

on

Trenching and Drilling Programmes

MORRISON AND HEARNE HILL PROPERTY

[Work was Done on Ellen 1-16 Claims]

(September 1999 – August 2000)

OMINECA MINING DIVISION BABINE LAKE AREA, BC

(Volume 1 of 4)

NTS 93-M/1W

Latitude 55°11'N

Longitude 126°18'W

SEMENT REPORT

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Owner of Claims:

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Date Submitted: 4 December, 2000

Operator: (same)

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Recommendations for future exploration on the Morrison property are as follows:

- 1. Compile the data from the 2000 field season into a computer database. Combine the new data with Noranda's database to make a geological model of the deposit. Complete an inhouse scoping study including an ore resource estimate using computer generated ore blocks.
- 2. Upon a positive outcome of the scoping study, plan a large drilling programme over the deposit. This phase of work would include a strategic drill programme to delineate high-grade areas within the deposit and a systematic programme using a grid patter, possibly within 50m centers to define the whole deposit.

Introduction

This report describes results of trenching and diamond drilling programmes at the Morrison porphyry copper gold silver deposit which is currently being explored by Pacific Booker Minerals under an option agreement with Noranda Corporation. The basic physiographic details of the claim group are:

Location and Access

The Morrison deposit [Ellen 1-16 claims] is located in the Babine Lake region of the Intermontane Belt of central British Columbia (Fig. 1). Situated at latitude 55°11' N and longitude 126° 18' W. The Morrison/Hearne Hill property is 30 kms due north of the village of Granisle which was originally built to service the Granisle and Bell miles.

The Granisle mine ceased production in 1982 and all surface facilities have been removed. Production ceased at the Bell mine in 1992 and the minesite has been decommissioned.

Access from the rest of BC is by means of paved provincial highway 321 (Topley - Granisle) to Michel Bay. Then by barge (no charge) across Babine Lake to Nosebay (approx. 20 minutes). A network of main haulage logging roads (principally the Hagen along the east side of Babine Lake) gives access to the Morrison property (approx. 38 road kms from the ferry).

Topography

The Babine Lake region forms part of the rolling uplands of the Nechako Plateau within the Intermontane Belt of central British Columbia (Fig. 1). Oligocene to Recent block faulting dissected the region into a basin and range morphology consisting of north-westerly trending ridges and valleys. The major trenches are filled with long, narrow and deep lakes, the largest of which is Babine Lake, Morrison Lake lies to the northwest of Hatchery Arm of Babine Lake and occupies the same valley. Elevations range from 733m on the shore of Morrison Lake, (i.e. in the basin) to 1380m on Hearne Hill (i.e. the Range). The eroded scarp of the Morrison Fault forms the western flank of the Morrison graben.

Claim Details

The Ellen 1-16 claims on which the trenching and drilling programmes were done are shown on Figure 2.

The remaining claims which comprise the Morrison - Hearne Hill property are shown in the following table:

Claim Name	Tenure No.	Current Expiry Date	New Expiry Date
Hearne 1	242812	September 15, 2000	September 15, 2007
Hearne 2	242813	September 15, 2000	September 15, 2007
Ellen 1	243847	September 15, 2000	September 15, 2007
Ellen 2	243848	September 15, 2000	September 15, 2007
Ellen 3	243849	September 15, 2000	September 15, 2007
Ellen 4	243850	September 15, 2000	September 15, 2007
Ellen 5	243851	September 15, 2000	September 15, 2007
Ellen 6	243852	September 15, 2000	September 15, 2007
Ellen 7	243853	September 15, 2000	September 15, 2007
Ellen 8	243854	September 15, 2000	September 15, 2007
Ellen 9	243855	September 15, 2000	September 15, 2007
Ellen 10	243856	September 15, 2000	September 15, 2007
Ellen 11	243857	September 15, 2000	September 15, 2007
Ellen 12	243858	September 15, 2000	September 15, 2007
Ellen 13	243859	September 15, 2000	September 15, 2007
Ellen 14	243860	September 15, 2000	September 15, 2007
Ellen 15	243861	September 15, 2000	September 15, 2007
Ellen 16	243862	Sentember 15, 2000	September 15, 2007
Alva #1	243863	September 15, 2000	September 15, 2007
Alva #2	243864	September 15, 2000	September 15, 2007
Ellen #3 Fr	243879	September 15, 2000	September 15, 2007
Frances #25	244011	September 15, 2000	Sentember 15, 2007
Frances #27	244012	September 15, 2000	September 15, 2007
Duil Axe #1	244266	September 15, 2000	September 15, 2007
Dull Ave #7	244267	September 15, 2000	September 15, 2007
She 13	244207	September 15, 2000	September 15, 2007
She 14	244270	September 15, 2000	September 15, 2007
Duke #7 Fr	244272	September 15, 2000	September 15, 2007
Dyne wr 11 Datch Er	244326	September 15, 2000	September 15, 2007
Cub 200	341500	September 15, 2001	September 15, 2007
Cub 200	341510	September 15, 2002	September 15, 2007
Conner 200	341511	September 15, 2002 September 15, 2002	September 15, 2007
Copper 100	341512	September 15, 2002	September 15, 2007
Cup 100	241512	September 15, 2002	Soptember 15, 2007
	241551	September 15, 2002	September 15, 2007
1 00	241551	September 15, 2002	September 15, 2007
	341332	September 15, 2002	September 15, 2007
נ סג א מג	241554	September 15, 2002	September 15, 2007
DD 4 Maama 2	341334	September 15, 2002	September 15, 2007
Hearne 3	347037	September 15, 2002	September 15, 2007
Hearne 4	247028	September 15, 2002	September 15, 2007
Heame 5	347039	September 15, 2002	September 15, 2007
Hearne o	347040	September 15, 2002	September 15, 2007
Hearne /	347041	September 15, 2002	September 15, 2007
Hearne 8	347042	September 15, 2002	September 15, 2007
Hearne 9	347043	September 15, 2002	September 15, 2007
Hearne 10	347040	September 15, 2002	September 15, 2007
Hearne 11	34/04/	September 15, 2002	September 15, 2007
Hearne 12	348733	September 15, 2002	September 15, 2007
Hearne 13	348736	September 15, 2002	September 15, 2007
Dyke I	360773	September 15, 2000	September 15, 2007
Dyke 2	360774	September 15, 2000	September 15, 2007
Dyke 3	360775	September 15, 2000	September 15, 2007
Dyke 4	360776	September 15, 2000	September 15, 2007
Dyke 5	360777	September 15, 2000	September 15, 2007



Figure 1: Location map MORRISON AND HEARNE HILL PROPERTY

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History of Exploration at Morrison

The Morrison Lake area was first explored in the early 1960s during the initial rush of exploration to the Babine region. Regional stream sediment sampling in 1962 by the Norpex Group of Noranda Exploration Company, Limited led to the discovery of the Morrison deposit in 1963 with critical early work by L. Saunders, R. Woolverton and D.A. Lowrie (Woolverton, 1964).

During the follow-up in 1963 of copper-anomalous stream sediments that were collected in 1962, copper-bearing BFP float and exposures were found by employees of Noranda Exploration Company, Limited in the stream that flows over the copper zone (Figs. 2, 3). Trenching of the thin overburden uncovered relatively unweathered chalcopyrite-bearing bedrock in large areas on both sides of the stream, where soil samples were anomalous.

Ninety-five diamond holes, most oriented east or west with dip 45 degrees, were drilled from 1963 to 1973. 65 holes were AEX diameter. The other 30 were BQ diameter. Induced polarization surveys were not very definite, because of very widespread pyrite. However, the BFP intrusions, including portions of the BFP plug, were known to contain abundant magnetite; therefore, magnetic surveys were used as a guide in the early drilling. By 1968, a sub-economic deposit had been outlined that consisted of two zones totalling about 55 million tonnes averaging 0.42 per cent copper. The zones are immediately northwest and southeast of the small central pond (Fig. 3), and their positions correspond closely to strong geochemical and magnetic anomalies.

Geological mapping done in 1963 and 1967 had indicated the possibility that the two zones might be parts of a single faulted deposit. Hydrothermal alteration studies initiated in 1967 showed that the deposit had well-defined biotite-chlorite zoning and that biotitization was very closely related to copper grades. Although data was sparse, biotitization in the large poorly tested area between the two known zones appeared to be widespread and strong, indicating that this area was probably underlain by additional +0.4 per cent copper mineralization. Drilling in 1970 to test the central area, succeeded in joining the portions of the faulted copper zone and increased the known tonnage of the deposit from about 55 to 86 million tonnes.

