMISSION SPEC
10	P205	Phosphorous (P205)	2	0.01 PCT	BORATE FUSION	PLASMA EMISSION SPEC
11	Si02	Silica	2	0.01 PCT	BORATE FUSION	PLASMA EMISSION SPEC
12	Ti02	Titanium (Ti02)	2	0.01 PCT	BORATE FUSION	PLASMA EMISSION SPEC
13	Totals	Whole Rock Totals	2	0.01 PCT		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	8	2 -150	8	CRUSH,PULVERIZE -150	8

REPORT COPIES TO: S.D. ROBINSON

INVOICE TO: AURUM GEOLOGICAL

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Al2O3 PCT	CaO PCT	Fe2O3 PCT	LOI PCT	K2O PCT	MgO PCT	MnO PCT	Na2O PCT	P2O5 PCT	SiO2 PCT
R2 8-411042		234										
R2 8-411043		16										
R2 8-415015		84										
R2 8-424115			14.80	2.31	2.31	1.37	3.41	0.52	0.02	2.97	0.07	71.23
R2 8-424116			15.38	3.56	4.29	1.35	5.29	1.34	0.09	2.16	0.20	65.25
R2 8-425012		24										
R2 8-425013		139										
R2 8-425014		29										

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SAMPLE NUMBER	ELEMENT UNITS	TiO2 PCT	Totals PCT
R2 8-411042			
R2 8-411043			
R2 8-415015			
R2 8-424115		0.27	99.28
R2 8-424116		0.52	99.43
R2 8-425012			
R2 8-425013			
R2 8-425014			

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Au PPB
S1 3350N 3225E		391	S1 3450N 3400E		809
S1 3350N 3250E		110	S1 3450N 3425E		421
S1 3350N 3275E		538	S1 3450N 3450E		299
S1 3350N 3300E		334	S1 3450N 3475E		386
S1 3350N 3325E		350#	S1 3450N 3500E		2390
S1 3350N 3350E		397	S1 3450N 3525E		2120
S1 3350N 3375E		2000#	S1 3450N 3550E		666
S1 3350N 3400E		646	S1 3450N 3575E		290
S1 3350N 3425E		62	S1 3450N 3600E		888
S1 3350N 3450E		74	S1 3450N 3625E		168
S1 3350N 3475E		188	S1 3450N 3650E		350#
S1 3350N 3500E		239	S1 3450N 3675E		283
S1 3350N 3525E		80	S1 3450N 3700E		217
S1 3350N 3550E		256	S1 3450N 3725E		2360
S1 3350N 3575E		217	S1 3450N 3750E		2290
S1 3350N 3600E		157	S1 3450N 3775E		287
S1 3350N 3625E		379	S1 3450N 3800E		122
S1 3350N 3650E		435	S1 3450N 3825E		130
S1 3350N 3675E		858	S1 3450N 3850E		136
S1 3350N 3700E		408	S1 3450N 3875E		170
S1 3350N 3725E		354	S1 3450N 3900E		296
S1 3350N 3750E		313	S1 3450N 3925E		591
S1 3350N 3775E		491	S1 3450N 3950E		2260
S1 3350N 3800E		491	S1 3450N 3975E		97
S1 3350N 3825E		547	S1 3450N 4000E		205
S1 3350N 3850E		271	S1 3450N 4025E		770
S1 3350N 3875E		241	S1 3450N 4050E		295
S1 3350N 3900E		1450#	S1 3550N 3000E		233
S1 3350N 3925E		200	S1 3550N 3025E		296
S1 3350N 3950E		150	S1 3550N 3050E		133
S1 3350N 3975E		216	S1 3550N 3075E		306
S1 3350N 4000E		283	S1 3550N 3100E		226
S1 3350N 4025E		112	S1 3550N 3125E		273
S1 3350N 4050E		299	S1 3550N 3150E		1640
S1 3450N 3225E		256	S1 3550N 3175E		112
S1 3450N 3250E		3420	S1 3550N 3225E		567
S1 3450N 3275E		1472	S1 3550N 3250E		2500
S1 3450N 3300E		1103	S1 3550N 3275E		1174
S1 3450N 3350E		454	S1 3550N 3300E		950
S1 3450N 3375E		418	S1 3550N 3325E		435

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB
S1 3550N 3350E		974
S1 3550N 3375E		1088
S1 3550N 3400E		1089
S1 3550N 3450E		454
S1 3550N 3475E		156
S1 3550N 3500E		392
S1 3550N 3525E		84
S1 3550N 3550E		285
S1 3550N 3575E		196
S1 3550N 3600E		474
S1 3550N 3625E		54
S1 3550N 3650E		547
S1 3550N 3675E		1420
S1 3550N 3700E		3780
S1 3550N 3725E		553
S1 3550N 3750E		563
S1 3550N 3775E		569
S1 3550N 3800E		557
S1 3550N 3850E		1271
S1 3550N 3875E		901
S1 3550N 3900E		577
S1 3550N 3925E		1561
S1 3550N 3950E		492
S1 3550N 3975E		195
S1 3550N 4000E		38
S1 3550N 4025E		19
S1 3550N 4050E		52
S1 3650N 3000E		369
S1 3650N 3025E		590
S1 3650N 3050E		395
S1 3650N 3075E		193
S1 3650N 3100E		174
S1 3650N 3125E		88
S1 3650N 3150E		95
S1 3650N 3175E		182
S1 3650N 3500E		49
S1 3650N 3525E		60
S1 3650N 3550E		222
S1 3650N 3575E		288
S1 3650N 3600E		340*
S1 3650N 3625E		786
S1 3650N 3650E		498
S1 3650N 3675E		292
S1 3650N 3725E		440
S1 3650N 3750E		560
S1 3650N 3775E		405
S1 3650N 3800E		522
S1 3650N 3825E		1033
S1 3650N 3850E		2500
S1 3650N 3875E		715
S1 3650N 3900E		1164
S1 3650N 3925E		668
S1 3650N 3950E		328
S1 3650N 3975E		219
S1 3650N 4000E		310
S1 3650N 4025E		461
S1 3650N 4050E		188
S1 3650N 4100E		184
S1 3650N 4125E		97
S1 3650N 4150E		1122
S1 3650N 4175E		251
S1 3650N 4200E		295
S1 3750N 3400E		400*
S1 3750N 3425E		191
S1 3750N 3450E		873
S1 3750N 3475E		400
S1 3750N 3500E		3330
S1 3750N 3525E		357
S1 3750N 3550E		176
S1 3750N 3575E		846
S1 3750N 3600E		634
S1 3750N 3650E		521
S1 3750N 3675E		883
S1 3750N 3700E		772
S1 3750N 3725E		428
S1 3750N 3750E		756
S1 3750N 3775E		468
S1 3750N 3800E		752
S1 3750N 3825E		720
S1 3750N 3850E		1208

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Au PPB
S1 3750N 3875E		475			
S1 3750N 3900E		536			
S1 3750N 3925E		223			
S1 3750N 3950E		673			
S1 3750N 3975E		362			
S1 3750N 4000E		804			
S1 3750N 4025E		1159			
S1 3750N 4050E		393			
S1 3750N 4075E		506			
S1 3750N 4100E		187			
S1 3750N 4125E		155			
S1 3750N 4150E		135			
S1 3750N 4175E		189			
S1 3750N 4200E		145			

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SAMPLE NUMBER	ELEMENT UNITS	AU PPB	AG PPM	AS PPM
R2 8-411068		32	0.3	440
R2 8-411069		840	0.3	75
R2 8-411070		101	0.2	850
R2 8-411071		916	5.0	>1000
R2 8-411072		33	0.7	850
R2 8-411073		59	0.3	770
R2 8-411074		21	0.2	105
R2 8-411075		27	0.2	610
R2 8-411076		114	0.2	290
R2 8-411077		36	0.3	>1000
R2 8-411078		<5	0.2	50
R2 8-411079		19	0.6	155
R2 8-411080		63	0.4	140
R2 8-411081		28	0.2	48
R2 8-411082		560	0.4	>1000
R2 8-411083		45	1.1	800
R2 8-414138		>10000	11.9	>1000
R2 8-415016		>10000	43.7	>1000
R2 8-421044		3330	8.5	>1000
R2 8-424117		414	0.6	>1000

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SAMPLE NUMBER	ELEMENT UNITS	AU OPT
2 B-414118		0.449
2 B-415016		1.749

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM
S1 41+00E 37+00N		294	0.3	>1000
S1 41+00E 37+25N		359	0.3	>1000
S1 41+00E 37+50N		47	0.2	260
S1 41+00E 37+75N		72	0.2	750
S1 41+00E 38+50N		196	0.3	740
S1 41+00E 38+75N		56	0.7	830
S1 41+00E 39+00N		226	0.7	>1000
S1 41+00E 39+25N		1092	0.8	>1000
S1 41+00E 39+50N		69	0.8	610
S1 41+00E 39+75N		90	1.6	320
S1 41+00E 40+00N		73	1.0	210
S1 42+00E 37+00N		85	0.5	630
S1 42+00E 37+25N		239	0.2	710
S1 42+00E 37+50N		185	0.2	860
S1 42+00E 37+75N		176	0.5	>1000
S1 42+00E 38+00N		196	0.5	760
S1 42+00E 38+25N		109	0.3	980
S1 42+00E 38+50N		238	0.4	>1000
S1 42+00E 38+75N		109	0.3	750
S1 42+00E 39+00N		114	0.3	810
S1 42+00E 39+25N		54	0.2	790
S1 42+00E 39+50N		52	0.7	650
S1 42+00E 39+75N		66	0.9	430
S1 42+00E 40+00N		457	2.2	>1000
S1 43+00E 37+00N		224	0.3	780
S1 43+00E 37+25N		237	0.4	>1000
S1 43+00E 37+50N		173	0.4	>1000
S1 43+00E 37+75N		150	0.2	930
S1 43+00E 38+00N		125	0.4	790
S1 43+00E 38+25N		79	0.3	780
S1 43+00E 38+50N		106	0.3	950
S1 43+00E 38+75N		158	0.2	670
S1 43+00E 39+00N		246	0.3	>1000
S1 43+00E 39+25N		335	0.4	>1000
S1 43+00E 39+50N		199	0.3	>1000
S1 43+00E 39+75N		123	0.3	750
S1 43+00E 40+00N		48	0.5	390
S1 43+00E 40+25N		1174	13.7	>1000
S1 43+00E 40+50N		149	2.7	>1000
S1 44+00E 37+00N		78	0.4	>1000
S1 44+00E 37+25N		107	0.3	900
S1 44+00E 37+50N		72	0.5	950
S1 44+00E 38+00N		98	0.3	>1000
S1 44+00E 38+25N		123	0.4	>1000
S1 44+00E 38+50N		185	0.6	910
S1 44+00E 38+75N		107	0.4	790
S1 44+00E 39+00N		184	0.4	>1000
S1 44+00E 39+25N		315	0.5	>1000
S1 44+00E 39+50N		123	0.4	970
S1 44+00E 39+75N		168	0.5	>1000
S1 44+00E 40+00N		317	9.7	980
S1 44+00E 40+25N		113	0.7	>1000
S1 44+00E 40+50N		86	1.8	>1000
S1 44+00E 40+75N		68	0.6	810
S1 44+00E 41+00N		71	1.0	1000
S1 45+00E 37+00N		74	0.5	>1000
S1 45+00E 37+25N		88	0.4	>1000
S1 45+00E 37+50N		44	0.5	>1000
S1 45+00E 37+75N		55	0.4	>1000
S1 45+00E 38+00N		68	0.3	>1000
S1 45+00E 38+25N		69	0.3	960
S1 45+00E 38+50N		48	0.4	750
S1 45+00E 38+75N		48	0.1	850
S1 45+00E 39+00N		97	0.2	1000
S1 45+00E 39+25N		53	0.2	1000
S1 45+00E 39+50N		55	0.3	1000
S1 45+00E 39+75N		58	0.1	850
S1 45+00E 40+00N		69	0.2	985
S1 45+00E 40+25N		74	0.2	955
S1 45+00E 40+50N		54	0.4	760
S1 45+00E 40+75N		163	0.6	935
S1 45+00E 41+00N		123	1.2	775
S1 37+00N 42+25E		150	0.3	>1000
S1 37+00N 42+50E		148	0.3	>1000
S1 37+00N 42+75E		335	0.3	1000
S1 37+00N 43+25E		41	0.2	480
S1 37+00N 43+50E		105	0.2	>1000
S1 37+00N 43+75E		48	0.2	720
S1 54+00N 21+00E		63	0.2	400
S1 54+00N 21+50E		64	0.2	560

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM
S1 54+00N 22+00E		18	0.2	200					
S1 54+00N 22+50E		69	0.2	150					
S1 54+00N 23+00E		304	0.2	360					
S1 54+00N 23+50E		7	0.1	56					
S1 54+00N 24+00E		35	0.2	78					
S1 54+00N 24+50E		<5	0.1	58					
S1 54+00N 25+00E		<5	<0.1	24					
S1 54+00N 25+50E		16	0.1	26					
S1 54+00N 26+00E		8	<0.1	33					
S1 54+00N 26+50E		32	0.1	22					
S1 54+00N 27+00E		9	0.1	120					
S1 54+00N 27+50E		79	0.1	130					
S1 54+00N 28+00E		18	0.1	46					
R2 8-411084		521	0.5	>1000					
R2 8-411085		5100	1.3	>1000					
R2 8-411086		127	0.1	1000					
R2 8-411087		268	0.2	>1000					
R2 8-411088		116	0.4	>1000					
R2 8-411089		74	0.2	790					
R2 8-411090		76	0.3	>1000					
R2 8-411091		51	0.2	880					
R2 8-411092		60	0.4	>1000					
R2 8-411093		286	2.5	>1000					
R2 8-411094		48	0.2	>1000					
R2 8-411095		302	1.0	290					
R2 8-411096		>100000	7.5	>1000					
R2 8-411097		113	0.3	620					
R2 8-411098		68	0.2	150					
R2 8-411099		1047	2.3	>1000					

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SAMPLE NUMBER	ELEMENT UNITS	AU OPT
2 S-41109		0.323

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM
S1 L23+00E 54+25N		9	0.3	260	S1 L24+00E 59+25N		412	0.1	330
S1 L23+00E 54+50N		12	0.1	80	S1 L24+00E 59+50N		252	<0.1	28
S1 L23+00E 54+75N		19	0.2	300	S1 L24+00E 59+75N		317	0.2	170
S1 L23+00E 55+00N		44	0.2	230	S1 L24+00E 60+00N		43	<0.1	90
S1 L23+00E 55+25N		46	0.3	300	S1 L24+00E 60+25N		<5	<0.1	120
S1 L23+00E 55+83N		212	0.2	980	S1 L24+00E 60+50N		<5	<0.1	260
S1 L23+00E 56+00N		259	0.4	>10000	S1 L24+00E 60+75N		57	<0.1	220
S1 L23+00E 56+25N		105	0.1	480	S1 L24+00E 61+00N		77	<0.1	240
S1 L23+00E 56+88N		250	0.5	700	S1 L24+00E 61+30N		158	<0.1	320
S1 L23+00E 57+00N		191	0.1	460	S1 L24+00E 61+75N		109	0.1	630
S1 L23+00E 57+25N		777	0.4	650	S1 L24+00E 62+00N		89	<0.1	430
S1 L23+00E 57+50N		2730	0.6	800	S1 L25+00E 54+25N		37	<0.1	46
S1 L23+00E 57+80N		659	0.1	460	S1 L25+00E 54+50N		<5	0.1	34
S1 L23+00E 58+00N		1339	0.2	480	S1 L25+00E 54+75N		<5	<0.1	76
S1 L23+00E 58+25N		464	0.2	400	S1 L25+00E 55+00N		12	0.1	90
S1 L23+00E 58+50N		400	0.2	460	S1 L25+00E 55+25N		21	0.2	75
S1 L23+00E 58+75N		721	0.3	450	S1 L25+00E 55+75N		162	0.1	420
S1 L23+00E 59+00N		222	0.2	270	S1 L25+00E 56+00N		263	0.1	660
S1 L23+00E 59+25N		546	0.9	215	S1 L25+00E 56+25N		423	0.2	720
S1 L23+00E 59+50N		624	0.3	230	S1 L25+00E 56+50N		117	0.1	260
S1 L23+00E 59+75N		921	0.1	280	S1 L25+00E 56+75N		153	<0.1	410
S1 L23+00E 60+00N		162	<0.1	190	S1 L25+00E 57+00N		63	0.1	200
S1 L23+00E 60+25N		246	0.1	130	S1 L25+00E 57+25N		961	0.6	700
S1 L23+00E 60+50N		24	<0.1	120	S1 L25+00E 57+50N		128	0.1	450
S1 L23+00E 61+00N		18	<0.1	135	S1 L25+00E 58+00N		660	0.3	>1000
S1 L23+00E 61+65N		72	0.1	680	S1 L25+00E 58+25N		2570	1.4	>1000
S1 L23+00E 61+75N		140	<0.1	535	S1 L25+00E 58+50N		502	0.2	1000
S1 L23+00E 62+00N		64	<0.1	300	S1 L25+00E 58+75N		1911	0.1	160
S1 L24+00E 54+25N		5	<0.1	80	S1 L25+00E 59+00N		317	0.2	220
S1 L24+00E 55+00N		18	0.1	140	S1 L25+00E 59+25N		3320	0.2	660
S1 L24+00E 55+50N		636	0.1	320	S1 L25+00E 59+50N		674	0.4	820
S1 L24+00E 56+00N		402	0.2	1000	S1 L25+00E 59+75N		<5	0.2	265
S1 L24+00E 56+50N		166	<0.1	475	S1 L25+00E 60+00N		<5	0.2	380
S1 L24+00E 57+00N		1048	0.1	475	S1 L25+00E 60+25N		32	0.1	230
S1 L24+00E 57+50N		1224	<0.1	330	S1 L25+00E 60+50N		108	0.2	420
S1 L24+00E 57+88N		271	<0.1	325	S1 L25+00E 60+75N		77	0.2	740
S1 L24+00E 58+25N		2036	0.3	>1000	S1 L25+00E 61+00N		42	0.2	460
S1 L24+00E 58+50N		585	0.2	610	S1 L25+00E 61+25N		<5	0.1	165
S1 L24+00E 58+75N		429	0.2	630	S1 L25+00E 61+50N		229	0.2	680
S1 L24+00E 59+00N		540	0.2	180	S1 L25+00E 61+75N		24	0.1	66

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM
S1 L25+00E 62+00N		<5	0.1	550	S1 L27+00E 58+75N		690	0.3	280
S1 L26+00W 54+50N		<5	0.1	37	S1 L27+00E 59+00N		2053	0.1	315
S1 L26+00E 55+00N		<5	0.1	120	S1 L27+00E 59+25N		365	0.2	260
S1 L26+00W 55+25N		76	0.1	68	S1 L27+00E 59+50N		1571	0.2	320
S1 L26+00E 55+50N		<5	0.3	220	S1 L27+00E 59+75N		2490	0.3	560
S1 L26+00W 55+75N		14	0.2	320	S1 L27+00E 60+00N		60	0.4	580
S1 L26+00E 56+00N		91	0.2	450	S1 L27+00E 60+25N		93	0.2	720
S1 L26+00W 56+25N		122	0.2	520	S1 L27+00E 60+50N		11	0.3	550
S1 L26+00E 56+50N		957	0.3	>1000	S1 L27+00E 60+75N		120	0.2	>1000
S1 L26+00W 57+00N		605	0.4	>1000	S1 L27+00E 61+00N		56	0.6	1000
S1 L26+00E 57+50N		120	0.5	700	S1 L27+00E 61+25N		42	0.2	365
S1 L26+00W 57+75N		167	0.7	600	S1 L27+00E 61+50N		39	0.3	435
S1 L26+00E 58+00N		193	0.5	610	S1 L27+00E 61+75N		47	0.2	350
S1 L26+00W 58+25N		3740	0.3	620	S1 L27+00E 62+00N		59	0.2	300
S1 L26+00E 58+50N		480	0.2	550					
S1 L26+00W 59+00N		1368	0.4	760					
S1 L26+00E 59+50N		942	0.2	240					
S1 L26+00W 60+00N		687	0.2	350					
S1 L26+00E 60+25N		220	0.2	820					
S1 L26+00W 60+50N		<5	0.1	500					
S1 L26+00E 60+75N		75	0.1	345					
S1 L26+00W 61+00N		58	0.2	715					
S1 L26+00E 61+25N		27	0.1	540					
S1 L26+00W 61+50N		40	0.1	420					
S1 L26+00E 61+75N		133	0.1	780					
S1 L26+00W 62+00N		94	0.2	655					
S1 L27+00E 54+25N		<5	0.1	43					
S1 L27+00W 54+50N		<5	0.1	68					
S1 L27+00E 55+00N		<5	0.1	135					
S1 L27+00W 55+25N		<5	0.1	120					
S1 L27+00E 55+50N		25	0.2	145					
S1 L27+00W 55+75N		24	0.2	220					
S1 L27+00E 56+00N		5	0.2	340					
S1 L27+00W 56+25N		93	0.2	530					
S1 L27+00E 56+50N		1028	0.3	980					
S1 L27+00W 56+75N		231	0.3	>1000					
S1 L27+00E 57+00N		221	0.3	980					
S1 L27+00W 57+75N		165	0.2	430					
S1 L27+00E 58+25N		1680	0.3	600					
S1 L27+00W 58+50N		213	0.3	260					

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Certificate of Analysis

DRILL CORE

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT
D2 67506		0.006
D2 67511		0.005
D2 67516		<0.002
D2 67521		0.014
D2 67525		0.003
D2 67527		0.027
D2 67528		0.004
D2 67529		0.002
D2 67531		0.003
D2 67548		0.003
D2 67565		0.005
D2 67572		0.029
D2 67573		0.005
D2 67583		0.006

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT
D2 67501		<0.002	D2 67551		0.002
D2 67502		0.002	D2 67552		0.003
D2 67503		<0.002	D2 67553		<0.002
D2 67504		0.003	D2 67554		<0.002
D2 67505		0.024	D2 67555		0.022
D2 67507		0.002	D2 67556		<0.002
D2 67508		0.002	D2 67557		<0.002
D2 67509		<0.002	D2 67558		<0.002
D2 67510		0.004	D2 67559		<0.002
D2 67512		<0.002	D2 67560		<0.002
D2 67513		<0.002	D2 67561		<0.002
D2 67514		0.003	D2 67562		<0.002
D2 67515		<0.002	D2 67563		<0.002
D2 67517		<0.002	D2 67564		0.002
D2 67518		<0.002	D2 67566		0.002
D2 67519		0.002	D2 67567		<0.002
D2 67520		0.002	D2 67568		0.003
D2 67522		<0.002	D2 67569		0.002
D2 67523		<0.002	D2 67570		0.002
D2 67524		<0.002	D2 67571		0.002
D2 67526		<0.002	D2 67574		0.002
D2 67530		0.006	D2 67575		0.002
D2 67532		<0.002	D2 67576		0.004
D2 67533		<0.002	D2 67577		<0.002
D2 67534		0.006	D2 67578		<0.002
D2 67535		0.004	D2 67579		<0.002
D2 67536		<0.002	D2 67580		<0.002
D2 67537		<0.002	D2 67581		<0.002
D2 67538		<0.002	D2 67582		<0.002
D2 67539		<0.002	D2 67584		0.003
D2 67540		<0.002	D2 67585		0.010
D2 67541		<0.002	D2 67586		0.003
D2 67542		<0.002	D2 67587		0.007
D2 67543		0.007	D2 67588		0.005
D2 67544		0.002	D2 67589		0.002
D2 67545		0.004	D2 67590		<0.002
D2 67546		<0.002	D2 67591		0.011
D2 67547		0.021	D2 67592		0.002
D2 67549		0.053	D2 67593		0.005
D2 67550		0.016	D2 67594		0.003

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT
D2 67595		<0.002
D2 67596		0.013
D2 67597		0.004
D2 67598		0.003
D2 67599		0.002
D2 67600		0.012
D2 67601		0.002

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SAMPLE NUMBER	ELEMENT UNITS AU OPT	SAMPLE NUMBER	ELEMENT UNITS AU OPT
D2 67602	<0.002	D2 67642	<0.002
D2 67603	0.032	D2 67643	<0.002
D2 67604	<0.002	D2 67644	<0.002
D2 67605	<0.002	D2 67645	<0.002
D2 67606	<0.002	D2 67646	<0.002
D2 67607	<0.002	D2 67647	<0.002
D2 67608	<0.002	D2 67648	<0.002
D2 67609	<0.002	D2 67649	<0.002
D2 67610	0.002	D2 67650	<0.002
D2 67611	<0.002	D2 67651	<0.002
D2 67612	0.004	D2 67652	<0.002
D2 67613	0.002	D2 67653	<0.002
D2 67614	<0.002	D2 67654	<0.002
D2 67615	0.007	D2 67655	<0.002
D2 67616	0.007	D2 67656	<0.002
D2 67617	<0.002	D2 67657	<0.002
D2 67618	<0.002	D2 67658	0.002
D2 67619	0.008	D2 67659	<0.002
D2 67620	<0.002	D2 67660	0.002
D2 67621	0.003	D2 67661	0.003
D2 67622	<0.002	D2 67662	0.003
D2 67623	<0.002	D2 67663	0.019
D2 67624	0.005	D2 67664	0.003
D2 67625	0.006	D2 67665	0.004
D2 67626	<0.002	D2 67666	<0.002
D2 67627	<0.002	D2 67667	<0.002
D2 67628	0.006	D2 67668	0.003
D2 67629	0.007	D2 67669	0.006
D2 67630	<0.002	D2 67670	0.004
D2 67631	<0.002	D2 67671	<0.002
D2 67632	<0.002	D2 67672	<0.002
D2 67633	<0.002	D2 67673	0.002
D2 67634	<0.002	D2 67674	<0.002
D2 67635	<0.002	D2 67675	<0.002
D2 67636	<0.002	D2 67676	0.009
D2 67637	<0.002	D2 67677	0.008
D2 67638	<0.002	D2 67678	0.004
D2 67639	<0.002	D2 67679	0.002
D2 67640	<0.002	D2 67680	0.002
D2 67641	0.004	D2 67681	<0.002

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SAMPLE NUMBER	ELEMENT UNITS AU OPT	SAMPLE NUMBER	ELEMENT UNITS AU OPT
D2 67682	<0.002	D2 67762	0.002
D2 67683	<0.002	D2 67763	0.002
D2 67684	0.021	D2 67764	0.002
D2 67685	0.023	D2 67765	0.028
D2 67686	0.003	D2 67766	0.002
D2 67687	0.006	D2 67767	0.002
D2 67688	<0.002	D2 67768	0.002
D2 67689	0.003	D2 67769	0.003
D2 67690	<0.002	D2 67770	<0.002
D2 67731	<0.002	D2 67771	<0.002
D2 67732	0.008	D2 67772	<0.002
D2 67733	0.009	D2 67773	<0.002
D2 67734	0.004	D2 67774	<0.002
D2 67735	0.002	D2 67775	0.028
D2 67736	<0.002	D2 67776	<0.002
D2 67737	0.002	D2 67777	<0.002
D2 67738	0.002	D2 67778	0.003
D2 67739	0.006	D2 67779	<0.002
D2 67740	0.002	D2 67780	<0.002
D2 67741	0.021	D2 67781	<0.002
D2 67742	0.019	D2 67782	<0.002
D2 67743	0.004	D2 67783	<0.002
D2 67744	0.002	D2 67784	<0.002
D2 67745	0.029	D2 67785	<0.002
D2 67746	0.005	D2 67786	0.005
D2 67747	0.052	D2 67787	<0.002
D2 67748	0.002	D2 67788	<0.002
D2 67749	<0.002	D2 67789	<0.002
D2 67750	<0.002	D2 67790	<0.002
D2 67751	<0.002	D2 67791	<0.002
D2 67752	<0.002	D2 67792	<0.002
D2 67753	<0.002	D2 67793	0.006
D2 67754	0.019	D2 67794	<0.002
D2 67755	0.006	D2 67795	0.002
D2 67756	0.005	D2 67796	0.002
D2 67757	0.002	D2 67797	<0.002
D2 67758	0.004	D2 67798	0.002
D2 67759	<0.002	D2 67799	<0.002
D2 67760	<0.002	D2 67800	0.004
D2 67761	<0.002	D2 67801	0.010

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SAMPLE NUMBER	ELEMENT UNITS	AU OPT	SAMPLE NUMBER	ELEMENT UNITS	AU OPT
D2 67602		0.003			

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SAMPLE NUMBER	ELEMENT UNITS Au OPT	SAMPLE NUMBER	ELEMENT UNITS Au OPT
R2 67803	<0.002	R2 67843	0.009
R2 67804	0.003	R2 67844	0.008
R2 67805	0.002	R2 67845	0.063
R2 67806	0.002	R2 67846	0.002
R2 67807	0.003	R2 67847	0.005
R2 67808	0.002	R2 67848	0.002
R2 67809	0.002	R2 67849	<0.002
R2 67810	0.004	R2 67850	<0.002
R2 67811	0.002	R2 67851	<0.002
R2 67812	0.002	R2 67852	0.005
R2 67813	<0.002	R2 67853	<0.002
R2 67814	<0.002	R2 67854	<0.002
R2 67815	0.006	R2 67855	0.008
R2 67816	<0.002	R2 67856	0.014
R2 67817	0.022	R2 67857	0.016
R2 67818	0.011	R2 67858	0.008
R2 67819	0.009	R2 67859	0.004
R2 67820	0.002	R2 67860	0.002
R2 67821	0.002	R2 67861	0.073
R2 67822	0.003	R2 67862	0.132
R2 67823	<0.002	R2 67863	0.003
R2 67824	0.023	R2 67864	0.007
R2 67825	0.005	R2 67865	<0.002
R2 67826	0.003	R2 67866	<0.002
R2 67827	0.008	R2 67867	0.012
R2 67828	<0.002	R2 67868	0.009
R2 67829	0.002	R2 67869	0.036
R2 67830	0.010	R2 67870	0.018
R2 67831	0.052*	R2 67871	0.007
R2 67832	0.021	R2 67872	0.012
R2 67833	0.007	R2 67873	0.003
R2 67834	0.002	R2 67874	0.026
R2 67835	0.251	R2 67875	0.013
R2 67836	0.006	R2 67876	0.020
R2 67837	0.002	R2 67877	<0.002
R2 67838	0.006	R2 67878	<0.002
R2 67839	0.010	R2 67879	0.003
R2 67840	<0.002	R2 67880	0.003
R2 67841	<0.002	R2 67881	0.003
R2 67842	0.003	R2 67882	0.007

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SAMPLE NUMBER	ELEMENT UNITS Au OPT	SAMPLE NUMBER	ELEMENT UNITS Au OPT
R2 67883	0.004	R2 67923	0.006
R2 67884	0.002	R2 67924	0.005
R2 67885	0.006	R2 67925	0.013
R2 67886	0.005	R2 67926	0.008
R2 67887	0.022	R2 67927	0.003
R2 67888	0.004	R2 67928	0.008
R2 67889	<0.002	R2 67929	0.007
R2 67890	<0.002	R2 67930	0.005
R2 67891	0.002	R2 67931	0.204‡
R2 67892	0.004	R2 67932	0.003
R2 67893	0.006	R2 67933	0.011
R2 67894	<0.002	R2 67934	0.025
R2 67895	0.002	R2 67935	0.006
R2 67896	<0.002	R2 67936	0.006
R2 67897	0.003	R2 67937	<0.002
R2 67898	0.060‡	R2 67938	0.003
R2 67899	0.015	R2 67939	0.003
R2 67900	0.005	R2 67940	0.009
R2 67901	0.008	R2 67941	0.002
R2 67902	<0.002	R2 67942	0.004
R2 67903	0.007	R2 67943	0.005
R2 67904	0.003	R2 67944	0.002
R2 67905	0.025	R2 67945	0.017
R2 67906	0.005	R2 67946	0.004
R2 67907	0.013	R2 67947	0.010
R2 67908	0.002	R2 67948	0.004
R2 67909	0.016	R2 67949	0.002
R2 67910	0.007	R2 67950	0.022
R2 67911	0.002	R2 67951	0.005
R2 67912	0.004	R2 67952	0.016
R2 67913	0.002	R2 67953	0.002
R2 67914	0.018	R2 67954	0.003
R2 67915	0.004	R2 67955	0.006
R2 67916	<0.002	R2 67956	0.003
R2 67917	0.003	R2 67957	<0.002
R2 67918	0.008	R2 67958	0.003
R2 67919	<0.002	R2 67959	0.006
R2 67920	0.057‡	R2 67960	<0.002
R2 67921	0.004	R2 67961	0.003
R2 67922	0.011	R2 67962	0.007

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT
R2 67963		0.002			
R2 67964		0.004			
R2 67965		<0.002			

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SAMPLE NUMBER	ELEMENT UNITS Au OPT	SAMPLE NUMBER	ELEMENT UNITS Au OPT
D2 67966	0.007	D2 69506	0.008
D2 67967	<0.002	D2 69507	0.002
D2 67968	<0.002	D2 69508	0.007
D2 67969	<0.002	D2 69509	<0.002
D2 67970	<0.002	D2 69510	0.005
D2 67971	<0.002	D2 69511	<0.002
D2 67972	0.008	D2 69512	0.002
D2 67973	<0.002	D2 69513	0.004
D2 67974	<0.002	D2 69514	0.004
D2 67975	0.049#	D2 69515	0.004
D2 67976	<0.002	D2 69516	0.002
D2 67977	<0.002	D2 69517	0.002
D2 67978	<0.002	D2 69518	<0.002
D2 67979	<0.002	D2 69519	<0.002
D2 67980	0.002	D2 69520	0.013
D2 67981	0.003	D2 69521	0.016
D2 67982	0.002	D2 69522	0.008
D2 67983	<0.002	D2 69523	<0.002
D2 67984	0.007	D2 69524	<0.002
D2 67985	0.005	D2 69525	0.005
D2 67986	0.002	D2 69526	0.002
D2 67987	<0.002	D2 69527	0.057#
D2 67988	0.008	D2 69528	0.012
D2 67989	<0.002	D2 69529	0.019
D2 67990	<0.002	D2 69530	0.007
D2 67991	0.012	D2 69531	0.004
D2 67992	<0.002	D2 69532	0.003
D2 67993	<0.002	D2 69533	0.021
D2 67994	0.005	D2 69534	0.006
D2 67995	<0.002	D2 69535	0.005
D2 67996	0.003	D2 69536	<0.002
D2 67997	<0.002	D2 69537	0.002
D2 67998	0.056	D2 69538	<0.002
D2 67999	0.009	D2 69539	<0.002
D2 68000	<0.002	D2 69540	<0.002
D2 69501	0.002	D2 69541	<0.002
D2 69502	0.048	D2 69542	<0.002
D2 69503	0.006	D2 69543	0.002
D2 69504	0.011	D2 69544	<0.002
D2 69505	0.006	D2 69545	<0.002

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT
D2 69546		<0.002			
D2 69547		0.004			
D2 69548		0.007			
D2 69549		0.003			
D2 69550		0.002			
D2 69551		0.004			
D2 69552		0.003			
D2 69553		0.002			
D2 69554		<0.002			
D2 69555		<0.002			
D2 69556		<0.002			