The Morrison copper zone and peripheral hydrothermally altered rocks have resisted erosion by glaciation more than the surrounding unaltered rocks. The altered rocks occur in an elevated, thinly mantled, roughly elliptical plateau 60-90 metres above the level of Morrison Lake. This plateau is bisected by a north-south gully carved along a fault, the east fault, and is surrounded by areas of shallow to very deep glacial overburden (Fig. 3).

It is significant that following the 1973 drill programme Noranda did no further active field work at Morrison. Pit design studies were carried out in 1988 and 1990 to establish whether Morrison could supply feed to the Bell Mine but no further drilling was done on the property until Booker Gold Exploration (now Pacific Booker) drilled 3 holes, No. 98-1, 2, 3 in 1998.

Regional Geology

The Morrison deposit is situated on the norther edge of the Skeena Arch in a region underlain by volcanic, clastic and epiclastic rocks ranging in age from Lower Jurassic Telkwa Formation to Lower Cretaceous Skeena Group. This sequence of rocks has been cut by a northwest trending series of faults that have created a long linear sequence of horsts and grabens. The rocks have been intruded by a variety of intermediate to felsic stocks, plugs and dykes of Eocene age (Richards, 1990).

During the Tertiary-Eocene period, BFP plugs and stocks of the Babine Igneous Suite were emplaced along major faults in a continental magmatic arc. Two ore bodies (Bell and Granisle) and numerous sub-economic deposits occur as porphyry-copper deposits which are temporally and spatially associated with the Babine Igneous Suite intrusions (Carson and Jambor, 1974).

Property Geology

Lithology

[The following description of the geology of the Morrison property is partially based on regional mapping by MacIntyre *et.al.* (1997-1), detailed petrographic studies by Carson and Jambor (1974) and field investigations by Pacific Booker Minerals Inc.]

Jurassic Sedimentary Rocks

Host rocks for the BFP intrusions at Morrison are siltstone, silty argilites and minor conglomerates of the Upper Jurassic Ashman formation.

In most localities on the Morrison property, the Ashman rocks are massive and strongly altered, and bedding is not visible. Where observable, bedding generally strikes northerly to northwesterly and dips steeply.

The siltstones and silty argillites are very fine to medium grained and consist largely of a heterogeneous mixture of detrital quartz, feldspars, and volcanic and sedimentary rock fragments. The over-all appearance and minerology of these rocks depend largely on their location in the Morrison alteration zones. Fawn or medium grey colours and observable clastic textures are characteristic of rocks with considerable introduced carbonate in the outer portions of the property. Some siltstones are poorly indurated; some are shaly. The rocks become darker greyish-green and fawn, indurated, chlorite-carbonate-rich greywackes and argilites as the copper zone is approached, and are dark grey and jet-black biotitized variries in copper zone.

Conglomerates have been observed at a few localities such as in the creek near the old Noranda camp site. These conglomerates are light grey to fawn-coloured rocks that contain rounded pebbles of cherty, dacitic and andesitic rocks.

Throughout the entire property, the Hazelton sedimentary rocks are cut by abundant BFP dykes and sills.

Eocene Rhyodacite

Widespread rhyodacite dykes in the Babine area are believed to be co-magmatic with the BFP intrusions. At Morrison, light tan-coloured, medium- to fine-grained rhyodacite dykes with aplitic textures occur at a few localities. They are leucocratic rocks composed almost entirely of quartz, albite and K-feldspar. At some localities, the dykes have a fine to coarse breccia texture in which aplitic fragments are contained in a very fine grained siliceous matrix.

Eccene Biotite-Hornblende Plagioclase Porphyry (BFP)

Morrison BFP is similar to BFP at other Babine porphyry copper deposits. A complete description of this rock, including chemical and microprobe analyses, is given by Carson and Jambor (1974).

The main BFP pluton at Morrison is a faulted plug, with nearly vertical contacts, which occupies a north-westerly oriented elliptical area of 900 by 150-300 metres. Before faulting, the plug was roughly circular in section, with a diameter of about 500 metres. Numerous offshoots of the plug, many of which are northerly trending dykes or sills, occur everywhere in the Hazelton sedimentary rocks. The offshoots vary in width from less than 1 metre to greater than 500 metres. Most BFP contacts are sharp. Angular inclusions of siltstone have been observed in only a few localities.

Unaltered BFP is speckled with abundant 1/4 to 5-mm phenocrysts of plagioclase (zoned oligoclase-andesine), biotite and hornblende in a fine-grained matrix of the same materials as well as quartz and K-feldspar. Apatite and magnetite are common accessory minerals. At Morrison, all rock exposures are altered, and hornblende phenocrysts in particular have been largely replaced by hydrothermal chlorite or biotite. Rare phenocrysts of K-feldspar and quartz have been noted in some Babine porphyry deposits, but not at Morrison. Compositionally, Morrison BFP is equivalent to quartz diorite porphyry (dacite porphyry).

At Granisle, many phases of BFP intrusions are evident from cross-cutting relationships among slightly different-appearing types of BFP and from the occurrence of fragments of one type in another in breccia pipes (?) and intrusive breccias. Such features are seen most clearly during close examination of rock faces in the pit. At Morrison, the plug is known to contain a large number of phases of BFP. Their presence is indicated by the occurrence of varieties of BFP that have contrasting abundances of phenocrysts and of groundmass grain sizes. Some of these BFP variations occur over distances of only a few metres, and in a few cases intrusive contacts have been observed in drill cores.

Part of the variation in appearance of BFP is due to superimposed hydrothermal alteration. BFP in the chlorite-carbonate zone is typically a greenish grey speckled rock of phenocrysts of pale

grey plagioclase, pale green chloritized hornblende and books of unaltered brown biotite. In the weak, outer part of the biotite zoner, the rock is darker greyish green. In the inner, stronger biotitized part of the copper zone, BFP is dark grey to black, and speckled with distinct unaltered white plagioclase phenocrysts and books of black biotite.

Post-Mineral Andesite Dykes

Light green, very fine grained to aphanitic, weakly altered dykes ranging in width from 1/3 to 2 metres have been encountered in a few drill holes. The dykes are andesitic and contain widely scattered 1/2 to 1-mm phenocrysts of plagioclase, hornblende and biotite. These intrusions, possibly a late-stage, relatively mafic type of BFP, are barren of copper.

Structure

The Morrison deposit occupies the central part of a major graben that is a component of the regional northwesterly trending block-fault system of the Babine area (Carter, 1973; Richards, 1974). The western bounding fault is believed to be along Morrison Lake, and the eastern fault is about 0.8 km east of the property. Within this graben, Upper Jurassic Ashman formation, and the Cretaceous Sustut Group which crops out 3 km to the northwest of the Morrison deposit have been down-faulted and preserved from erosion.

The most prominent structure at Morrison is the north-westerly trending east fault, which bisects the BFP plug and copper zone (Fig. 3). The fault is apparently vertical and has a right-hand heave of approximately 300 metres. The vertical displacement, although unknown, is believed to be considerable. Rather than a single break, the East Morrison fault is a linear zone of parallel shears and fractures. The zone averages about 25 metres in width, but ranges from 50 metres in its central portion to only a few metres at its extremities.

Along its entire length, the Morrison fault is marked by intense clay-carbonate alteration and well-defined zones of carbonate-cemented gouge and breccia. North-westerly trending streaks and patches of clay-carbonate alteration found elsewhere in the BFP plug and surrounding rocks are believed to have developed along minor shears and fractures that formed along contacts and bedding planes during movements on the Morrison fault.

Mineralized fractures, 2 to 10 cm apart, are exposed in trenches and outcrops. The fractures have a great variety of orientations, but tend to dip steeply and trend northerly, parallel to the strike of the Ashman sedimentary rocks, the copper zone and the Morrison fault. However, at the northern end of the deposit, the strikes of both the copper zone and the more prominent fractures swing to the northeast and east.

Major fold structures have not been observed at Morrison. Although the strike of the sedimentary rocks appears to be mainly north-northwesterly, some argillaceous siltstones and conglomerates at the southern end of the property strike east-northeast to east-southeast and dip steeply. This suggests that the BFP plug may be localized in the north-northwesterly trending

isoclinal fold, the nose of which is at the southern end of the property.

Mineralization and Alteration

Copper Zone

The Morrison copper zone is a vertical annular cylinder that conforms to the shape of the BFP plug and is disrupted by the east and west faults. The copper zone is defined by external and internal boundaries that mark the limits of rocks which consistently grades greater than 0.2% copper. In most places, the external boundary is relatively sharp and copper content declines outward to less than 0.1 per cent within about 40 metres. However, along the western and northwestern edges of the copper zone, sporadic areas of + 0.3 per cent copper occur for several hundred metres beyond the 0.2 per cent copper boundary. The low-grade core averages between 0.15 and 0.2 per cent copper. Between the internal and external 0.2% isopleths, copper increases fairly regularly to form a higher-grade annulus. In the annulus, which is 15 to 150 metres wide, copper, and the average grade of the entire 0.3+ per cent zone is 0.42 per cent copper. Molybdenum averages approximately 0.01 per cent and gold and silver 0.3 gram per tonne and 3 grams per tonne respectively. Spotty occurrences of galena and sphalerite, in carbonate-cemented brecciated veins within and near the Morrison fault and in smaller parallel shears, contribute to relatively high, but uncommercial, values of lead and zine.

At Morrison, all copper sulphides are primary. Chalcopyrite is the main copper-bearing mineral. It is distributed chiefly in fracture stockworks with or without quartz, but about 20 to 30 per cent of the mineral is disseminated in the BFP matrix and in peripheral sedimentary rocks.

Pyrite Halo

All rocks at Morrison contain anomalous quantities of pyrite (> 1 per cent) that contribute to an over-all high induced polarization response. Coarsely disseminated 1/2 - 5-mm crystals of pyrite are common in the inner parts of the halo, whereas 0.1- to 0.5-cm-wide stringers predominate in the outer portions.

The most pronounced concentrations of pyrite (5-15 per cent by volume) occur in three segments that surround the copper zone. The outer two thirds of the segments average only about 0.05 per cent copper. The eastern pyrite segment is very large. Pyrite content at its outer margin decreases abruptly to 1 to 2 per cent. However, in the smaller western segments, pyrite abundances decrease more gradually and zones of 3 to 5 per cent pyrite are common in the area that includes the large northerly trending BFP and rhyodacite dykes.

Sulphide Mineralogy and Zoning

Chalcopyrite and pyrite are the main sulphides at Morrison. Minor to moderate amounts of bornite at a few places in the copper zone contribute significantly to copper grades. However, most of the high-grade sections owe their copper content solely to chalcopyrite. Most of the

chalcopyrite occurs along thin seams and veinlets with or without quartz and biotite, but notable amounts of the sulphide are also finely desseminated in the BFP matrix and in sediments.

Very minor molybdenite occurs in some chalcopyrite-pyrite seams and as minute disseminated flakes in the copper zone, which averages about 0.01 per cent molybdenum.

Though pyrrhotite and marcasite occur in only minor quantities at Morrison, these minerals are more abundant than in other porphyry copper deposits. Pyrrhotite is almost exclusively in the pyrite halo, but the quantity present is unrelated to the percentage of pyrite present. Marcasite is most commonly associated with pyrite, arsenopyrite, galena, sphalerite, geocronite and boulangerite. These minerals occur with quartz and carbonate in small vuggy veinlets and pockets in minor faults and in the clay-carbonate-altered rocks of the fault zones.

Detailed polished-sections indicate that pyrite and chalcopyrite have a well-defined zonal relationship. Although pyrite predominates in the pyrite halo, the 0.2 per cent copper grade-line precisely marks a change in pyrite-to-chalcopyrite ratios; calcopyrite consistently exceeds pyrite in samples only from the inside of this boundary. Although the absolute abundance of pyrite decreases toward the centre of the Morrison deposit, disseminated grains of the mineral persist throughout the copper zone and in the low-grade core.

Polished-section studies have shown also that, in addition to chalcopyrite and pyrite, magnetite and minor bornite are present in the low-grade-core of the deposit. Magnetite is confirmed to the low-grade core and the copper zone; that is, the area enclosed by the outer 0.2 per cent copper grade-line. The mineral is a finely desseminated original constituent of the BFP and the siltstones and is most abundant in the western segment of the copper zone. Many magnetite grains are partly altered to hematite, which seems to be most abundant at the outer 0.2 per cent boundary. No iron oxides have been observed in the pyrite halo.

Hydrothermal Alteration

Hydrothermal alteration at Morrison is similar to that at Granisle and other Babine porphyry copper deposits (Carson and Jambor, 1974). The copper deposit is within a centrally located biotite zone, the quality of which decreases outward. Surrounding the biotite zone is a chlorite-carbonate zone. Intense clay-carbonate alteration is associated predominantly with the faults and related shears.

Minor amounts of well-crystallized chlorite occur in the biotite zone, mainly as veinlets and crystal clusters. Finer, less strongly crystallized chlorite is common in the weak outer part of the biotite zone, and abundant chlorite that occurs mainly as pseudomorphs after hornblende characterizes the chlorite-carbonate zone.

As is evident from the above, the biotite-to-chlorite ratio increases as the copper zone is approached externally, and the crystallinity of both minerals also increases.

The three types of phenocrysts in BFP - biotite, hornblende and plagioclase - possessed distinctly different subceptibilities to alteration. Biotite phenocrysts were relatively stable and remained largely unaltered both in the chlorite-carbonate and biotite zones. Only in the most intensely biotitized rocks are phenocrysts partly replaced on their rims by finer hydrothermal biotite. In contrast to biotite, hornblende phenocrysts were very sensitive to hydro-thermal alteration. Their replacement in the central, copper-bearing area by hydrothermal biotite and inthe peripheral areas by chlorite and carbonates, is the most diagnostic and useful feature of hydrothermal alteration at Morrison and all Babine deposits. Within the biotite zone of the Morrison deposit, residual primary hornblende as well as hydrothermal amphibole of the tremolite-actinolite series are common.

Plagioclase phenocrysts are flecked only weakly with kaolin, sericite and carbonate in the outermost part of the chlorite-carbonate zone. However, this feldspar destructive alteration increases in intensity inward to the inner chlorite-carbonate zone, where some crystals are completely replaced; others are partly replaced in irregular patches or along cleavages and compositional zones. In the carbonate-deficient parts of the inner biotite zone, most plagioclase is clear and unaltered. However, in some cases, unaltered phenocrysts occur adjacent to totally altered (sericite-kaolin-carbonate) phenocrysts.

K-feldspar has been observed in very minor amounts in quartz-chalcopyrite \pm biotite veinlets in the inner + 0.3 per cent copper portion of the copper zone. Its distribution coincides with the inner, stronger part of the biotite zone, which therefore corresponds to the classical potassic zones of other porphyry copper deposits.

Along faults and shears, clay-carbonate alteration is superimposed on the earlier biotitic and chloritic alterations. In the fault zones and at other localities of intense clay-carbonate alteration, biotite, hornblende and plagioclase phenocrysts and BFP matrix have been almost totally altered to kaolinite \pm montmorillonite, chlorite and mixtures of calcite, dolomite and, rarely, siderite. Pyrite is an additional alteration product of the mafic phenocrysts. At several localities where the streaks and patches of moderately intense clay-carbonate alteration are exposed in trenches, many can be seen to be parallel to the Morrison fault, to most BFP dyke contacts and to the overall strike of the Hazelton sedimentary rocks.

Disseminated fine-grained apatite is anomalously abundant in the BFP plug and in some large dykes. Veinlets and pockets of coarse apatite-biotite-bornite-calcopyrite, such as those that occur at Granisle, have not been found at Morrison. Gypsum has been observed at places in the copper zone. Very minor amounts of tournaline were observed in thin sections of BFP and siltstone at four localities near the western edge the copper zone. Minor epidote is found in all parts of the property, but is most common in the outer chlorite-carbonate zone. Minor amounts of sericite are also resent in most localities. Moderate amounts of sericite, accompanied by carbonates, occur in the southern third of the large rhyodacite dyke and in some siliceous sedimentary rocks in the southeastern part of the pyrite halo.

As is evident from the above, hydrothermal zoning at Morrison, like copper zoning, is relatively

uniform. Except for superimposed, structurally controlled clay-carbonate alteration, there are no significant reversals in the mineralogy.

Exploration Programmes

Trenching

During October, November 1999, and June - October, 2000 extensive programmes of trenching were done on the Morrison property. Various large backhoes (Kobelco mostly) were used to excavate and extend the trenches originally dug by bulldozer for Noranda Exploration - probably in 1964.

These old trenches had "sloughed in" and being originally excavated by bulldozer, they had not been successful in achieving continuous exposure of bedrock. The modern backhoe trenches provided a much more continuous exposure of bedrock - enabling copper and gold values to be sampled and assayed over entire trenched distances in some cases.