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SAMPLE NUMBER	ELEMENT UNITS AU OPT	SAMPLE NUMBER	ELEMENT UNITS AU OPT
R2 69557	<0.002	R2 69597	<0.002
R2 69558	<0.002	R2 69598	0.008
R2 69559	<0.002	R2 69599	0.025
R2 69560	0.015	R2 69600	0.065
R2 69561	<0.002	R2 69601	0.010
R2 69562	0.004	R2 69602	0.021
R2 69563	0.004	R2 69603	0.004
R2 69564	<0.002	R2 69604	0.010
R2 69565	0.002	R2 69605	<0.002
R2 69566	0.002	R2 69606	0.002
R2 69567	<0.002	R2 69607	0.046
R2 69568	<0.002	R2 69608	0.007
R2 69569	0.003	R2 69609	0.008
R2 69570	<0.002	R2 69610	0.010
R2 69571	0.004	R2 69611	0.008
R2 69572	0.014	R2 69612	<0.002
R2 69573	0.011	R2 69613	<0.002
R2 69574	<0.002	R2 69614	0.038
R2 69575	<0.002	R2 69615	<0.002
R2 69576	<0.002	R2 69616	<0.002
R2 69577	0.006	R2 69617	<0.002
R2 69578	0.004	R2 69618	<0.002
R2 69579	0.011	R2 69619	<0.002
R2 69580	0.003	R2 69620	0.003
R2 69581	<0.002	R2 69621	<0.002
R2 69582	0.017	R2 69622	<0.002
R2 69583	0.002	R2 69623	<0.002
R2 69584	<0.002	R2 69624	0.008
R2 69585	0.002	R2 69625	<0.002
R2 69586	0.002	R2 69626	0.129
R2 69587	0.002	R2 69627	0.131
R2 69588	0.005	R2 69628	0.003
R2 69589	0.013	R2 69629	<0.002
R2 69590	0.013	R2 69630	0.003
R2 69591	0.004	R2 69631	<0.002
R2 69592	<0.002	R2 69632	0.002
R2 69593	<0.002	R2 69633	<0.002
R2 69594	<0.002	R2 69634	0.024
R2 69595	0.003	R2 69635	<0.002
R2 69596	0.002	R2 69636	<0.002

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SAMPLE NUMBER	ELEMENT UNITS	AU OPT	SAMPLE NUMBER	ELEMENT UNITS	AU OPT
R2 69637		0.007	R2 69677		0.002
R2 69638		<0.002	R2 69678		0.006
R2 69639		0.002	R2 69679		<0.002
R2 69640		<0.002	R2 69680		0.006
R2 69641		0.004	R2 69681		0.005
R2 69642		<0.002	R2 69682		0.005
R2 69643		0.020	R2 69683		0.002
R2 69644		0.008	R2 69684		0.003
R2 69645		0.017	R2 69685		0.005
R2 69646		0.006	R2 69686		0.005
R2 69647		<0.002	R2 69687		0.005
R2 69648		0.006	R2 69688		0.010
R2 69649		0.007	R2 69689		0.003
R2 69650		0.005	R2 69690		0.014
R2 69651		<0.002	R2 69691		0.003
R2 69652		0.006	R2 69692		0.002
R2 69653		<0.002	R2 69693		0.036
R2 69654		<0.002	R2 69694		0.009
R2 69655		<0.002			
R2 69656		<0.002			
R2 69657		0.004			
R2 69658		0.003			
R2 69659		0.003			
R2 69660		0.014			
R2 69661		0.009			
R2 69662		0.078			
R2 69663		0.009			
R2 69664		<0.002			
R2 69665		0.016			
R2 69666		0.004			
R2 69667		0.003			
R2 69668		<0.002			
R2 69669		<0.002			
R2 69670		0.003			
R2 69671		0.271*			
R2 69672		0.007			
R2 69673		<0.002			
R2 69674		<0.002			
R2 69675		0.268*			
R2 69676		<0.002			

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SAMPLE NUMBER	ELEMENT UNITS AU OPT	SAMPLE NUMBER	ELEMENT UNITS AU OPT
D2 69695	0.120	D2 69735	0.002
D2 69696	0.030	D2 69736	0.005
D2 69697	0.005	D2 69737	0.012
D2 69698	<0.002	D2 69738	0.003
D2 69699	0.003	D2 69739	0.003
D2 69700	0.016	D2 69740	<0.002
D2 69701	0.002	D2 69741	0.004
D2 69702	<0.002	D2 69742	<0.002
D2 69703	0.026	D2 69743	<0.002
D2 69704	<0.002	D2 69744	<0.002
D2 69705	0.011	D2 69745	0.002
D2 69706	0.003	D2 69746	<0.002
D2 69707	0.006	D2 69747	0.002
D2 69708	0.012	D2 69748	<0.002
D2 69709	0.063	D2 69749	0.004
D2 69710	<0.002	D2 69750	0.004
D2 69711	0.013	D2 69751	0.002
D2 69712	0.003	D2 69752	0.015
D2 69713	0.023	D2 69753	0.003
D2 69714	0.004	D2 69754	<0.002
D2 69715	0.004	D2 69755	<0.002
D2 69716	0.033	D2 69756	<0.002
D2 69717	0.010	D2 69757	0.049
D2 69718	0.007	D2 69758	0.002
D2 69719	0.005	D2 69759	0.041
D2 69720	0.006	D2 69760	0.003
D2 69721	<0.002	D2 69761	<0.002
D2 69722	0.013	D2 69762	0.009
D2 69723	<0.002	D2 69763	<0.002
D2 69724	<0.002	D2 69764	0.003
D2 69725	0.002	D2 69765	0.002
D2 69726	0.002	D2 69766	0.051
D2 69727	0.002	D2 69767	0.017
D2 69728	0.005	D2 69768	<0.002
D2 69729	0.005	D2 COMP 69769 + 69770	0.008
D2 69730	<0.002	D2 69771	0.006
D2 69731	<0.002	D2 69772	0.006
D2 69732	0.002	D2 69773	0.003
D2 69733	<0.002	D2 69774	0.003
D2 69734	0.008	D2 69775	0.024

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Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS AU OPT	SAMPLE NUMBER	ELEMENT UNITS AU OPT
D2 69776	0.007	D2 69816	0.003
D2 69777	0.028	D2 69817	0.004
D2 69778	0.022	D2 69818	0.033
D2 69779	0.017	D2 69819	0.081*
D2 69780	0.016	D2 69820	0.034
D2 69781	<0.002	D2 69821	0.007
D2 69782	0.106*	D2 69822	0.011
D2 69783	0.019	D2 69823	0.215
D2 69784	<0.002	D2 69824	0.003
D2 69785	0.004	D2 69825	0.002
D2 69786	<0.002	D2 69826	0.027
D2 69787	0.147*	D2 69827	<0.002
D2 69788	0.002	D2 69828	0.014
D2 69789	0.050	D2 69829	0.013
D2 69790	<0.002	D2 69830	<0.002
D2 69791	<0.002	D2 69831	0.007
D2 69792	0.025	D2 69832	0.003
D2 69793	0.058	D2 69833	0.003
D2 69794	0.012	D2 69834	0.002
D2 69795	0.005	D2 69835	0.008
D2 69796	0.006	D2 69836	0.003
D2 69797	0.004	D2 69837	0.004
D2 69798	<0.002	D2 69838	<0.002
D2 69799	0.503	D2 69839	<0.002
D2 69800	0.032	D2 69840	<0.002
D2 69801	0.005	D2 69841	<0.002
D2 69802	0.004	D2 69842	0.017
D2 69803	0.002	D2 69843	0.002
D2 69804	0.032	D2 69844	<0.002
D2 69805	0.011	D2 69845	<0.002
D2 69806	0.005	D2 69846	<0.002
D2 69807	0.003	D2 69847	0.004
D2 69808	0.058	D2 69848	<0.002
D2 69809	0.002	D2 69849	<0.002
D2 69810	0.005	D2 69850	0.002
D2 69811	0.003	D2 69851	0.008
D2 69812	0.010	D2 69852	0.008
D2 69813	0.035	D2 69853	0.002
D2 69814	0.007	D2 69854	0.009
D2 69815	0.015	D2 69855	<0.002

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REPORT: VO85-00874.4

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SAMPLE NUMBER	ELEMENT UNITS	AU OPT	SAMPLE NUMBER	ELEMENT UNITS	AU OPT
D2 69856		0.002	D2 69896		<0.002
D2 69857		0.004	D2 69897		<0.002
D2 69858		0.002	D2 69898		0.005
D2 69859		<0.002	D2 69899		0.003
D2 69860		0.017			
D2 69861		<0.002			
D2 69862		<0.002			
D2 69863		0.031			
D2 69864		0.008			
D2 69865		0.010			
D2 69866		0.013			
D2 69867		0.003			
D2 69868		0.002			
D2 69869		0.003			
D2 69870		0.020			
D2 69871		<0.002			
D2 69872		0.007			
D2 69873		<0.002			
D2 69874		<0.002			
D2 69875		0.002			
D2 69876		0.003			
D2 69877		<0.002			
D2 69878		<0.002			
D2 69879		<0.002			
D2 69880		0.003			
D2 69881		0.029			
D2 69882		<0.002			
D2 69883		<0.002			
D2 69884		0.002			
D2 69885		<0.002			
D2 69886		0.002			
D2 69887		0.014			
D2 69888		<0.002			
D2 69889		0.003			
D2 69890		0.002			
D2 69891		0.010			
D2 69892		<0.002			
D2 69893		0.011			
D2 69894		<0.002			
D2 69895		0.008			

APPENDIX IV

DIAMOND DRILL CORE LOGS

AURUM GEOLOGICAL CONSULTANTS INC. DIAMOND DRILL LOG HOLE No. CC-88-1 Page 1 of 13

Property CLEAR CREEK	NTS 115P 14	Claim Rum 14	Elevation 1696.70	Azimuth 125°	Length 108.81	Dip -50°
Coordinates 34+50E 35+14N	Dip Tests Collar -50°,		Advance 70.30	Depth 83.00m	Date Collared Aug 8th	Date Completed Aug 12
Purposes Soil + Rock Anomaly, (up to 2340 ppb Au and 0.545 g/t Au Respectively)			Drilled by TONTO		Assays by Bondar Clegg	Logged by SPR

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION And intersect the fault and dyke.	Py/Po	Asp	Interval From	Interval To	Core Width	Sample No.	Au ppb. g/t
0	2.34	90%		Overburden - Casing							
2.34	71.75			Meta Sediments - Predominantly meta greywacke - Ank qtz-ab medium grey in the rusty fracture planes, fine grained moderate to well foliated, minor grade remnant qtz and clay grains in biotite (scale + chlorite rich groundmass, abundant irregular micro fractures + 1/4 mm wide marked by rusty staining + qtz infilling - these commonly have 1-2% pyrite concentrated along them, overall there is 1% po-py - disseminated in fine wisps along foliation locally up to 3%. In highly fracture breccia sections, mine dry, oxidized minor scale alternating chlorite/biotite rich bands in more granular qtz-ab rich bands - weak foliation. Unless the granular recrystallized grains of qtz and feldspar rolled with interstitial groundmass. Fine py noted concentrated in py/po in micro fractures			2.74 (60% Recovery)	4.00	1.26	67501	TOTAL 101 SAMPLES <0.002
							4.00 (70% Recovery)	6.00	2.00	67502	0.002
		85%		2.34 - 7.50 Blocky broken core, limonite stained, poor recovery			6.00	7.50	1.50	67503	<0.002
				7.50 foliation @ 46° LCA			7.50	8.59	1.09	67504	0.003
				8.59 - 9.29 Extremely blocky + broken core fractured in limonite alteration, sericitic in foliation planes			8.59	9.49	0.90	67505	0.024 0.82 g/t
				9.54 foliation @ 52°							
				9.49 - 9.69 Well foliated mafic interval up to 4% fg disseminated po-py	4%		9.49	10.30	0.81	67506	0.006

AURUM GEOLOGICAL CONSULTANTS INC. DIAMOND DRILL LOG HOLE No. CC 88 1 Page 2 of 13

Property	NTS	Claim	Elevation	Azimuth	Length	Dip
Coordinates	Dip Tests	Advance	Depth	Date Collared	Date Completed	
Purposes		Drilled by		Assays by	Logged by	

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	Interval From	Interval To	Core Width	Sample No.	Au g/t
				10.30 - 12.75 Silicified - weakly abundant irregular qtz filled microfractures ± mm-cm scale silicified and bleached patches also: limonite fractures ± limonite alteration K-logs - mm scale fractures subparallel to foliation @ 43° and offset 2.4mm by cross cutting fractures @ 23° overall bleached patchy irregular appearance ~2-3cm scale qtz veins / meter predominantly subparallel to foliation ~1% po-py ± local concentrations up to 2% disseminated and concentrated along vein selvages, trace Aspy noted		10.30	11.50	1.20	67507	0.002
						11.50	12.75	1.25	67508	0.002
						12.75	14.54	1.79	67509	<0.002
				14.54 - 15.00 Weakly Silicified, bleached - light grey mottled - patchy <5% f.g. Sulphide-py limonitic fractures.	5%	14.54	15.20	0.66	67510	0.004
				15.00 - 15.20 Well foliated mafic interval foliation @ 59°, dirty meta greywacke 2-3mm scale qtz veins // to foliation ± ~5% blebby py concentrated along selvages, minor 2% pyrite - coarse xl's lineations along foliation	5%	15.20	16.10	0.90	67511	0.005
				15.84 2cm wide milky white qtz vein @ 58° cross-cutting foliation weakly silicified host rock, minor coarse sulphides <1% py						
				15.70 - 20.42 Abundant limonitic microfractures irregular // to foliation - cross-cutting, local distorted foliation - deformation - ± qtz micro stringers						

AURUM GEOLOGICAL CONSULTANTS INC. DIAMOND DRILL LOG HOLE No. SC 88-1 Page 3 of 13

Property	NTS	Claim	Elevation	Azimuth	Length	Dip
Coordinates	Dip Tests	Advance	Depth	Date Collared	Date Completed	
Purposes	Drilled by		Assays by		Logged by	

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Po/Py	Mg	Interval From	Interval To	Core Width	Sample No.	Au oz/t
				16.10-16.76 Disturbed - contorted Fol°, sericitic wisps disharmonic, up to 3% pyrite/po +mm scale stringers and mm scale blebs	2%		16.10	16.76	0.66	67512	<0.002
				16.76-18.20 banded - mm scale black and light grey well foliated, felsic-light bands fine quartz rich, Fol° @ 46°			16.76	18.20	1.44	67513	<0.002
				19.42 Fol° @ 53° cross-cutting limonitic fractures @ 18°			18.20	19.70	1.50	67514	0.003
				20.50 25cm wide limonite stained qtz vein @ 41° subparallel to Fol° with 1% mm scale blebs of po+py	1%		19.70	20.70	1.00	67515	<0.002
				20.70-21.36 Patchy-irregular qtz-(calcite) veins and infillings light grey/white qtz in mm scale milky-creamy white feldspars, 2% po and py in blebby stringers, minor Aspy, minor sulphides are concentrated in wispy sections; bleached host rock	2%		20.70	21.36	0.66	67516	0.002
				21.36-22.56 1% fine wisps of py+po - concentrated on fracture planes.	1%		21.36	22.56	1.20	67517	<0.002
				22.66-22.86 Irregular patchy mm scale qtz infilling in blebby fine ipy, po and asp @ 2%	1-2%	1%	22.56	23.00	0.44	67518	<0.002
				23.76 Fol° @ 52°							
							23.00	24.00	1.00	67519	0.002
				* Overall sulphide content appears to be increasing with approx 1% fine po, py and asp within the metasediments.							

AURUM GEOLOGICAL CONSULTANTS INC. DIAMOND DRILL LOG HOLE No. CC-88-1 Page 4 of 13

Property	NTS	Claim	Elevation	Azimuth	Length	Dip
Coordinates	Dip Tests	Advance	Depth	Date Collared	Date Completed	
Purposes	Drilled by			Assays by	Logged by	

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
24.18	24.28			Irregular blebby cm scale qtz infillings, abundant limonitic fractures 1-2% py and asp	1%	<1%	24.00	24.50	0.50	67520	0.002	
25.00	25.20			mm scale qtz bleb microfracture along LCA to 2% Aspy concentrated in it and the surrounding host rock		2%	24.50	25.50	1.00	67521	0.014	0.478 gm
				cm scale blebs of fine crystalline qtz irregular discontinuous veins with 2-3% py,po and minor aspy concentrated along stringers and in blebs within the qtz	2-3%		25.50	25.78	0.28	67522	<0.002	
							25.78	27.00	1.22	67523	<0.002	
@ 26.00				microfractures is associated aspy and py mineralization								
27.70				fault @ 47°								
							27.00	28.23	1.23	67524	<0.002	
28.23	28.60			.5cm wide qtz asp-py-tour vein @ ~ 5° to LCA, 1% pyrite, 1% Aspy minor leucoxene noted - pale creamy yellow mm scale blebs.	1%	1%						
							28.23	28.60	0.37	67525	0.003	
29.26	29.80			mm scale qtz-aspy veinlet @ very shallow angle, Asp core in vein and in cm halos disseminated within sediments		2%	28.60	29.26	0.66	67526	<0.002	
						2%	29.26	30.30	1.04	67527	0.027	0.926 gm
							29.30	30.30	1.00			
30.30	30.50			1cm wide qtz-asp-py veins @ shallow core angle, aspy in mm-cm scale blebs, qtz is granular, minor leucoxene noted	1%	2%	30.30	30.50	0.20	67528	0.004	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As.	Interval From	Interval To	Core Width	Sample No.	Au oz/t
				30.78-31.02 3cm w.dr qtz vein @ 23° to LCA							
				"4% coarse aspy concentrated along selvages		1-4%	30.50	31.10	0.60	67529	0.002
				1% noted in fractures related to the vein)							
				31.02 - 32.10 ~ 2 microfractures/meter with aspy							
				and py concentrated along them.		1%	31.10	32.10	1.00	67530	0.006
				weakly silicified in minor qtz blebs							
				32.30-32.66 4 mm scale qtz aspy veinlets - fracture							
				infilling, predominantly @ shallow core		2%	32.10	32.70	0.60	67531	0.003
				angle and sub-parallel to f/f.							
				mm-cm scale aspy angular blebs							
				chlorite + biotite clots in vein near							
				metasediment selvage			32.70	34.20	1.50	67532	<0.002
				mm scale white rolled qtz grains							
				in cm scale bands							
				33.80 Metasediments appear to be more							
				strongly foliated @ 46°, vitr							
				depth.							
				34.70 - 34.85 cm scale irregular blebby qtz, subparallel							
				to foliation associated muscovite and			34.20	35.85	1.65	67533	<0.002
				chlorite blebs, minor sulphides.							
				35.85 - 36.60 Abundant limonitic fractures, mm scale							
				rusty halos in metasediments,			35.85	36.60	0.75	67534	0.006
				36.60 - 42.62 Silicified ~4 cm scale irregular							
				qtz stringers per meter, granular			36.60	37.60	1.00	67535	0.004
				limonitic qtz, abundant limonitic			37.60	38.60	1.00	67536	<0.002
				microfractures, m-scale sections							
				are blocky + broken w/ blebs of			38.60	39.60	1.00	67537	<0.002
				qtz biotite and chlorite. Pyrite irregularly.							

AURUM GEOLOGICAL CONSULTANTS INC. DIAMOND DRILL LOG HOLE No. CC-88-1

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
				36.60 - 42.62 Cm.f.			39.60	40.60	1.00	67538	<0.002	
				the alteration is strongly developed - sericitic, qtz and biotite rich cm scale bands. <1% sulphides	1/.							
							40.60	42.20	1.60	67539	<0.002	
				39.50 fol^n @ 58°								
				42.36 4 cm wide qtz veins highly fractured w limonitic staining, discontinuous, subparallel to fol^n, minor assoc sulphides @ 1%	1/.		42.20	42.63	0.43	67540	<0.002	
							42.63	44.00	1.37	67541	<0.002	
				44.50 Contorted fol^n - tight isoclinal folding								
				45.50 mm scale qtz stringers @ low core angle - no assoc sulphide, muscovite assoc near stringers			44.00	45.20	1.20	67542	<0.002	
				46.27 - 47.30 Weakly silicified bleached, with rusty staining, limonitic fractures, irregular - 1/2 cm scale qtz blebs - discontinuous veins <1% assoc sulphide.	1/.		45.20	46.27	1.07	67543	0.007	
							46.27	47.30	1.03	67544	0.002	
				47.50 fol^n @ 47°								
				47.60 - 47.90 Siliceous band, medium grey fine equigranular texture - homogeneous			47.30	48.80	1.50	67545	0.004	
				47.15 - 47.35 3 cm scale qtz veins subparallel to fol^n strongly fractured and limonite stained, fine anhedral granular qtz, muscovite blebs near selvage, little sulphide noted.			48.80	50.06	1.26	67546	<0.002	
				49.50 - 49.90 2 assemyale filled microfractures @ shallow core angles ~ 35° to fol^n, cross cutting each other, overall 2% Aspy		2/.	50.06	50.48	0.42	67547	0.021	0.72 gm
							50.48	52.00	1.52	67548	0.003	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	P/P	As	Interval From	Interval To	Core Width	Sample No.	oz/t Au	gm/t
				52.00 - 53.50 minn copy filled microfractures @ shallow one angle			52.00	53.50	1.50	67549	0.053	1.82
							53.50	54.80	1.30	67550	0.016	0.55
				55.34 – 56.37 Silicified + bleached + limonitic staining, fractured + limonitic halos in surrounding sediments on scale - bands of fine homogenous siliceous metasediments			54.80	55.84	1.04	67551	0.002	
				minor black patches - possibly Mn staining locally up to 1% Aspy and py assoc + qtz veining		17	55.84	56.72	0.88	67552	0.003	
				56.72 – 56.88 fine granular qtz vein - minor limonite staining, fractured near selvages minor sulphides noted top contact @ ~ 30°, bottom contact subparallel to foln			56.72	56.88	0.16	67553	<0.002	
				58.54 - 58.59 2 limonitic qtz veins subparallel to foln @ 58° - cm scale no assoc mineralization			56.88	58.38	1.50	67554	<0.002	
				59.00 copy filled micro fracture @ 34° same orientation as foln ~1-2mm wide, extremely limonitic		121	58.38	59.40	1.02	67555	0.022	0.75
							59.40	60.90	1.50	67556	<0.002	
61.50	71.75			61.50 – 71.75. Contorted metasediments - folded and highly fractured, local bleached cm - m scale sections, ~2cm scale siliceous qtz veins / veins + silicified metasediments, abundant limonitic micro fractures (irregular), highly contorted metasediments assoc w/ qtz veining			60.90	61.50	0.60	67557	<0.002	
							61.50	62.79	1.29	67558	<0.002	
							62.79	63.70	0.91	67559	<0.002	
				61.60 →								

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As	Interval From	Interval To	Core Width	Sample No.	Au oz/t
				61.50-71.75 Cont. <1% sulphides, minor concentrations with qtz veining, cm scale, siliceous - mod-light grey fine grained bands (qtz rich)	<1%						
				62.19 → 1 5cm wide qtz vein @ 67° subparallel to foliation, mm scale muscovite inclusions							
				63.70-71.75 mod-strongly silicified, bleached to a dusty buff, qtz veins - (cm scale) appear to be at low low angles subparallel to foliation also blebs and stringers of qtz (mm-cm scale) in disturbed metasediments			63.70	64.70	1.00	67560	<0.002
							64.70	65.70	1.00	67561	<0.002
							65.70	66.70	1.00	67562	<0.002
							66.70	67.70	1.00	67563	<0.002
				67.00 → contorted enclaves							
				Wisps of sericite in grey/tan qtz rich bands			67.70	68.50	0.80	67564	0.002
				mm Mn staining - black irregular mm-cm scale patches assoc. w/ qtz veining							
				68.58-68.86 ~1% very fine disseminated aspy		1%	68.50	68.98	0.48	67565	0.005
				70.50-71.00 - blocky to broken core - limonitic <1% pyrite on fracture planes			68.98	70.00	1.02	67566	0.002
							70.00	71.40	1.40	67567	<0.002
							71.40	71.75	0.35	67568	0.003
				@ Contact, irregular 1.5cm wide white sucrosic quartz vein to <1% Aspy in blebs		<1%					

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	Ap	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au g/t
71.75.	81.75	100%		Granodiorite (Porphyritic)								
				massive to very weakly foliated								
				medium grey, medium grained, fine grey quartz								
				and feldspar rock. Groundmass is mm scale	.5%	.5%	71.75.	72.75.	1.00	67569	0.002	
				rounded quartz, subhedral orthoclase, hornblende								
				partially altered to biotite and slightly larger								
				white subhedral plag phenocrysts. The			72.75	74.00	1.25.	67570	0.002	
				concentration of phenocrysts to varies from								
				none to ~10%, they can be up to 1cm,								
				relatively homogeneous unit. Limonitic - Mn stained								
				fractures relatively fresh unit.								
				1% disseminated fine pyrite. Very weak reaction in								
				HCl, carbonate on fracture planes								
				74.50 - 75.80: more than 10 irregular limonitic fractures.								
				Inconsistently to 6% up to 1cm wide limonitic			74.00	74.70	0.70	67571	0.002	
				alteration halos. 1% blebby black (Mn) coms.								
				74.6: 2cm wide greyish white quartz vein								
				@ 26°								
				limonitic								
				74.80 ^ fracture @ 40° with up to a cm		4%	74.70	75.00	0.30	67572	0.029	1gm
				wide sulphide rich alteration halo.								
				coarse blebs & aggr. up to 20% in cm								
				wide band.								
						1%	75.00	76.50	1.50	67573	0.005	
				76.95 - 77.20 blocky core - ground up by								
				drill bit			76.50	78.00	1.50	67574	0.002	
				77.50. rusty grey quartz vein 2cm wide								
				@ 41° 1cm wide rusty zone in			78.00	79.50	1.50	67575	0.002	
				wallrock.			79.50	81.00	1.50	67576	0.004	
							81.00	81.75	0.75.	67577	<0.002	
				Irregular lower contact - crevice - appears to								
				be @ 55°, subparallel to foliation								

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As	Interval From	Interval To	Core Width	Sample No.	Au oz/t
				Altered - Sericitic + limonitic							
81.75	101.80	85-100%		Metasediments - Metagreywacke dirty quartzite similar to 2.34 - 71.75, except not altered well foliated granular fair 2) comment rounded quartz grains, very sericitic, med - dk grey 2) limonitic bands - cm and mm scale. <1% sulphides - finely disseminated + conc on fracture planes, extremely foliated and weakly contorted right to next to contact M scale limonite altered sections - irregular folded quartz sweats - lenses and veinlets is sericite and biotite wisps in part folded and contorted, rusty and dk grey bands.	<1%						
				82.00 - 101° @ 50°			81.75	82.50	0.75	67578	<0.002
				82.80 - Locally weakly silicified, abundant (stockwork) of limonitic micro fractures, sericitic wisps - locally cm scale contorted + folded sections micro <1% Sulphides noted	<1%		82.50	83.50	1.00	67579	<0.002
				83.50 Very limonitic, fractured + contorted			83.50	84.50	1.00	67580	<0.002
				83.80 83.90 Argillically altered - clay packed core - poor recovery							
				84.50 - 85.95 <1 cm scale quartz sweats - lenses + folded bands in contorted metased.							
				85.00 - 85.20 Fractured limonitic quartz vein - irregular contacts - irregular blebs of limonite altered sericite (altered + veined) - no sulphide concentration			84.50	85.50	1.00	67581	<0.002
							85.50	87.00	1.50	67582	<0.002
				86.00 101 @ 48°			87.00	88.50	1.50	67583	0.006

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	P/P	As.	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au g/t
				88.30-88.98 Light grey homogeneous relatively fresh m.t. Quartzite, fine equigranular texture			88.50	88.98	0.48	67584	0.003	
				89.30 micro-fracture @ 16° cross cutting foliation ages along at ± 1mm wide, ± 1-2% by the surrounding host rock	1-2%	2%	88.98	89.50	0.52	67585	0.010	0.34
				89.40-89.50 broken altered sericitic core, strong rusty weathering, clay rich			89.50	91.00	1.50	67586	0.003	
				89.80-90.00 Same as above			91.00	92.50	1.50	67587	0.007	
				90.32-90.92 Same as above								
				93.38 foliation @ 55° mm scale discontinuous siliceous qtz stringers subparallel to foliation								
							92.50	93.72	1.22	67588	0.005	
		90%		93.72-95.30 Bleached to a rusty grey buff slight pinkish hue predominantly quartz + sericite rich, well fractured except cm scale bands that are very siliceous - qtzite ± 2 cm scale qtz veins per meter - irregular trace sulphides blocky & broken core - moderate weathering			93.72	94.80	1.08	67589	0.002	
							94.80	95.80	1.00	67590	<0.002	
				95.80-99.96 Rusty coloured meta sediments - predominantly quartzite, highly fractured, micro qtz stringers ± mm-cm scale - lensoid - bedding not fully fine folded cm scale			95.80	97.30	1.60	67591	0.011	0.38
							97.30	98.80	1.50	67592	0.002	
				interval is finer grained - moderately ± 5% sulphides predominantly py, strong hydrothermal @ ± 60°	< 5%		98.80	99.96	1.16	67593	0.005	

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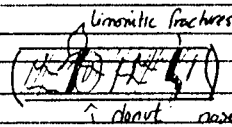
Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
				most common fracture sets @ shallow core angles and subparallel to foliation
99.96	100.40			buff to white - quartzite - pure qtzite most well rock is sericitic phyllonite >5% mm - cm scale white plag - argillically altered abundant microfractures - w limonitic halos up to 1 cm - very irregular mottled appearance buff & rusty box work
				@ 101.00  foliation @ 54°
101.80	108.31			FAULT GOUGE
				Rusty to light grey green, sericitized - in places resembles a sericite schist highly fractured and limonite stained, extremely friable - broken core - clay altered (argillic) oxidized & brecciated quartz stringers - quartz is a grey to blueish white mm & cm scale lenses and oxidized fragments - boudinaged <.5% Sulphides - predominantly pyrite, both sup to 1% fine gr on fracture planes assoc w quartz veining.
		50%		102.20 - 106.85 @ 50% recovery extremely friable argillically altered, sericite and quartz rich schist with limonitic clay.

Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
99.96	100.90	0.94	67594	0.003	
100.90	101.80	0.90	67595	<0.002	
101.80	102.20	0.40	67596	0.013	0.45
102.20	103.70	1.50	67597	0.004	
103.70	105.20	1.50	67598	0.003	
105.20	106.85	1.65	67599	0.002	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
		80%		106.05 - 107.25 ~80% recovery abundant quartz lenses rolled & brecciated, quartz is a med bluish grey to ~ brownish green sericitic infillings and wisps
		50%		107.25 - 107.59 Extremely friable, argillically altered sericitic ± limonitic clay ~ 50% recovery
		95-98%		107.50 - 108.61 Relatively competent core, minor argillic alteration strongly foliated @ ~ 60° Sericitic limonite stained schist ± minor mm scale rolled quartz grains
		60%		108.61 - 108.81 Limonitic clay ± mm + cm scale fragments of host rock, poor recovery had to stop hole due to loss of water pressure in fault, rods were sticking
				E.O.H @ 108.81 lost hole in fault Gouge.

Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
106.35	107.59	0.74	67600	0.012	0.41
107.59	108.81		67601	0.002	

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Property Clear Creek	NTS 115P 14	Claim Rum 14	Elevation 1755 55m	Azimuth 125°	Length 193.85m	Dip 45°	
Coordinates 35+98N, 35+53E	Dip Tests @ 193.85 → 48°	Advance 134.00m	Depth 140.30m	Date Collared Aug 12 88	Date Completed Aug 16		
Purposes To intersect the dyke and Fault zone, drill under a soil anomaly (up to 3780ppb Au)		Drilled by Tonto		Assays by Chemex/Cleveland	Logged by SPR		

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Interval From	Interval To	Core Width	Sample No.	oz/t Au g/t
0	7.62			Overburden					
7.62	26.85			Mafic sediments medium dark grey to limonitic fractures and local cm scale limonitic bands medium to fine grained, well foliated, predominantly cm scale white grey quartz & feldspar grains in a biotite chlorite + sericite rich groundmass, local cm scale sections of fine grained quartzite relatively pure, also irregular lenses and cm scale bands of coarser grained dark grey, duly graphitic in mm scale plag grains - almost resembles an intermediate f.g. intrusive, No reaction in HCl, minor irregular quartz filled micro fractures <1% pyrite finely disseminated & smeared on foliation + fracture planes minor shear structures noted between 1cm and occasional intervals @ shallow core angle.					TOTAL - 158 SAMPLES
					7.62	9.00	1.38	67602	<0.002
				9.00 - 10.00. Very blocky & broken core limonite altered	9.00	10.00	1.00	67603	0.032 opt ± 10 gm
				12.50 Fol° @ 54°	10.00	11.50	1.50	67604	<0.002
				13.05 - 13.20 Dark grey block · mafic well foliated Bent - chloritic	11.50	13.00	1.50	67605	<0.002
					13.00	14.50	1.50	67606	<0.002

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	P/A	As.	Interval From	Interval To	Core Width	Sample No.	Au oz/t
							14.50	15.50	1.00	67607	<0.002
				13.80 - 16.55 Contacted with very irregular bleaching mm - cm scale bands of metasediments pulled to shallow core angles @ 14.40	4/		15.50	16.55	1.05	67608	<0.002
				16.55 - 26.85 locally Schistose crystal texture to laminated - Mostly fg quartz rich limonitic unit (altered quartzite) abundant fine annulated cm scale intervals in mafic wisps making folding + deformation structures cm scale cg sections in mafic groundmass + mm scale white patches of quartz + feldspar sharp irregular contacts - with flame structures @ 2/metre. 4/ 4/ pyrite - locally up to 1% some on micro fractures 17.00 1st @ 63°			16.55	18.00	1.45	67609	<0.002
							18.00	19.50	1.50	67610	0.002
				1 19.52 - 19.58 - Altered gouge - clay rich limonitic & sericitic band - very friable.			19.50	21.00	1.50	67611	<0.002
				21.00 - 21.00 Muscovite altered host rock - surrounding micro fractures 21.82. 15cm aplite @ 68° cross cutting fine 1st @ 55°.							
							21.00	22.50	1.50	67612	0.004
				23.00 - 26.85. Abundant limonitic microfractures predominantly @ shallow core angles + coincident with foliation, also cm scale discontinuous irregular bands - lenses - foliated.			22.50	24.00	1.50	67613	0.002
							24.00	25.30	1.30	67614	<0.002
				25.55 mm scale qtz veins x cutting 1st @ 42° to 1/. Assay already scheduled.		1/.	25.30	25.80	0.50	67615	0.007

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po %	Interval From	Interval To	Core Width	Sample No.	Au oz/t
						25.80	26.85	1.05.	67616	0.007
				26.00 Fol^n @ 63°						
26.85	29.08	98%		26.85 - 29.08 Aplite Dyke, massive fine quartz rich aplitic unit - light greyish buff, minor mafic mm - cm scale patches in part that are attributed to metasediment fragments, and mm scale minerals - (pseudomorphs) along fractures microfracture commonly have muscovite assoc w them, minor sulphide noted. cm scale qtz rich patches - fractured + reworked veins		26.85	28.00	1.15	67617	<0.002
						28.00	29.08	1.08	67618	<0.002
29.08	39.20	100%		Mod dark grey competent fresh metasediments, well foliated meta-greywacke - biotite quartz albite mica-schist, minor fracturing ± muscovite alteration mm-cm wisps ~1% fine pyrite ± po conc on microfractures - locally up to 2%		29.08	30.08	1.00	67619	0.003
						30.08	31.06	0.98	67620	<0.002
				31.06 - 31.26 Sulphide rich band ± cm scale qtz lenses - white to grey granular quartz, mm scale wisps - blebs of pyrite - po ~ 5% py + 5% po	10%	31.06	31.26	0.20	67621	0.003
						31.26	32.30	1.04	67622	<0.002
						32.30	33.80	1.50	67623	<0.002
				32.50 Fol^n @ 58°		33.80	35.30	1.50	67624	0.005
				38.40 Fol^n @ 56°		35.30	36.80	1.50	67625	0.006

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As	Interval From	Interval To	Core Width	Sample No.	Au g/t
				39.20							
				36.65. 3cm wide limonitic friable banded sericite + chlorite rich			36.80	38.30	1.50	67626	<0.002
39.20	110.00	18%		Visibly Altered Banded Metasediments							
				Alternating cm + dm scale greywacke + quartzite, abundant qtz + limonite filled micro fractures, locally weakly silicified quartzite bands are light beige to buff, fine grained texture and black limonite staining, the meta greywacke bands are med to dark grey with rusty fractures and speckled salt + pepper appearance where there are mm scale qtz + plag grains this unit is strongly chloritized + foliated interbeds, <5% sulphides locally up to 1% py in mm + po			38.30	39.80	1.50	67627	<0.002
							39.80	41.10	1.30	67628	0.006
				40.00 mm-cm irregular aplite veinlets			41.10	42.10	1.00	67629	0.007
				42.50 fol° @ 57°							
				42.20 <cm wide qtz vein // to fol° @ 67°							
				42.20 - 42.60 <1% Asy core on micro-fractures		1%	42.10	42.70	0.60	67630	<0.002
							42.70	44.20	1.50	67631	<0.002
							44.20	45.70	1.50	67632	<0.002
				47.45-47.75. cm scale quartz-mass vein - irregular discontinuous, mm scale diff-zls on micro fractures			45.70	47.20	1.50	67633	<0.002
				48.00. fol° @ 50°			47.20	48.70	1.50	67634	<0.002
				49.26 - 2cm wide buff aplite @ 48° x-cutting fol°			48.70	50.20	1.50	67635	<0.002

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As	Interval From	Interval To	Core Width	Sample No.	Au gm/t
				51.10 - 51.35 Irregular mm scale qtz/mus/feldspar veinlets to hematitic fracture surface ± fibrous radiating clean crystals - 10% soft - pyrophyllite ??			50.20	51.70	1.50	67636	<0.002
							51.70	53.20	1.50	61637	<0.002
				52.30 1 cm wide greyish white fractured qtz vein @ 20° ± foliation			53.20	54.70	1.50	67638	<0.002
		80%		52.60-52.85 highly fractured ± limonitic staining. mod recovery							
				53.80 Col° @ 60°							
		100%		54.70-66.70 Predominantly highly foliated meta-greywacke w micro cm scale bands of [illegible] quartzite, competent core, good recovery, dark grey green limonitic fractures - concordant to fol° and x cutting, overal - blurred texture micro visable quartz & feldspar grains, homogenous f.g. sericite-chlorite - biotite quartz schist micro irregular blebby quartz muscovite veinlets and lenses .5-1% pyrite - finely disseminated & concentrated on micro fractures & fol° planes	.5-1%		54.70	56.20	1.50	67639	[illegible]
							56.20	57.70	1.50	61640	<0.002
							[illegible]	[illegible]	--		
							--	--	--		
							[illegible]	[illegible]			
				57.00 Col° @ 54°							
				59.10 2 cm wide qv @ 30° in some orientation no tre fol°, fracturing ± limonite staining, no assoc mineralization			57.70	59.20	1.50	67641	0.004
							59.20	60.70	1.50	67642	<0.002
							60.70	61.70	1.00	67643	<0.002

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As.	Interval From	Interval To	Core Width	Sample No.	Au oz/t
				62.80 - 62.90 Irregular x-cutting fractures in pyrite along trends in 1%, limonite β(1) @ 56°	1%		61.70	62.50	0.80	67644	<0.002
							62.50	63.00	0.50	67645	<0.002
				63.00 - 66.70 Increase in limonite ± muscovite micro-fractures, locally up to 1% by conc on fracture planes, minor hematitic fractures in fine crystal-radiating soft ?? pyrophyllite	.5-1%		63.00	64.50	1.50	67646	<0.002
							64.50	65.50	1.00	67647	<0.002
							65.50	66.70	1.20	67648	<0.002
		100%		66.70 - 68.10 Silicified / Predominantly quartzite mottled - patchy medium to light grey ± rusty tones, bleached texture abundant limonitic fractures, mafic wisps most convoluted (limonitic micro fractures)	<.5%		66.70	68.10	1.40	67649	<0.002
				over dm scale intervals - Disordant qtz blebs - Veinlets mm-cm scale @ 3/meter, <.5% sulphides							
		90-95%		68.10 - 69.80 Sericite altered metasediments bleached to a light grey buff limonite ± clay on micro fractures, moderately friable mm scale distributed quartz veinlets - boudinaged and off-set by micro-fractures @ 5/meter <.5% sulphides, weakly argillically altered β(1) @ 56°	<5%		68.10	69.00	0.90	67650	<0.002
							69.00	69.80	0.80	67651	<0.002
		...		69.80 - 70.30 Weakly altered f.g. Granodiorite light grayish grey f.g. equigranular, minor white plag <mm scale crystals, ~2% biotite in <1mm crystals, limonitic fractures, sericitic weak argillic alteration mm scale rusty weathered rind, trace sulphides. Sharp lower contact @ 50°			69.80	70.30	0.50	67652	<0.002

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As	Interval From	Interval To	Core Width	Sample No.	Au oz/t
		100/		70.30 – 70.74 Sericitic quartzite. Highly fractured w/ limonite on fracture planes bleached haloes (mm scale) and fine fractures. - irregular light to med not grey, trace sulphides			70.30	70.74	0.44	67653	<0.002
				70.74-74.10 Extremely friable fault Gouge. brecciated quartzite - mm-cm scale angular fragments in a limonitic clay matrix, no competancy - breaks apart in one hands.			70.74	72.00	1.26	67654	<0.002
							72.00	73.00	1.00	67655	<0.002
				Minor qtz mus veins - irregular orientations.			73.00	74.10	1.10	67656	<0.002
				Yellowish staining - Sericite - suggests presence of Asp, minor sulphides recognized in more competant dm intervals - up to 3% py (disseminated) was noted.	1%						
				74.10 – 77.70 Moderately friable metasediments 50% competant core, abundant limonite fractures - also yellowish staining, mus - bio - ser - qtz schist, mica mm-cm scale qtz lenses - pods. FOLA @ 75.50 m @ 56°			74.10	75.60	1.50	67657	<0.002
							75.60	76.40	0.80	67658	<0.002
				76.35 4cm wide aplite @ 50° x cutting fol°. granular qtz - feldspar rich, greenish white, minor mm scale blebs of as noted <.5%		<.5%					
				metaseds here are folded + contorted.							
				76.35 – 78.70 2% po + py in blebs stretched along fol°, metasels are coarse - mm scale locally up to	2%		76.40	77.70	1.30	67659	<0.002
				white pegs - qtz grains, within fine mafic groundmass. incomplete scale sections for quartzite							

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As	Interval From	Interval To	Core Width	Sample No.	Au oz/t
				77.70 - 79.40 Silicified predominantly quartzite light grey in ltgmnt fracture, discontinuous qtz veins + blebs n 3/metre · ffs set by fractures, 1% po, py + asp in local concentrations up to 2% · extremely fg, disseminated	1-2%		77.70	78.20	0.50	67660	0.003
				78.20 - 78.40 3 cm scale irregular discontinuous qtz veins with 1-2% As in blebs and 1% po · py in surrounding host rx yellow halos around some black mineral ??		1%	78.20	78.40	0.20	67661	0.003
				and assay (sericite alteration ? sulphur ?)			78.40	79.40	1.00	67662	0.003
				79.40 - 88.69 Contorted Metasediments - predominantly bio-ser-musc - qtz schist folded + contorted, competent rx in moderate to micro limonitic fractures 1% fine disseminated po-py locally up to 2% in more mafic intervals	1-2%						
				80.14 - 80.38 Irregular fg granodiorite dyke weakly altered - sericitic, plagy altering to muscovite, small · mm scale black trigonal mineral - resembles sphene or ilmenite ?? <5%	2%		79.40	80.90	1.50	67663	0.019
				surrounding metaseds have 2% sulphides largely po ± micro py							
				80.03 - 81.70 1-2cm qtz vein @ 23° w/ some orientation @ 151° @ 63° micro blebby py in vein, 2 irregular folded mm scale veinlets, surrounding metasede have up to 1% fg pyrite - 3% po in blebs stratiform along 61°. 80.27 - 81.29 up to 8% sulphides - predominantly py w/ less po, micro qtz + coarse blebs			80.90	81.70	0.80	67664	0.003

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
				81.90-82.03 Irregular fg aplite greenish white
				82.03-82.30 Mafic-int dyke in cm scale blebs & qtz contact @ 26° some orientation as foln lower contact at approx the same angle
				highly contorted metasedts @ 82.30
				From 83.00- metasediment as coarser grained, mm discreet mm scale plag + qtz grains
				84.90-85.15 Dark grey, black fg. homogenous massive band ± up to 10% fg po-py contacts subparallel to foln @ 64° the sulphides are extremely fresh, disseminated
				86.87-87.37 limonitic clay - fault gouge - poor recovery
				87.47-87.00 blocky bleathered
				83.50 fol° @ 54°
		90%		83.69-91.44 Friable limonitic metasediments to extremely limonitic, sericitic quartzite and greywacke blocky - broken core
				More Competent Metasedts
		95%		91.44-110.00 Alternating cm scale bleached sericitic quartzite & bio chl qtz schist abundant limonite fractures - highly contorted, <.5% sulphides - minor mm scale qtz veinlets

Interval From	Interval To	Core Width	Sample No.	Au oz/t
81.70	83.00	1.30	67665	0.004
83.00	84.00	1.00	67666	<0.002
84.00	84.90	0.90	67667	<0.002
84.90	85.15	0.25	67668	<0.002
85.15	86.87	1.72	67669	<0.002
86.87	87.37	0.50	67670	0.004
87.37	88.69	1.32	67671	<0.002
88.69	90.00	1.31	67672	<0.002
90.00	91.44	1.44	67673	0.002
91.44	93.00	1.56	67674	<0.002
93.00	94.50	1.50	67675	<0.002

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au (ppb)
		90%		91.73 - 95.50 Friable blocky bleached core limonitic, minor clay; weakly brecciated			91.50	96.00	1.50	67676	0.009	
		80-90%		96.30: fold @ 60°								
				96.73 - 100.90 Similar to above - friable blocky-broken core			96.00	97.50	1.50	67677	0.008	
							97.50	99.00	1.50	67678	0.004	
							99.00	100.00	1.00	67679		
				100.90 - 110.00 Competent core, predominantly sericite-quartz bx Schist (sericite) abundant limonitic fracturing @ shallow core angles <5% sulphides	<5%		100.00	100.90	0.90	67680		
							100.90	102.40	1.50	67681	< 0.002	
							102.40	103.40	1.00	67682	< 0.002	
				102.00 fold @ 61°								
							103.40	104.20	0.80	67683	< 0.002	
				104.20 - 105.65 Weakly bleached - silicified contacts, abundant sericite + limonitic micro fractures. Sericitized, 3 cm scale irregular qtz veins								
				104.66 4cm wide rusty fractured grey qtz vein @ 26° with 1% py and 1% As	1%	1%	104.20	104.90	0.70	67684	0.021	719 ppb
				with mm scale crystals + blebs within + along selvages, sericitic - limonitic fractures into qtz			104.90	105.65	0.75	67685	0.023	793 ppb
				* 105.65 - 106.25: Lamprophyre dyke dark grey fg intrusive w < mm scale plag + biotite crystals. Limonitic fracturing, minor As noted along fractures, <1% disseminated po. Sharp irregular contacts @ shallow core angles		<1%	105.65	106.25	0.60	67686	0.003	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As	Interval From	Interval To	Core Width	Sample No.	Au ppb	Au opt
				108.00 fol^n @ 60°			106.25	107.50	1.25	67687		0.006
				108.50 - 109.10 Weakly sil'd & bleached w/ 5 < 1 cm scale qtz veins both concordant & discordant w/ fol^n abundant x-cutting limonitic fractures	1-2%		107.50	108.50	1.00	67688	<0.002	
							108.50	109.10	0.60	67689	0.005	
				~ 1-2% py both in veins & disseminated in surrounding matasedo			109.10	110.00	0.90	67690	<0.002	
110.00	121.70			fg (porphyritic) Granodiorite dyke massive med light grey w/ rusty buff dm scale intervals. fine grained groundmass w/ subhedral flecks of biotite (altered mafics) ~ from 0-5%, mm scale white plag sub to anhedral phenocrysts - crystal edges have been bleached - weakly altered weak greenish hue - caused by weak sericite alteration.							11.0	1/4
				abundant x cutting limonitic fractures with limonite stained halos up to 1cm out from fracture			110.00	111.50	1.50	67691	21.0	
				.5% py + .5% As disseminated throughout up to 2% As concentrated on micro fractured	.5%	.5%	111.50	113.00	1.50	67692	152.0	
				very weak reaction w/ HCl, minor carbonate on micro-fractures.			113.00	114.60	1.60	67693	193.0	
		90%		114.60 - 115.70 Friable - broken core, abundant limonitic fractures, saussuritized, weak argillic alteration, pale yellowish green coloration, mm-cm scale x-cutting qtz veinlets 1% sulphides same py/As	.5%	.5%	114.60	115.70	1.10	67694	316.0	
							115.70	116.70	1.00	67695	500.0	0.014
							116.70	117.85	1.15	67696	214.0	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Interval From	Interval To	Core Width	Sample No.	Au in ppb.
		98 tot.		117.85 - 120.40 Saussuritized + weakly argillically altd bleached light yellowish green colour, mm scale plag phenos are altered to clay, moderate clay limonitic micro fractures - relatively competent	117.85	119.00	1.15	67697	48.0
					119.00	120.40	1.40	67698	71.0
		90		120.40 - 121.70 friable broken core, strong argillic alteration, bleached to a light yellowish white	120.40	121.70	1.30	67699	12.0
121.70	148.40			Altered Metasedimentary - blocky core, very friable banded appearance, abundant contorted & boudinaged qtz stringers, with dark grey wall rock & contorted metasedi - sch - qtz - bio - schist, occ dm scale intervals fine qtz veining more broken brecciated, vuggy + highly fractured with sericite rich wisps & infilling around brecciated metasedi + quartz fragments.	121.70	122.70	1.00	67700	170.0
				122.70 - 124.14 Silicified quartzite light grey to beige, fine grained texture (bleached), abundant irregular white cm - mm scale qtz veinlets dark grey micro fractures with pyrite concentrated on them - 2% disseminated pyrite with up to 5% in higher fractured sections - @ 123.25m - 8mm wide pyritic fracture @ a shallow the angle. upper contact @ 45° lower contact @ 56°	122.70	123.45	0.75	67701	105.0
					123.45	124.14	0.69	67702	166.0
				124.20 Qtz ∆ @ 62°					

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION			Interval From	Interval To	Core Width	Sample No.	Au in ppb
				124.14 - 124.34 creamy white mm scale irregular shaped argillically altered feldspar grains - overprint foliation late stage porphyroblasts??			124.14	124.95	0.81	67703	2000
		80-90%		124.95 - 137.76 Very friable broken core - poor recovery, strongly foliated & brecciated, clay & sericite altered, limonite & sericite microfractures.			124.95	126.50	1.55	67704	88.0
							126.50	128.00	1.50	67705	12.0
							128.00	129.00	1.00	67706	5.0
							129.00	130.00	1.00	67707	3.0
				130 - 133.50 Quartzite (silicified) mica quartz stringers (veinlets) sericite, fractures, pale greenish white very broken							
		10%		131.40 - 133.50 Muskeg core ground : very poor recovery	Muskeg		130.00	133.50	3.50	67708	1.0
							133.50	134.74	1.24	67709	3.0
							134.74	135.94	1.20	67710	34.0
				60% recovery			135.94	137.76	1.82	67711	76.0
		90%		137.76 - 143.20 Slightly more competent - cm scale sections of unbroken core alternating sericitic quartzite & metagreywacke, highly fractured & contorted, weakly bleached cm scale discordant white qtz veins, vuggy; brecciated 1cm scale intervals ~1% sulphides (py) Sericitization, argillic & limonitic alteration and fracturing parallel to CA @ 56°			137.76	139.00	1.24	67712	61.0
							139.00	140.50	1.50	67713	57.0
							140.50	142.00	1.50	67714	6.0
							142.00	143.20	1.20	67715	4.0

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As	Interval From	Interval To	Core Width	Sample No.	Au ppb.
		95-100%		143.20 – 148.40 Competent moderately contorted dgr sections, sporadic limonite fractures, weakly bleached sericitic dgr sections, predominantly mafic - acid xenoliths with minor 1% purple bands. <1% pyrite disseminated + veins + fracture associated. quartz bed contact @ 58° // to 61° offset 5mm by fractures @ 145.20 146.50 bdx @ 60°			143.20	144.70	1.50	67716	14.0
							144.70	146.20	1.50	67717	3.0
							146.20	147.40	1.20	67718	2.0
							147.40	148.40	1.00	67719	48.0
148.40	158.59	95-100%		Fine Grained Granodiorite (porphyritic) Lt gl rex speckled with fine < mm biotite laths and mics < 5% minor mm scale white plag phenos rounded to subhedral, diffuse boundaries, ~ mm to 10%, up to 20% rounded to square mm scale glz crystals texture varies from fg to coarse + porphyritic, up to 1%. Sulphides .5% py + .5% as disseminated, overall < 5% Relatively massive + competent, moderate lineation/ fracturing Similar to 110.00 – 111.70, no reaction w/ HCl.	.5%	.5%					
				148.40 – 149.66 friable + altered argillically altered plagioclase.			148.40	149.66	1.26	67720	67.0
				149.66 – 150.80 Saussaritized + limonite stained, abundant limonite fractures with offsetting of stalks, core angles; Argillically altered			149.66	150.80	1.14	67721	68.0

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As	Interval From	Interval To	Core Width	Sample No.	ppb Au	oz/t Au
							150.80	151.80	1.00	67722	48.0	
				152.70 - 158.59 - bleached to a pale yellowish green grey weakly saussuritized (minor argillic alteration).			151.80	152.70	0.90	67723	30.0	
							152.70	154.20	1.50	67724	86.0	
				154.27-154.50 2.5cm wide vuggy qtz vein @ 17°, black hard fault? has flooded + breccia'd qtz from outer 1/3 of the vein, 2% asy on one side of this band, <1% py	<1	2	154.20	154.60	0.40	67725	1180.0	0.034
				155.00 - 155.50 Similar to above, 5-1cm wide veins in black center, 2% 1% very fine pyrite, no asoy noted. Vein @ very similar core angle	1		154.60	155.60	1.00	67726	5000	0.014
				155.80 3cm wide qtz @ 49° 1st by 2m by shallow fracture			155.60	156.30	0.70	67727	30.0	0.000
				156.50 Similar to above qtz vein @ 20°, black center has 2% very fine pyrite	2		156.30	156.80	0.50	67728	5000.0	0.145
				156.80 - 157.75 Friable blocky core, weak argillic alteration, moderate > abundant limonite fractures.			156.80	157.75	0.95	67729	480.0	0.014
							157.75	158.59	0.84	67730	103.0	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As	Interval From	Interval To	Core Width	Sample No.	Au oz/T
158.59	n. rec	98 rec		Metasediments - predominantly meta greywacke.			158.59	160.00	1.41	67731	<0.002
				med-dark grey, well foliated with moderate to abundant Carbonate fractures, cm scale lenses & foliated-stained intervals. fine sericite + bio + qtz rich unit - semi schist, dm-m scale intervals of pale buff-cream coloured quartzite <5% disseminated Sulphides locally up 2% Py, Po competent, good core recovery, minor Mn staining aligned micro-fractures (psilomelane) alternating mm bands - mafic + qtz rich rare foliation parallel qtz lenses - indicate bedding stratigraphy 159.00 foln @ 56°			160.00	160.90	0.90	67732	0.008
				160.90 - 161.50 homogenous dark grey (black) f.g band is sharp contacts upper @ irregular @ ~90° lower @ ~70° bisilicic, minor sulphides noted, well foliated.			160.90	161.50	0.60	67733	0.008
							161.50	163.00	1.50	67734	0.004
							163.00	164.50	1.50	67735	0.002
							164.50	166.00	1.50	67736	<0.002
							166.00	167.50	1.50	67737	0.002
				166.00 foln @ 65°							
							167.50	169.00	1.50	67738	0.004
				168.36 - 168.00 4 cm-scale mafic bands similar to 160.90 - 161.50 they have sharp contacts that are sub parallel to foln							
				169.00 - 170.80 blotchy broken core, contorted + fractured metasedo, vuggy opened fractures.			169.00	170.00	1.00	67739	0.006
							170.00	170.80	0.80	67740	0.002
				170.80 - 171.33 highly fractured but competent micro qtz stringers ~1% bleaching concentrated along fractures @ a shallow core angle.		1%	170.80	171.33	0.53	67741	0.021 (7.19 opt)

AURUM GEOLOGICAL CONSULTANTS INC. DIAMOND DRILL LOG HOLE No. CC-86-2

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As	Interval From	Interval To	Core Width	Sample No.	OPT
				171.33 – 171.56 1cm wide greyish white qv @ 19°, with 1% py + 1/ As rich along its	1/		171.33	171.60	0.27	67742	0.019
				foln @ 64°			171.60	173.10	1.50	67743	0.004
				minor 1/1 py noted in surrounding	1/	1/	173.10	174.60	1.50	67744	0.002
				metards							
							174.60	175.73	1.13	67745	0.029
				175.46 175.73 Contorted + folded							
				175.73 – 176.63 Friable, weakly silicified sericitic		1/	175.73	176.63	0.90	67746	0.005
				quartzite, abundant limonite staining							
				along microfractures + vugs, minor disg trace							
				py, 1/1 bleb by mm scale aspy							
				noted assoc w 1 cutting qtz stringers							
				+ veinlets							
				177.13 – 177.73 Strong limonite staining, blocky to			176.63	177.73	1.10	67747	0.002
				friable, weak argillic alteration							
							177.13	179.20	1.47	67748	0.002
				178.50 foln @ 60°							
							179.20	180.40	1.20	67749	0.002
				177.73 – 183.76 up to 2% fg disseminated	1%						
				py + aspy, moderate to strongly argillic			180.40	181.40	1.00	67750	0.004
				competent, relatively fresh							
				181.40 – 182.36 Limonite stained + silicified,			181.40	182.36	0.96	67751	0.003
				weak argillic alteration, moderately							
				competent, abundant limonitic micro fractures			182.36	183.76	1.40	67752	0.003
				183.76 – 193.85 Alternating dm-m scale intervals							
				of fresh competent + foliated metards with			183.76	185.20	1.44	67753	0.002
				limonitic blocky, weakly silicified metards	1/2						
				with minor dm scale intervals of			185.20	186.70	1.50	67754	0.019
				buge quartzite, up to 2% fine disseminated							
				py + po, dm scale highly contorted							
				folded sections.							

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Interval From	Interval To	Core Width	Sample No.	OPT
				minor qtz stringers + rivulets	186.70	188.20	1.50	67755	0.006
				Sericitic bleached qtz musc semi schist, no pyrite					
				along some micro fractures - dendritic, very weak	188.20	189.70	1.50	67756	0.005
				reaction w HCl					
				181.00 fol^ @ 63°					
				190.05 – 190.45 light greenish beige-buff, sericitic quartzite	189.70	190.50	0.80	67757	0.002
				abundant x cutting limonitic micro fractures					
				mm scale qtz rivulets of set by micro fractures	190.50	192.00	1.50	67758	0.004
				(mostly sericitic)					
					192.00	193.85	1.85	67759	0.002
				193.85 fol^ @ 66°					
				193.85 EOH					

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Property Clear Creek	NTS 115P.14	Claim Rum 14	Elevation 1755.55m	Azimuth 025°	Length 193.85m	Dip 60°
Coordinates 35+98N 35+53E	Dip Tests 135.61/46 60°	Advance 78.10m	Depth 166.80m	Date Collared Aug 16	Date Completed Aug 21	
Purposes To drill under CC-89-2 & intersect the fault gouge & dykes	Drilled by TONTO	Assays by BONDAR CLEGG	Logged by SDR.			

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION (to determine the dip and extent of zone)	Interval From	Interval To	Core Width	Sample No.	oz/t Au g/t
0	4.49			OVERBURDEN					
4.49	73.00	98-100%		METASEDIMENTS. - (PREDOMINANTLY META-GREYWACKE + DIRTY QUARTZITE) medium to fine grained alternating cm-scale bands of well foliated dark locally garnetiferous dark grey biotite qtz - muscovite rich ~~metagreywacke~~ (mm-cm granular qtz in a biotite rich ground mass), locally mm scale qtz mosaic overprint the fol'n --> porphyroblasts?) with fine granular quartzite with local limonite staining and qtz veining (silicified). The clastic metased package has been fractured & contorted, grades/shifts to lower amphibolite metamorphism, <1% fg disseminated py + po locally up to 2% in the thicker mafic bands. predominantly dirty greywacke with quartzite mod well foliated bands ~~[illegible]~~ massive pure quartzite. cm scale lenses + bands of mafic rich greywacke ?? within the limonitic quartzite - irregular & discontinuous often off-set by micro fractures often Mn-oxide on micro-fractures					TOTAL 130 SAMPLES
				550 @ 71°					
				7.0-11.58 limonitic friable broken core, moderate recovery, mm qtz stringers, altered and deformed intervals.	6.00	7.50	1.50	67760	<0.002
					7.50	9.00	1.50	67761	<0.002
					9.00	10.80	1.80	67762	0.002
					10.80	12.80	2.00	67763	0.002
				12.80-15.10 limonite quartzite, more irregular cm scale qtz blebs + intrusive blebs (qtz-plag bx + more), weakly silicified	12.80	14.00	1.20	67764	0.002
					14.00	15.10	1.10	67765	0.028 959/06
					15.10	16.60	1.50	67766	0.002

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
				20.00 - fol @ 71°
				21.40 , 5cm granodioritic veinlet @ 30° → mfg mosc - plag - qtz + biotite rich
				22.00 → wavy fine stringers of mafics in buff - limonitic quartzite mark folding + contorted foliations w/ more otherwise massive looking intervals.
				26.87 - 30.50 Silicified quartzite, bleached to a light buff-tan, massive + competent, ~ 4% on scale grey qtz veinlets per meter - irregular but predominantly @ 50°, occasionally off-set by fractures
				29.60 → 2cm mafic granodiorite vein @ 13°, muscovite blebs, mfg, no mafic component
				33.50 fol @ 64°
				34.75 Qtz-carbonate-pyrite veins - cm scale the core is broken + blocky
				37.30 - 37.80 Vuggy limonitic fracture @ shallow core angle, irregular blebs + stringers of quartz, minor sulphides noted Unmistakable in surrounding host rx
				39.04 - 40.65 Silicified - predominantly quartzite light grey to buff, irregular blebby quartz + stringers ~ 4/meter minor sulphides noted
				41.50 → fol @ 37°
				42.35 - 44.30 Variably silicified ~ 5mm-cm scale qtz stringers - predominantly conformable @ fol @ 40° minor granodioritic fracture fillings @ shallow core angle, very broken + blocky

Interval From	Interval To	Core Width	Sample No.	Au oz/t
18.42	19.50	1.08	67767	0.002
22.25	23.16	0.91	67768	0.002
26.00	26.87	0.87	67769	0.003
26.87	28.00	1.13	67770	<0.002
28.00	29.25	1.25	67771	<0.002
29.25	30.50	1.25	67772	<0.002
30.50	31.50	1.00	67773	<0.002
34.00	34.65	0.65	67774	<0.002
34.65	34.95	0.30	67775	0.028
34.95	36.00	1.05	67776	<0.002
36.00	37.30	1.30	67777	<0.002
37.30	37.80	0.50	67778	0.003
37.80	39.04	1.24	67779	<0.002
39.04	40.65	1.61	67780	<0.002
40.65	41.65	1.00	67781	<0.002
41.65	42.35	0.70	67782	<0.002
42.35	43.35	1.00	67783	<0.002
43.35	44.30	0.95	67784	<0.002
44.30	45.30	1.00	67785	<0.002

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Pn	As	Interval From	Interval To	Core Width	Sample No.	oz/t Au
				47.80 60° @ 58°							
				52.05-52.50 2-15 cm whitish grey qv @ 20° to 60° @ 1% asPy		1%	52.05	52.50	0.45	67786	0.005
				53.34 25cm wide pale greenish cream aplite @ 48° x cutting 60° , muscovite rich			52.50	54.10	1.60	67787	< 0.002
		70%		54.10 - 57.43 Argillically altered metasedo. extremely friable & clay rich, sericite & muscovite on 60° planes, locally bleached grayish white with abundant limonitic fractures & flooding, poor recovery on wide brecciated vuggy clay rich fractures.			54.10	55.10	1.00	67788	< 0.002
							55.10	56.60	1.60	67789	< 0.002
							56.60	57.60	1.00	67790	< 0.002
				57.43 - 59.13 limonite stained, muscovite rich & weakly altered			57.60	59.13	1.53	67791	< 0.002
							59.13	60.23	1.10	67792	< 0.002
				59.13 - 59.60 Irregular g/g stringers & 1-2% po-py	1-2%		60.23	61.38	1.15	67793	0.006
				61.38 - 63.30 Irregular quartz + intrusive (granodiorite) veins @ shallow core angle & no blebs & stringers, abundant sericite & limonitic fractures. < 5% sulphides noted (asPy)		< 5%	61.38	62.38	1.00	67794	< 0.002
							62.38	63.30	0.92	67795	0.002
						< 5%					
				63.30 - 65.65 up to 2% po-py disseminated very finely & rare on micro fractures minor asPy noted	1-2%	< 5%	63.30	64.80	1.50	67796	0.002
							64.80	65.65	0.85	67797	< 0.002
				* 65.65 - 66.30 pale greenish grey aplite dyke, fine grained quartz & feldspar rich unit & limonitic fractures. - blocky broken core.			65.65	66.30	0.65	67798	0.002
							66.30	67.30	1.00	67799	< 0.002

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au g/t
				69.80-69.35 irreg mm-cm scale qtz stringers w ~.5% Py along selvages.	67800	68.80	69.35	0.55	0.004
					67801	69.35	70.70	1.35	0.010
				70.70 - 71.80 fractured abundant irregular qtz-musc stringers + veinlets on cm scale veins @ 33° x-cutting 'Bc' @ 76°	67802	70.70	71.80	1.10	0.003
					67803	71.80	73.00	1.20	< 0.002
73.00	81.10			locally silicified, bleached + altered metased predominantly aggregates (e.g. quartzite) w minor more mafic intervals. Bleached to a light greenish-grey buff-, abundant limonitic fractures + bedding give a rusty colour to dm scale intervals. abundant mm to cm scale irregular grey qtz veinlets. <1.5% sulphides noted - locally up to 1% Py,Po + minor aspy, dm scale intervals reveal - deformation + highly contorted metased, blocky + broken core - locally friable in more altered intervals. mm hematitic staining on fractures.	67804	73.00	74.00	1.00	0.003
					67805	74.00	75.00	1.00	0.002
					67806	75.00	76.00	1.00	0.002
					67807	76.00	77.20	1.20	0.003
					67808	77.20	78.40	1.20	0.002
					67809	78.40	79.60	1.20	0.002
					67810	79.60	81.10	1.50	0.004
					67811	81.10	82.10	1.00	0.002
81.10	137.66			Relatively fresh dirty quartzite - meta-greywacke (dark grey, well foliated, hard competent unit. → similar to 4.49 - 73.00					
				82.00 61° @ 53°					
				86.36 - Cacm wide white fractured qtz vein concordant w 61° @ 50°, no apparent mineralization					

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au g/t
67.05	67.22			Mafic band ~ up to 2% fg po-py - one on 60° planes	67812	86.80	87.80	1.00	0.002	
					67813	87.80	88.70	0.90	<0.002	
88.80	88.92			Similar to above only ~ qtz-pyrite lenses concordant ~ 60° up to 5% py ± po	67814	88.70	89.20	0.50	<0.002	
89.60				Intrusive vein - folded irregular, gradational						
92.15	93.05			Irregular qtz mass - chlorite cm mm scale veins, @ 92.70 ~ irregular pale grey-pink beige aplite, minor <1% sulphides noted: py, po ± copy	67815	92.15	93.20	1.05	0.006	
					67816	95.30	96.01	0.71	<0.002	
96.23	101.05			cpy in micro fractures ± qtz in mm scale stringers at shallow core angles, ~ 1% cpy concentrated in fracture						
96.10	96.40			Mafic band ~ up to 2% fine disseminated po-py	67817	96.01	96.50	0.49	0.022	0.75 g/t
				96.00 - 5.1° @ 56°	67818	96.50	97.80	1.30	0.011	0.38
99.63	99.93			Mafic sulphidic rock band up to 2% fg py-po - magnetic	67819	99.63	99.93	0.30	0.009	
99.93	101.05			Strong fuchsite staining, highly fractured & silicified. py @ 17° ~ chlorite inclusions ~ white argillically altered feldspars along selvages. MBC @ 64°	67820	99.93	101.05	1.12	0.002	
101.05	102.30			Weakly silicified - mm irregular discontinuous quartz veins - stringers, minor blue grey qtz-blebs, mac-cpy along selvages, <1% cpy-py dotted mm-po	67821	101.05	102.30	1.25	0.002	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
				103.39 – 103.76 – irregular muscovite rich aplite at shallow core angle – contact thru center & core						
				106 – minor carbonate filled micro fractures	67822	108.40	109.39	0.99	0.003	
				* 109.39 – 110.70 Silicified – bleached to a light greenish tan, irregular and at shallow core angle ~ 80° – cm scale qtz veins @ 3/metre with up to 2% Aspy along selvages + down center of veins. Minor irregular pyrite + Mn rich alteration halos around veins. minor limonite staining ~1% py in host rock. quartzite	67823	109.39	110.70	1.31	<0.002	
					67824	110.70	111.99	1.29	0.023	0.79 gm/t
				* 111.99 – 112.85 Weakly silicified – cm scale qtz veins @ 17°, mm discontinuous stringers, folded + contorted. Weakly bleached, up to 2% fine aspy in micro fractures + assoc 113.00 – 6/0 @ 61° with qtz stringers, and disseminated in wallrock, minor py – up to 1% locally.	67825	111.99	112.85	0.86	0.005	
					67826	112.85	113.70	0.85	0.005	
				115.37 – 115.39 Aspy filled micro fractures, py in halos around qtz stringers – up to 1% disseminated pods of py – up to 1% Well bleached – bleached appearance	67827	115.40	116.40	1.00	0.008	
					67828	118.97	119.77	0.80	<0.002	
				119.77 – 120.38 Silicified – med grey quartzite with irregular mm – cm scale qtz stringers	67829	119.77	120.38	0.61	0.002	
				limonite staining + black pyrite + Mn rich halos – cm scale.	67830	120.38	122.00	1.62	0.010	0.34
					67831	122.00	123.80	1.80	0.052#	1.78
				123.80 – 124.39 Bleached – Silicified mottled, patchy appearance, limonitic + Mn py halos around micro fractures + qtz stringers. qtz-minor rich veinlets – gradational – bit edge at qtz veins.	67832	123.80	124.39	0.59	0.021	0.72
					67833	124.39	125.35	0.96	0.007	