Initially the trenches were logged in 5m lengths. Lithology, alteration, fracture density were all observed plus estimates of chalcopyrite, bornite and pyrite content. Each 5m sample was then analysed for 30 elements by I.C.P. methods. Subsequently sampling intervals were changed to 10m lengths.

Location of the trenches are shown in Figure 3. Logs of mapping of the trenches and analytical certificates are shown in Appendix A. [Some analytical certificates date from after 31 August 2000 due to time delays in submitting samples for analysis. These results are included in this report because they are part of the overall data produced but they are <u>not</u> part of the assessment work in this report that is detailed in Statement of Costs for assessment work credit.]

Diamond Drilling

In October 1999 Pacific Booker drilled a vertical hole Mo-4 which was deepened as part of the year 2000 programme. Hole 99-3 was also deepened as part of the year 2000 programme.

The recent programme of drilling started 20 April 2000 and was completed 9 November 2000. Details of holes drilled by Pacific Booker since the start of its programme at Morrison up to 31 August 2000 are shown in the following table. All holes were drilled with NQ diameter, diamond drill equipment by Falcon Drilling of Prince George, BC. Core is stored at Pacific Bookers Camp at the property.

Hole	Easting	Northing	Azimuth	Dip	Total Depth (ft)	Total Depth (m)	Date Of Drilling
MO-1	3000	3774	092	70	797	242.9	16-22 Jan 1998
МО-2	2950	3810	090	50	1275	388.	23-29 Jan. 1998
мо-з	3050	3866	090	45	334	101.8	30 Jan-4 Feb. 1998
	The	above holes for re	ference only, <u>N</u>	l <u>OT</u> inclu	ided in the as	ssessment repo	rt.
ext.	3050	3866	090	45	1044	318.21	1-5 Aug. 2000
МО-4	3125	3870		90	1019	310.67	16-25 Oct. 2000
ext.	3126	3874		90	1491	454.46	20-27 Apr. 2000
MO-5	3010	3805	092	75	1447	441.05	28 Apr8 May, 2000
MO-6	3190	3932	090	78	1 22 1	372.01	9-18 May, 2000
MO-7	3548	3394	270	77	1203	366.67	19 May-11 Jun. 2000
MO-8	3330	3564	270	70 ·	1071	326.44	12-20 Jun. 2000
MO-9	3406	3205	-	90	1007	306.93	21-27 Jun 2000
MO-10	3390	3350	270	60	896	273.1	28 Jun-8 Jul 2000
MO-11	3410	3340	090	70	1077	328.27	10 Jul-16 Jul. 2000
MO-12	2985	3560	090	45	1116	340.16	6-15 Aug. 2000
MO-13	2985	3560	270	45	495	150.88	16-19 Aug. 2000
MO-14	3108	3445	090	50	997	303.89	20-27 Aug. 2000
MO-15	3490	3200	090	45	1026	312.73	28 Aug-5 Sept, 2000

In order to ensure accuracy of sampling and assaying, Pacific Booker maintained a quality control programme throughout the drilling:

- a. A geotechnical log of each hole was made which noted recoveries achieved in each 10 ft (3.05 m) section. This log also noted condition of drill core, i.e. amount of broken material present. Generally core recovery using modern hydraulically driven, thin walled NQ drill rods was 100%. In fractured zones minor amounts of material were lost.
- b. Core was split or sawn into two halves. One half was taken as a sample for assay (10 ft. Or 3.05

m lengths). The other half was replaced in the core box for reference

- c. The core samples were either assayed for copper and gold or analysed by I.C.P. for 30 elements.
- d. Pacific Booker commissioned CDN Resource Laboratories Ltd. To prepare copper standards. A set of gold standards were purchased from Rock Labs of Auckland, New Zealand. These standards were inserted in the material submitted for analysis to ensure the accuracy of assaying procedures. Blank core samples were also inserted randomly.

Drill logs and assay certificates are contained in Appendix B. Petrographic work by Vancouver Petrographics is detailed in Appendix C.

Results of the drilling programme are summarized as follows:

Deepening of hole Mo-98-3 completed Phase I of the drilling programme at the Morrison porphyry copper gold deposit.

The aims of the Phase I programme were outlined as follows:

- 1. Establish grade and <u>continuity</u> of copper values, using modern state of the art thin walled NQ hydraulically driven drill equipment, which achieves essentially 100% recovery. All previous drilling (95 holes) dates from 1963 to 1973. All of these holes were small diameter core size which resulted in inconsistent core recovery and made accurate assaying difficult. This necessitated Pacific Booker redrilling within the known porphyry deposit with modern equipment.
- 2. Establish gold and silver grades (Few of the original drill holes were assayed for these metals.)
- 3. Explore the depth of the copper/gold/silver bearing system. Historic drilling was by 45-degree angle, short holes, which had explored the system to a maximum depth of 500 vertical feet. (150 metres).

The Phase I programme adequately achieved its stated aims by successfully defining higher copper grades; establishing significant gold values within the known deposit and extending the system to increased depth with holes Mo-99-4 and Mo-00-9.

During the course of the Phase I drilling it became evident that the Morrison deposit had not been fully explored on the west, northwest and north sides.

Pacific Booker's initial Phase II programme was therefore extensive trenching, drilling and geophysics in these areas to locate and define the deposit boundaries. Mapping of alteration zoning with attendant mineralization was utilized to assist in defining the true size of the Morrison deposit. To date the Morrison deposit is open to depth and to the west, north and northwest.

The 11 holes comprising the Phase I programme are summarized in the following table. Locations are shown on Figure 3.

Drill hole	Azimuth	Dip Angle	Hole Length (metres	Intercepts from (m)	To (m)	Length metres	Feet	Copper %	Gold grams/ tonne	Silver grams/ Tonne
Mo-98-1	90	-70	239.8	3.10	239.80	236.7	780	0.41	0.29	1.40
			includes	3.10	96.60	93.50	310	0.72	0.53	2.25
				26.50	34.60	8.10	30	1.03	0.96	3.47
Mo-98-2	90	-50	388,7	3.90	378.40	374.50	1230	0.50	0.24	1.62
			includes	86.90	285.10	198.20	650	0.61	0.29	1.91
				239.20	285.10	45.90	150	0.81	0.48	2.27
Mo-98-3	90	-50	318.8	3.00	266.99	263.99	866	0.51	0.27	2.44
			includes	3.00	101.80	98.80	325	0.60	0.27	1.73
				96.00	101.8	5.80	20	0.70	0.36	2.16
Mo-99-4		-90	454.46	4.25	454.46	450.21	1477	0.70	0.40	
			includes	85.06	170.43	85.37	280	0.97	0.53	
				200.46	228.35	27.89	92	0.98	0.49	
Mo-00-5	92	-75	441.05	2.80	288 .72	285.92	938	0.50	0.45	2.85
			includes	200.00	265.00	65.00	210	0.65	0.79	
				212.00	240.00	28.00	90	0.80	1.02	
Mo-00-6	90	-78	372.01	3.00	372.01	369.01	1211	0.50	0.26	3.00
			includes	55.60	133.70	78.10	250	0,60	0.26	
				307.80	343.00	35.20	115	0.70	0.36	
Mo-00-7	270	•77	366.67	2.44	346.25	343.81	1128	0.44	0.20	1.52
			includes	174.4	340.0	. 165.60	543	0.56	0.25	
				312.0	340.0	28	92	0,64	0.25	
Mo-00-8	270	-70	326.44	16.15	326.44	310.29	1018	0.50	0.28	
			includes	42.06	142.64	100.6	330	0.61	0.20	
				206.64	310.27	103.63	340	0.48	0.46	
Mo-00-9	-	-90	306.93	2.13	306.93	304.80	1000	0.42	0.13	
			includes	200.2	249.0	48.8	160	0.64	0.18	
				233.8	249.0	15.2	50	0.92	0.26	
Mo-00-10	270	-60	273.10	8.20	273.10	264.90	869	0.22	0.14	
			includes	\$ 5.75	141.21	45.46	150	0.38		
Mo-00-11	090	-70	328.27	2.44	328.27	325.83	1069	D.51	0.18	
			includes	165 75	274 84	100 00	360	0.62		

MORRISON DEPOSIT SUMMARY OF PHASE I DIAMOND DRILLING

Note: Figures in italics are higher grade intercepts included within the overall intercept.

Drilling in Phase II has focussed on defining the boundaries of the deposit. This required drilling either from the deposit out or from outside the boundaries into the deposit. Many of these holes, by definition, do not grade in the same range as those within the core areas of the deposit.

Summary of assay results from Diamond Drill Holes MO-12 to MO-15 are as follows:

DDH MO-00-12

to define the south edge of the central zone to the east from surface to 178.6 Metres (586 feet) .19% copper, .07 grams/tonne gold 178.6 metres-340.16 metres (530.1 feet) .30% copper, .21 grams/tonne gold.

DDH MO-00-13	same set up to define the south edge of the central zone to the west from surface to 114.6 metres (376 feet) .13% copper, .04 grams/tonne gold, 114.6-150.88 metres barren
DDH-MO-00-14	to further define the south area of the central zone. From surface to 127.10 metres (417 feet) .09% copper, .04 grams/tonne gold 127.10-303.89 metres (580 feet) .35% copper .14 grams/tonne gold
DDH MO-00-15	to further define the south edge of the central zone. From surface to 273.10 metres (775 feet) / 42% copper, .25 grams/tonne gold 273.1-312.73 metres (130 feet) .13% copper, .09 grams/tonne gold

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Certificate.

I, Christopher J. Sampson, of 2696 West 11th Avenue, Vancouver, BC, V6K 2L6, hereby certify that:

- I am a graduate (1966) of the Royal School of Mines, London University, England with a Bachelor of Science degree (Honours) in Economic Geology.
- I have practiced my profession of mining exploration for the past 34 years in Canada, Europe, United States, Central and South America. For the past 25 years I have been based in British Columbia.
- I am a consulting geologist. I am a registered member in good standing of the Association of Professional Engineers of British Columbia.
- 4. This report is based on supervision of trenching and drilling programmes at the Morrison Property, BC.

Dated at Vancouver, British Columbia this 4th day of December, 2000.



Christopher J. Sampson, P. Eng. Consulting Geologist

	ITEMIZED COST STATEM September 16,	MENT FOR A 1999 to August	SSESSMEN t 31, 2000	T CREDIT	
Personnel	Consulting Engineer	16.50	days	7,500.00	
	Consulting Geologist	3.00	hours	288.00	
	Prospector	61.00	days	24,400.00	
	Geologists	279.00	days	83,380.00	
	Field Assistants	134.00	days	19,754.80	
	Coresplitters	19.00	days	2,850.00	
	Camp Cook	109.00	days	23,143.00	
	First Aid training			754.75	
	Payroll benefit cost			2,524.37	
	Workers Compensation cost		-	6,507.19	
					171,102.11
Equipment	Truck rental	116.00	days	5,970.97	
	Excavator	397.72	hours	56,935.03	
	Generator	9.00	days	1,000.00	
	ATV rental	101.00	days	1,010.00	
	Computer rental	80.00	days	400.00	
	Fuel tank rentals			1,297.33	
	Core Storage-rental			2,198.74	
	Radio rentals		-	2,628.70	71,440.77
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Camp Costs	Camp rood & supplies	-		14,100.19	
	Camp equipment			10,903.02	
	Fuel & Maintenance costs			17,294.20	
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	Koad building/show lentoval		-	1,028,01	44,853.35
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Dunnig	Diationa Drining	15,159,00			321,185.67
Assav	Analysis of samples	1.723.00	samples	32,846,32	
		_,			32,846.32
Other disbursements					
Travel	Airfares to property			4,473.45	
	Travel expenses			14,649.85	
	Helicopter		-	3,068.06	
					22,191.36
Other Items	Drafting & map reproduction			425.88	
	Field Supplies			3,796.30	
	Core boxes			9,041.72	
	Telecommunications			1,817.96	
	Freight		-	4,778.13	19,859.99
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Trenching -Logs Assay Certificates A)

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Trench #: 99 rr-1 Orientation/length: E-W N. Zone, b/w Mo-98-3 and DH-25																													
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0	5	* * + +				120 85	70 35			BFP	к	mdm- dk gy						2- 2.5	по	no					Some fresh plag xals - subhedral < 1mm. Dark sugary	99-TR1- 053	.45	.28	1
5	10	* * + +		135	85	50 120	10 85	150	90	BFP	к	mdm gy						1			2				Feox, malac on fract's	99-TR1- 054	.13	.05	
10	15	+ +	<u></u> , .	165	90	70 150	40 85			BFP	к	mdm gy		fresh	2			<1			2		20		Qz vn's w/ Cp	99-TR1- 055	.26	.10	
15	20	++				10 25	90 55			BFP		lt gry		highly w'd 16 - 20m			mild			_					F/s partially alt'd to kaol. No mafics vis. 2% f.d. cp in unw'r rk. Poor sample.	99-TR1- 056	.18	.04	
20	25	++		150	90	130 125	85 85			BFP	к	mdm gy	Ī	fresh			<u> </u>								Rock becomes competant and fractured.	99-TR1- 057	.35	.16	•
25	30	++				70	90			BFP	Horn.	dk gy		fresh				1-2		tr.					F.d. cp, minor mal, 2 specks of bn.; fresh plag and 1-2 mm of	99-TR1- 058	.53	.19	0.3,
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Location: N. Zone, b/w Mo-98-3 and DH-25

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Date: October 1999, Logged By: G. Weary and/or E. O'Brien. Page 2 of 2