1.05 gm/t / 40 m

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
				125.35 - 126.20 Similar to above 127.50 fol^n @ 60°	67834	~~125.35~~	126.20	0.85	0.002	
				129.10 - 129.34 Irregular x-cutting qtz veins & x-cutting mm scale qtz veins & x-cutting mm scale granodiorite Stringers. <1% Aspy	67835	129.10	130.20	1.10	0.251 - 8.60	
				130.20 - 130.90 Limonite staining. Fractured friable & rubbly, broken up	67836	130.20	130.90	0.70	0.006	
				130.90 - 132.40 Silicified S (mm-cm scale) veins predominantly @ <10° - one x cutting, up to 2% fg Sulphide assoc w/ wall rock, As-pi one along selvage, minor mm scale x-cutting granodiorite Stringers, pale blue green & limonite - altered Feldspars ?? relatively soft along vein selvage in mm - cm scale blebs	67837	130.90	132.40	1.50	0.002	
					67838	132.40	133.80	1.40	0.006	
					67839	133.80	135.25	1.45	0.010	
				134.50 fol^n @ 67°						
				135.25 - 139.66 dm-m scale limonite altered & sericitic and locally intensely silicified, discontinuous fractured, qtz & blk sulphide lined Stringers & selvages, one irregular assy filled minor fracture - <1% Aspy - <1% Po-Py locally up to 1%, pale bluish green mineral in blebs assoc w/ qtz veins - altered feldspar	67840	135.25	136.70	1.45	<0.002	
					67841	136.70	138.20	1.50	<0.002	
					67842	138.20	139.66	1.46	0.003	
139.66	154.85			FAULT COUSE ZONE, ALTERED & CONTORTED METASEDS.						
				139.66 - 142.00 meta-greywacke to dirty quartzite - contorted, folded & brecciated. Fine mm & less laminated sericite - biotite - quartz - chlorite - minor - limonite ~~minor~~ minor folding & deformation.	67843	139.66	141.00	1.34	0.009	
					67844	141.00	142.45	1.45	0.008	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au g/t
				142.00 – 154.85. Predominantly pale grayish grey - buff sericitic quartzite. Ilmenitic staining	67845	142.45	143.10	0.65	0.063	2.16 g/t
					67846	143.10	144.10	1.00	0.002	
				Both intervals have been altered, contorted & silicified, the core is friable - blocky & broken with moderate to good recovery, irregular & cutting quartz veinlets often fractured with limonite staining. Weathered out euhedral pits indicate presence of py <1% sulphides noted, appy = py assoc. with qtz veining & silicified zones locally up to 2%, minor Mn-pyrolusite on fracture planes, minor arsenite rich intrusive - granodiorite blebs & stringers block tuffaceous breccia ? 2/2 - possibly (tourmaline??)	67847	144.10	145.10	1.00	0.005	
					67848	145.10	146.10	1.00	0.002	
					67849	146.10	147.80	1.70	<0.002	
				142.45 – 143.10 dark green or grey quartz - eye pops mm scale di-pyr xl's idiomorphic - rounded to square qtz - euhedral tourmaline ? fragments fine volcaniclastic matrix - looks volcanic						
				147.80 – 154.85. Slightly mineralized silicified & highly contorted; predominantly quartzite - abundant limonite & qtz filled micro fractures, mottled, brecciated to brecciated; rusty, pale grayish buff and dark grey bands & irregular blebs in 1 mm-cm scale irregular - cutting qtz veins per meter <1% sulphides noted, minor fine dark grey - black metallic mineral - stibnite	67850	147.80	149.00	1.20	<0.002	
					67851	149.00	150.20	1.20	<0.002	
					67852	150.20	151.40	1.20	0.005	
					67853	151.40	152.60	1.20	<0.002	
					67854	152.60	153.80	1.20	<0.002	
					67855	153.80	154.85	1.05	0.008	

AURUM GEOLOGICAL CONSULTANTS INC. DIAMOND DRILL LOG HOLE No. CC-88-3

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au g/t
154.85	156.35			Dacite. medium buff grey, massive, highly fractured & limonite staining and mm halos around fractures. mm scale bright green fragments - altered Feldspars - suspended in, in a fine set matrix, basically soft minor qtz stringers - mm scale, + 5% pyrite and lesser apyp, py to concentrated along micro fractures occasionally in qtz.	67856	154.85	156.20	1.35	0.014	
				lower contact @ ~ 24°, 2cm wide fractured qtz vein on contact & 1% Aspy & 1% py both in vein & along selvage	67857	156.20	156.50	0.30	0.016	
156.35	163.90	95-100%		Similar to 139.66 - 154.85. not as silicified - but minor qtz micro stringers @ shallow core angles, strong limonite staining associated, folded & contorted, moderately competent highly fractured, dm intervals of brecciated siliceous - qtz veins, 1% sulphides (py) - 1% apy, occasional areas of qtz stringers @ shallow core angles - minor 157.20 1cm @ 65° stained.	67858	156.50	157.70	1.20	0.008	
					67859	157.70	159.00	1.30	0.004	
					67860	159.00	160.30	1.20	0.002	
					67861	160.20	161.40	1.20	0.073	2.50 gm. 34.3 g/t / 2 mins.
					67862	161.40	162.60	1.20	0.132	4.5 gm
					67863	162.60	163.80	1.20	0.003	
163.80	165.20	70-80%		Completely Altered - Clay argillically altered to clay & minor angular mm-scale fragments - qtz rich & pyr. moderately pervasive friable - clay rich interval. - no competent material.	67864	163.80	165.20	1.40	0.007	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
165.20	170.50			Similar(ish) to 156.35-163.80. Altered & deformed metasedo.	67865	165.20	166.42	1.22	<0.002	
		90%		166.42 - 170.50 Extremely blocky broken core; moderate recovery; predominantly	67866	166.42	167.90	1.48	<0.002	
				fine/v fine grained, abundant discrete fractures, minor sulphide, aspy & stibnite	67867	167.90	169.40	1.50	0.012	0.41
				<1% Qtz in micro-fractures, minor Scarodite	67868	169.40	170.50	1.10	0.007	0
				on fracture planes.						
170.50	179.36	95%		Altered granodiorite - qtz eye porphyry.						
				Leuc grey/pink) grey with fairly homogenous	67869	170.50	171.70	1.20	0.036	1.23
				intervals & fractures, moderate - very blocky	67870	171.70	173.00	1.30	0.018	0.62
				broken friable core, mm-cm scale white	67871	173.00	174.20	1.20	0.007	
				Feldspar has been argillically altered to						
				clay, mm scale disseminated - vfed						
				qtz eyes - make up 15-20% the matrix						
				is vfed - lightly grained and sericitic to	67872	174.20	175.60	1.30	0.012	0.41
				argillically altered - locally <2% mafics noted -						
				pseudomorphic(?) biotites - ± hbl? otherwise no mafics	67873	175.50	176.70	1.20	0.008	
				mm-cm scale v altered qtz veins	67874	176.70	177.90	1.20	0.026	0.89
				<1% sulphides noted.	67875	177.90	179.36	1.46	0.013	0.45
				dm scale intervals of strongly - altered porphyry -						
				Friable - clay rich - no competent material.						
				no foliation & indication of shearing.						
					67876	179.36	179.96	0.60	0.020	0.67
179.36	179.96	80%		Brecciated & argillically altered -						
				clay rich non competent intense						
				oxidation, non-cm scale relatively vfed						

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	g/t Au
				qtz rich fragments in a clay matrix.					
179.96	193.85			Siliceous & limonitic Metased - predominantly Quartzite.	67877	179.96	181.00	1.04	<0.002
				med. light grey to rusty ~ 80% is limonitic, Sandy, well fluted w/ Silicate on fol^n planes, duty to pure quartzite, abundant limonitic fractures.	67878	181.00	182.20	1.20	<0.002
				competent with minor blocky dev. intervals	67879	182.20	183.40	1.20	0.003
				< 5% sulphides noted	67880	183.40	184.60	1.20	0.003
				locally contorted, folded & silicified with up to 1% pyrite + 1% oxide micro mm scale qtz filled micro fractures	67881	184.60	185.80	1.20	0.003
					67882	185.80	186.90	1.10	0.007
					67883	186.90	187.90	1.00	0.004
				180.00 fol^n @ 56°					
				181.50 fol^n @ 68°					
				a fractured					
187.90	188.75			Silicified, abundant wavy qtz (mm scale) filled micro fractures + veinlets - occasionally folded + contorted, up to 2% f.g. pyrite + oxide in micro fractures & qtz stringer margins	67884	187.90	188.75	0.85	0.002

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	oz/t Au	g/t
				188.75 – 193.85. locally 1-2% oxy concentrated						
		100%		on fractures. & Wisp irregular qtz	67885	188.75	189.75	1.00	0.006	
				Scale qtz veinlets, up to 1% fine py + po						
				locally contorted & weakly silicified	67886	189.75	190.85	1.10	0.005	
				189.50 - fol° @ 63°						
				many qtz veinlets in greenish blue relatively						
				soft fine grained - altered feldspar ??						
				limited pyroxene staining, predominantly med dk grey - with fine to					fractures	
				191.15 - 191.65. 4mm wide composite filled						
				fracture @ shallow core angle	67887	190.85	191.65	0.80	0.022	0.75
					67888	191.65	192.75	1.10	0.004	
				193.50 fol° @ 75°						
					67889	192.75	193.85	1.10	<0.002	
				193.85 EOH //						
				Transmission broke - rods hung in hole - lost 250' in hole. back to terminate hole @ 636'						

AURUM GEOLOGICAL CONSULTANTS INC. — DIAMOND DRILL LOG — HOLE No. CC-88-4 — Page 1 of L8

Property: Clear Creek	NTS: 115 P 14	Claim: Rum 14	Elevation: 1750.22m	Azimuth: 150°	Length: 154.22	Dip: 45°
Coordinates: 35+45N 35+70E	Dip Tests: C.O. 11 48°	Advance: 106.50 m	Depth: 111.50m	Date Collared: Aug. 21, 88	Date Completed: Aug. 24	
Purposes: To inspect the dyke and fault zone & drill under a Sil anomaly.	Drilled by: Tonto	Assays by: Bondar Clegg	Logged by: BJH			

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t
0	45			Overburden					
45	25.02	90-100%		Metasediments: includes meta-greywacke and dirty quartzites. Highly foliated and locally contorted. Moderately siliceous in places with cross cutting quartz veins (mm to cm scale) throughout. Fine grained, equigranular quartzite with minor Aspy and py concentrations along foliation + fracture planes. Fractures are from cross-cutting at high angles to v. low, acute angles: locally, they follow the foliation. Limonite and Mn-staining are evident on most fractures. Mineralization tends to have higher concentrations in quartz-rich - siliceous zones, although the darker units have more sulphides than the lighter units.					
				dm scale units of Rusty to tan colored, quartzite w limonitic staining along fractures and cm to mm scale quartz veinlets that x cut the foliation. The quartz veins are locally vuggy and have Aspy ~1% and py >0.5% concentrations along vein selvages.					
				Competent, massive, finely foliated, dk grey, dirty, quartzite. Locally core is broken & fractured.	67890	6.61	7.43	0.82	<0.002
				slightly more siliceous and more contorted, highly oxidized along fractures, locally to Rusty colored muscovite.	67891	7.43	8.23	0.70	0.002
				Rusty, friable, crumbly, broken core & siliceous, med grey quartzite.	67892	8.23	9.25	1.02	0.004

AURUM GEOLOGICAL CONSULTANTS INC. DIAMOND DRILL LOG HOLE No. CC-88-4

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au g/t
				9.25 - 10.97	67893	9.25	10.75	1.50	0.006	
		98%		dk grey dirty quartzite, highly foliated and locally contorted V.comp.ct. 98% recovery						
				at 9.78 fole 56°						
				@ 11.37 quartz vein @ 75° ~ to fg pyrite, up to 2% conc. along vein boundaries. Vein pinches and swells from 2cm to < 1cm. Foliation is contorted, pyrite on both sides of the vein						
					67894	10.75	11.87	1.12	<0.001	
				@ 11.77 small 2cm wide quartz vein at 82°						
					67895	11.87	13.70	1.83	0.002	
				13.70 - 17.21 mod. siliceous, v. soft w/ to gougeable mud recovery (90-95%). Locally, v crumbly and broken core. V. muscovitic - Rich in some small, cm scale, bands. Highly foliated, little quartz veining and fewer fractures than previously. py and po < 0.5% along siliceous bands // to foliation	67896	13.70	15.32	1.62	<0.002	
					67897	15.32	17.21	1.79	0.003	
				17.21 - 21.0 v finely foliated, dusty colored, strong siliceous lt grey quartzite (altered?) highly limonitic in places - highly fractured with minor sulphides py and Aspy (0.5% and 1% respectively). Many quartz veins and sweats, which host the sulphides, that x-cut the foliation at various angles	67898	17.21	18.59	1.38	0.060.	2.06
					67899	18.59	20.10	1.51	0.015	0.51
					67900	20.10	21.0	1.10	0.005	
				@ 17.71 qtz vein, 1.6 cm wide, ~ Aspy concentrated along vein salvages up to 1.5% Aspy. Qtz is very vuggy ~ limonite infilling some vugs.						

1.25 g/t / 2.89 m

AURUM GEOLOGICAL CONSULTANTS INC. DIAMOND DRILL LOG HOLE No. CC-88-4

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
				@ 18.29 fols 52°						
					67901	21.0	22.0	1.0	0.006	
		97%		21.64 - 23.50 : dk grey, fine grained, slightly siliceous, sericitic quartzite. Minor qtz veinlets (mm scale) at various angles - mostly low angle to core axis.	67902	22.0	23.50	1.5	<0.001	
				at 22.80 narrow (2mm wide) granodiorite veinlet at a low angle to core axis - minor py in quartzite on either side. < 1%						
				at 23.0 fols at 57°						
		90%		23.50 - 24.40 - very limonitic, light grayish green altered quartzite. White quartz veins cross cut the foliation - highly fractured : rusty & limonitic along fracture planes. Mm scale granodiorite stringers also noted - Relatively poor recovery : core is broken & fractured	67903	23.5	24.40	0.90	0.007	
		98%		24.40 - 25.02 very soft, grey/green quartzite (slightly altered) Many small micro fractures with py & limonite staining & infilling account for the Rocks softness.	67904	24.40	25.02	0.62	0.003	
25.02	25.64	100%		v dark, mafic ~~quartzite~~ mudstone unit with Py and Po, both up to 2-3%, core along foliation. Numerous narrow 1mm-2mm wide, white quartz veinlets cut the foliation (63° angle with long core axis) Aspy (~1%) occurs in some of the quartz stringers	67905	25.02	25.64	0.62	0.025	0.86
				at 25.42 fols at 76°						

AURUM GEOLOGICAL CONSULTANTS INC. DIAMOND DRILL LOG HOLE No. CC-88-4

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au g/t
25.64	32.2	98-100%		Metasediments: mainly dirty quartzites with slight variations in color due to limonitic staining of quartz veining. Mostly it is light to med grey, foliated and locally contorted dirty quartzites with cross cutting quartz veins which range from being white, completely to tan or buff colored. Locally limonitic staining occurs along vein selvages and also along micro fractures						
				@ 25.94 5cm wide quartz vein with Aspy conc along a micro fracture, up to 2%	67906	25.64	26.64	1.0	0.005	
				26.64 - 28.75 light grey, highly siliceous quartzite numerous micro fractures (most at 64° to long axis of core. Really competent, hard unit w trace sulphides (Py)	67907	26.64	28.14	1.50	0.013	0.44
					67908	28.14	29.64	1.50	0.002	
				28.75 - 29.10 highly siliceous unit with concordant quartz veins. Limonitic staining along veins. A 8cm wide quartz vein occurs at 29.0						
				29.10 - 32.2 interbedded light grey quartzites and small mafic units. (cm scale) qtz veining at 31.14 (broken core) ~7cm wide. Minor py noted but < 0.5% in the lighter quartzites but Aspy, Py + Po are found in the mafic units. Up to 3% total sulphides	67909	29.64	30.64	1.00	0.016	0.55
					67910	30.64	32.2	1.56	0.007	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
32.2	40.80	80-100%		Relatively fresh granodiorite. mm scale plagioclase, quartz + biotite phenocrysts. No alteration seen. Trace sulphides are found locally, within the matrix. The matrix is aphanitic but probably with a composition similar to the phenocryst mineralogy. Abundant microfractures occur throughout most at shallow angles to the core axis. Limonitic and manganese staining occurs on most fractures. Numerous, mm to cm scale, quartz veins occur as well. Some have minor <1% Aspy concentrated along the selvages.						
				32.2 - 35.2 - fresh unaltered granodiorite. Very massive + competent. Minor amount of microfractures. Very little limonitic or Mn staining	67911	32.20	33.20	1.0	D.002	
					67912	33.20	34.20	1.0	D.001	
					67913	34.20	35.20	1.0	D.002	
		96%		35.2 - 38.6 same as above but with more quartz veining and limonite + Mn infilled microfractures. Mn mineral is pyrolusite? (very soft, black). Weakly argillically altered in places. Plagioclase still present, but have been altered. Aspy and py are conc along microfractures but only ~1%	67914	35.20	35.90	0.70	0.018	0.62
					67915	35.90	36.90	1.0	D.004	
					67916	36.90	38.60	1.50	D.002	
		80%		38.60 - 40.80 Strongly argillically altered granodiorite. Plagioclase has been completely altered out in most places. Sericitized in some places - Very friable and crumbly core. Clay Rich. Poor recovery ~80%	67917	38.60	39.60	1.0	D.003	
					67918	39.60	40.80	1.20	D.008	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au g/t
40.80	44.15	85-90%		Limonitic, highly fractured metagrey wacke / dirty quartzite. Weak to highly siliceous. Weakly to mod sericitic - Recovery is poor to fair. (85-90%). Core varies from being v. competent to friable / crumbly depending on silica content and amount of micro fractures.						
					67919	40.80	41.85	1.05	<0.002	
				41.85 - 43.75 Relatively competent, greenish/grey quartzite Slightly sericitic & Muscovite seen on fract fractures. Trace py, <≤ 0.5% also noted. Strongly limonitic.	67920	41.85	42.95	1.10	0.057 oz/t	1.95 g/t
				@ 42.50 fol 53°						
		95%		* 43.27 - 43.48 - brecciated quartz vein. Angular quartz fragments up to 4cm long x 2cm wide. Numerous fractures in limonite infilling. Locally quartz is vuggy.	67921	42.95	44.15	1.20	0.001	
				44.15 : contact between quartzite and argillically altered, sericitic granodiorite.						
44.15	45.40	85-90%		Argillically altered granodiorite. Qtz fragments are bound together by clay matrix. Light, white/grey colour, locally limonitic Kaolinite ?	67922	44.15	45.40	1.25	0.011	0.38

AURUM GEOLOGICAL CONSULTANTS INC. DIAMOND DRILL LOG HOLE No. SC-88-4

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au g/t
45.40	54.07	97-100%		Rusty / limonitic colored f-g quartzites that grade into light greyish quartzites. Mod. to highly siliceous, highly fractured, highly foliated and locally contorted. Localized quartz veining ranges from being massive to vuggy to brecciated.						
		97%		45.40 - 46.8 - highly oxidized / limonitic quartzite locally foliation is highly contorted especially near contact	67923	45.40	46.70	1.30	0.006	
					67924	46.70	48.25	1.55	0.005	
				at 48.45 : small 3cm wide quartz vein no sulphides present but fractures are limonitic.						
					67925	48.25	49.25	1.0	0.013	0.45
				48.45 - 49.0 Sectible light grey / greenish quartzite						
					67926	50.60	51.60	1.0	0.008	
		98%		50.60 - 51.30 light grey, highly siliceous, sectible quartzite. Quartz stringers parallel and cross-cutting to the foliation. Slightly limonitic on microfractures	67927	51.60	52.60	1.0	0.003	
					67928	52.60	54.07	1.47	0.008	
				52.30 - 52.90 Extremely limonitic + mn stained quartzite two large quartz veins, 9cm in width, are strongly brecciated. Clasts range in size up to 4cm in length. Most are very angular but a few are subrounded. Locally the quartz is highly vuggy with limonite infilling.						

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
54.07	56.50	98-100%		light grey/white sucrosic quartzite with numerous micro fractures and quartz stringers, veins and blebs. In places the quartz is highly brecciated but core is v. crumbly/friable. This section is not very limonitic, quite competent and recovery is v. good						
					67929	54.07	55.07	1.0	0.007	
				56.17 - 56.50 friable, crumbly, v. soft brecciated quartz within altered quartzite	67930	55.07	56.17	1.10	0.005	
					67931	56.17	56.50	0.33	0.204	6.99 gm/t
56.50	58.52	98%		highly siliceous, competent, relatively unaltered light grey to whitish quartzite. Very fresh looking, minor limonite and no staining. No sulphides. Bands of dk grey quartzite, cm scale, are present giving unit a banded appearance.						
					67932	56.50	57.70	1.20	0.003	
				at 57.42 8cm wide quartz vein, highly fractured with limonite staining	67933	57.70	58.52	0.82	0.011	0.318
58.52	64.30	99-100%		Very competent, finely foliated relatively uncontorted, dk grey dusty quartzite. Asp, Py and pyrrhotite are seen, in varying amounts, within or along the selvages of small mm to cm scale quartz veinlets. This unit is not as fractured as previously - giving it a massive like appearance						
					67934	58.52	59.52	1.0	0.025	0.86
				at 58.60 small 5-6 cm wide, massive vein quartz vein with Asp (~2%)						
				at 58.90 fold @ 63°						

1.0 ft = 3.36 m

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t
					67935	61.10	62.0	0.90	0.006
				at 62.10 two small quartz veinlets, 3-4 mm in width, with Aspy (8-10%) and Py (1-2%) at 62°	67936	62.0	63.30	1.30	0.006
				63.06 - 63.16 narrow fracture zone with minor quartz. Fractures trends at 62° to core axis. The quartz has Pyrite and trace colored minerals. Py < 1%					
				63.70 - 64.30 dark, quartzite with quartz sweats up to 3cm in width. Disseminated Pyrite and Po, associated with quartz sweats	67937	63.30	64.30	1.0	0.002
64.30	76.70	99%		competent, dk grey to light grey foliated dirty quartzite to Numerous quartz veins (all at various angles) Aspy, Py and Po are the dominant sulphides - up to 4% total in some mafic units. Hematite and limonite staining dominant although no staining is found locally.					
				@ 64.73 small 1cm wide quartz vein @ 58° to long core axis with limonite, Vuggy	67938	64.30	65.80	1.50	0.003
					67939	65.80	67.30	1.50	0.003
				66.0 3cm wide quartz vein at 73° with trace < 1% Py, cubes along salvage					

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t
					67940	67.30	68.8	1.50	0.009
				67.52 - 68.08 long, narrow quartz vein at V. low core angle. Pyrite + stibnite from vn. ge to coarse. Aspy <1% and Py 1% are found in quartzite but conc. along margin of quartz vein. Quartz is tan to white in color due to minor Fe oxide staining					
				68.52 - 69.08 limonitic quartz + muscovite Rich vein of lt grey to tan colored quartzite 1.5cm wide quartz vein at 66° Limonite + muscovite found along the muscovite high angle fractures at 68.50 folo @ 67°	67941	68.80	70.4	1.60	0.002
					67942	70.40	71.60	1.20	0.004
				at 70.21 small 3cm wide qtz vein at 89° with abundant 4-5% Py found along fractures in the quartz vein					
				70.89 - 70.99 - white massive xline quartz vein with limonitic fractures					
				71.10 - 71.33 white quartz vein in limonitic staining Py and Asp (1% and <1% respectively) found disseminated throughout vein.					

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Property	NTS	Claim	Elevation	Azimuth	Length	Dip
Coordinates	Dip Tests	Advance	Depth	Date Collared	Date Completed	
Purposes	Drilled by			Assays by	Logged by	

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au g/t
		95%		74.10 - 74.50 fractured + broken dirty quartzite	67943	74.0	75.30	1.30	0.005	
				75.30 - 76.40 v. soft, fractured and seritic quartzite. Minor quartz veining + stringers with minor sulphides noted: Py and Asp. Muscovite also noted along most fractures - in places it is altered to chlorite.	67944	75.30	76.70	1.40	0.002	
				76.65 - 76.70 Small quartz vein with abundant Py up to 5% that is conc. along fractures						
76.70	77.00	100%		mafic, almost massive, weakly foliated unit. Abundant Aspy, Py and Po siderotized Rock is strongly magnetic. Po and Py up to 7% combined. These sulphides are found along the foliation. Minor scale quartz stringers cross cut the foliation	67945	76.70	77.00	0.30	0.017	0.58
77.00	102.6	85-100%		dk grey, highly foliated dirty quartzite, mod. siliceous with small cm scale mafic units. Sulphides are sidrotized and found in quartz veins or siliceous zones	67946	77.00	77.9	0.9	0.004	
				77.50 - 77.66 quartz vein with Py 2% and Aspy 1% highly fractured w limonitic staining	67947	78.66	79.66	1.0	0.010	0.34
				78.53 foln at 68°						
				78.86 - 79.56 qtz vein w Py + Asp ~1% and <1% respectively						

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au^{oz}/t	Au^{gm}/t
		97%		81.40 - 82.50	67948	80.0	81.40	1.40	0.004	
				H grey to tan or buff colored						
				f.g. quartzite with discordant quartz	67949	81.40	82.50	1.10	0.002	
				veins. Locally they are folded into open						
				symmetrical folds. They range from being						
				completely massive to slightly vuggy. Micro-						
				fractures are v. common into limonite -						
				giving it a rusty/tan color						
				at 82.40 - small arm scale vertical altered,						
				sericitic zones/dikes veinlet						
				at 83.50 - fol at 68°, trace Py disseminated						
				throughout						
		95%		84.28 - 85.04 FAULT GOUGE numerous quartz veins that have	67950	84.28	85.44	1.16	0.022	0.75
				* been highly fractured & locally they are						
				broken down with a fine grey talc type						
				clay-rich matrix. Caught between						
				veins are quartzite fragments - slightly						
				sericitic. GOUGE						
				Trace sulphides noted - mostly						
				core or edges and fracture planes in						
				the quartz.						
				Locally, muscovite is present - partially						
				altered to chlorite.						
					67951	86.75	88.05	1.30	0.005	
		100%		88.0 - 88.1 small mafic, conformable unit						
				with a narrow quartz vein along	67952	88.05	90.35	2.30	0.016	0.55
				one selvage. Py + Po, up to 4%						
				are found in this unit.						
		65%		90.35 - 90.55 siliceous, competent quartzite in						
				low angle fractures (nearly ⊥ to long						
				core axis)						

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t
				muscovite (altered to chlorite) is present along many fractures					
		100%		91.18 - 91.50 V. dark mafic, sulphide enriched zone Apy 1%, Po 3% and Py ~ 1-2% is present as disseminated grains to thin wisps parallel to the foliation					
		100%		91.50 - 91.74 very quartz, sequence of quartzite highly limonitic, and siliceous	67953	90.35	91.18	0.83	0.002
					67954	91.18	92.24	1.06	0.003
				at 92.20 thin wisps/bands, aim scale of py and po in a mafic quartzite					
				93.74 - 93.94 small qtz/carb vein at shallow core angle	67955	92.24	93.74	1.50	0.006
				Apy 2% found disseminated throughout vein but also in adjacent meta-sediments	67956	93.74	94.90	1.16	0.003
					67957	94.9	96.1	1.20	0.004
				94.70 - 95.22 mafic, sulphide enriched unit finely foliated in subplanes Po + Py, minor Apy along foliation					
					67958	96.74	98.24	1.50	0.003
		100%		98.00 - 98.24 finely foliated, sericitic quartzite - very soft, friable	67959	98.24	99.34	1.10	0.006
				98.24 - 98.86 tan to rusty colored, limonitic quartzite in many mm-cm scale quartz veins					
				one 2-3mm wide vein is infilled with Apy ~ 8-10% of the vein is Arsenopyrite weakly altered					
					67960	99.34	100.34	1.0	<0.002

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t
		100%		99.64 - 100.34 limonitic fractured, foliated lt grey/ish quartzite. Locally it is highly contorted					
					67961	101.5	102.6	1.10	0.003
		100%		102.0 - 102.15 mafic sulphide enriched unit Po + Py wisps along foliation. 2%	67962	102.6	104.17	1.57	0.007
102.6	104.17	97%		lt grey, highly (strongly siliceous fg quartzite fractures are limonitically stained Trace < 1% py found disseminated throughout this unit.					
104.17	113.0	95-100%		more limonitic, dark grey quartzite - med siliceous. Cm scale bands of v dark mafic units that are richer in sulphides	67963	104.17	105.17	1.0	0.002
				105.17 fold at 69°.					
				106.85 - 107.0 mafic unit w Po + Py up to 4% total.	67964	106.85	107.85	1.0	0.004
				at 107.04 small mm scale veinlet infilled with Asp at 24° to core axis.	67965	107.85	109.15	1.30	< 0.002 LAST RESULTS Sept 16/88
		95%		110.00 - 110.5 quartzite which has a banded appearance. Alternating qtz-rich layers and darker quartzite layers. Hematitic + limonitic staining are noted throughout	67966	110.0	111.5	1.50	0.007
					67967	111.5	113.0	1.50	< 0.002
				112.47 - 112.57 - very hematite rich, siliceous unit.					

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au g/t
113.00	125.00	98%		Alternating dm sized units of hematite-Rich light grey/whitish quartzite and competent foliated dirty quartzites. The latter have a mottled appearance due to Aspy mineralization occurring as small, mm scale blebs. Both units are mod. to strongly siliceous with little to no alteration and little fracturing.	67968	113.0	114.50	1.50	<0.002	
				at 113.80 folⁿ at 73°	67969	114.50	116.0	1.50	<0.002	
				118.65 - 119.18 broken & fractured, limonitic and hematitic greywacke / dirt, quartzite. Mm scale qtz stringers. Con'd hematite stained bands give the core a layered appearance	67970	116.0	117.50	1.50	<0.002	
					67971	118.65	119.18	0.53	<0.002	
					67972	119.18	120.18	1.0	0.008	
				119.18 - 121.36 mottled looking dk grey quartzite Minor ~1% Aspy. Spotty appearance comes from dk + light spots caused by qtz being intermixed with the meta-sedz						
					67973	121.36	122.36	1.0	<0.002	
				122.36 - 122.73 finely laminated, partially contorted med grey quartzite with hematite staining along foliation → striped appearance						
				122.73 - 123.13 intermixed unit of dk grey quartzites hematite bands and brecciated qtz veins. Highly contorted and fractured	67974	122.36	123.56	1.20	<0.002	
				123.13 - 123.43 Very hematitic ; jumbled/ced quartzites.						
					67975	123.56	125.06	1.50	0.049 #	1.68 gm/t
				124.46 - mm scale granodiorite stringer at 11° to long core axis.						

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t
				at 125.0 2cm wide qtz and granodiorite stringer at 30° to core axis. The quartz and granodiorite are separate but parallel. Asp up to 2% occurs as dissemination and scale blebs throughout the quartz part of the stringer.					
125.06	147.74	97-100%		Competent, non fractured dk grey dirty quartzite with inconsistent silica-rich to dk. Locally thin bands are folded. Most siliceous areas have micro amount of Py and Aspy. Also dm scale limonitic siliceous, fractured zones.					
				125.75 asymmetrically folded siliceous bands within a dk grey dirty quartzite. Bands are up to 1cm in width.	67976	126.50	128.00	1.50	<0.002
				129.99 - 130.10 limonitic, fractured quartz vein 2cm wide with minor Asp <1% found disseminated throughout siliceous zones in the quartzite.	67977	129.84	131.34	1.50	<0.002
					67978	131.34	132.84	1.50	<0.002
		100%		131.77 - 132.69 qtz stringers at a low core angle. Not have limonite staining on the margins + fractures. Also a series of 5 parallel, cm scale qtz veins running at 59°. The distance between the veins ranges from 1cm to 10cm. Aspy up to 2%, is found along the flat lying quartz / fracture system.					
					67979	132.84	134.34	1.50	<0.002.