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	ntatio	n/len	igth: E-V	<u>v</u>								<u>N.</u>	Zone	e, b/w l	<u> 10-9</u>	<u>8-3 a</u>	nd D	H-2	5	•		•			Ascave			٦
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	TR-7-3 TR-7-3 TR-7-3 TR-7-3 TR-7-3 TR-7-3	19 20 21 22 23	r]	1.3 5.1 5.4 6.2	3 709 1 1021 4 1050 7 2211 4 501	5 8 . 15) 19 . 24 . 9	54 164 410 317 85	.5 2.3 1.4 7.3 .5	41 37 48 41 65	32 28 18 23 20	117 2 329 2 435 4 463 4 215 3	2.88 2.56 1 4.12 1 4.66 1 3.76	43 60 63 82 41	1 <2 1 <2 2 <2 2 <2 1 <2	1 1 3 4 1	17 16 42 45 33	.2 1.2 2.2 1.4	2.0 1.8 <.5 <,5		32 34 110 85 55 56	.20 .20 1.04 .97 .42	.039 .039 .139 .138 .055	6 10 10 9 7	16 15 87 51 26	.21 .20 1.93 1.22 .52	157 134 248 149 113	.008 .003 .082 .051 .013	1 1 3 1 3 2 4 1 2 1	15 .0 05 .0 .03 .0 .29 .0 .19 .0	150 134 171 150 166	.28 .31 .48 .40 .30	1 < <1 < 1 < <1 < 1 <	1 5.7 1 3.9 1 7.7 1 6.7 1 6.1	1 <1 <1 <1 1	.87 .41 .66 1.09 1.28	2 < 2 9 5 < 3 <	.01 .03 .02 .03 .01	3.5 12.0 13.0 12.5 7.0	
	TR-7-3 TR-6-3 TR-6-3 TR-6-3 TR-6-3 TR-6-3	24 25 26 37 38		28. 28. 12. 8. 20.	4 1310 5 1459 1 1524 6 997 4 1060		114 267 135 91 284	2.8 4.0 3.5 .9 1.8	60 62 46 43 70	89 14 19 27 88	417 9 542 4 328 9 256 4 575 4	5.30 2 4.79 5.65 4.99 4.98 7	84 84 58 73 73	1 <2 1 <2 2 <2 4 <2 3 <2	1 4 4 3 4	22 28 27 30 50	.5 1.0 .3 .2 .9	<.5 <.5 <.5 .6 <.5	<.5 1.1 1.1 .6	5 78 3 87 1 109 5 113 5 121	.28 .61 .32 .41 1.12	.095 .116 .129 .119 .134	7 22 18 20 11	38 67 80 79 84	.51 1.37 1.59 1.73 1.98	190 310 159 160 206	.050 .070 .172 .206 .089	51 61 11 31 52	.88 .0 .78 .0 .98 .0 .96 .0 .02 .0)56)56)75)76 1)69	.40 .39 .89 .21 .42	$\frac{1}{2} < < < < < < < < < < < < < < < < < < <$	<u>1 7.9</u> 1 6.6 1 8.3 1 9.3 1 9.0	1 <1 <1 <1 <1	.95 .58 1.08 1.24 .59	6 9 10 9	.01 .05 .05 .02 .03	5.0 8.0 11.0 6.0 12.0	
	TR-6-3 TR-6-3 TR-6-3 TR-6-3 STANDA	39 4 40 41 42 RD C3	D•119	7 4.1 5. 4. 27.	9 690 0 150 6 163 4 60 7 6	5 6 4 13 1 7 4 4 7 34	5 83 3 150 7 160 4 58 4 167	.7 3.1 3.0 .4 5.5	37 42 47 42 38	18 21 22 13 13	217 288 368 215 819	3.40 3.85 4.58 1 4.21 3.44	59 81 142 5 59 2	1 <2 2 <2 2 <2 3 <2 4 2	2 3 4 22	23 20 32 35 30	.3 .7 .9 <.2 23.5	.5 .6 .5 .5 .5 .7.4	<.! <.! <.! 23.!	5 65 5 84 5 101 5 130 9 83	.37 .37 .60 .48	.060 .104 .143 .143 .097	9 7 16 10 21	51 55 68 92 182	.78 1.25 1.42 2.11 .63	201 211 263 300 163	.054 .117 .186 .281 .092	<1 1 <1 1 1 1 1 2 23 1	.40 .0 .42 .0 .62 .0 .06 .0 .87 .0	059 054 081 105 1 041	.52 .65 .93 .49 .17	1 < <1 < 1 < <1 < 15	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	<pre><1 2 1 2 1 2 2 2 1 2 2 1 1 2 1 1 2 1</pre>	.78 .76 .71 .87 .03	4 < 6 7 11 < 7 3	.01 .02 .07 .01 .51	6.0 7.0 7.5 4.0	
	STANDA	RD G-	2	1.	5	5 3	3 45	i <.1	7	4	557	2.05	<1	3 <2	5	78	<.2	2 <,5	<.!	5 42	. 68	.105	5 10	82	.63	247	.139	31	.01 .	106	.53	2 <	1 2.7	/ <1	<.01	4	-		
				GROUP UPPER ASSAY	1DX LIM RECO	- 0 (TS (MME)	.50 - AG NDED	GM S , AU FOR	AMPL , HG ROC	E LE I, W X AI	EACHE = 10 ND CO	D WI DO PPI DRE SA	TH 3 M; MO AMPLE	ML 2- , CO, S 1F	2-2 , CD CU	HCL , SB PB Z	,-HNO , BI (N AS	15-H2(; TH ; > 1)) AT , U (X, AI	95 0 2 8 = 3 > 3	DEG. = 2,0 30 PP	C FOI DO PI M & .	R ONI PM; AU >	: HO CU, H 100	UR, D PB, Z O PPG	N, I N, I	NI, M	U 10 N, A9	ML, 8, V,	ANAL' LA,	TSED CR	BY 0 = 10,	PTIMA 000 P	ICP- PM. Rec	-25. Ins				
	DAT	CE F	ECE	- SAM	IPLE 1	OCT	: RO 2 20	ICK R		OUC TE	REI	AU""	ыт р MA	IKE /	133A D:/	т тк (),		111	. ചെ നാ	nr . E .	. <u>38</u> SIG	NED	<u>s de</u> BY		: .	<u> </u>		<u>кеги</u> D. ТС	<u>ia an</u> IYE, I	C.LE(DNG,	<u>J.</u> W	ANG;	CERTI	FIED	B.C.	AS5A	YERS	
		*			-										Ĺ	10	\sim	(7)	~~		-								-		-		-				I		
L	ALL	resul	ts ar	е соп	s i de	red	the	conf	ider	tie	l pro	opert	y of	the d	lie	nt.	Acme	e ass	lmes	the	liab	ilit	ies	for	actua	al c	ost o	f the	e ana	lysi	s on	ly.			<u> </u>	Data	<u></u> F	A	

Qrie	entatio	on/len	igth: E	-W					-	<u>N. 2</u>	Zone, b/	w DH-14	and	DH-3,	1 <u>st</u> s	amp	le_15	mW	of a	icces	s roi	ad		· · · · ·	Archur		
		Visu	ai		FR/	CT'S				Descr	Iptive																
From	То m	R	оск	strike	đip	strike	dip	VEIT	15	Lithol	Alt'n	Color	Hard	Weath	Mag	Veinlet %	a	Cp %	Bn %	Məf	Py %	Ca/ Cb %	Bio %	Description	Sample No.	Cu %	Au g
15	20	+ +		280	90	290 220	45 90			BFP	k, sil prop- phy	dik gy gy-gr to it gy	8 2-4	part. weath		10	wk wk- mod	3 .5	.1	tr.	1 2-3	1	2-3 0	Overlying till 3m depth. Cp on fract's FeOx, mass Py. K BFP txt is obl't w/ 2 bio. Prop BFP: clay alt'd w/ inc. py and less cp. Phy BFP at 18.5 m with abun. Ser.	99-TR2- 01	.49	.34
20	23	+ +				230	90			8FP	phy- prop	bi'd to	4				wk	1			2			q stwk vn's w/ minor su's. Cp diss and lg blebs	99.TR2-		
23	25	+ +		230	90	 			i i i		k, sil	mdm gy	7				wk	2				1-2		K ait'd 23- 25 m. Abund. 2 bio.	02	.3	.2
25	29	+ v + v + v + v + v + v		340	45	240	80	210	90	AND DYK		dk gy						0				1-2		30 cm thick And dyke with phyrics (< fmm) & flow banding // to contact. Min. BFP (as above) surrounds DYK.			
29	30	++++				235	90	qz	ср	BFP	ргор	gr	2-4					0.5			1			Clay aftered, mush with locally bl'd and competant.	99-TR2- 03	.44	.33
30 30	34 35	++		230 230	80 90	280 260	80 90			BFP	prop	it gy dk mi	8					1						South side of tr. is prop alt'd	99-TR2-	.33	19
35	40	- ++ ++		320	90	300	90			BFP	K, hom	dk gy	ß					1 1.4	.1	.5	1				99-TR2-	32	23
40	45			240	85	310	80 90]	BFP	K, horn	dk gy	9	no				1	.1			<1	<5	Secondary bio as well.	99-TR2-	.28	.19
45	50	- + +		250	90	290	80			BFP	K, horn	dik gy	8				wk	1		v .			1-2	Less homfelsed than above. Much of the bit is obi't.			
		+++++++		310 210 235	40 90 45	220 280 360	90 90 90											2						Local carb- chi alt'n.			
	ļ	++		260	90	280	80																		99-TR2-	.33	.26
50	55	- + +		255	90	230	90			BFP	K, horn, cb	mdm - I gy	t					2	.1			5- 10 %	0-5	Lt gy BFP appears less min'd and is carb alt'd.Competant, fracts in rhombs (70 deg)		Ì	
		+ + + +		310 250	80 90	285	190 45											1.5	."						99-TR2-	.4	27
55	60			80 0	90 90	100 140	90 90		-	BFP	к	mdm- dk gy						2		mod	+			Much of the original bit is obl't and there is replace't Cb. Strong hornf. 58-59 m. Rock has a chalky tinge.			

Trench #: 99TR-2

Location: N. Zone, b/w DH-14 and DH-3, 1st sample 15m W of access road.

Page 1 of 4

Au g/i

.27

Average D.36% whole then the

Tre	nch i	#: 99	TR-2											Lo	catio	n:										F	age	2 of 4
Ori	entatio	on/ler IVisu	<u>ogth: E-∖</u> al	<u>N</u>						N. Z Descri	<u>lone, b/</u> iotive	w <u>DH-14</u>	and	<u>DH-3,</u>	18 <u>1</u> 8	sampl	<u>e 15</u>	m vv	OT B	ICCes	s ro	80				Assays		
		V 130			FRA	<u>\CT'S</u>																La.(·,-		
From	To m	R	оск	strike	dip	strike	dip	VEI	NS	Lithol	Alt'n	Calor	Hard	Weath	Mag	Veinlet %	a	Ср %	Bn %	Mal	Py %	Ca Cb %	Bio %	Desci	iption	Sample No.	Cu %	Au g/t
		+ +		90	90	20	85																		·	99-TR2- 09	.57	.41
60	65	++		90	90	170	90	85	40	BFP	K, sil	dk gy	9					1-2						Much of the origi occ. Cb veinlets. previous.	nal bit is obl't; Less fract than			
		+ + + + + +		0 130	45 45	150 80	45 90											2								99-TR2- 10	.7	.39
65	70	++		110	90	100	90			BFP	K, sit, horn	dk gy	8- 10	no				1-2			2			diss cp, inc cp or 20% f.g bio, repl Lathes) fracts. Upto acing homb.			
		+ + - +		30 30	90 85	90 80	90 75																	IXT ODIT IOCAILY. 2	w macuning.	99-TR2- 11	.41	.19
70	75	 		140	75	95	90			ZST		v dk gy	7					.5						abund 2 bio Euh, unalt'd 1-2	mm plag xals.			
		+ +		190	90	93 170	90			BFP	Hnf, sil							1.5			<1	1-2	2	Mainly BFP	A	99-TR2- 12	.32	.16
75	80	+ +		274	80	0	70	2		BFP	Hnf, K	dk - mdm gy	9					1. 1.5			1-2	2		Txt obi't locally.C matrix - givs chai Minor qtz hem vr	arb alt'n of ky appear. ıs. 2 bio.			
		+++++++++++++++++++++++++++++++++++++++		228 264 180	40 86 77	98 240 30	90 65 64) 5 1								. 										99-TR2-		10
80	85	++		90	90	234	90	,		BFP	Hinf, sil. K	dk gy	8	-				1.5			<1	2-:	3 3-4	Qtz sw at 84 m. Minor AND last 5	Txt obl'i, 2 bio. 50 cm	13	. .	.17
		++		320	90	320	90			(loc. AND)																		
		++		240	72	210	31																			99-TR2- 14	.41	.2
85	90			Flat	ledg	e				ZST	Sil, hnf	. med gy						<1			0.9	52		Competant. No sample is seven chips).	aning. Structures obs. Stans (not	99-TR2- 15	.27	.11
90	95	- + + + +		238	90	230	8	0 8		BFP	Sil, hf	med gy						11.	5					Txt obl't mainly.	2 bio abund. 95m	99-TR2-	54	24
95	100	- , + +		60	60	310	8	8		ZST	Sil	med gy						1- 1.2			<1	-+ 		Mixed BFP w/ 2 dull chalky gy w/ BFP. BEP bt chi't Ab	U% ZST. ZST is lessSu's than			.21
		 + +	-	68 64	80 80) 120) 64	7 8	0		BFP	Sil, hf	med gy						1.5			<	<1		v.f.d.	ana, z ory, op 15			

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expersion end and a second sec

<u>.</u>		Vist	ial						Descr	iptive								01.0					······································	Ässays		
From	To	F F	ROCK	strike	FR/	<u>ACT'S</u> strike	đip	VEINS	Lithol	Alt'n	Color	Hard	Weath	Mag	Veinlet	a	Cp	Bn	Mal	Py	Ca/ Cb	Bio	Description	Sample	Cu	Au
	m		1	296	80	46	50								*		70			70	%		· · · · · · · · · · · · · · · · · · ·	99-TR2-	~	┢
100	105	++		124	75	296	83		BEP	Sil. bf	med av						1- 1.5			<1	<1	2-3	BFP bit obl't. Upto 25% 2 bio, rare plag xals	17	.44	.10
		+ -		57	78	80	50		ZST	Sil	med av						<1			1- 1.2			ZST 104-105 m with BFP on the north wall. BFP is less siliceous than previous.	99-TR2-	.40	
105	110	++		34	90	290	74		BFP		dik gy						1.5				<1	2-3	BFP txt obl't. Upto 40% 2 bio, numerous anhedral plag xals. Cp is f.d. At 108 - 09 loins old N-S drilling			T
		+ -							ZST	Sil	med gy						0.5 - 1			1- 1.2	1-2		road. @ 108 - contact with ZST, loc bi'd. ZST is locally strongly m.fractured	99-TR2- 19	,35	.c
110	115			350	45	30	88		ZST	Sil	med gy						1+				1-2		ZST to 113 m - contact with BFP is no visibe but appears sharp. Moly on fcts.			
				160	58	80	82							·												
		+ +		290	88	45	60		BFP	к	dk - med gy						1- 1.5				5	<1	Inc. in cp. Abund 2 bio - very dk matrix.Thin cb mvnlets.	99-TR2-		
115	117.	5 + +		70	85	234	60		RED		dk -	+		+				$\left \right $			2.4	-1		20	.53	+-1
117.5	120	 + +		90	90	0	70		DFF	Prop -	Buff - white to		2-3										Ser-clay altered Less vis. su's.			
		+ +				240	90		BFP	phy	lt. gy						0.5			1			Heavy līm. stain.	99-TR2- 21	.29	
120	123.	- 5 ++		120	87	90	78		BFP	Prop - phy	Buff - white to It. gy		2-3				0.5			1	3		As above. Co is vit d. Siliceous of with gtv.			
123.5	125	++		190	80				8FP	K, Hfd, sil	dk gy				5+	w	1+			0.5			etes - 10%, Abund. 2 bio. 2-3% qtz veins	99-TR2- 22	.53	
125	126	++		305	70				BFP	K, Hfd, sil	dk gy				5		1				2		As above.			
126	130			70	83	353	60		zst	sil, hfd	med dk ? gy	9	1-2		\$W		.75- 1		tr.	1			Rock is rubbley and highly fractured 100's of m.fract. Upper 1 -1.5 m is more weath'd and fract'd than below.Su's are v.f.	99-TR2- 23	.48	
130	135		-	120	80	110	90				med dk	9			sw		.75						Sim. to above - rok is either rubbley and v. broken up or perfectly competant. Upper 1 m			
Tr																										
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Tr.		1: 9.	2	- A/	·		٠	• •	N 7	 Ione bh	м DH-14	Land	Lc DH-3	1 et e	i 1: Ismol	ie 15	mW	of	, ICCAS	5 FO2	× ad		e e e se e	Ĺ	ag.	À
	anano	Visu	ai 21	**	ERA	CTS			Descri	ptive		- un ru	Diriyi	101.0		0 10								Assays		
rom m	To m	R	OCK	strike	dip	strike	dip	VEINS	Lithol	Alt'n	Color	Hard	Weath	Mag	Veinket %	СІ	Ср %	Вп %	Mal	Ру %	Ca∕ Cb ¥a	Bio *	Description	Sample No.	Cu %	Au g/t
				65 110	90 75	130 120	90 90																	99-TR2-		
				30	45	170	90																	24	.29	.09
135	140					140	80		ZST	sil, hfd?	med to II 197				5W		1			1	2		As above. Highly fract'r and rubbley. Cb sw veining.	99-TR2- 25	.29	.09
140	145			150	60	40	90		ZST	weakly sil	dk gy				รพ		1- 1.5						Possibly f.gr.bio.Moly on frct surf.	99-1HZ- 26	.37	.12
145	150	- + -		80	90	70	90		ZST BFP		lt gy						0.5			1			Poorty exposed - as above10 148 m - then covered. F/s att'd to clay. NOR DH-02 @ 148m.	99-TR2-	34	44
150	155	+ + + -		115	80	70	90		DYK BFP minor ZST	ĸ	dik gy						2					4	Cp is f.d.; blebs of py. Txt is well preserved with eu to sub Boulders of sil. ZST but not obs. in o/c.	27 99-TR2- 28	.34	.13
155	157.5	++		40	80	50	90		BFP	K, sil, hfd	dk gy						2	ļ		2			Fresh plag xals. V. weath'd and ox. Last 25 cm.	99-TR2-		
157.5	160		i i						ZST		lt gy			<u> </u>		L	0.5?	1		1	_		Hihly fract'd, sw. Lower grade.	29	.34	.09
160	165			240	75	120	85		ZST	sii	it gy					ļ	.5 .75			1		-	Weathered with abund, FeOx. Clay ait'n gives speckled bd. Fract'd and blocky.			
				90	90	30	80																	99-TR2-		
			ļ			130	90		1							ļ	-	+-	<u> </u>			Ļ	verv resistancrock torming	130 199-1RZ-	.26	1.07
165	170			105	80	130	90		ZST	si	tt gy		<u> </u>				.3		b .	1.5			ledges.	31	.14	.04
170	180	[100	90	130	90		ZST	ક્રો	it med gy						.2 - .5		low				F.d. py and vniets. Mai on fcts. Only about 20% o/c.Loc clay - kaol specks.	99-TR2- 32	.13	.04
180	190			5	70	80	50		zst	इनै	lt med gy						.2 - .5		kow				As above. Deep o/b.	99-TR2- 33	.19	.05
190	200]		110	70	35	90		ZST	sil	llt med gy						.2 - .5		law				As above	99-TR2-		
	ŀ			230	85	270	75							-			1				1			34	.07	.30