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au g/t
		98%		133.14 - 134.05 Extremely laminated, highly foliated & contorted strongly siliceous med. grey quartzite.					
				134.28 - 134.42 Aspy and pyrrhotite bearing quartz vein. Mineralization is found as disseminated blebs and as fracture fillings					
					67980	135.94	137.34	1.50	0.002
				135.94 - 136.24 mottled, highly contorted, sericitic med. grey quartzite					
					67981	137.34	138.84	1.50	0.003
	19%			137.59 - 140.04 - tan to buff colored, extremely laminated, strongly siliceous M grey white quartzite. Abundant mm - cm scale qtz veins. Some of which appear slightly brecciated. Trace sulphides noted. Rocks highly fractured - mostly at low core angles	67982	138.84	140.04	1.20	0.002
					67983	140.04	141.04	1.0	<0.002
				141.04 - 141.74 contacted, competent M grey quartzite in Asp found core in and along small mm scale qtz veinlets (up to 2%)	67984	141.04	142.04	1.0	0.007
				141.30 fol'n at 74°					
					67985	142.04	143.54	1.50	0.005
				at 142.49 2cm wide qtz vein at 72°					
				142.59 - 142.69 mafic, py + po rich unit Po ~ 3%, Py ~ 1% found as wisps along foliation but also in fractures					

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
				flat cross cut the foliation. Strongly magnetic						
				147.67 - 147.91 - fractured, sericitized + bleached fine grained qtz vein. Minor hematite staining on some fractures						
					67986	143.54	145.04	1.50		
				145.04 - 147.74 - fine to medium grained fractured and silicified light grey weakly foliated qtz quartzite interbedded with dark grey sericitic qtz quartzite	67987	145.04	146.34	1.30		
					67988	146.34	147.74	1.40		
147.74	151.64	95.7%		Fairly altered fine grained fractured + broken, locally siliceous, grey, foliated quartzite breccia - quite a lot of sericite. Generally fractured, pinkish, intermixed quartzite + quartzite schist (mostly fine scale). There are a few quartz veins (mostly fine scale) - some are fractured + broken	67989	147.74	148.74	1.0		
									Samples 67990 - 67993	
									(103)	
					67990	148.74	149.84	1.1		
				149.66 - 149.84 highly sericitic quartzite interbedded with quartz, layer. Limonitic staining along layers	67991	149.84	151.64	1.80	0.012	0.41 gm/t
				150.64 - 151.18 - highly foliated, grey with grey quartzite with cm scale sericitic schist units. Locally contorted + sheared						
151.64	154.22	100%		dk grey, foliated, locally contorted, competent slightly fractured fine grained quartzite with a few cm scale quartz veins / layers along the foliation	67992	151.64	152.74	1.10	<0.002	
				154.00 fol at 74°	67993	152.74	154.22	1.48	<0.002	

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Property: Clear Creek	NTS 115P-14	Claim Rum 14	Elevation 1728.72 m	Azimuth 150°	Length 128.62 m	Dip 45°	
Coordinates 35+22 North 35+25 East	Dip Tests @ 128.62m → 45°	Advance 91 m	Depth 90.50 m	Date Collared Aug 24	Date Completed Aug 27		
Purposes To intersect the dyke and Fault zone tent (C-88)	Drilled by Tonto.	Assays by Bondar Clegg	Logged by SDR				

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION (was abandoned in and drill under rock & soil anomalies.	Interval From	Interval To	Core Width	Sample No.	Opt Au g/t
0	3.05			Overburden.					
3.05	410 45.	95/100		Metasediments: Predominantly dusty quartzites + mafic greywacke medium grey, moderately to well bedded, to a semi-schist & more finely bedded, competent in drill core. Fractured & altered intervals. Fine to medium grained-textured to grey, massive quartz veins & veinlets with pyrite & pyrrhotite giving a speckled appearance. Minor mafic dykes (basaltic) are massive and have chilled & fine grained margins. Sulphides: pyrite, pyrrhotite, trace chalcopyrite. Overall trace to 1% fine disseminated & locally semi-stringer pyrite + pyrrhotite. Minor veins consist of quartz stringers + subparallel irregular to conformable fracture infilling. Dominantly oriented at 45° to core axis. Mainly in competent beds.					80 Samples.
				10.50 Pol° @ 63°					
				13.56 Sand filled gap.					
				14.40 4 cm wide mafic sulphide (pyrrhotite) band - magnetic, up to 3% pyrite concentrated along selvages and 2% po in fine blebs within mafic f.g. band. ~1% Assay.	14.20	14.70	0.50	67994	0.005
				16.50 - Pol° @ 64°					
		95%		17.30 - 18.19 Friable altered mafics - silicified clay & limonite rich, minute sulphide stringers & blebs	17.30	18.19	0.89	67995	<0.002

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au g/t
				18.75 - 19.18 Friable clay rich altered, micro angular grit rich fragments with clay rich - sericite + limonitic material.	67996	18.19	19.20	1.01	0.003	
					67997	23.00	21.55	1.55	<0.002	
				24.70 - 25.20 Similar to above - clay + sericite altered material - quartzite.	67998	21.55	25.20	0.65	0.056	1.92 gm/t
				27.13 - 29.20 - blocky broken fractured core. abundant limonitic staining chloritic - sericitic calc-flow planes with sulphides	67999	27.13	28.20	1.07	0.009	
					68000	28.20	29.40	1.20	<0.002	
					69501	29.40	30.60	1.20	0.002	
				30.70 - 31.65 Sericitic quartzite - weakly silicified - 2 Horn scale, quartz veinlets + 1% sulphides py & cpy occur in quartz	69502	30.60	31.65	1.05	0.048	1.64 gm/t
					69503	31.65	32.31	0.66	0.006	
				32.42 - 32.57 Mafic fg mineral band - mudstone with 10 fg. py + po in hair stringers along foliation, minor hem spotted. BIF ? Bo.	69504	32.31	32.62	0.31	0.011	0.38 gm/t
				35.40 - 36.40 ~1% fine cpy+py concentrated on microfractures with qtz stringers - irregular.	69505	36.10	36.40	1.30	0.006	
				36.40 - 40.45 Predominantly tan to rusty buff quartzite, abundant limonitic fractures. minor qtz veinlets sub-parallel to foliation	69506	36.40	37.80	1.40	0.008	
					69507	37.80	39.10	1.30	0.002	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t
				~1% fine sulphides py > asspy finely disseminated, siliceous pockets, ~1% stringer pyrrhotite.	69508	39.10	40.45	1.35	0.007
				37∞ fol^n @ 65°					
40.45	44.90	98.100		Granodiorite - Qtz-F - Porphyry, medium grey, massive / limonitic fractures in rusty halos up to 1cm out from fractures	69509	40.45	41.60	1.15	<0.002
				~5% mm scale biotite aligned basal cleavage, 1cm mm-cm scale white subhedral plagioclase phenocrysts, 10:15% dipyramidal mm-scale qtz eyes in a fine grained groundmass, 1% mm-fine disseminated pyrite, minor fine intergrowth.	69510	41.60	42.70	1.10	0.005
					69511	42.70	43.80	1.10	<0.002
					69512	43.80	44.90	1.10	0.002
44.90	50.70	95-98%		Altered Granodiorite - QFP very blocky broken core - friable highly fractured, limonite + Mn coated on fracture planes, mafics altered to biotite and Mn rich coarse pyrrhotite, minor argillic alteration, plag + qtz are relatively fresh. bleached to a light (~5%) degree of argillic alteration. Increased to 2cm wide zone of mylosediment contact. minor sulphides noted. < 5%	69513	44.90	46.00	1.10	0.004
					69514	46.00	47.10	1.10	0.004
					69515	47.10	48.20	1.10	0.004
					69516	48.20	49.30	1.10	0.002
					69517	49.30	50.40	1.10	0.002
				@ lower contact completely altered cm schoin, clay rich 2cm mylonite competent cm scale pieces.	69518	50.80	50.80	0.40	<0.002

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
50.70	59.44	95.9%		Altered METASEDS. - SERICITIZED & WEAKLY ARGILLICALLY ALTERED.						
				dark grey green to rusty & limonite stained blocky to moderately competent.	69519	50.80	51.40	0.60	<0.002	
				~~Pervasively~~ sericitized & intensely [illegible]						
				[illegible] - 1% fine [illegible]						
				Well developed [illegible]						
				[illegible]						
				[illegible]						
				[illegible]						
				minor sulphides ~ 5% locally concentrated along fractures up to 2 mm wide						
				pyrite & lesser minor [illegible]						
				[illegible]						
				51 to 51.90 discordant pyrite veins fractures. ~1% pyrite	69520	51.40	51.90	0.50	0.013	0.45 gm/t
					69521	51.90	53.10	1.20	0.016	0.55 gm/t
				51.00 60° @ 53°						
					69522	53.10	54.30	1.20	0.008	
				54.62 - 59.44 Extremely incompetent rusty and highly fractured sericite schist	69523	54.30	55.50	1.20	<0.002	
				strongly bimodal: needles mixed dk. 60° group dk interbeds	69524	55.50	56.70	1.20	<0.002	
				are blocky fractured with minor	69525	56.70	57.80	1.10	0.005	
				argillic bx alteration.	69526	57.80	58.90	1.10	0.002	
				minor sulphides - locally up to 1%	69527	58.90	59.44	0.54	0.057 #	1.95 gm/t
				pyrite concentrated on fractures.						
				58.50 60° @ ~54°						
				appears to be flooded zone limonite						
				abundant on scale of 1 inch or						
				less. bx boss around fractures						

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
59.44	60.70			FAULT GOUGE medium to light grey to rusty buff - irregular aphanitic brecciated and strongly sericitized and argillized, altered clay & angular to rounded mm-cm scale siliceous (mylonitized ?) quartz fragments irregular vein qtz to qtz-calcite veins broken, contorted & recrystallized vuggy & friable, highly fractured minor sulphides (pyrite) ~1% Aspy crosscutting (parallel) to fault reddish-grey calcite veinlets parallel to fault upper contact @ 29° lower contact @ 47°						0.97 gm/t / 1.8 mc
60.70	67.16	100%		Weakly altered to fresh diabase varies to 50 to 59.44 alteration: dirty quartz-clay ± sericite schist, moderate pyrite staining strongly fractured - abundant sericitic micro-fractures - ± cutting broadly up to 1% fine pyrite disseminated along fine grained mm-cm scale concordant quartz veins - no core mineralization noted Mn-staining on fractures and in vugs. 61.50 1cm @ 64°	69530	60.70	62.00	1.30	0.007	
					69531	62.00	63.30	1.30	0.004	
					69532	63.30	64.40	1.10	0.003	
				64.55 - 64.65: light grey to white granular qtz vein sub parallel to fol^n	69533	64.40	64.70	0.30	0.021	0.72 gm/t
				~1% sulphides fine aggr ± py, one in vein at margins.	69534	64.70	65.90	1.20	0.006	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au_{FA} oz/t
					69535	65.90	67.16	1.26	0.005
67.16	94.90	100/		Competent Metasediments to weakly altered + mineralized medium grey, well foliated to locally cataclastic, moderate to abundant micro fractures, minor limonite staining — restricted to structurally fractured intervals, competent + massive, predominantly dirty quartzite - mafic greywacke. Semi-Dist to phyllitic. 1% fine pyrite smeared on foliation planes micro po - locally concentrated in lithologic (sedimentary) beds - cm scale. locally lithologic stringers rock cataclastic fractures cm scale alteration is pale grey + 2% x2 ?? grams over parting foliations.					
				70.00 foliation @ 63°					
				71.10 – 71.46 Fractured limonitic qtz vein sub parallel to foliation with ~1% Py and micro brecciation concentrated on fracture planes. Py also noted in micro-fractures in the surrounding metased.	69537	71.10	71.46	0.36	0.002
				71.46 – 72.95 cm scale intervals of dark fine metasediment (mudstone) with up to 2% fine disseminated + micro Py	69538	71.46	72.50	1.04/	<0.002
					69539	72.50	73.50	1.00	<0.002

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t
				75.20 Irregular discontinuous fractured limonitic qtz veins - bounding zone contact	69540	73.60	75.80	2.30	<0.002
					69541	77.00	78.00	1.00	<0.002
				78.00 - 61° @ 58°					
				78.10 - 78.20 Coarse grained intervein to 2% fine pyrite in bio + stringer chlty 61° silicous parallel qtz + minor	69542	78.00	79.00	1.00	<0.002
					69543	79.00	80.10	1.10	0.002
				80.10 2% pyrite, silicified + contorted vns mgr cm 2-3% qtz veins pyrite dissem + in contact & 61° zone contact x-cut by qtz-calcite filled micro fractures, trace pyrite, in zone of fractured + brecciated qtz veins	69544	80.10	81.30	1.20	<0.002
					69545	81.30	82.60	1.30	<0.002
				82.60 - 84.12 Mafic siliceous dominantly mafic intervals with up to 1% fine stringer + biotite + py + py along 61° planes + zones in qtz + qtz-calcite stringers 1% to 61° planes. Contorted + folded. <1% sulf	69546	82.60	84.12	1.52	<0.002
					69547	84.12	84.82	0.70	0.004
				84.12 Midatch 0.30m missing 84.50 61° @ 70°					
				84.82 - 86.72 Silicified abundant on scale veins predominantly sub parallel to 61° sericitic quartzites abundant fractures with brec	69548	84.82	85.72	0.90	0.007

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t
				radiating klifa concentrated in grn rabo @ nrwd fractures - Mn ?? (pyrolusite) 1% fine disseminated pyrite locally up to 2%	69548	86.72	86.82	1.10	0.003
				86.27 - 86.42 Mafic band, ~ parallel discordant mm scale stringers up to 4% po+py, 1% asphy concentrated in micro fractures.	69550	86.92	87.92	1.10	0.002
					69551	87.92	88.42	0.50	0.004
			*	88.42 - 88.92 Cataclastic brecciated + siliceous qtz vein @ 57° to b/c discordant, fractures, veins, stringers, asphy up to 2% concentrated on discordant fractures.	69552	88.42	88.99	0.57	0.003
				88.99 - 89.62 dm scale mafic intercalation with 2% bck grnstn / schistose py+asphy in fractures and a siliceous qtz vein. Locally sheared granulite.	69553	88.99	89.62	0.63	0.002
				89.62 - 94.90 Alternating cm + dm scale, medium grey to buff coloured, coarse grained, medium grey/buff/black 2% fine disseminated pyrite, local discrete lenticular qtz veins, 1/2 - 3% fine to coarse bk, locally appearing 1/2 - 3% fine 2:1 + entrained + folded micro greyish/blue qtz veins - predominantly < cm scale.	69554	89.62	90.80	1.18	<0.002
					69555	90.80	92.20	1.40	<0.002
			#		69556	92.20	93.60	1.40	<0.002
				1% fine grained py+po with minor asphy on micro-fractures, locally up to 2% py+po+asphy locally laminated + serpentinized 1mm scale bands, meta psammite.	69557	93.60	94.90	1.30	<0.002
				91.00 banding @ 62° - subparallel to b/c					

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
94.90	128.62			Competent Metasediments - relatively fresh.						
				medium - dark grey well foliated competent, hard Siliceous meta greywacke - to dirty quartzite.						
				fine granular texture in a biotite, sericite + carbonate rich matrix.						
				locally contorted + folded						
				minor irregular quartz stringers + fractures, Lipolite Alteration is limited to halos around fractures + on fracture planes - minor pyrite.						
				minor chalcopyrite in halos and from fractures						
				occasionally this unit has been brecciated						
				alternating dm scale beds of coarse + fine siliceous metasediments, fine intervals are fine grained appear to be clean quartzite.						
				95.35 - 95.47 Mafic Pg intrusive with Al bio, po + py in bio blebs stretched along foliation	69558	94.90	95.70	0.80	<0.002	
					69559	97.90	98.60	0.70	<0.002	
				98.30 Irregular qtz lenses + stringers in chlorite inclusions and fractures margins 1% py + po on mm scale blebs concentrated along margins						
				99.50 - Cl @ 53°						
					69560	102.70	103.60	0.90	0.015	0.51 gm/t
				102.90 - 103.10 Micro fracture @ shallow core angles to foliation						

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t
				104.42 - 104.60 discordant fractured grey to white qtz veins surrounding inclusions have been sericitized and contorted.	69561	104.30	104.80	0.50	<0.002
				107.00 fol^ @ 60°					
				108.18 - 108.51 limonitic and fractured	69562	107.50	108.60	1.10	0.004
				105.83 - 105.99 white milky fractured qtz vein @ 50° - foliated along fracture <1% Py noted along the margins	69563	108.60	109.20	0.60	0.004
				111.46 - 111.70 1% fine py +po noted in fractures + finely disseminated - locally to 2%	69564	111.20	111.90	0.70	<0.002
				112.25 - 112.58 (cm) scale qtz veins concordant to fol^. within sericitic grey-green tuffaceous ? lapilli fragments ? qtz veins and sucrosic, minor sphalerite noted	69565	111.90	112.90	1.00	0.002
				112.75 - 113.45 pervasively buff to tan sericitic qtzite with concordant & x-cutting qtz stringers, locally silicified mineralized dm scale bands of dirty quartzite - to greywacke. 1 < 5% py, finely disseminated black irregular patches noted across as some fractured - possibly pyrolusite. minor oxidized filled micro-fractures. entire - fractured, overall very competent sericitic - limonitic package.	69566	112.90	114.40	1.50	0.002

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t
				116.97 - 117.85 blocky friable interval. abundant limonitic fractures predominantly ② shallow to moderate intervals appearing a sericitic schist	69567	116.80	117.85	1.05	<0.002
				117.85 - 118.45 ~~brecciated~~ silicified & contorted, highly fractured siliceous qtz stringers predominantly buff coloured qtzite with Mn rich micro fractures & halos. lower contact sharp @ a 75-80° with sericitic & contorted clay gouge	69568	117.85	118.45	0.60	<0.002
					69569	118.45	119.20	0.75	0.003
				119.45 - 128.62 Predominantly dark med grey dirty qtzite - mafic xenoliths with minor dm scale intervals of buff-tan (leached) clean qtzite. Intervals fractured & contorted but competent to 5 100's metres. Soft black smeared pyrite in some micro fractures - massive graphite abundant at sub alog fractures light grey dm-cm scale qtz intervals - mafic xenoliths.					
				120.16 - 120.60. Silicified irregular qtz veins & lenses, fractured & duplexed, ~1% Apy in veins + lenses. Positive structural movement of 3cm. @ 22° to drilling direction					

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
				120.60 – 121.45 cm scale mafic Cg. mudstone beds ± 1% py o po on 60° planes. bedding subparallel to CA @ 70°	69570	120.16	121.45	1.29	<0.002	
				122.15. 2cps filled micro fracture @ ± 30° ± 1mm wide	69571	120.60	123.00	0.40	0.004	
					69572	123.00	124.30	1.30	0.014	0.48 gm/t
				124.50 2cps filled micro fracture @ ± 32° ± 1mm wide	69573	124.30	125.20	0.90	0.011	0.38 gm/t
				128.00 CA @ 66°						
				E.O.H @ 128.62						

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Property Clear Creek	NTS 115P-14	Claim Rum 35	Elevation 1730.08m	Azimuth 198°	Length 114.60m	Dip -45°	
Coordinates 37+40N 40+95E	Dip Tests	Advance 80.50 m	Depth 81.20 m	Date Collared Aug 28	Date Completed Aug 30		
Purposes To intersect the east extension of the fault zone and to drill under anomalous rock and soil zones		Drilled by TONTO		Assays by BONDAR CLEGG	Logged by SDR		

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
0	1.00			Overburden
1.30	11.60			Weakly altered metasediments medium grey to rusty, moderate to well foliated highly fractured @ shallow core angles and concordant with the foliations, limonite staining alternating mm scale intervals of dirty qtz'ite (meta greywacke) with cleaner siliceous qtz'ite The dirty qtz'ite has biotite, sericite & muscovite concentrated on foliation planes Very minor mm scale qtz stringers, tourmaline on foliation planes. min 2.5% subdivisional - predominantly concordantal to fractures Off-sets up to 2cm along fractures 3.50 - foliation @ 70°
11.60	14.45			Intermediate Feldspar porphyry medium grey with salt + pepper speckled appearance, massive with abundant fractures - predominant directions 26° & x-cutting @ 30° upper contact @ ~ 43° ~ 10% mm scale biotite, 15-20% yellow to green 2 units altered - Feldspar - subhedral - anhedral phenocrysts → weakly argillically altered

Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
7.20	8.70	1.50	69574	<0.002	
8.70	10.20	1.50	69575	<0.002	Total # of Samples-83
10.20	11.60	1.40	69576	<0.002	
11.60	12.70	1.10	69577	0.006	
12.70	13.85	1.15	69578	0.004	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
				the matrix is moderately silicified, <1% fine disseminated py, & minor trace aspy. limonite and less common hematite pyrolusite on fractures.
				* 13.85 – 14.45. Altered Feldspar Porphyry light yellowish green, the plag phenos have altered to Kaolinite, 2% aggregated light grey rounded quartz limonite pseudos. Fairly friable as the matrix has in part altered to sericite & minor mafic minerals (biotite)
				1415-1435 2-23 cm wide qtz brecc. aspy py veins @ 37°, the splitting ~1% aspy - 1% py are concentrated along margins and in virgy sections of strong limonite altered contacts. Highly fractured & virgy
14.45	15.40			Intrusive Metasediment Contact zone. Alternating metasedo & altered feldspar porphyry, highly fractured. The intrusive is a pale greenish yellowish grey with altered rolled plag & qtz phenos. The texture has been obliterated to a semi-equigranular appearance. The dark grey inclusions are strongly altered

Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
13.85	14.45	0.60	69579	0.011	0.38 gm/t
14.45	15.40	0.95	69580	0.003	

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Interval From	Interval To	Recy %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
				and may be associated in the dyke. Hornblende has flooded and brecciated fractures up to 3cm wide locally up to 2% aggregate is associated with qtz & tourm filled fractures & breaks.						
15.40	24.99	95-100		Altered Metaseds. Ank-bearing gneissic rock with strong hornblende fabric, abundant fractures & veinlets of qtz & tourm filled fractures.						
				Mineralized with fine to medium grained pyrrhotite & chalcopyrite in qtz veins & fractures - mm scale <2.5% sulphides - finely disseminated & blebby	69581	15.40	16.90	1.50	<0.002	
				Blocky broken core locally highly fractured & rubbly	69582	16.90	18.40	1.50	0.011	0.38 gm/t
				Hornblende dyke from 17.00 - 19.90	69583	18.40	19.90	1.50	0.002	
				17.00 fol @ 66°	69584	19.90	21.40	1.50	<0.002	
				20.00 fol @ 58°	69585	21.40	22.90	1.50	0.002	
					69586	22.90	24.10	1.20	0.002	
				24.25-24.35 White glassy qtz veins - irregular, con scale, calcite, cm - mod scale iron oxidation along fractures, mod sericite alteration	69587	24.10	24.99	0.89	0.002	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
24.99	26.60			Intermediate Dyke : Feldspar Porphyry. Similar to 1160 - 1445. massive, red grey speckled, anhedral - Subhedral feldspar 1-6 mm white grey phenocrysts, 2 mm scale latn. alter. biotite ~5% in fine siliceous groundmass. Chloritic fracture plane & minor sulphides noted.	68588	24.99	26.30	1.31	0.005	
				26.30-26.60 Argillically Altered bleached to a light yellowish grey. Fractured & broken fracture faces feldspar phenocrysts altered to kaolinite.	68589	26.30	26.60	0.30	0.013	0.45 gm/t
26.60	27.50			Clastic dyke. dark grey brown mottled to blue/grey qtz fragmental Sharp upper contact @ 36° Rounded qtz fragments are subangular to rounded 2-30 mm to cm scale ~ 30% Fine grained, dark matrix - broken fractured & broken, wavy. mm scale subparallel black fragments - possibly biotite laminae. trace sulphides.	68590	26.60	27.50	0.90	0.013	0.45 gm/t
27.50	27.95			Altered Intermediate Dyke. light greenish yellowish grey. Strongly epidotized mafic component. Feldspars have altered to sericite - kaolinite minor qtz eyes - overall medium - fine grained - faint recognizable individual crystals. minor cm scale healed fractures - xenolithic	68591	27.50	27.95	0.45	0.004	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
27.95	114.60	100%		Metasediments red dark grey, well bedded, locally siliceous, predominantly dirty ~~grey~~ beds, relatively important banding, bimodal fractures, irregular discordant qtz stringers ~ 1/inches, 5mm scale), <1% py+po, finely disseminated & occasionally concentrated along fractures tourm nodules on BP planes very fine grained texture, with a sericite + chlorite - mica rich matrix, on scale of setaceous or abundant micro faults						
				29.00 fol^ @ 60°						
				27.95 - 30.20 limonite stained, abundant limonitic fractures, blocky broken core	69592	27.95	29.00	1.05	<0.002	
					69593	29.00	30.20	1.20	<0.002	
				33.50 fol^ @ 60°	69594	33.00	34.00	100	<0.002	
					69595	38.00	39.00	1.00	0.003	
				38.00 - 39.00 - Moderate - abundant limonitic fractures, concordant + @ shallow core angles.						
				41.00 - 46.90 mm @ < scale micro fractures with po + /or Aspy concentrated along them, locally up to 1% @ predominantly 1/x cutting fol^ @ 30-45°.	69596	41.00	42.50	1.50	0.002	
					69597	42.50	43.20	0.70	<0.002	
					69598	43.20	44.10	0.90	0.008	
					69599	44.10	45.40	1.30	0.025	0.86 gm/t
					69600	45.10	46.50	1.10	0.065 #	2.23 gm/t
				46.50 fol^ @ 50°						

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au^{oz}/t	Au^{gm}/t	
				46.10 - [illegible] intervals of strongly silicified, recrystallized sediments - occasional calcite veinlets							
				silicified, bleached appearance - overall, sediments appear to be clastic, coarse grained, [illegible] with large quartz relict	69601	46.50	48.10	1.60	0.010	0.34 gm/t	1.01 gm/t / 4.3m
				allogenic clasts [illegible] relict sedimentary structure - the chert clasts tend to be [illegible]							
				48.20 - 1cm wide [illegible] vein @ 47° ~2% pyrite in mm scale bleached selvage, ~1% py concentrated in stringers	69602	48.10	48.40	0.30	0.021	0.72 gm/t	
					69603	48.40	49.40	1.00	0.004		
				52.22 - 52.32 - Fg mafic band - mudstone ~2% fg py + aspy	69604	52.10	52.40	0.30	0.010	0.34 gm/t	
				53.20 - Bedding @ 72°, 61° @ 66°							
				53.60 - Flame structure							
				54.14 - 54.19 - Tightly fractured glassy qtz vein ~1% aspy at margins	69605	54.00	54.60	0.60	<0.002		
				silicified + locally bleached to 54.60 offsets up to 2cm along fractures							
					69606	56.40	57.66	1.26	0.002		
				* 57.66 - 58.85 - Silicified with qtz-aspy veinlets @ 140-45° approx 4% total vein: 57.66-58.26 ~abundant micro-fractures in qtz + aspy - hal stringers ~2% sulphides	69607	57.66	58.26	0.60	0.046	1.58 gm/t	
				Mtl 61° is pervasively silicification - rusty buff colour.	69608	58.26	58.85	0.59	0.007		
					69609	56.85	59.85	1.00	0.008		

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
					69610	59.85	60.52	0.67	0.010	0.34 gm/t
				60.52 - 66.97. Silicified, ligneil tan & buff, bleached massive, fine grained in parts quartzite to weakly fractured with mm-cm scale qtz veinlets as veins in various orientations they vary from white & glassy to grey & sucrosic						
				1% sulphides locally up to 2% finely disseminated & concentrated along micro-fractures ~ .5% py, .5% po ~ .5-1% Aspy	69611	60.52	67.52	1.00	0.008	
				minor dm scale mafic foliated intervals - Sericitized on scale of 1% along micro-fractures	69612	61.52	62.52	1.00	<0.002	
					69613	62.52	63.60	1.08	<0.002	
				61.10 Bedding @ 60°						
				61.67 - 61.79 White sucrosic barren qtz veins						
				63.30 Bedding @ 64°						
				63.75 White qtz-copy vein @ 46° x-cutting foliation	69614	63.60	63.90	0.30	0.038	1.30 gm/t
				fine copy concentrated in narrow bands along margins ~ 2%, 1% py	69615	63.90	65.00	1.10	<0.002	
				the qtz is white milky & glassy	69616	65.00	66.00	1.00	<0.002	
					69617	66.00	66.97	0.97	<0.002	
				66.97 → locally contorted, sericitized, well foliated 67.50 foliation @ 60°						
					69618	66.97	68.00	1.03	<0.002	
					69619	68.00	69.50	1.50	<0.002	
				72.60 - 73.30 copy in micro fractures ~ 1% fractures x-cut foliation @ 30-40° foliation @ 60°	69620	72.60	73.30	0.70	0.003	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Py/Po	As	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
				74.00-76.5 cm scale sinistral movement along fractures @ shallow core angles. Turbidite sequence. Flame structures @ contacts tops are to the top of the hole fine dark meladiorite to coarse grained qtz ucu - psammite bedding appears to be sub-parallel to the 6/12 individual beds are not easily recognizable in this pile than 0 1-5 locally metasomatized; cm scale chlorite rich bands to bedding @ 90° concentrations to 3% in thin radiolarian micrite - gypsum veins form nodules 2mm-mm scale on 6/12 planes. fabric: stage irregular orientation <1% fg py+po in veins on fractures - minor micro veinlets microfractures magnetic: locally up to 4% fine disseminated po								
				77.75-78.65 medium grey massive fine grained siliceous intrusive - silicified equigranular <1% fine disseminated po-py, locally stringers on fracture planes - up to 2%			77.75	78.65		69624	0.008	
							78.65	79.65	1.00	69625	0.002	
				79.65-80.00 Sericitic argillite - siliceous bed. sinistral movement along fractures @ 45°+30° x actively 6/12; movement → cm scale	1.2%	2%	79.65	80.00	0.35	69626	0.129	442 gm/t
				5cm qtz-carb veins + stringers infilling fractures 2% carb locally up to 3% 1% py carb fractures & qtz veins + carb veins in quartz-filled along stringers & in internal fractures. argillite is a pale green-grey beige - moderately calcareous to carbonate along fractures.								

AURUM GEOLOGICAL CONSULTANTS INC. DIAMOND DRILL LOG HOLE No. A-88-6

Property	NTS	Claim	Elevation	Azimuth	Length	Dip
Coordinates	Dip Tests	Advance	Depth	Date Collared	Date Completed	
Purposes	Drilled by	Assays by	Logged by			

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
				Surrounding mac mafic metavole are very locally calcareous & carbonate rich fractures. Limonitic cm scale blebs in vugs + along bar foliages - anhedral						
80.00	80.35			mafic band in HW sulphides - finely disseminated 2% po, 1% py - 1% Sarpy wkly calcareous to carbonate on fracture planes; magnetic mm-cm scale fractures. @ shallow core angles to chlorite biotite + possibly tourmaline bearing - gas sulphide enriched - fine laminated - black band	69627	80.00	80.35	0.35	0.131	4.49 gm/t
					69628	80.35	81.35	1.00	0.003	
					69629	81.35	82.23	6.88	<0.002	
				fol @ 68°						
				82.23 - 83.35. med-light grey siliceous qtzite fine sucrosic texture qtzite → very qtz rich, fine disseminated po ~ 1% agg concentrated in fractures both in host + cm scale qtz veins subparallel to fol.	69630	82.23	83.35	1.12	0.003	
					69631	83.35	84.50	1.15	<0.002	
					69632	84.50	86.00	1.50	0.002	
				88.40 Bedding @ 67°, fol @ 70°	69633	86.00	87.50	1.50	<0.002	0.69 gm/t
				87.50 - 89.75 2 qtz veins cm scale, one x-cuts the fol @ 45, chlorite clots 2% ag py-sp along fractures.	69634	87.50	89.00	1.50	0.024	0.82 gm/t
					69635	89.00	90.00	1.00	<0.002	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
				90.00 → Increase in qtz filled micro fractures. @shallow rare angles & incr abund to 6/ft → mm scale
92.20				qtz vein @ 82° with 1% fine aspy along margins, up to 2% pyrite disseminated in host sericitic qtzite
				carbonate-chlorite on micro fractures
				minor fine aspy noted along micro-fractures
94.25				1cm wide milky white qtz vein @ 46° x cutting 6/ft with 1% aspy + 1% py both in coarse mm scale subhedral crystals on margins of vein. 6/ft @ 57°
95.30	95.80			Carbonated muscovite rich metaseds
96.90	97.60			Carbonated metaseds ± mm-cm scale carbonated qtz stringers + pegmatic. Oxidized limonite staining 2% po in mm scale blebs along margins of veins + in fractures & chlorite
98.10				→ mm scale qtz arsenopyrite stringers @ 88° x cutting 6/ft
				bedding @ 72°
100.15	100.50			Carbonated qtz-mm-cm scale veins → 4% x cutting 6/ft, aspy in micro fractures

Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
90.00	91.50	1.50	69636	<0.002	
91.50	92.50	1.00	69637	0.007	
92.50	94.00	1.50	69638	<0.002	
94.00	94.50	0.50	69639	0.002	
94.50	95.80	1.30	69640	<0.002	
95.80	96.80	1.10	69641	0.004	
96.80	97.80	0.80	69642	<0.002	
97.80	98.40	0.60	69643	0.020	0.69 gm/t
98.40	99.90	1.50	69644	0.008	
99.90	100.50	0.60	69645	0.017	0.58 gm/t
100.50	102.00	1.50	69646	0.006	
102.00	103.30	1.30	69647	<0.002	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au ^{fm}/t
				103.30 – 104.05 Irregular discontinuous qtz stringers – on stable. Bleached & talc-sericite pyritic natures in chloritic + musc clots. The surrounding metasedo are sericitized & contain fine needles noted on the 60° planes. 1% approx in mm scale subhedral crystals on fractures, + 1% pyrite + po minor disseminated approx.	103.30	104.80	1.50	69648	0.006	
				104.80 – 106.83 buff-tan coloured quartzite very siliceous fine equigranular texture moderately fractured / difficult to recognize, abundant irregular mm-cm scale qtz veins + stringers + stringlets + polygonal fracturing limonite stringers. Approx 1% mm scale fractures. Favoured orientation of 20° x cutting Co. axis. overall in 1% locally up to 2% po. finely disseminated & minor py noted sericitic partings.	104.80	105.80	1.00	69649	0.007	
					105.80	106.83	1.03	69650	0.005	
				106.83 60° @ 67°						
				106.83 – 114.60 Musc + Sericite rich metasedo – qtzite – semi-schist – ~~schist~~, alternating with non equigranular semi-massive qtzite up to 2% finely disseminated po + py approx. Occ fractures on fracture faces – later stage than po + py, and mm scale qtz veins @ irregular angles + stringers.	106.83	108.30	1.47	69651	<0.002	
					108.30	109.80	1.50	69652	0.006	
					109.80	111.30	1.50	69653	<0.002	
					111.30	112.50	1.20	69654	<0.002	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
				Cumulations along 61° - contorted locally
				113.50 - Bedding @ 57°
				114.00 - 61° @ 67°
				E.O.H. 114.60

Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
112.50	113.50	1.00	69655	<0.002	
113.50	114.60	1.10	69656	<0.002	

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Property: Clear Creek	NTS: 115 P·14	Claim: Rum 14	Elevation: 1640.79 m	Azimuth: 125°	Length: 151.31 m	Dip: 45°	
Coordinates: 34+45N, 34+14E	Dip Tests: C.S.O.H. 44°5'	Advance: 108.00 m	Depth: 106.70	Date Collared: Aug 30	Date Completed: Sept 5		
Purposes: To test for the western extension of the fault zone, and drill under Anomalous Soil values up to 2000ppb Au.	Drilled by: Tonto	Assays by: Borden Clegg	Logged by: SDR				

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au g/t
0	5.70			Overburden ie broken core - sand						
5.70	39.00	85%		Metasediments - locally Contacted medium to light grey green to buff. alternating m-dm scale well foliated fractured biotite & chlorite rich dirty qtzite is more massive equigranular sericitized clean qtzite cross qtz stringers locally concentrated as contacted clean qtzite intervals. relatively blocky broken core locally friable in strongly fractured hematitic and sericitic intervals <1% po + py finely disseminated locally up to 2%. white soft nitrous mineral smears - growing in fine radiating needles on foliation planes = gypsum?? abundant fractures - favoured orientation @ shallow low angle up to 4" fine disseminated pyrite noted in relatively clean qtzite - wkly silicified - bleached sulphides are also concentrated on foliation planes very minor bright apple green micas noted	7.32	8.80	1.48	69657	0.004	109 Samples
				9.30 - 10.36 very friable broken core, contacted and fractured, sericitized & weakly argillically bleached locally	8.80	10.36	1.56	69658	0.003	
					10.36	11.80	1.48	69659	0.003	
				14cm -> foliation @ 56°	11.80	13.30	1.50	69660	0.014	0.48 gm/t
		40%		13.41-14.02 missing core - 40% recovery	15					

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
					1					
				14.15-14.65 dark grey, black fg. metred intervals (mudstone) cm-dm scale, upto up to 2l fine disseminated - stretched along fol^n po + py magnetic	13.30	14.80	1.50	69661	0.009	
				16.10 – 16.85. Friable, strongly sericitized, carbonated, locally argillically altered limonite stained, minor vuggy intervals with qtz lenses - bandcarbonate "	14.80	16.10	1.30	69662	0.018	2.67 gm/t
					16.10	17.00	0.90	69663	0.009	
				17.65 - 18.10 bed of mudstone, abundant limonitic micro fractures, bedding^d qtz stringers	17.00	18.50	1.50	69664	<0.002	
					18.50	19.60	1.10	69665	0.016	0.55 gm/t
				19.00 – 21.00 Carbonate, abundant limonitic fractures, locally wk'y silicified irregular x-cutting mm-cm scale qtz veinlets in pervasive qtz-carb, locally sericitized - fuchsite needles noted on fol^n planes	19.60	21.00	1.40	69666	0.004	
				21.00 – 21.94 Friable clay + sericite rich interval → gouge zone, mineralized to rounded mm-cm siliceous - qtz fragments in a sericite schist, very strongly foliated, to completely altered to clay	21.00	21.94	0.94	69667	0.003	
					21.94	23.40	1.46	69668	<0.002	
					23.40	24.80	1.40	69669	<0.002	
					24.80	25.80	1.00	69670	0.003	
					25.80	26.85	1.05	69671	0.271 #	9.29 gm/t
				26.85 – 27.55 Gouge zone, argillically altered grey-blue to limonitic fracturing, clay to sericitized, siliceous angular - subrounded mm-scale fragments	26.85	27.55	0.70	69672	0.007	
					27.55	29.00	1.45	69673	<0.002	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
				33.00 - Fol^ @ 52°
				34.30 - 34.65. Limonite flooded, abundant mm scale irregular qtz stringers.
				35.00 - 39.00 metasediments are more strained, & deformed, strongly foliated to schistose, abundant limonitic fractures, rusty to medium grey, sericitized - wispy granulated sericite, mm scale laminae, mm hematite staining all fine pyrite smeared on Fol^ planes, fine locim needles noted on Fol^ planes in sericitic intervals, minor pyrolusite in mm scale cavities.
				38.50 Fol^ @ 60°
39.00	50.09	18% rec		FAULT ZONE - BLEACHED & BLEACHED. extremely friable with moderate to good recovery, strong Fol^ → schistose to phyllitic predominantly light grey to bleached quartzite - siliceous qtz rich granular texture to sericitic pantoge with argillically altered mm scale feldspar porphyroblasts? imprint Fol^, mm & cm scale fragments of this are cemented with a limonitic & sericite rich matrix. mm brecciated qtz veins - bedding mica fine to mm needles noted on Fol^ planes.

Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
31.00	35.00	1.00	69674	<0.002	
35.00	36.20	1.20	69675	0.268#	9.19 gm/t
36.20	37.60	1.40	69676	<0.002	
37.60	39.00	1.40	69677	0.002	
39.00	40.20	1.20	69678	0.006	
40.20	41.40	1.20	69679	<0.002	
41.40	42.40	1.00	69680	0.006	
42.40	43.40	1.00	69681	0.005	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
				limonite stained, minor pyrolusite on fractures. & FeC veins. minor sulphides noted. minor mm scale discontinuous black wisps of tourmaline along foliation						
		98%		43.40 - 47.10 slightly more competent, good recovery, strongly foliated with sericite, pervasive bleached light green silt puffs, limonite fractures, fibrous needles (irregular orientation) on foliation planes, locally vuggy & highly fractured.						
				44.50 - foliation @ 53°	43.40	44.60	1.20	69682	0.005	
				44.79 - 50.09. Lapse - sand is brecciated mm-cm scale fragments of metasediment clay + sand matrix	44.60	46.00	1.40	69683	0.002	
					46.00	47.10	1.10	69684	0.003	
					47.10	48.40	1.30	69685	0.005	
					48.40	49.71	1.31	69686	0.005	
				FAULT - BRECCIA						
50.09	51.80			50.09 - 51.80 Strongly fractured - (brecciated) with limonite fractures, strong argillic alteration, grey, white - rusty clay matrix. breccia - mm-cm scale angular to subrounded fragments of siliceous metasediment in clay, sericite - kaolinite matrix relatively good recovery - overlaid in clay	49.71	50.80	0.99	69687	0.005	
					50.80	51.80	1.00	69688	0.010	0.34
51.80	72.80			ALTERED METASEDIMENTS. light to medium grey green, moderate to well foliated, occasional clean & dusty gouge. Highly fractured, competent in cm scale intervals of blocky broken core. limonite staining especially in fractured intervals, healing fractures: favoured orientations	51.80	53.00	1.20	69689	0.003	
					53.00	54.30	1.30	69690	0.014	0.48 gm/t

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
				are sub-parallel to foln and at stallow core angles minor qtz and qtz-carb stringers @ stallow core angles sericitized, minor fuchsite on foln planes trace sulphides - <.5%	54.30	55.60	1.30	69691	0.003	
					55.60	57.00	1.40	69692	0.002	
				56.50 - foln @ 57°						
				57.00 - 57.20 Argillically altered - gouge + fractured schist - friable						
				57.10 - 57.50 mm scale qtz-carb stringers - @ a stallow core angle mm scale carb crystals are concentrated along margins + at ~11 to fracture @ contact to host rock	57.00	57.60	0.60	69693	0.036	1.23 gm/t
					57.60	59.00	1.40	69694	0.009	
					59.00	60.50	1.50	69695	0.120#	4.11 gm/t → 2.62 gm/t
					60.50	61.90	1.40	69696	0.030	1.03 gm/t → 54 mc
				62.00 - 62.30 fractured, ankerite in veins + along fractures, broken blocky core, brittle: brecciated interval	61.90	62.79	0.89	69697	0.005	
				62.79 - 66.88 Mod pervasive limonite staining, highly fractured + locally brecciated 2 wisps (<mm) sericite + biotite parallel foln + deformation	62.79	64.00	1.21	69698	0.002	
					64.00	65.40	1.40	69699	0.003	
				65.00 foln @ 50°						
				65.54-65.90 White siliceous qtz veins, minor limonitic veins - mm scale, Mn - ankerite on fractures minor ~5% dark grey sulphides → brittle: tennantite ??	65.40	65.90	0.50	69700	0.016	0.55 gm/t

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
65.84	68.20			Vuggy + fractured blocky broken core, Mn + Fe oxide on fracture planes, sericitized + argillically altered, Bim needled on fol'n planes.
68.20	72.80			Predominantly amphibolized medium grey green / dusky green sericite - biotite - chlorite - qtz schist - phyllite, extremely fine grained texture, 1% py + po concentrated on fractures + fol'n planes, mm qtz cpy filled micro-fractures.
				70.00 fol'n @ 57°
				71.00-71.20 laminated chlorite sericite qtz vein brecciated + vuggy in Fe oxide + muscovite in-filling.
72.80	86.30			Siliceous Silicified metasediments
				alternating dm + m scale beds of bimodal qtzite and dusky mm grained schistose qtzite;
				The bi-modal qtzite has a mottled light - medium grey appearance with fine grained qtz + coarser mm scale qtz obls + grains, minor makes + sericite make up matrix. Upper contact @ 38° tc. which marks weak fol'n, in places the coarser qtz appears to over print the fol'n, and as a whitish grey in contrast to the glassy fine qtz grains.

Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
65.90	67.00	1.10	69701	0.002	
67.00	68.20	1.20	69702	<0.002	
68.20	69.60	1.40	69703	0.026	0.89 gm/t
69.60	70.90	1.30	69704	<0.002	
70.90	71.30	0.40	69705	0.011	0.34 gm/t
71.30	72.80	1.50	69706	0.005	
72.80	74.10	1.30	69707	0.006	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
				up to 2% disseminated py + py also concentrated on fractures	69708	74.6	75.50	1.40	0.012	0.41 gm/t
				more abundant qtz + qtz-carb veins noted in this unit from ore zone dirty well foliated qtzite.						
				local carb on micro fractures ~5% @ shallow core angles.						
				76.50 bedding @ 57°						
				77.60 bedding @ 61° fol'n @ 58°						
				75.60 - 75.95 irregular qtz-carb veins	69709	75.50	76.00	0.50	0.063	2.16 gm/t
				carb + some qtz-carb fractures + ad in veinlets throughout fractures, fine sucrosic texture	69710	76.00	77.50	1.50	<0.002	
					69711	77.50	79.00	1.50	0.013	0.44 gm/t
					69712	79.00	80.00	1.00	0.003	
				80.00 - 86.30 Silicified ~4 (cm scale) qtz veins per meter - predominantly bi-modal qtzite	69713	80.00	81.20	1.20	0.023	0.77 gm/t
				81.40 - mm scale qtz carb vein @ 15°	69714	81.20	81.70	0.50	0.004	
				up to 3% fine disseminated mm scale dots of py + po, carb on micro-fractures & in qtz veins.	69715	81.70	83.10	1.40	0.004	
				83.20 - 83.45 cm scale qtz carb vein @ shallow core angle, carb alteration & disseminated fg sphalerite	69716	83.10	83.60	0.50	0.033	1.13 gm/t
				Silicified selvages ~ 1% py	69717	83.60	85.00	1.40	0.010	0.34 gm/t
				84.12 Sharp bedding contact @ 68°	69718	85.00	86.30	1.30	0.007	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
86.30	110.90	85-100%		METASEDIMENTS						
				Similar to previous interval except not as silicified + with more distinct foliated qtzite - meta-greywacke & minor bi-modal qtzite.	86.30	87.30	1.00	69719	0.005	
				medium to dark grey competent well foliated & locally contorted fol^n marked by wisps + laminae of sericite biotite muscovite + chlorite. more massive cleaner qtzite have a fine equigranular moderately foliated texture minor fractured	87.30	88.60	1.30	69720	0.006	
				~ 1-2% fine disseminated py + po, minor appy in fractured weakly silicified interval minor reaction w HCl carbonate on fracture planes, minor Fe-carbonate assoc w qtz-carb veins	88.60	90.00	1.40	69721	<0.002	
				81.00 fol^n @ 61°						
				89.60 bedding @ 50°						
				90.00 - 90.60 qtz appy stringer @ shallow ang to bedding, minor blebs of Fe carb in qtz and along selvages.	90.00	90.60	0.60	69722	0.013	0.44 gm/t
				~2% py appy	90.60	92.10	1.50	69723	<0.002	
				appy also noted in surrounding metased concentrated along fractures + fol^n planes.	92.10	93.60	1.50	69724	<0.002	
				96.00 mm scale qtz stringer @ 20°	93.60	95.10	1.50	69725	0.002	~1m of core missing
				~1% fine disseminated py along stringer	95.10	96.60	1.50	69726	0.002	~1.5m "
				+ trace molybdenite → alteration halo	96.60	98.10	1.50	69727	0.002	
					98.10	99.40	1.30	69728	0.005	
				97.50 fol^n @ 51°	99.40	100.90	1.50	69729	0.005	
				98.60 qtz-appy mm scale stringer @ shallow ang to bedding						

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
				102.70 bedding 58°, foln @ 51°
				102.78 – 106.66 Bi-modal quartzite, light to med grey, moderately to well fractured, extremely siliceous - minor impurities ; sericitic partings, approx silicified, abundant – (1 to 7 metres) - qtz veins predominantly mm scale, aspy is associated w qtz stringers & fractures @ shallow core angles. mod scale subrounded to rounded white qtz grains - resemble augen - make up up to 10% in fine equigranular quartz rich ground mass, minor dendritic pyrolusite was noted, up to 2% fine disseminated po-py with concentrations on fracture & to 1% places, minor aspy associated stage fractures. Fractures have fe-oxide halos up to 2cm wide ; minor dom cm intervals of well blotched dirty qtzite - more zonite rock
				106.66 → bedding @ 51°
				106.66 – 110.40 Medium grey well fractured qtzite, homogenous equigranular texture, fractured and flooded w black tourmaline ?? 1% fine disseminated py+po, aspy concentrated along fractures at shallow core angles w qtz, occasionally precipitated mm cm scale tzd angular fragments of the host rock, rocks are strongly fractured & tourm flooded intervals – true & fissurable, chloritic increases down hole in this interval, carbonate veins noted on fracture planes, overall very minor reaction w HCl,

Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au g/m/t
100.70	101.70	1.00	69730	<0.002	
101.70	102.78	0.88	69731	<0.002	
102.78	104.00	1.22	69732	0.002	
104.00	105.30	1.30	69733	0.002	
105.30	106.66	1.36	69734	0.008	
106.66	108.00	1.34	69735	0.002	
108.00	109.20	1.20	69736	0.005	
109.20	110.40	1.20	69737	0.012	0.41 gm =

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
110.40	110.70			110.40 - 110.70 Breccia - clast supported angular - subangular mm - cm scale qtzite and sericite schist fragments in a dark grey to black tourmaline rich matrix ~20% clasts, competent - well cemented minor sulphides noted.	110.40	110.70	0.30	69738	0.008	
110.70	151.81			110.70 Locally silicified medium grey qtzite <1% fine disseminated py+po associated along fractures @ shallow angles in silicified intervals - locally up to 1%, alternating fine granular qtzite w/ sericite ± biotite schist ± semi-schist relate on 61° planes	112.00	113.20	1.20	69740	<0.002	
				113.20 - 114.15 Bleached - light greenish beige, well foliated, argillically altered qtzite, sericitized - sericite 61° planes, fine equigranular texture. ~ minor fine - < mm argillically altered feldspar grains in a predominantly qtz + sericitic rich unit. limonitic fractures with cm scale fe. oxide halos, qtz veins + stringers @ shallow core angles - vuggy nature. minor sulphides	113.20	114.15	0.95	69741	0.004	
					114.15	115.50	1.35	69742	<0.002	
				115.50 61° @ 60°	115.50	116.50	1.00	69743	<0.002	
				116.50 - 117.00 limonitic sericite schist strongly fractured. vuggy nature, hematite on fracture planes	116.50	117.00	0.50	69744	<0.002	
					117.00	118.00	1.00	69745	0.002	
					118.00	119.03	1.03	69746	<0.002	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
				118.03 – 120.00 Carbonated Svinite rich in sericitic laminae marking bedding (Foliation) non scale qtz appy vein @ very shallow core angle ptygmatic non scale qtz stringers limonitic fractures u/l pyrite in qtz along 60° - ¼" in fractures.
				120.00 – 127.80 locally silicified abundant fractures, qtz stringers @ shallow core angles to bedding appy along selvages and in surrounding silicified, sericitized & locally mineralized ≥ 1% fine disseminated py + po locally up to 1% Appy minor calcareous fracture planes
				123.50 - 60° @ 53°
				124.20 - 125.30 limonitic fractured - silicified fractured - broken - blocky core, sericitized qtz veins @ shallow appy angles, limonitic fractures @ shallow core angle.
				127.80 – 130 Svinite-biotite ± quartz schist, locally carbonated, fine laminae of sericitic biotite, minor 60° to determination ≤ 1% fine disseminated py + po
				130.00 - 60° @ 56°

Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au g/t
118.03	120.00	0.97	69747	0.002	
120.00	121.30	1.30	69748	<0.002	
121.30	122.50	1.20	69749	0.004	
122.50	123.75	1.25	69750	0.004	
123.75	124.80	1.05	69751	0.002	
124.80	125.80	1.00	69752	0.015	0.51 gm/t
125.80	126.80	1.00	69753	0.003	
126.80	127.80	1.00	69754	<0.002	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au g/t
130.30	151.81			Qtzite, locally silicified - assoc mm scale qtz stockwork fractured towards bedding @ 40°, Sericitized bimodal - qtz eyes mm scale qtz augen within foliated sericitic qtzite, alternate in dm to m scale intervals & dirty qtzite to bio-sericitic Fractured zone towards bottom of section	130.30	131.80	1.50	69755	<0.002	
					131.80	133.30	1.50	69756	<0.002	
					133.30	141.30	1.50	69757	0.049	1.68 gm/t
					141.30	139.90	1.10	69758	0.002	
				<1% fine disseminated py mm to - locally up to 2% micro thin veinlets or fractures very minor chlorite chls noted in more mafic parts black mineral specks some of the clusters Zeolite - possibly tourmaline Feldspathic intervals in qtzite to altered mm scale feldspar crystals Variations bimodal qtzite, lose no distinct contacts grade into each other						
135.90	138.50			Altered sericitized & argillic alt. altered, bi-modal qtzite - feldspathic light greyish green highly fractured locally limonite stained, sheeted sericitic fractures mm scale feldspar - have been altered to kaolinite, rounded qtz eyes are still in foliated qtzite, Vuggy qtz fractures, minor qtz veins - Blueish-grey & predominantly ab parallel to foln - pyrite fracturing along these selvages Overall <1% fine disseminated py, minor disseminated micro bornite on fractures & foliation planes.	135.90	137.20	1.30	69759	0.041	1.40 gm/t
					137.20	138.50	1.30	69760	0.005	
					138.50	140.00	1.50	69761	<0.002	
					140.00	141.50	1.50	69762	0.009	
					141.50					
				136.50 foln @ 46°						

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
				146.00 Gl^a @ 59° bedding sub parallel to Gl^a
				145.25 – 151.81 Locally up to 2% disseminated pyrite also trace on Gl^a planes
				abundant quartz fractures
				locally feldspathic, 2-5 mm
				Scale white sericitized feldspar.
				~~Pyrite~~, 0.5-1.0%, minor Mn oxides on fractures

Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au g/t
145.25	146.75	1.50	69763	<0.002	
146.75	148.25	1.50	69764	0.003	
148.25	149.75	1.50	69899	0.003	

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Property: Clear Creek	NTS: 115P/1	Claim: Run 13 & 14	Elevation: 1619.85m	Azimuth: 145°	Length: 190.80	Dip: 045°	
Coordinates: 34+25N, 33+90E	Dip Tests: @ E.O.H. 42°50'	Advance: 135.00	Depth: 135.00m	Date Collared: Sept 6	Date Completed: Sept 9		
Purposes: To test under ice seal anomaly & the last few significant ...	Drilled by: Tonto D.D.			Assays by: [illegible]	Logged by: [illegible]		

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
				Silting and argillic alteration noted in an outcrop at 33100N, 34+20E						
0	2.80			OVERBURDEN						
2.80	36.85	98-100		INTERBEDDED SEDIMENTS medium-dark grey-green, well foliated & locally contorted, alternating sericite-biotite-muscovite-quartz semi-schist with more massive beds of relatively clean quartzite Abundant limonite on fracture & fol^n planes, sericitic laminae mark fol^n & deformation. <1% fine disseminated py + po, appy only noted assoc. to fractures & qtz veins. ±5% micro barren needles noted on sericitic fol^n planes predominantly strongly foliated dirty quartzite / sericite-bio-qtz-musc semi? schist minor white glassy, crystalline, soft mineral on fol^n planes - secondary - gypsum/anhydrite ?? moderately to strongly magnetic, little to no reaction to HCl						TOTAL 134 Samples
					69765	4.00	5.00	1.00	0.002	
		80%		2.80-8.00 blocky broken core, appy related to fracture planes	69766	5.00	7.00	2.00	0.051	1.75 gm/t
				6.50 - on scale qtz appy veins.	69767	7.00	8.00	1.00	0.07	0.58 gm/t
				* 4.88 - 7.32 - → 1.25 metres of missing core = 50% recovery	69768	6.00	9.00	1.00	0.002	1.36 gm/t 3m
				9.00 - Bedding @ 75°						
				9.45 1cm wide wide milky qtz veins @ 45° fine appy associated with bounding meta sediments <1%	69769	9.00	9.60	0.60	0.008	
					69770	9.60	11.00	1.40		

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
				12.15 qtz stringers @ 28° to appy in vugs & along fine fractures.
				N00 61° @ 71°
				12.50 – 13.41 Silicified, highly fractured limonite stained, qtz veins - irregular & subparallel to fol'n ½ to 1 appy in fine crystalline blebs & coarse vuggy fractures & silicified halos (appy 1 qtz vein ... 1 appy disseminated fine pyr accessories ...
				15.90 3 cm well ribbed qtz appy vein @ 24° appy blebs & irregular fine vugs
				19.50 fol'n @ 70°
				20.25 limonite coating on a few fractures & pyrite grains in halos
				23.16 – 26.50 micro fractures occasionally open & vuggy, walled by qtz ± appy & rusty limonite stained selvages; fine stringers
				25.20 mm sized qtz filled geodes ⊥ to fol'n
				26.21 1 cm wide granular white qtz appy vein @ 25° vuggy & fractured, ⊥ fol'n appy
				26.90 – 27.40 blocky broken core, abundant rusty fractures, altered - ser - qtz rich schist

Interval From	Interval To	Core Width	Sample No.	Au^{oz}/t	Au^{gm}/t	
11.00	12.50	1.50	69771	0.006		
12.50	13.41	0.91	69772	0.006		
13.41	14.31	1.40	69773	0.003		
14.31	15.75	0.91	69774	0.003		
15.10	16.10	0.40	69775	0.024	0.82 gm/t	
16.10	17.60	1.50	69776	0.007		
17.60	19.10	1.50	69777	0.028	0.96 gm/t	0.81 gm/t 3.6m
19.10	20.60	1.50	69778	0.022	0.75 gm/t	
20.60	21.20	0.60	69779	0.017	0.58 gm/t	
23.16	24.66	1.50	69780	0.016	0.55 gm/t	
24.66	26.00	1.34	69781	<0.002		
26.00	26.50	0.50	69782	0.108#	3.70 gm/t	1.67 gm/t 1.50m
26.50	27.50	1.00	69783	0.019	0.65 gm/t	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
				30.00 · fol^ @ 68°						
				30.25 irregular ragged cm scale qtz mass vein	30.00	31.00	1.00	69784	<0.002	
				30.50 ± 30.80 limonite / hematite stained fracture subparallel to fol^n - cm scale bands · minor py noted	31.00	32.32	1.32	69785	0.004	
				31.00 → pyritic fractures, locally crinkled & folded · ptygmatic qtz stringers · sericitic laminae · minor ragg filled fractures occasionally to qtz.	32.32	33.27	0.95	69786	<0.002	
					33.27	34.57	1.30	69787	0.147+	5.04 gm/t
					34.57	35.70	1.13	69788	0.002	
36.85	41.00			Feldspathic Dike:	35.70	36.85	1.15	69789	0.050	1.71 gm/t
				[illegible]	36.85	38.00	1.15	69790	<0.002	
				[illegible]	38.00	39.50	1.50	69791	<0.002	
				1-2 cm qtz stringers sub parallel to fol^n · intense millimetre - 5 cm up to 15% equigranular alt. feldspar - mm scale pyrite · minor subvitreous nitel, no HCl reaction · minor Mn-oxides on fractures.	39.50	41.00	1.50	69792	0.025	0.86 gm/t
				39.00 fol^ @ 70° - marked by qtz + sericite laminae						

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
41.00	42.97	95-98%		Altered fault Gouge friable brown to grey argillically altered Sericitic rusty - dominant limonitic fractured bedrock - fractures at irregular - brecciated, grey sand size fragments of silty + Sericite fault rock matrix Iron stain on fracture surfaces, off sets up to cm Some clay fracture surfaces - reddish brn gouge fault plane - 11 slickensides noted - matrix is 11 by ± 20% fragments (veins) 2 inches are angular	41.00	42.00	1.00	69793	0.058	1.99 gm/t
					42.00	42.97	0.97	69794	0.012	0.41 gm/t
42.97	52.35	90-100%		Altered, grey sericitic + feldspathic Quartz Strong limonite staining - abundant rusty fractures, silicified, strongly, foliated & locally crackled <5% disseminated Sulphides ≈1% crosscutting white qtz veinlets fractures locally up to 1%, generally fractures are 1% or less - 2% more limonitic, less siliceous more common qtz veinlets fracture veining	42.97	44.20	1.23	69795	0.005	
					44.20	45.50	1.30	69796	0.006	
				45.75 qtz py asp (chalcite) stringers @ 24° in argillically altered Sericitic feldspathic quartzite	45.50	45.90	0.40	69797	0.004	
					45.90	47.00	1.10	69798	<0.002	
				47.25 3cm wide white milky qtz vein @ 24°, wavy with qtz crystals growing into rock, asp along stringers & in bands along fractures, trim on Sericitic foliation planes	47.00	47.40	0.40	69799	0.503	17.24 gm/t

AURUM GEOLOGICAL CONSULTANTS INC. DIAMOND DRILL LOG HOLE No. CC-88-9

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
										4.63 gm/t / 1.8m
					69800	47.40	48.80	1.40	0.032	1.10 gm/t ↑
				48.00 [illegible] @ 73° fracture set @ 36° - x cutting [illegible]						
				49.05. cm scale qtz. aspy vein @ 25° muscovite along selvages	69801	48.80	49.40	0.60	0.005	
				[illegible]	69802	49.40	50.90	1.50	0.004	
				fractured [illegible] vein ~ 2% aspy in mm scale disseminated blebs.	69803	50.90	52.35	1.45	0.002	
52.35.	85.10			METASEDIMENTS.						
				medium grey to rusty - limonite stained [illegible] [illegible]	69804	52.35	53.80	1.45.	0.032	1.10 gm/t
				[illegible]						
					69805	53.80	54.55	0.75	0.011	0.38 gm/t
				55.00 [illegible] @ 63°						
					69806	54.55	55.80	1.25	0.005	
				56.00 bedding @ 60°	69807	55.80	56.90	1.10	0.003	
				57.10 aspy py filled fracture @ shallow core angle ~ 20°	69808	56.90	57.30	0.40	0.058	2.00 gm/t
					69809	57.30	58.30	1.00	0.002	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
				58.60 mm scale qtz carb filled fracture @ 27°, vuggy	69810	58.30	58.80	0.50	0.003	
					69811	58.80	60.20	1.40	0.003	
				58.60 → carb alteration fracturing <1% bxd						
					69812	60.20	61.70	1.50	0.010	0.34 gm/t
					69813	61.70	63.20	1.50	0.035	1.20 gm/t
				65.00 [illegible]	69814	63.20	64.70	1.50	0.007	
				[illegible]	69815	64.70	65.20	0.50	0.015	0.51 gm/t
				65.20 to 66.55 [illegible]	69816	65.20	66.55	1.35	0.003	
				[illegible]	69817	66.55	68.00	1.45	0.004	
				[illegible] @ 59°	69818	68.00	69.30	1.30	0.033	1.13 gm/t
					69819	69.30	70.50	1.20	0.081 #	2.78 gm/t → 1.79 gm/t / 3m
				70.65-70.95 mm scale qtz carb vein @ 13° to c.a. [illegible] Spiral effects along fractures [illegible]	69820	70.50	71.00	0.50	0.034	1.16 gm/t
				71.95. 2cm wide brecciated fracture @ 60°, mm-cm fragments of silicified limonitic matrix, x-cuts Gal Δ	69821	71.00	72.10	1.10	0.007	
					69822	72.10	73.10	1.00	0.011	0.38 gm/t
		*		73.16 - 73.60 limonitic breccia upper contact marked by cm qtz carb vein @ 30° lower contact - gouge @ 63° cm scale angular fragments of sericitic altered limonitic [illegible] silicified rich matrix, trace medium grained Gal, sericitic Pole plane, abundant limonitic fractures - vuggy [illegible]	69823	73.10	73.60	0.50	0.215	7.37 gm/t
					69824	73.60	75.00	1.40	0.003	
					69825	75.00	75.90	0.90	0.002	

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
				76.10 0.5cm qtz-carb-py-cpy vein @ 24° 10% carb-qtz-py-cpy veinlets along & wisps - micro py-carb-cpy, vuggy	75.90	76.50	0.60	69826	0.027	0.93gm/t
					76.50	77.60	1.10	69827	<0.002	
				77.50 GLA @ 52°	77.60	78.60	1.00	69828	0.014	0.48gm/t
				78.80 cm scale qtz-carb veinlets, fractured minor carb & py veinlets oriented @ margins & few fractures oriented @ 0° limonite & hematite stained - contorted	78.60	79.30	0.70	69829	0.013	0.45gm/t
					79.30	80.30	1.00	69830	<0.002	
				81.36 - 85.70 Feldspathic quartzite light greyish buff & rusty, mm scale argillic(?) altered(?) zones & 2cm qtz-carb veinlets - groundmass mod. coarse grey qtz veinlets per metre, predominantly sub parallel to GOL" @ 51°	80.30	81.36	1.06	69831	0.007	
					81.36	82.46	1.10	69832	0.003	
					82.46	83.70	1.24	69833	0.003	
				micro fractured core in micro-fractures and along vein selvages <1%, occasional 2% vuggy altered veinlets qtz on irregular & cutting micro-fractures						
				83.85 - 84.00 limonitic fg argillically altered band, abundant limonitized fractures, minor Mn-oxides on fractures bleached & altered	83.70	84.20	0.50	69834	0.002	
				84.65 → mm scale qtz-carb veinlet @ 20°, carb filled micro-fractures	84.20	84.85	0.65	69835	0.008	
					84.85	85.70	0.85	69836	0.003	
				84.85 - 85.70 limonite contorted vuggy fractures increasingly contorted to bleached						

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Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
85.70	88.95	95%		FAULT GOUGE ZONE mm-cm scale subangular - subrounded qtzite & qtz fragments in a limonite - sericite - and locally rich clay dm scale intervals of semi-competent material - brecciated with silica, mica, limonite - sericite rich very friable broken core very minor sulphides (py)
88.95	131.-			MOREDIMENTS Predominantly quartzite & calcareous quartzite, variably fractured - limonite stockwork, pervasive limonite staining vuggy qtz locally present spiral of mm-cm scale veinlets locally with fine brecciated fragments in limonite matrix (banding ~1% decreasing py to ~2% up to 1% - concentrated as fracture coatings & qtz aggregates, altered areas & qtz veining as fracture coatings. 88.95-90.80 abundant irregular discontinuous qtz stringers, oriented, predominantly irregular trends. 90.50 61° @ 65° 91.10-91.40 mm-cm scale limonite qtz veinlets @ 61° @ 59° within aggregate concentrated along stringers & pyrite bearing vuggy areas with sulphides ~1%

Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
85.70	86.70	1.00	69837	0.004	
86.70	87.75	1.05	69838	<0.002	
87.75	88.95	1.10	69839	<0.002	
88.95	90.30	1.45	69840	<0.002	
90.30	91.80	1.50	69841	<0.002	
91.80	93.00	1.20	69842	0.017	0.52 gm/t
93.00	94.00	1.00	69843	0.002	
94.00	94.50	0.50	69844	<0.002	

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Property	NTS	Claim	Elevation	Azimuth	Length	Dip
Coordinates	Dip Tests	Advance	Depth	Date Collared	Date Completed	
Purposes	Drilled by			Assays by	Logged by	

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
				99.50 Bedding // to 61° @ 62°
				99.98 - 100.38 limonite stained - blocky. minor 3/4" shears, seriate
		98 100/		101.00 — 115.90 Strongly fractured & limonite altered - bleached. sericite schist & limonite & locally hematite or 61° a fracture parallel. Competent <5% sulphide, mainly as fracture controlled, minor qtz veins & veinlets as above, minor shears, brown earthy at 61° faces. Occ + m scale intervals of fractured. 105.50 61° @ 50° qtz, minor Mn oxides
				115.00 61° @ 65°
				115.90-119.00 feldspathic dacite and qtzite abundant limonitic fractures, sericitized light greyish beige with rusty interval irregular & x cutting qtz stringers but predominantly conchoidal 2-3% 61° hair thin iron stained 61° planes, hematite & limonite on fracture & 61° planes brown cm-m scale intervals to up to 10% argillically altered scale feldspar grains minor cm scale splays of Mn oxide on 61° planes & cm scale halos around fractures.

Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au g/t
94.50	96.00	1.50	69845	<0.002	
96.00	97.50	1.50	69846	<0.002	
97.50	99.00	1.50	69847	0.004	
99.00	99.98	0.98	69848	<0.002	
99.98	100.38	0.40	69849	<0.002	
100.38	101.80	1.42	69850	<0.002	
101.80	103.30	1.50	69851	0.008	
103.30	104.80	1.50	69852	0.005	
104.80	106.30	1.50	69853	0.002	
106.30	107.80	1.50	69854	0.009	
107.80	109.30	1.50	69855	<0.002	
109.30	110.80	1.50	69856	0.002	
110.80	112.30	1.50	69857	0.004	
119.12	120.40	1.28	69858	0.002	

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Property	NTS	Claim	Elevation	Azimuth	Length	Dip
Coordinates	Dip Tests	Advance	Depth	Date Collared	Date Completed	
Purposes	Drilled by			Assays by	Logged by	

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
				<5% sulphides						
				120.70 0.5cm qtz-carb vein @ 84°, w 1% carb in blebs near stringer	69859	120.40	120.90	0.50	<0.002	
				sericitic patching @ 72°	69860	120.90	121.65	0.75	0.017	0.58 gm/t
				121.65 – 122.50 strongly fractured, limonite and hematite fracture infillings, Mn oxides,	69861	121.65	122.50	0.85	<0.002	
				125.70 - 126.90 cm-scale qtz-carb veins subparallel to CA², extremely limonitic	69862	125.50	126.00	0.50	<0.002	
				veins parallel to CA	69863	126.00	127.50	1.50	0.031	1.06 gm/t
				126.00 – 127.00 blocky broken zone due to closely spaced fractures	69864	127.50	129.00	1.50	0.008	
				130.65 cm-scale carb veins/stringers @ 32°	69865	129.00	130.50	1.50	0.015	0.51 gm/t
					69866	130.50	130.90	0.40	0.013	0.45 gm/t
				134.60 2mm wide carb-py filled cross-fracture @ 37°, sericite along selvages; the limonitic fracture fills/cuts qtz-carb vein	69867	130.90	132.40	1.50	0.003	
					67868	132.40	133.50	1.10	0.002	
					69869	133.50	134.40	0.90	0.003	
					69870	134.40	134.80	0.40	0.025	0.86 gm/t
					69871	134.80	135.90	1.10	<0.002	
					69872	135.90	137.00	1.10	0.007	
137.00	188.97			METASEDIMENTS						
				medium to dark grey, competent, well foliated dark qtz-sericite to sericite-muscovite ± biotite - quartz semi-schist with dm-scale more massive beds of cleaner quartzite → extremely siliceous zones limonite fractures. locally contorted (<1 m) to locally up to 4% m disturbed-contorted intervals; minor carb on fractures, magnetic minor transverse fractures, bedding noted at 60° to foliation planes	19873	137.00	138.00	1.00	<0.002	

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Property	NTS	Claim	Elevation	Azimuth	Length	Dip
Coordinates	Dip Tests	Advance	Depth	Date Collared	Date Completed	
Purposes		Drilled by		Assays by	Logged by	

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION
				139.77. 1cm wide grey-wh qtz vein @ 30°, 161° @ 62°; minor fine aggy pyrite in surrounding 'silicified' wallrock ±1%
				143.23 – 144.20 Contorted, extremely irregular discontinuous qtz lenses & veins. Sericitic laminae mark deformation - appear brecciated & cemented by pyrite and sericite (extremely hard) up to 5% fine pyrite, ±1% aggy concentrated on x-cutting fractures & shallow angle - late stage pyrite concentrated on fractures and along foliation planes.
				144.45 – 145.10. Similar to above.
				146.20. Fractures showing on scale sericitized off-sets @ ~75° minor kink axis off-sets on x-cutting fract @ 46°
				148.00 Bedding @ 70°
				148.85 – 149.45. clerical shoots up to 2 cm along fracture @ very shallow (<5°) angle ~5° minor qtz along it ±1% aggy minor chlorite along foliation @ 65°

Interval From	Interval To	Core Width	Sample No.	Au oz/t
139.60	140.00	0.40	69874	<0.002
142.20	143.23	1.03	69875	0.002
143.23	144.35	1.12	69876	0.003
144.35	145.10	0.75	69877	<0.002
145.10	146.40	1.30	69878	<0.002
148.80	149.45	0.65	69879	<0.002

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Property	NTS	Claim	Elevation	Azimuth	Length	Dip
Coordinates	Dip Tests	Advance	Depth	Date Collared	Date Completed	
Purposes		Drilled by		Assays by	Logged by	

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Sample No.	Interval From	Interval To	Core Width	Au oz/t	Au gm/t
					69880	149.45	150.80	1.35	0.003	
				151.05. qtz bdrm - occ py veins @ 30° - fracture in filling. bdrm on fractures. ~2% py, 1% py, pyrite concentrated in fractures. Bdr restricted - Wkly silicified	69881	150.80	151.30	0.50	0.029	0.99 gm/t
					69882	151.30	152.30	1.00	<0.002	
					69883	152.30	153.70	1.40	<0.002	
				152.00 - Fol^n @ 64°						
				153.70 - 154.95. Silicified qtzite, pyrite, occ py in subhorizontal, <mm scale, blebs assoc to fractures ~1% sulphides.	69884	153.70	154.95	1.25	0.002	
				154.95 - 155.78 Carbonated, chloritized discontinuous qtz lenses + veins - sericitized - zones of chl + fold. up to 2% pyrite in fractures + along fol^n planes 1% py. Similar to 143.23 - 144.20	69885	154.95	155.78	0.83	<0.002	
					69886	155.78	157.40	1.62	0.002	
				157.40 - 158.32 Silicified quartzite up to 2% sulphides py, Apy, po concentrated around micro-fractures. irreg-ear mm scale qtz veinlets	69887	157.40	158.32	0.92	0.014	0.48 gm/t
				158.10 - many fractures in filling @ 34° ~ 2mm wide. off sets along fractures. distorts fol^n + bedding	69888	158.32	159.32	1.00	<0.002	
				163.70 narrow cm wide blm flooded fractures with mm scale brecciated fragments of metased. 164.10 qtz vein cm wide veins @ 28° with brecciated mm scale fragments of wallrock. pyrite 2% 4% copper alteration chloritic 0-3cm wide alteration halos	69889	163.60	164.35	0.75	0.003	

AURUM GEOLOGICAL CONSULTANTS INC. DIAMOND DRILL LOG HOLE No. _____ Page 13 of 14

Property	NTS	Claim	Elevation	Azimuth	Length	Dip
Coordinates	Dip Tests	Advance	Depth	Date Collared		Date Completed
Purposes		Drilled by		Assays by		Logged by

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Interval From	Interval To	Core Width	Sample No.	Au oz/t	Au gm/t
				166.00 bedding @ 50°						
				166.50 fault @ 62°						
					168.30	169.30	1.00	69890	0.002	
				169.60 0.5cm qtz vein (wit) @ 38°, 1% opy core in mm scale blebs @ selvage, mica white on bedding at margins.	169.30	169.80	0.50	69891	0.010	0.34 gm/t
					169.80	170.80	1.00	69892	<0.002	
				169.80 bedding @ 65°						
				173.85 - 174.25 light grey siliceous bed in meta sed with dusty qtz-ite up to 1% pyrite disseminated & concentrated along fractures <1 mm scale subhedral crystals	173.85	174.25	0.40	69893	0.011	0.38 gm/t
				176.00 Bedding @ 65°	175.85	176.85	1.00	69894	<0.002	
				176.85 - 177.25: Silicified & irregular cm scale white (& grey ish) qtz veins. up to 1% pyrite concentrated along fractures. minor oxidation fractures & meta sed. chlorite noted in meta sed near selvages of qtz veins.	176.85	177.45	0.60	69895	0.008	
					177.45	178.45	1.00	69896	<0.002	
				177.25 - cm scale dextral ff sets on fracture @ 42°						
					178.45	179.55	1.10	69897	<0.002	
				184.70 mm scale qtz stringers @ very shallow core angle & mm scale dextral ff sets along fractures sub parallel to 1/2 - a series of steps. 1% pyrite concentrated along fractures.	184.50	185.30	0.80	69898	0.005	

AURUM GEOLOGICAL CONSULTANTS INC. DIAMOND DRILL LOG HOLE No. _____ Page 14 of 14

Property	NTS	Claim	Elevation	Azimuth	Length	Dip
Coordinates	Dip Tests	Advance	Depth	Date Collared	Date Completed	
Purposes	Drilled by			Assays by	Logged by	

Interval From	Interval To	Rec'y %	RQD	DESCRIPTION	Interval From	Interval To	Core Width	Sample No.
				187.50 - bit @ 68°				
188.97	190.80			Feldspathic Quartzite Lgt. grey/tan buff - locally rusty 5% chlorite + hematite staining, up to 10% mm scale argillically altered white feldspar grains within a fine equigranular quartz rich matrix - devitrified abundant schistic fractures 1% disseminated pyrite				
				190.80 E.O.H.				

LEGEND

LITHOLOGIES

CRETACEOUS (and/or JURASSIC)
Intrusive and subvolcanic (hypabyssal) rocks

- Kld — lamprophyre (intermediate to mafic) dyke
- Kap — aplite
- Kqp — (rhyolite) quartz porphyry
- Kfp — feldspar porphyry
- Kgd — granodiorite/quartz diorite
- Kd — dacite
- Kqm — quartz monzonite

LATE PRECAMBRIAN or EARLY PALEOZOIC
Upper schist/Grit unit
hornfelsed rocks

- Pb — breccia
- Psw — light wollastonite skarn
- Psp — dark pyroxene skarn
- Phqs — interlayered quartzite and biotite schist
- Phq — massive quartzitic hornfels
- Phs — biotite and chlorite schist (massive and interlayered)

locally hornfelsed

- Pgw — metagreywacke, dirty quartzite
- Pq — massive quartzite
- Pmq — micaceous quartzite
- Pph — sericite, muscovite quartz biotite semi-schist/phyllite
- Pgph — graphitic phyllite
- Pcph — chloritic phyllite
- Pfq — feldspathic quartzite

SYMBOLS

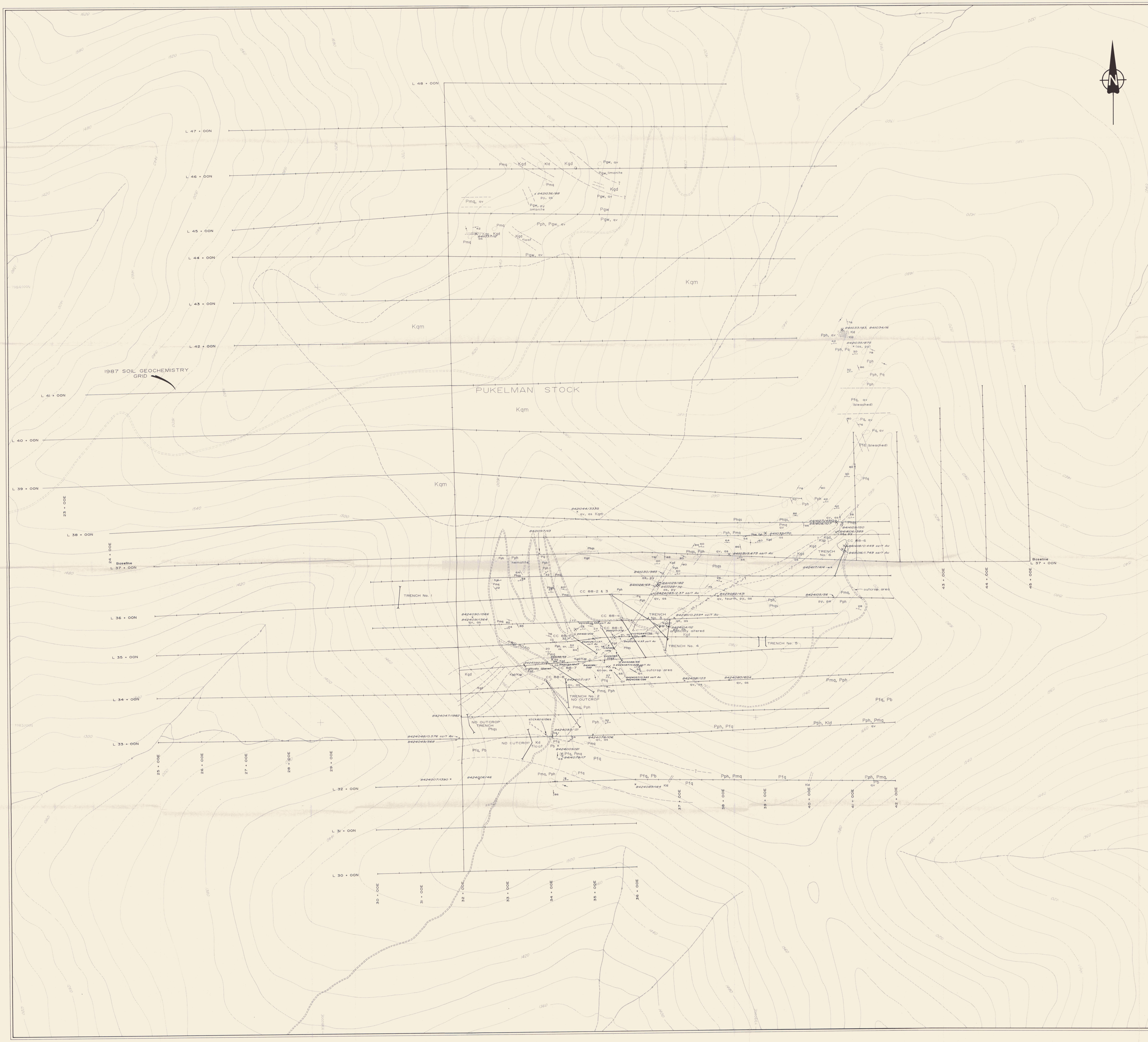
- geological boundary (defined, approximate, assumed)
- outcrop, subcrop
- float-rubble crop
- 50 bedding (inclined, vertical, dip unknown)
- 70 foliation (inclined, vertical, dip unknown)
- jointing (inclined, vertical)
- fault
- trench
- G gossan
- × rock sample location; sample number / Au ppb, Ag ppm
- × float sample location; sample number / Au ppb, Ag ppm
- claim boundary
- 4WD road
- creek
- 1500 elevation contour ; interval 20 m

ABBREVIATIONS : as - arsenopyrite
cc - calcite
gn - galena
qv - quartz vein
po - pyrrhotite
py - pyrite

100 m 0 100 200 300 400 500 600 700 800 900 m
METRES

GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT
157A
GEOLOGY & ROCK GEOCHEMISTRY
092748

Aurum Geological Consultants Inc.		JUNE, 1988	
NTS 115P/14 & 15	DRAWN BY SDR/NH	SCALE 1:10,000	FIGURE 8



LEGEND

LITHOLOGIES

CRETACEOUS (and/or JURASSIC)
Intrusive and subvolcanic (hypabyssal) rocks

- Kld — lamprophyre (intermediate to mafic) dyke
- Kap — aplite
- Kqp — (rhyolite) quartz porphyry
- Kfp — feldspar porphyry
- Kgd — granodiorite/quartz diorite
- Kd — dacite
- Kqm — quartz monzonite

LATE PRECAMBRIAN or EARLY PALEOZOIC
Upper schist/Grit unit
Hornfelsic rocks

- Pb — breccia
- Psw — light wollastonite skarn
- Psp — dark pyroxene skarn
- Phqs — interlayered quartzite and biotite schist
- Phq — massive quartzitic hornfels
- Phs — biotite and chlorite schist (massive and interlayered)

Locally hornfelsed

- Pgw — metagreywacke, dirty quartzite
- Pq — massive quartzite
- Pmq — micaceous quartzite
- Pph — sericite, muscovite quartz biotite semi-schist/phyllite
- Pgph — graphitic phyllite
- Pcph — chloritic phyllite
- Pfq — feldspathic quartzite

SYMBOLS

- geological boundary (defined, approximate, assumed)
- outcrop, subcrop
- foliation (inclined, vertical, dip unknown)
- jointing (inclined, vertical)
- fault
- diamond drill hole with corresponding number
- trench
- grid location, tie-lines oriented East-West
- X8411033/183 rock sample location; sample number/Au ppb
- × 8424009/121 float sample location; sample number/Au ppb
- 4WD road
- creek
- elevation contour; interval 20m
- * erratic Au value

ABBREVIATION : as – arsenopyrite
qv – quartz vein
po – pyrrhotite
py – pyrite
tourm – tourmaline

NOTE : rock and float sample geochemical results for Ag and As are listed in ROCK DESCRIPTION NOTES

25m 0 25 50 75 100 125 150 175m
METRES

GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT
158
PUKELMAN SOUTH GRID
GEOLOGY & ROCK GEOCHEMISTRY
092748

Aurum Geological Consultants Inc.		SEPTEMBER, 1988	
NTS 115 P/14	DRAWN BY SR	SCALE 1:2500	FIGURE: 9

LEGEND

- ○B462041/15, 0.2 — soil sample location, sample number/Au ppb, Ag ppm
- ⊕B452025/1778 — heavy mineral concentrate location, sample number/ Au ppb
- +B425001/27, 0.3 — rock sample location, sample number/ Au ppb, Ag ppm
- claim boundary
- 4WD road
- creek
- 1600 — elevation contour interval 20m

100m 0 100 200 300 400 500 600 700 800 900m
METRES

GOLDRITE MINING CORP
CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

159

SOIL GEOCHEMISTRY & GRID LOCATION

092748

Aurum Geological Consultants Inc. | JUNE, 1988
NTS 115P/14&15 | DRAWN BY SDR/NN | SCALE 1:10,000 | FIGURE 10

1987 SOIL GEOCHEMISTRY GRID

L 48 + 00N
L 47 + 00N
L 46 + 00N
L 45 + 00N
L 44 + 00N
L 43 + 00N
L 42 + 00N
L 41 + 00N
L 40 + 00N
L 39 + 00N
L 38 + 00N
L 37 + 00N
L 36 + 00N
L 35 + 00N
L 34 + 00N
L 33 + 00N
L 32 + 00N
L 31 + 00N
L 30 + 00N

23 + 00E
24 + 00E
Baseline
25 + 00E
26 + 00E
27 + 00E
28 + 00E
29 + 00E
30 + 00E
31 + 00E
32 + 00E
33 + 00E
34 + 00E
35 + 00E
36 + 00E
37 + 00E
38 + 00E
39 + 00E
40 + 00E
41 + 00E
42 + 00E
43 + 00E
44 + 00E
45 + 00E
Baseline
37 + 00N

LEGEND

- grid location, baseline east-west, sample intervals 25-50m
- 185 — soil sample location, Au ppb
- NS — no sample
- 500 — soil contour interval, 500 ppb contour interval
- creek
- 1580 — elevation contour, interval 20m

25m 0 25 50 75 100 125 150 175m
METRES

GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

PUKELMAN SOUTH GRID
Au SOIL GEOCHEMISTRY

092748

Aurum Geological Consultants Inc.			SEPTEMBER, 1988
NTS 95 P/14	DRAWN BY SR	SCALE 1:2500	FIGURE: II

1987 SOIL GEOCHEMISTRY GRID

L 48 + 00N
L 47 + 00N
L 46 + 00N
L 45 + 00N
L 44 + 00N
L 43 + 00N
L 42 + 00N
L 41 + 00N
L 40 + 00N
L 39 + 00N
L 38 + 00N
L 37 + 00N
Baseline
L 36 + 00N
L 35 + 00N
L 34 + 00N
L 33 + 00N
L 32 + 00N
L 31 + 00N
L 30 + 00N

23 + 00E
24 + 00E
25 + 00E
26 + 00E
27 + 00E
28 + 00E
29 + 00E
30 + 00E
31 + 00E
32 + 00E
33 + 00E
34 + 00E
35 + 00E
36 + 00E
37 + 00E
38 + 00E
39 + 00E
40 + 00E
41 + 00E
42 + 00E
43 + 00E
44 + 00E
45 + 00E

LEGEND

- grid location, baseline east-west, sample intervals 25-50m
- 0.3 — soil sample location, Ag ppm
- NS — no sample
- creek
- elevation contour, interval 20m
- 4WD road

25m 0 25 50 75 100 125 150 175m
METRES

GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

PUKELMAN SOUTH GRID
Ag SOIL GEOCHEMISTRY

092748

Aurum Geological Consultants Inc.			SEPTEMBER, 1988
NTS 85 P/14	DRAWN BY SB	SCALE 1:2500	FIGURE: 12

1987 SOIL GEOCHEMISTRY GRID

L 48 + 00N
L 47 + 00N
L 46 + 00N
L 45 + 00N
L 44 + 00N
L 43 + 00N
L 42 + 00N
L 41 + 00N
L 40 + 00N
L 39 + 00N
L 38 + 00N
L 37 + 00N (Baseline)
L 36 + 00N
L 35 + 00N
L 34 + 00N
L 33 + 00N
L 32 + 00N
L 31 + 00N
L 30 + 00N

23 + 00E
24 + 00E
25 + 00E
26 + 00E
27 + 00E
28 + 00E
29 + 00E
30 + 00E
31 + 00E
32 + 00E
33 + 00E
34 + 00E
35 + 00E
36 + 00E
37 + 00E
38 + 00E
39 + 00E
40 + 00E
41 + 00E
42 + 00E
43 + 00E
44 + 00E
45 + 00E

LEGEND

- grid location, baseline east-west, sample intervals 25-50m
- soil sample location, As ppm
- no sample
- creek
- elevation contour, interval 20m
- 4WD road

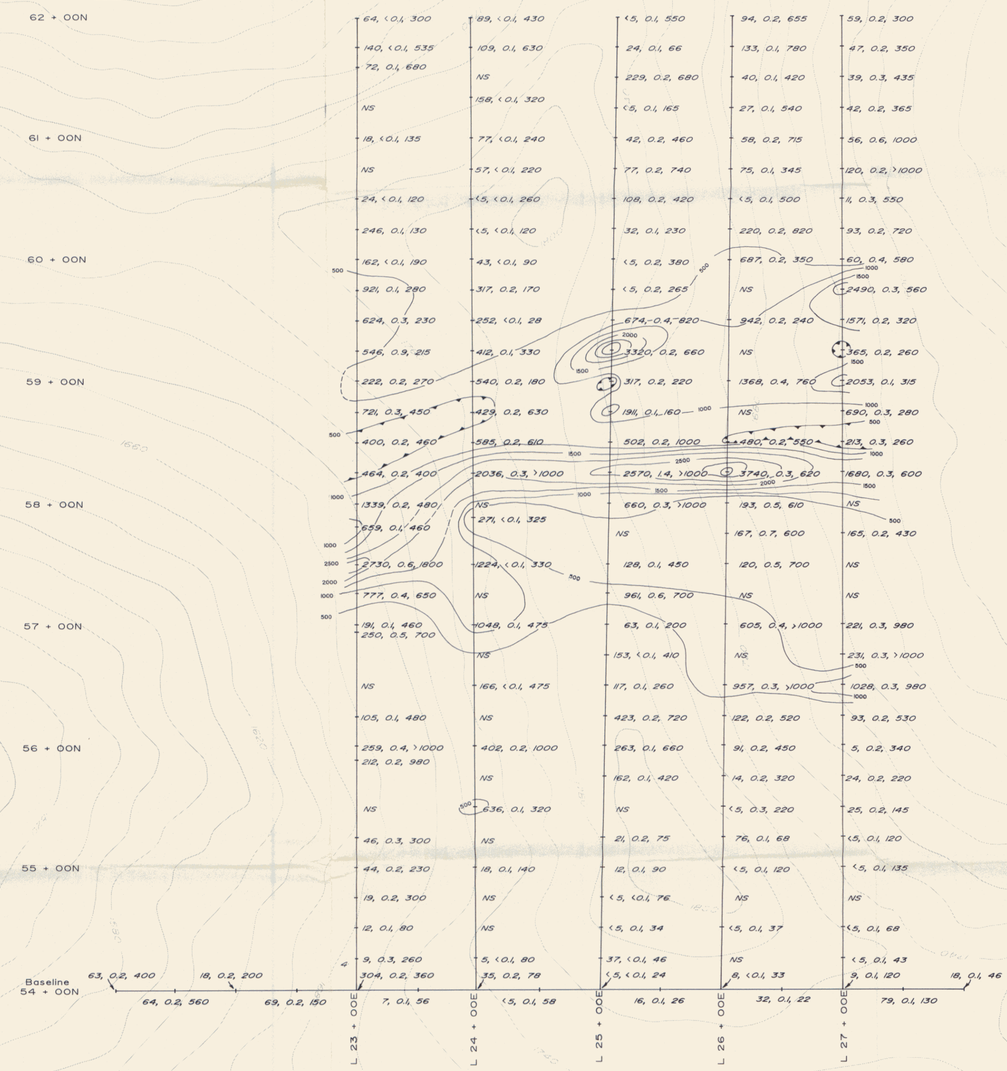
25m 0 25 50 75 100 125 150 175m
METRES

GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

PUKELMAN SOUTH GRID
As SOIL GEOCHEMISTRY

092748

Aurora Geological Consultants Inc. | SEPTEMBER, 1988
NTS 115 P/14 | DRAWN BY SR | SCALE 1:2500 | FIGURE: 13



LEGEND

- grid location, baseline East-West, tie-lines North-South, sample intervals 25m
- 128, 0.1, 450 — soil sample location, Au ppb, Ag ppm, As ppm
- NS — no sample
- 500 — Au soil contour interval, intervals 500ppb Au
- 1660 — elevation contour, interval 20m

25m 0 25 50 75 100 125 150 175m
METRES

GOLDRITE MINING CORP.

CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

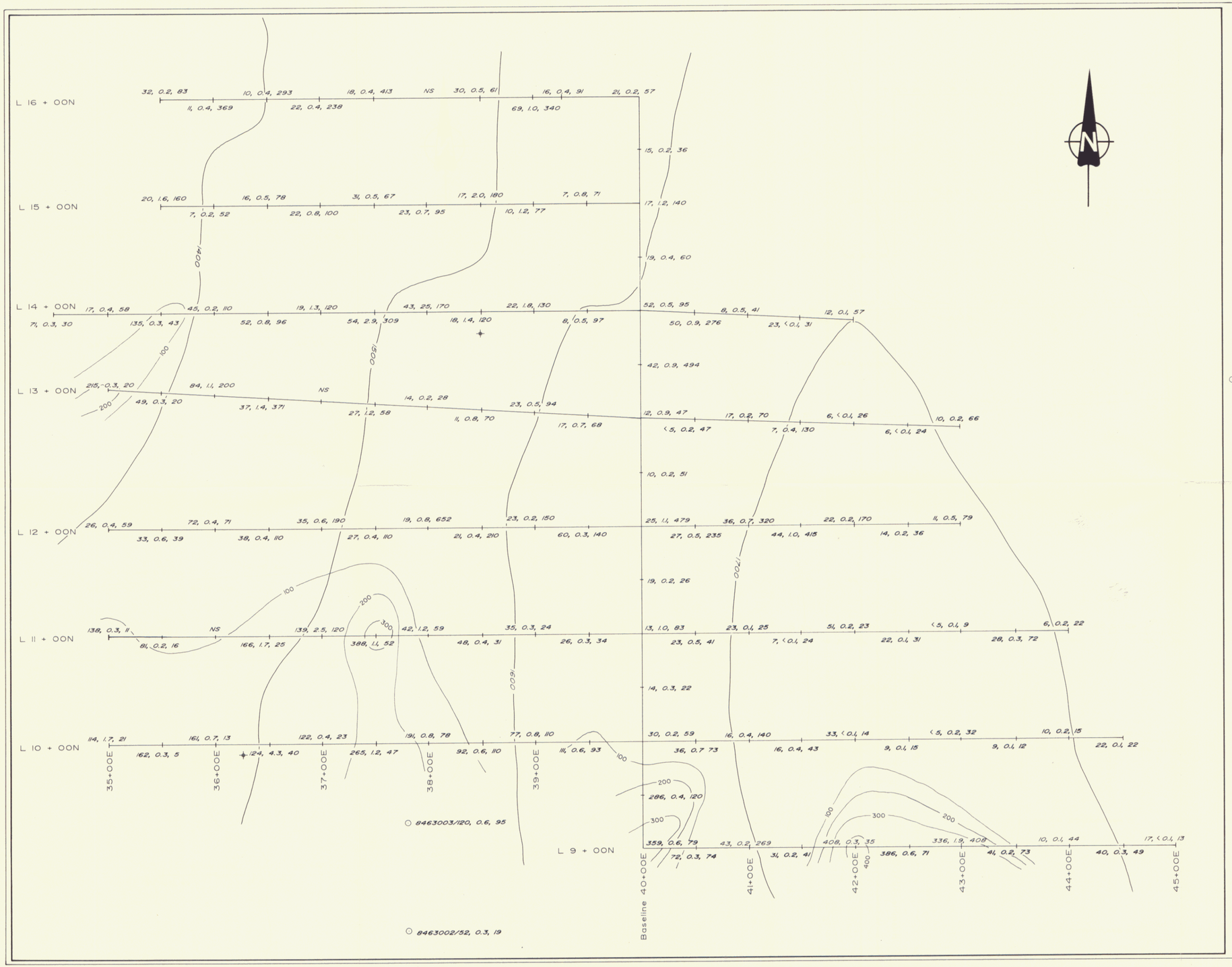
(167)

SADDLE ZONE GRID

092748

SOIL GEOCHEMISTRY

Aurum Geological Consultants Inc.			SEPTEMBER, 1988
NTS 115 P/14	DRAWN BY SR	SCALE 1:2500	FIGURE: 14



LEGEND

- grid location, baseline north-south, tie-lines east-west, sample intervals 50m
- 16, 0.4, 91 — soil sample location; Au ppb, Ag ppm, As ppm
- NS — no sample
- 8463002/120, 0.6, 95 — soil sample location; sample number/Au ppb, Ag ppm, As ppm
- 200 — soil contour interval; interval 100ppb Au
- claim posts
- 1600 — approximate elevation contour, interval 100m

50m 0 50 100 150m
METRES

GOLDRITE MINING CORP.

CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

(163)

RHOSGOBEL EXTENSION GRID

SOIL GEOCHEMISTRY

Aurum Geological Consultants Inc.			AUGUST, 1988
NTS 115 P/14	DRAWN BY SR	SCALE 1:2500	FIGURE: 15

092748

N

0 25 50 m

1:2500

1300

1400

Phqs, gw

Kgd

Josephine Creek

B-425002 (10)

Kqp

Kqp

Phqs

70°

74°

43°

36°

74°

86°

Kgd

76°

20°

70°

Kyd

B-451083 (315)
B-461083 (27)

Kfv

Kgd qv

86°

Kld

39°

Pgw

B-414038 039 (11)(32)

76°

B-411021 (72)

Pgw/hqs

082°

B-414037, 076, 077 (24, b)
Kfv - Argillic Alteration

B-424036 (114)
B-452034 (287)

LEGEND

Cretaceous or Jurassic

- Kgd Granodiorite
- Kfv Felsic Volcanics
- Kld Lamprophyre Dyke
- Kqp Rhyolite (Quartz Porphyry)

Paleozoic or Precambrian

- Phqs Hornfels - Interlayered Quartzite and Biotite Schist
- Pgw Greywacke
- qv Quartz Vein
- Outcrop
- Inferred Contact
- x B414001 Rock Sample
- Foliation, inclined
- Joint, inclined
- Joint, vertical
- B-454001 Soil or HMC Sample.
- (200) Au in ppb

CLEAR CREEK
JOSEPHINE CREEK - GOSSAN
GEOLOGY
June 1988

Fig. 16

092748

Clear Creek - Galena Zone, Geology

June, 1988

0 100m 200m 300m 400m

1:1000

LEGEND

Cretaceous or Jurassic

Kld - Lamprophyre

Paleozoic or Precambrian

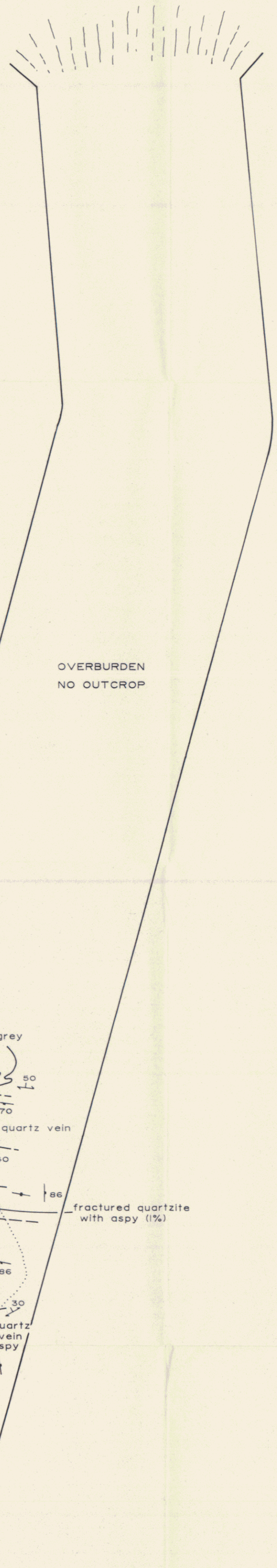
Pph - musc / sericite / bio phyllite
Pb - Breccia
Pgw - Greywacke / Dirty Quartzite
Pmq - Micaceous Quartzite
Pq - massive Quartzite
Phqs - Hornfels - Interlayered Quartzite & Biotite schist

qv Quartz vein
py pyrite
gn galena
Apy Arsenopyrite
po pyrrhotite

Outcrop
subcrop
inferred contact
fault
foliation, inclined
jointing, inclined
claim post
x Rock Sample
(200) Au in ppb

FIG. 17

0927748



N

GRID CO-ORDINATES
+
L 36 + 00N
31 + 00E

LEGEND

- outcrop
- geological boundary, inferred
- foliation (vertical, inclined, dip unknown) (76)
- jointing (inclined, vertical, dip unknown) (80)
- chip sample location; chip sample number; Au in ppb (20, 8411086)

ABBREVIATIONS:

aspy	-	arsenopyrite
dk	-	dark
lt	-	light
mn	-	manganese
qv	-	quartz vein
po	-	pyrrhotite
py	-	pyrite

1m 0 1 2 3 4 5 6 7m
METRES

092748

GOLDRITE MINING CORP.

CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

169

TRENCH No. I

GEOLOGY & SAMPLE LOCATION

Aurum Geological Consultants Inc.			AUGUST, 1988
NTS 115 P/14	DRAWN BY BH/SDR	SCALE 1:100	FIGURE: 18

GRID CO-ORDINATES
+
35 + 50N
36 + 50E

NO OUTCROP

OVERBURDEN

dirty quartzite 40

BULK SAMPLE

light grey quartzite 26

oxidized quartzite 24

clay rich sericitic quartzite (aspy) 20

quartzite

oxidized quartzite 38

light grey, limonitic quartzite 36

mn stained dark grey quartzite quartz veins (aspy) 8740 344

TRENCH CONTINUES FOR 19.60m

65 340

weakly altered sericitic quartzite 40 128

231 190

gouge

argillically altered quartzite

gouge

argillically altered granodiorite 228 656

109 101 79 620 130 62 126

fresh and weakly altered granodiorite quartz veins (aspy)

TRENCH CONTINUES FOR 29.15m NO OUTCROP EXPOSED OVERBURDEN

gouge

OVERBURDEN

LEGEND

- outcrop
- geological boundary, inferred
- foliation (vertical, inclined, dip unknown) (76)
- jointing (inclined, vertical, dip unknown) (80)
- chip sample location; chip sample number (20); Au in ppb (8411086)

ABBREVIATIONS

aspy	arsenopyrite
dk	dark
lt	light
mn	manganese
qv	quartz vein
po	pyrrhotite
py	pyrite

lm 0 1 2 3 4 5 6 7m
METRES

GOLDRITE MINING CORP.

CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

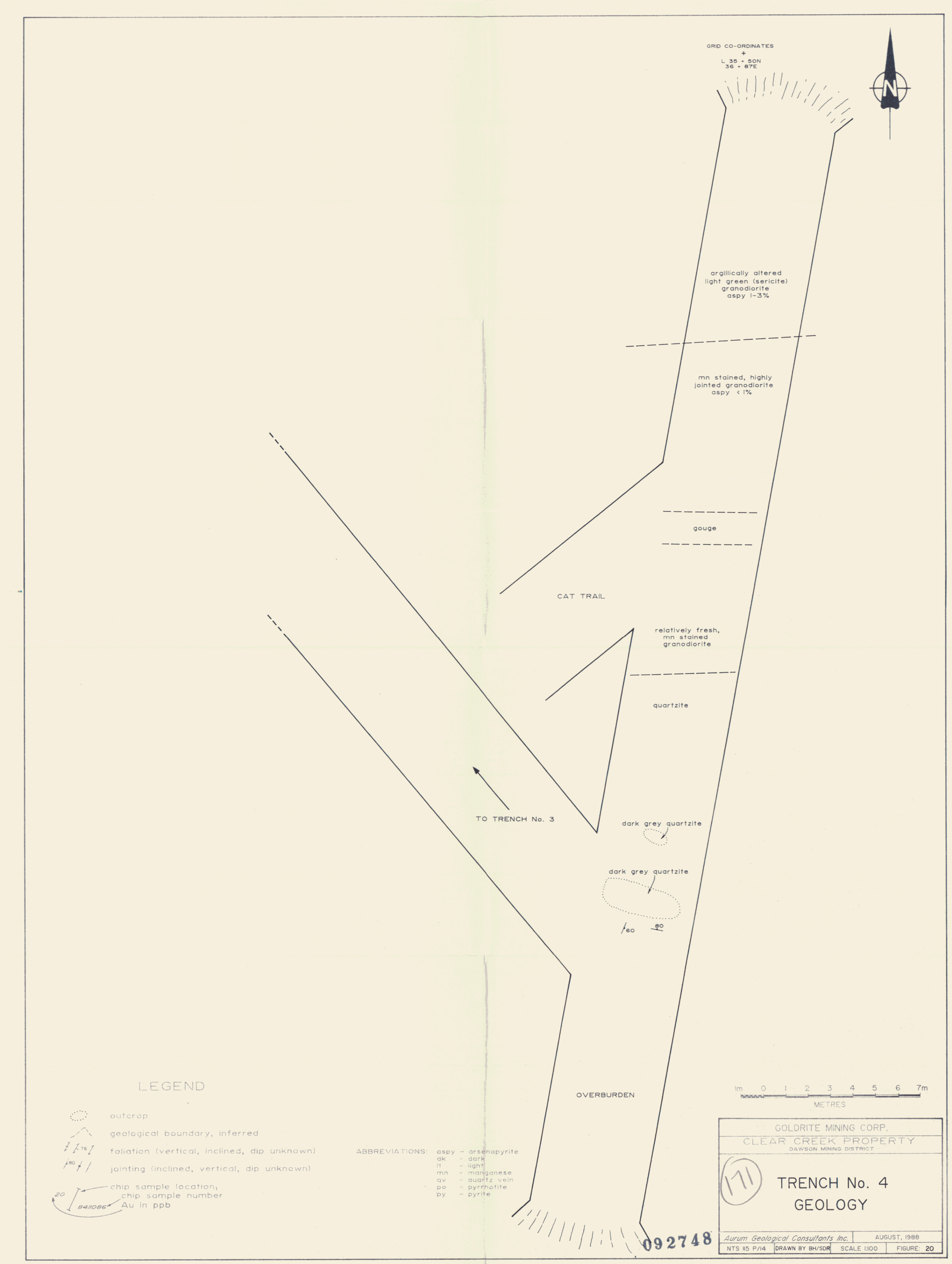
170

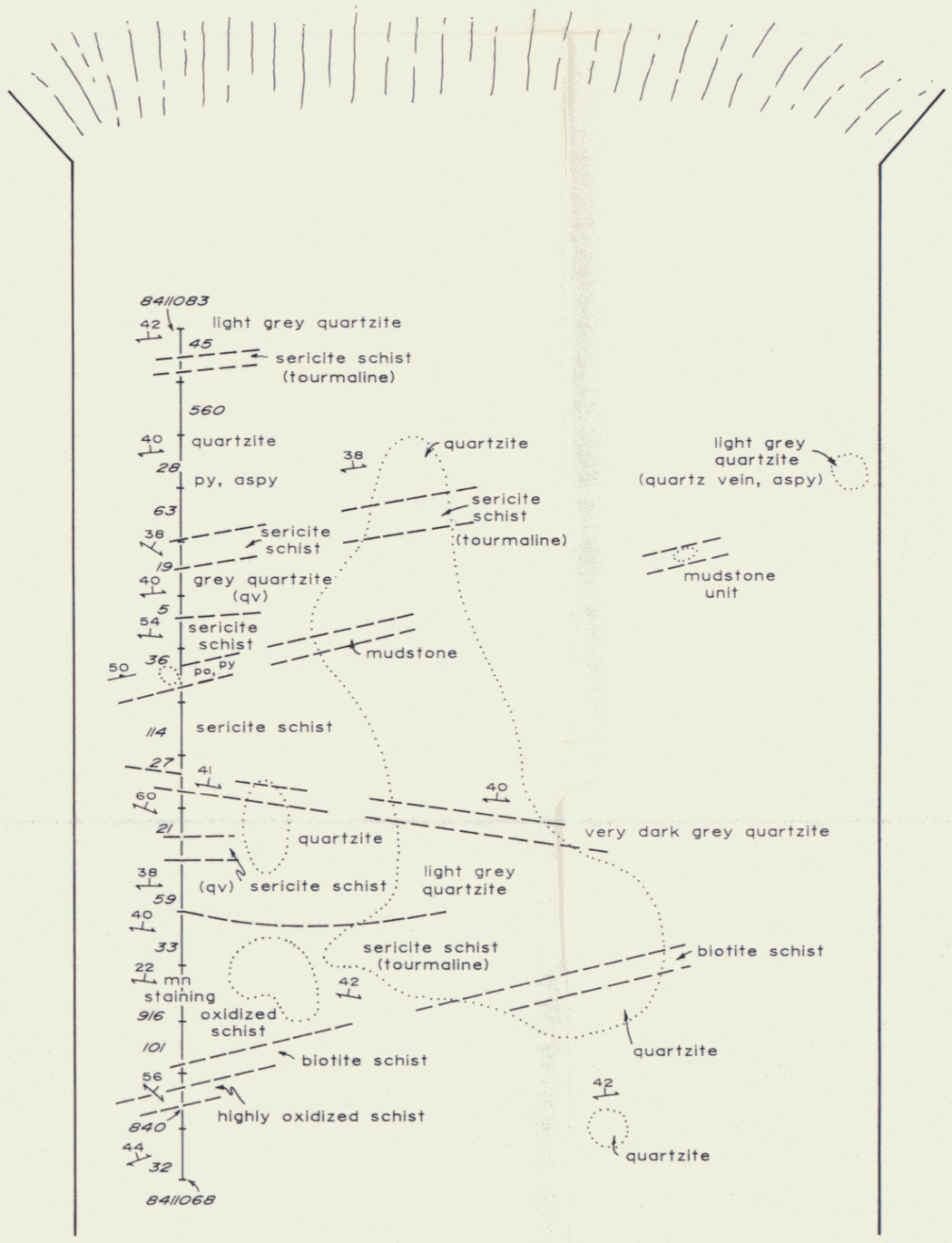
TRENCH No. 3

GEOLOGY & SAMPLE LOCATION

Aurum Geological Consultants Inc.			AUGUST, 1988
NTS 115 P/14	DRAWN BY BH/SDR	SCALE 1:100	FIGURE: 19

092748


GRID CO-ORDINATES
+
L 35 + 50N
36 + 87E
N
argillically altered
light green (sericite)
granodiorite
aspy 1-3%
mn stained, highly
jointed granodiorite
aspy < 1%
gouge
CAT TRAIL
relatively fresh,
mn stained
granodiorite
quartzite
TO TRENCH No. 3
dark grey quartzite
dark grey quartzite
60
80
OVERBURDEN
1m 0 1 2 3 4 5 6 7m
METRES
LEGEND
outcrop
geological boundary, inferred
76
foliation (vertical, inclined, dip unknown)
80
jointing (inclined, vertical, dip unknown)
20
84110B6
chip sample location;
chip sample number
Au in ppb
ABBREVIATIONS:
aspy - arsenopyrite
dk - dark
lt - light
mn - manganese
qv - quartz vein
po - pyrrhotite
py - pyrite
092748
GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT
171
TRENCH No. 4
GEOLOGY
Aurum Geological Consultants Inc.
AUGUST, 1988
NTS 115 P/14
DRAWN BY BH/SDR
SCALE 1:100
FIGURE: 20



GRID CO-ORDINATES
+
L 34 + 50N
39 + 00E

LEGEND

- outcrop
- geological boundary, inferred
- foliation (vertical, inclined, dip unknown) — 76
- jointing (inclined, vertical, dip unknown) — 80
- chip sample location, chip sample number, Au in ppb — 20, 8411086

ABBREVIATIONS:

aspy	arsenopyrite
dk	dark
lt	light
mn	manganese
qv	quartz vein
po	pyrrhotite
py	pyrite

1m 0 1 2 3 4 5 6 7m
METRES

GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

(162)

TRENCH No. 5

GEOLOGY & SAMPLE LOCATION

Aurum Geological Consultants Inc.			AUGUST, 1988
NTS 115 P/14	DRAWN BY BH/SDR	SCALE 1:100	FIGURE: 21

092748

APPROXIMATE SHAPE OF TRENCH/DRILL PAD

NO OUTCROP

DDH CC 88-6

8411084 very dark quartzite (py) 52/

interbedded sericite schists & quartzites (highy oxidized) (tourmaline) 40

quartzite 40

feldspar - biotite - porphyry

oxidized quartzite 44

8411085 52 76 5/100

8411106 2 <2

argillically altered feldspar-biotite-porphyry 2

sericite schist 48

mn staining 41 36 4

mn staining quartzite 11 10

60 44 96 quartzite 4 44

38 3 13 42 68

3 5 34 3 3 30 <2 <2 2 30 58

interbedded quartzite & sericite schist

71 2 121 14 5 8411045

gouge

feldspar - biotite - porphyry ? ? ?

72 quartzite 78 38

quartzite 40

? 32 granodiorite (aspy) 84 ?

mn & limonite staining quartzite

16m to L 37 + 00N, 41 + 00E

ROAD

GRID CO-ORDINATES + L 37 + 00N 40 + 50E

LEGEND

- outcrop
- geological boundary, inferred
- foliation (vertical, inclined, dip unknown) /76/
- jointing (inclined, vertical, dip unknown) /80/
- chip sample location; chip sample number; Au in ppb (20 / 8411086)

ABBREVIATIONS:

aspy	- arsenopyrite
dk	- dark
lt	- light
mn	- manganese
qv	- quartz vein
po	- pyrrhotite
py	- pyrite

1m 0 1 2 3 4 5 6 7m

METRES

GOLDRITE MINING CORP.

CLEAR CREEK PROPERTY

DAWSON MINING DISTRICT

TRENCH No. 6 & DDH No. 5 SITE GEOLOGY & SAMPLE LOCATION

Aurum Geological Consultants Inc.			AUGUST, 1988
NTS 115 P/14	DRAWN BY BH/SDR	SCALE 1:100	FIGURE: 22

162A

GS 2748

305°

125°

CONTOURED SOIL ANOMALY 2000ppb - 2500ppb Au

CONTOURED SOIL ANOMALY 1500ppb - 2000ppb Au

CONTOURED SOIL ANOMALY 1000ppb - 1500ppb Au

CONTOURED SOIL ANOMALY 500ppb - 1000ppb Au

ELEVATION IN METRES A.S.L.

DDH CC 88-1
L 35 + 14N, 34 + 50E
Elevation 1696.70 metres A.S.L.
UTM 3066.039N, 8553.045E

1725m
1700m
1675m
1650m
1625m
1600m
1575m
1550m
1525m

overburden

50°

approximate surface profile

0.82 py 2%, po 2%

quartz vein

LOCALLY SILICIFIED & SERICITIZED

Pgw, Pph, Pmq

as 2% on micro-fractures

0.48 Pmq as, py, quartz, tourm fracture fillings

0.92 as filled micro-fractures

LOCALLY SILICIFIED

Kgd

tight isoclinal folds

quartz veins

0.72 as filled micro-fractures

1.82 / 0.95

10.2'/4 2.80 m

as filled micro-fractures

0.75

Pph altered & deformed-contorted

Pph, Pmq

Kgd disseminated py, as

1.00

as, py on micro-fractures

0.34 Pph, Pmq

LIMONITE & SERICITE ALTERED, LOCALLY SILICIFIED

lm

0.38

0.45 FG

0.41

EOH 108.81 metres
abandoned hole in fault zone

ALTERATION FAULT ZONE

LEGEND

LITHOLOGIES

CRETACEOUS (and/or JURASSIC)
Intrusive and Subvolcanic (hypabyssal) Rocks

- Kgd granodiorite
- Kqm quartz monzonite
- Kld lamprophyre (intermediate-mafic) dyke
- Kfp feldspar porphyry
- Kqp quartz eye porphyry

LATE PRECAMBRIAN or EARLY PALEOZOIC
Upper Schist / Grit Unit

- Pgw meta-greywacke, dirty quartzite
- Pq massive quartzite
- Pmq micaceous quartzite
- Pph sericite, muscovite, quartz, biotite semi-schist
- Pfq feldspathic quartzite/bi-modal quartzite
- Phqs interlayered quartzite and biotite schist
- Pb breccia

ABBREVIATIONS: FG - fault gouge
tourm - tourmaline
sil'd - silicified

SYMBOLS

- ground surface
- geological boundary, defined, approximate, assumed
- diamond drill hole
- lithology & structure
- assay information g/tonne
- weighted average g/tonne / metre
- cased interval, no core recovery
- ground core
- contacts (no orientation), contact (with orientation)
- foliation
- bedding
- fracture
- fault
- shear zone
- stratigraphic tops
- BRX brecciated rock
- mineralized interval - as - arsenopyrite, py - pyrite, sp - sphalerite, gn - galena, po - pyrrhotite, cp - chalcopyrite, lm - limonite, gt - graphite, visual estimate of mineral content in volume percent if greater than 1 percent
  N/S - not sampled
- assayed trench chip sample projected to section, ((g/tonne) Tr - trace)
- trench location
- downhole measurement marker (in metres)
- quartz and/or sulphide filled micro-fractures, approximate orientation

NOTE: only samples over 0.34 gm/tonne are plotted

*- erratic results

10m 0 10m
METRES

GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

(163)

35 + 14 North, 34 + 50 East
DDH CC 88-1
CROSS SECTION FACING 035°

Aurum Geological Consultants Inc. | AUGUST, 1988
NTS 115 P/14 | DRAWN BY SR | SCALE 1:250 | FIGURE 23

092748

305°

125°

ELEVATION IN METRES A.S.L.

DDH CC 88-2&3
L35 + 98N, 35 + 53E
Elevation 1755.55 metres A.S.L.
UTM 3155.597N, 8646.725E

CONTOURED ANOMALOUS SOIL 500ppb - 1000ppb Au

13 metres in front of TRENCH No. 3

2 metres behind start of TRENCH No. 3

FAULT GOUGE IN TRENCH

approximate surface profile

45.72 m overburden

1775m
1750m
1725m
1700m
1675m
1650m
1625m
1600m
1575m

1.10
0.90
0.96
0.65
0.34
0.72
0.79
0.75
0.38
0.79
0.34
1.78
0.72
8.60
0.34
2.16
0.48
0.55
2.50
4.52
0.41
1.23
0.62
0.41
0.89
0.45
0.69
0.75
0.72
0.79
0.18
0.50
0.38
0.08
0.48

Pph, Pmq, Pgw
Kqp
Pph, Pgw
Pgw, Pph, Pmq, lm
quartz vein
friable core, weakly argillically altered
Pgw, Pmq, Pph
Kqp
Pmq, Phqs
weakly bleached & altered
Kld
py
friable-altered
quartz-as filled microfractures
Pgw, Pph
quartz(?) as in micro-fractures
Kgd, Kqp
Kgd, Kqp sausseritized-sericitized & argillically altered as, py
silicified py 2%
Pgw, Pph, Pfq FG
friable contorted & altered
Pmq, Pph friable to moderately competent
Pph, Pmq Kgd friable-argillically altered py, as
Kgd Kqp sausseritized, with weak argillic alteration quartz-tourmaline? veins with as, py
quartz-as, veinlets
Kqp quartz eye porphyry
FG
Pmq, Pph
dacite
quartz vein
Pmq contorted & altered
argillically altered-clay rich
FG blocky-broken core contorted & altered
sericitized & argillically altered
Kgd, Kqp
argillically altered-clay rich
Pmq, sericitized & limonite altered
Pgw
quartz veins, ,as
Pgw, Pph, Pmq contorted
E.O.H. 193.85m
E.O.H. 193.85m
abandoned hole - frozen rods

1.05 g/t / 4.01 m
3.40 g/t / 2.40 m
2.9 g/t / 3.55 m

ALTERATION FAULT ZONE

Kgd

?

LITHOLOGIES

CRETACEOUS (and/or JURASSIC)
Intrusive and Subvolcanic (hypabyssal) Rocks

- Kgd granodiorite
- Kqm quartz monzonite
- Kld lamprophyre (intermediate-mafic) dyke
- Kfp feldspar porphyry
- Kqp **quartz eye porphyry**

LATE PRECAMBRIAN or EARLY PALEOZOIC
Upper Schist / Grit Unit

- Pgw meta-greywacke, dirty quartzite
- Pq massive quartzite
- Pmq micaceous quartzite
- Pph sericite, muscovite, quartz, biotite semi-schist
- Pfq feldspathic quartzite / bi-modal quartzite
- Phqs interlayered quartzite and biotite schist
- Pb breccia

ABBREVIATIONS: FG - fault gouge
tourm - tourmaline
sil'd - silicified

LEGEND

SYMBOLS

- ground surface
- geological boundary ; defined, approximate, assumed
- diamond drill hole
  - lithology & structure
  - assay information g/tonne
  - weighted average ___ g/tonne / ___ metre
- NOTE: only samples over 0.34 gm/tonne are plotted
  *- erratic results
- cased interval ; no core recovery
- ground core
- contacts (no orientation), contact (with orientation)
- foliation
- bedding
- fracture
- fault
- shear zone
- stratigraphic tops
- brecciated rock
- mineralized interval - as - arsenopyrite, py - pyrite, sp - sphalerite, gn - galena, po - pyrrhotite, cp - chalcopyrite, lm - limonite, gt - graphite ; visual estimate of mineral content in volume percent if greater than 1 percent
  N/S - not sampled
- assayed trench chip sample projected to section ; ((g/tonne) Tr - trace)
- trench location
- downhole measurement marker (in metres)
- quartz and/or sulphide filled micro-fractures, approximate orientation
- highly fractured and broken core

10m 0 10m
METRES

092748

GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT
(164)
35 + 98 North, 35 + 53 East
DDH CC 88-2 & 3
CROSS SECTION FACING 035°

Aurum Geological Consultants Inc | AUGUST, 1988
NTS 115 P/14 | DRAWN BY SR | SCALE 1:250 | FIGURE 24

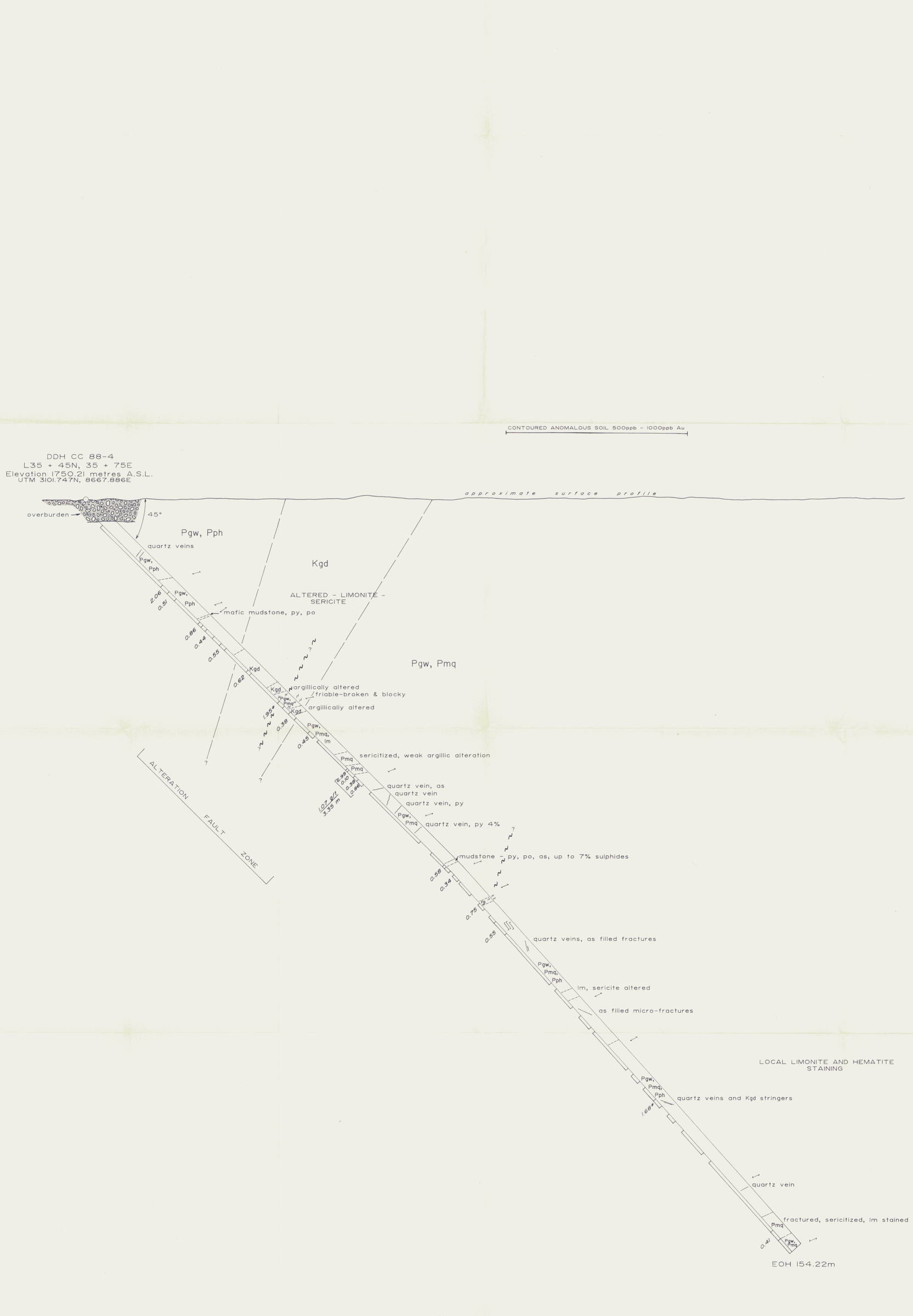
330°

150°

ELEVATION IN METRES A.S.L.

CONTOURED ANOMALOUS SOIL 500ppb - 1000ppb Au

DDH CC 88-4
L35 + 45N, 35 + 75E
Elevation 1750.21 metres A.S.L.
UTM 3101.747N, 8667.886E



LEGEND

LITHOLOGIES

CRETACEOUS (and/or JURASSIC)
Intrusive and Subvolcanic (hypabyssal) Rocks

- Kgd — granodiorite
- Kqm — quartz monzonite
- Kld — lamprophyre (intermediate-mafic) dyke
- Kfp — feldspar porphyry
- Kqp — quartz eye porphyry

LATE PRECAMBRIAN or EARLY PALEOZOIC
Upper Schist / Grit Unit

- Pgw — meta-greywacke, dirty quartzite
- Pq — massive quartzite
- Pmq — micaceous quartzite
- Pph — sericite, muscovite, quartz, biotite semi-schist
- Pfq — feldspathic quartzite/bi-modal quartzite
- Phqs — interlayered quartzite and biotite schist
- Pb — breccia

ABBREVIATIONS: FG - fault gouge
tourm - tourmaline
sil'd - silicified

SYMBOLS

- ground surface
- geological boundary; defined, approximate, assumed
- diamond drill hole
- lithology & structure
- assay information g/tonne
- weighted average g/tonne / metre
- cased interval, no core recovery
- gc — ground core
- contacts (no orientation), contact (with orientation)
- foliation
- bedding
- fracture
- fault
- shear zone
- stratigraphic tops
- BBB — brecciated rock
- mineralized interval as - arsenopyrite, py - pyrite, sp - sphalerite, gn - galena, po - pyrrhotite, cp - chalcopyrite, lm - limonite, gt - graphite, visual estimate of mineral content in volume percent if greater than 1 percent
  N/S - not sampled
- assayed trench chip sample projected to section; ((g/tonne) Tr - trace)
- trench location
- downhole measurement marker (in metres)
- quartz and/or sulphide filled micro-fractures, approximate orientation

NOTE: only samples over 0.34 gm/tonne are plotted
*- erratic results

10m 0 10m
METRES

GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

165

35 + 45 North, 35 + 75 East
DDH CC 88-4
CROSS SECTION FACING 070°

092748

Aurum Geological Consultants Inc. | AUGUST, 1988
NTS 115 P/14 | DRAWN BY SR | SCALE 1:250 | FIGURE 25

ELEVATION IN METRES A.S.L.

330°

150°

CONTOURED SOIL ANOMALY 500ppb - 1000ppb Au

DDH CC 88-5
L 35 + 22N, 35 + 25E
Elevation 1728.72 metres A.S.L.
UTM 3082.409N, 8623.022E

LITHOLOGIES

CRETACEOUS (and/or JURASSIC)
Intrusive and Subvolcanic (hypabyssal) Rocks

- Kgd — granodiorite
- Kqm — quartz monzonite
- Kld — lamprophyre (intermediate-mafic) dyke
- Kfp — feldspar porphyry
- Kqp — quartz eye porphyry

LATE PRECAMBRIAN or EARLY PALEOZOIC
Upper Schist / Grit Unit

- Pgw — meta-greywacke, dirty quartzite
- Pq — massive quartzite
- Pmq — micaceous quartzite
- Pph — sericite, muscovite, quartz, biotite semi-schist
- Pfq — feldspathic quartzite, bi-modal quartzite
- Phqs — interlayered quartzite and biotite schist
- Pb — breccia

ABBREVIATIONS: FG - fault gouge
tourm - tourmaline
sil'd - silicified

LEGEND

SYMBOLS

- ground surface
- geological boundary, defined, approximate, assumed
- diamond drill hole
- lithology & structure
- assay information g/tonne
- weighted average g/tonne / metre
- cased interval, no core recovery
- ground core
- contacts (no orientation), contact (with orientation)
- foliation
- bedding
- fracture
- fault
- shear zone
- stratigraphic tops
- brecciated rock
- mineralized interval - as - arsenopyrite, py - pyrite, sp - sphalerite, gn - galena, po - pyrrhotite, cp - chalcopyrite, lm - limonite, gt - graphite, visual estimate of mineral content in volume percent if greater than 1 percent
  N/S - not sampled
- assayed trench chip sample projected to section, ( ) (g/tonne) Tr - trace)
- trench location
- downhole measurement marker (in metres)
- quartz and/or sulphide filled micro-fractures, approximate orientation

NOTE: only samples over 0.34 gm/tonne are plotted
*- erratic results

10m 0 10m
METRES

092748

GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

172

35 + 22 North, 35 + 25 East
DDH CC 88-5
CROSS SECTION FACING 060°

Aurum Geological Consultants Inc. | AUGUST, 1988
NTS 115 P/14 | DRAWN BY SR | SCALE 1:250 | FIGURE 26

018°

198°

CONTOURED SOIL ANOMALY 1500ppb - 2000ppb Au

CONTOURED SOIL ANOMALY 1000ppb - 1500ppb Au

CONTOURED SOIL ANOMALY 500ppb - 1000ppb Au

ELEVATION IN METRES A.S.L.

1775m
1750m
1725m
1700m
1675m
1650m
1625m
1600m
1575m

DDH CC 88-6
L 37 + 40N, 40 + 95E
Elevation 1730.08 metres A.S.L.
UTM 3262.199N, 9189.888E

approximate surface profile

overburden

Kfp

Pgw, Pmq

Kfp - locally argillically altered

contact zone - brecciated, quartz-tourmaline veins

0.38

Pgw, Pmq

0.98

sericitized

lm

Kfp Kfp - locally argillically altered
clastic dyke, quartz fragments in tourmalinized matrix
Kfp

0.45
0.45

Pgw, Pph

po, as along fractures

quartz-as vein

0.86
2.23
0.34
0.72

off sets up to 2cm along fractures

1.01 g/t
4.30 m

quartz-as veinlets

SILICIFIED
silicified & sericitized quartzite, py, po as

1.58

quartz-as vein

0.34

1.30

Pgw, Pmq

as along micro-fractures

sericitized quartzite, as on micro-fractures
sinistral movement on fractures

4.42
4.49

clean quartzite, as on fractures

cross-cutting quartz veins, as on fractures

0.82

Pgw, Pmq

quartz-as vein

quartz stringers, as on micro-fractures

0.69

0.58

quartz stringers with tourmaline & as

as on micro-fractures

Pph, Pmq

EOH 114.60 metres

LITHOLOGIES

CRETACEOUS (and/or JURASSIC)
Intrusive and Subvolcanic (hypabyssal) Rocks

- Kgd granodiorite
- Kqm quartz monzonite
- Kld lamprophyre (intermediate-mafic) dyke
- Kfp feldspar porphyry
- Kqp quartz eye porphyry

LATE PRECAMBRIAN or EARLY PALEOZOIC
Upper Schist / Grit Unit

- Pgw meta-greywacke, dirty quartzite
- Pq massive quartzite
- Pmq micaceous quartzite
- Pph sericite, muscovite, quartz, biotite semi-schist
- Pfq feldspathic quartzite/bi-modal quartzite
- Phqs interlayered quartzite and biotite schist
- Pb breccia

ABBREVIATIONS: FG - fault gouge
tourm - tourmaline
sil'd - silicified

LEGEND

SYMBOLS

- ground surface
- geological boundary, defined, approximate, assumed
- diamond drill hole
  - lithology & structure
  - assay information g/tonne
  - weighted average g/tonne / metre
- NOTE: only samples over 0.34 gm/tonne are plotted
- *- erratic results
- cased interval, no core recovery
- gc ground core
- contacts (no orientation), contact (with orientation)
- foliation
- bedding
- fracture
- fault
- shear zone
- stratigraphic tops
- brecciated rock
- mineralized interval - as - arsenopyrite, py - pyrite, sp - sphalerite, gn - galena, po - pyrrhotite, cp - chalcopyrite, lm - limonite, gt - graphite, visual estimate of mineral content in volume percent if greater than 1 percent
  N/S - not sampled
- assayed trench chip sample projected to section; ((g/tonne) Tr - trace)
- trench location
- downhole measurement marker (in metres)
- quartz and/or sulphide filled micro-fractures, approximate orientation

10m 0 10m
METRES

092748

GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT
173
37 + 40 North, 40 + 95 East
DDH CC 88-6
CROSS SECTION FACING 108°

Aurum Geological Consultants Inc. | AUGUST, 1988
NTS 115 P/14 | DRAWN BY SR | SCALE 1:250 | FIGURE 27

1675m

305°

125°

CONTOURED SOIL ANOMALY 500ppb - 1000ppb Au

CONTOURED SOIL ANOMALY 1000ppb - 1500ppb Au

CONTOURED SOIL ANOMALY 1500ppb - 2000ppb Au

CONTOURED SOIL ANOMALY 2000ppb - 2500ppb Au

ELEVATION IN METRES A.S.L.

1650m

DDH CC 88-7
L 34 + 45N, 34 + 14E
Elevation 1640.79 metres A.S.L.
UTM 2998.876N, 8504.808E

approximate surface profile

overburden

UC

Pgw, py, po
Pmq
2.67
gc
contorted ?
lm
0.55
Pgw, Pmq
lm
9.29*
Pgw, Pmq
contorted
9.19*
lm
FG
sericite, argillic & limonite alteration
Pbx
0.34
0.48
Pgw, Pmq
quartz veins, as, py
1.23
2.62 g/t 4.4* 2.90 m 1.03
contorted, limonite
0.55
0.89
0.39
0.87 g/t 0.41 1.90 m 2.16*
0.44
Pfq, Pmq
SILICIFIED
quartz vein, as
0.79
1.13
0.34
0.49
Pgw, Pmq
quartz vein, as
Pfq, Pmq
carbonate on fractures
Pb
0.41
limonite, sericite schist
contorted
LOCALLY SILICIFIED
Pmq, Pph
limonite fractures
0.51
Pmq, Pfq, Pph
1.68
argillically altered
Pfq
1.40
Pmq, Pfq, Pph
py, po

ALTERATION FAULT ZONE

EOH 151.81 metres

1625m

1600m

1575m

1550m

1525m

1500m

1475m

LEGEND

LITHOLOGIES

CRETACEOUS (and/or JURASSIC)
Intrusive and Subvolcanic (hypabyssal) Rocks

- Kgd granodiorite
- Kqm quartz monzonite
- Kld lamprophyre (intermediate-mafic) dyke
- Kfp feldspar porphyry
- Kqp quartz eye porphyry

LATE PRECAMBRIAN or EARLY PALEOZOIC
Upper Schist / Grit Unit

- Pgw meta-greywacke, dirty quartzite
- Pq massive quartzite
- Pmq micaceous quartzite
- Pph sericite, muscovite, quartz, biotite semi-schist
- Pfq feldspathic quartzite/bi-modal quartzite
- Phqs interlayered quartzite and biotite schist
- Pb breccia

ABBREVIATIONS: FG - fault gouge
tourm - tourmaline
sil'd - silicified

SYMBOLS

- ground surface
- geological boundary, defined, approximate, assumed
- diamond drill hole
- lithology & structure
- assay information g/tonne
- weighted average g/tonne / metre
- cased interval, no core recovery
- gc ground core
- contacts (no orientation), contact (with orientation)
- foliation
- bedding
- fracture
- fault
- shear zone
- stratigraphic tops
- brecciated rock
- mineralized interval: as - arsenopyrite, py - pyrite, sp - sphalerite, gn - galena, po - pyrrhotite, cp - chalcopyrite, lm - limonite, gt - graphite, visual estimate of mineral content in volume percent if greater than 1 percent
  N/S - not sampled
- assayed trench chip sample projected to section, ((g/tonne) Tr - trace)
- trench location
- downhole measurement marker (in metres)
- quartz and/or sulphide filled micro-fractures, approximate orientation

NOTE: only samples over 0.34 gm/tonne are plotted

*- erratic results

10m 0 10m
METRES

GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

174

34 + 45 North, 34 + 14 East
DDH CC 88-7
CROSS SECTION FACING 035°

092748

Aurum Geological Consultants Inc.			AUGUST, 1988
NTS 115 P/14	DRAWN BY SR	SCALE 1:250	FIGURE 28

325°

145°

1650m

CONTOURED ANOMALOUS SOIL 500ppb - 1000ppb Au

ELEVATION IN METRES A.S.L.

DDH CC 88-8
L34 + 25N, 33 + 90E
Elevation 1619.85 metres A.S.L.
UTM 2964.867N, 8491.527E

1600m
1575m
1550m
1525m
1500m
1550m
1525m

LEGEND

LITHOLOGIES

CRETACEOUS (and/or JURASSIC)
Intrusive and Subvolcanic (hypabyssal) Rocks

- Kgd — granodiorite
- Kqm — quartz monzonite
- Kld — lamprophyre (intermediate-mafic) dyke
- Kfp — feldspar porphyry
- Kqp — quartz eye porphyry

LATE PRECAMBRIAN or EARLY PALEOZOIC
Upper Schist / Grit Unit

- Pgw — meta-greywacke, dirty quartzite
- Pq — massive quartzite
- Pmq — micaceous quartzite
- Pph — sericite, muscovite, quartz, biotite semi-schist
- Pfq — feldspathic quartzite/bimodal quartzite
- Phqs — interlayered quartzite and biotite schist
- Pb — breccia

ABBREVIATIONS: FG - fault gouge
tourm - tourmaline
sil'd - silicified

SYMBOLS

- ground surface
- geological boundary, defined, approximate, assumed
- diamond drill hole
  - lithology & structure
  - assay information g/tonne
  - weighted average g/tonne / metre
- cased interval, no core recovery
- ground core
- contacts (no orientation), contact (with orientation)
- foliation
- bedding
- fracture
- fault
- shear zone
- stratigraphic tops
- brecciated rock
- mineralized interval: as - arsenopyrite, py - pyrite, sp - sphalerite, gn - galena, po - pyrrhotite, cp - chalcopyrite, lm - limonite, gt - graphite; visual estimate of mineral content in volume percent if greater than 1 percent
  N/S - not sampled
- assayed trench chip sample projected to section; ((g/tonne) Tr - trace)
- trench location
- downhole measurement marker (in metres)
- quartz and/or sulphide filled micro-fractures, approximate orientation

NOTE: only samples over 0.34 gm/tonne are plotted
*- erratic results

10m 0 10m
METRES

GOLDRITE MINING CORP.
CLEAR CREEK PROPERTY
DAWSON MINING DISTRICT

175

34 + 25 North, 33 + 90 East
DDH CC 88-8
CROSS SECTION FACING 055°

Aurum Geological Consultants Inc. | AUGUST, 1988
NTS 115 P/14 | DRAWN BY SR | SCALE 1:250 | FIGURE 29

092748