	FA		Aurora Analyti 212 B British PHON	LS Laboratory cal Chernis rocksban Columbi NE: 604-9	Ch y Services sts * Geoc k Ave., ia, Canad 84-0221	etta hemists * North Ja FAX: Bt	Registered 1 Vancou V7J 2 04-984-0	1 Assayer: Ver 20 1 218	\$		To Proje Comu	PACIFIC 10th FLC 609 W, 1 VANCO V6B 4W ct : ments:	BOOKE DOR, PR HASTING UVER, B 4 ATTN:G	er IINCESS 35 ST. IC ORDON 1	BUILDIN WEARY	## IG				Page Nu Total Pag Certificat Invoice N P.O. Nur Account	mber : gos : e Dale: lo nber :	2-A 21-DEC-99 19933788 MGA
1												CE	RTIF	ICATE	OF /	ANALY	/SIS		49933	788	**	
	SAMPLE	PRB	IP DE	Au ppb Fataa	Ag ppm	Al 3	As ppm	B mqq	Ba ppm	Be ppm	Bi ppm	Ca 1	Cđ ppa	Co ppm	CI PPM	Cu PPn	Fe 1	Ga ppm	Hg ppa	ĸ	La ppm	Mg 1
	99RD2-097 99RD3-098 99RD3-099 99RD3-000 99RD3-001	205 205 205 205 205 205	294 294 294 294 294 294	360 95 20 35 140	2.2 1.6 0.4 1.0 4.2	0.63 0.94 2.11 1.41 1.21	12 68 14 20 50	<pre> < 10 < 10 < 10 < 10 10 < 10 < 10 </pre>	500 90 180 100 150	<pre>< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5</pre>	2 4 (2 (2 4	0.68 0.44 0.17 0.10 0.25	0.5 2.0 < 0.5 < 0.5 0.5	11 29 25 22 17	73 40 53 44 76	4760 5080 1220 1260 4600	4.26 3.65 5.31 4.85 4.06	<pre></pre>	<pre></pre>	0.39 0.23 0.39 0.35 0.29	<pre> (10 (10 (10 (10 (10 (10</pre>	0.69 0.24 1.00 0.57 0.53
	99781-053 99781-054 99781-055 99781-056 99781-056 99781-057			NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	Notled Notled Notled Notled Notled	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	Nothed Nothed Nothed Nothed Nothed	NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotNed NotNed NotRed NotRed NotRed
9978-1,	99TR1-058 99TR1-059 99TR1-060 99TR1-061 99TR1-062		 	NotRed NotRed NotRed NotRed NotRed	Nutked NotRed NotRed NotRed NotRed	Notled Notled Notled Notled Notled	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	Notled Notled Notled Notled Notled	Notled Notled Notled Notled Notled	Notled Notled Notled Notled Notled	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	NotRed NotRed NotRed NotRed NotRed	Notled Notled Notled Notled Notled
	99TR1-063 99TR1-064 99TR1-065 99TR1-066 99TR1-066	 205 205 205	 294 294 294	NotRed NotRed 85 85 45	NotRed NotRed 1.0 2.2 1.0	NotRed NotRed 0.89 0.76 0.98	NotRed NotRed 64 100 66	NotRed NotRed < 10 < 10 < 10	KotRcd NotRcd 60 60 80	NotRed NotRed < 0.5 < 0.5 < 0.5	NotRed NotRed 2 2 2 2 2	NotRcd NotRcd 0.92 0.09 0.1)	NotRed NotRed 0.5 0.5 (0.5	NotRed NotRed 20 21	NotRed NotRed 60 90 59	NotRed NotRed 3480 4100 1885	NotRed NotRed 3.53 .2.48 3.29	NotRed NotRed (10 (10 (10	Nothed Nothed (1 (1 (1	NotRed NotRed 0.02 0.21 0.31	NotRed NotRed 10 < 10	NotRed NotRed 0.24 0.11 0.26
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C	Aurora Laboratory Services Ltd. Analytical Chemists * Geochemists * Registered Assayers	VA
2	212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218	Project : Commen

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ACIFIC BOOKER IN FLOOR, PRINCESS BUILDING 19 W, HASTINGS ST. ANCOUVER, BC B 4W4

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Page Number :3-A Total Pages :3 Certificate Date: 21-DEC-99 Invoice No. : 19933788 P.O. Number : Account : MGA

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Project : Comments: ATTN:GORDON WEARY

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CERTIFICATION:

To: PACIFIC BOOKER 10th FLOOR, PRINCESS BUILDING 609 W. HASTINGS ST. VANCOUVER, BC V6B 4W4

Page Number : 3-B Total Pages :3 Certificate Date: 21-DEC-99 : 19933768 Invoice No. P.O. Number : MGA Account

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 201 CHIEMEX PHONE: 604-984-0221 FAX: 604-984-0218

ALS Chemex

Analytical Chemists * Geochemists * Registered Assayers

Aurora Laboratory Services Ltd.

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Project :

Comments: ATTN: GORDON WEARY

A9933788 **CERTIFICATE OF ANALYSIS** W Zn Ti т1 U ٧ Sb se Sr Pb S Na Ni P Mo PEBP Mn ppm 8 ppa ppm ppm ppa 3 mqq ppm ppa ppm CODE ppm 8 ppn ppm mqq SAMPLE 132 < 10 102 27 0.19 < 10 < 10 < 2 9 0.46 57 78 940 6 205 294 230 0.06 99T12-020 100 < 10 < 10 53 < 10 41 0.05 (2) 5 33 410 10 0.42 53 0.01 205 294 100 99TR2-021 170 6 L < 10 < 10 < 10 42 0.10 (2) В 53 610 16 0.65 210 67 0.04 205 294 99TR2-022 < 10 176 66 < 10 < 10 34 0.08 71 420 16 0.64 < 2 7 195 113 0.03 205 294 99T12-023 < 10 62 < 10 54 23 C 0.01 < 10 100 8 0.61 < 2 5 0.03 106 270 66 99T12-024 205 294 < 10 50 59 28 < 0.01 < 10 < 10 7 97 190 б 0.46 < 2 205 294 225 45 0.03 99Th2-025 130 59 < 10 21 < 0.01 (10 < 10 5 16 0.37 (2 92 180 345 66 0.02 205 294 99Th2-026 60 95 < 10 0.08 < 10 < 10 11 66 2 0.42 2 0.07 99 510 335 42 205 294 99TR2-027 108 < 10 102 9,22 < 10 < 10 < 2 10 35 70 1000 6 0.68 57 0.09 205 294 140 99TR2-028 71 < 10 66 < 10 D.08 < 10 7 31 610 10 1.28 < 2 0.03 90 205 294 135 38 99TR2-029 72 < 10 < 10 22 < 10 0.53 < 2 3 23 < 0.01 10 43 < 0.01 72 50 205 294 135 99TR2-030 < 10 40 < 10 22 43 < 0.01 < 10 2 3 62 40 10 0.42 205 294 170 18 < 0.01 99TE2-031 < 10 < 10 -52 < 10 31 24 < 0.01 4 4 10 0.50 290 16 0.01 57 110 205 294 99T12-032 56 < 10 < 10 31 < 10 30 < 0.01 (2 0.65 3 230 10 0.01 101 160 8 205 294 99TR2-033 31 < 10 56 < L0 < 10 17 (0.0l 0.43 2 0.01 92 160 8 240 20 205 294 99TR2-034 NotRed - -99TR3-068 - -82 < 10 0.16 < 10 < 10 60 0.31 < 2 6 62 930 6 28 0.06 205 294 280 4 99TR3-069 58 < 10 110 (10 34 0.11 < 10 < 2 3 1020 < 2 0.12 25 205 294 190 < 1 0.06 99T13-070 < 10 62 0.16 < 10 < 10 92 3 34 0.19 < 2 28 940 4 205 294 185 2 0.07 99TR3-071 80 < 10 < 10 < 10 92 42 0.19 < 2 5 < 2 0.23 2 0.07 30 1040 205 294 265 99Th3-072 90 < 10 238 < 10 < 10 54 0.15 (2 1 43 1130 6 0.36 0.07 205 294 390 4 99TB3-073 < 10 432 < 10 68 < 10 (2) 8 53 0.10 0.29 0.05 46 1190 6 205 294 540 4 99TH3-074 < 10 272 < 10 91 < 10 0.41 < 2 10 47 0.03 61 710 8 28 465 0.04 99TR3-075 205 294 136 97 < 10 < 10 < 10 < 2 12 26 0.12 10 0.52 63 110 20 0.06 99TR3-076 205 294 235 116 < 10 101 <10 9 19 0.13 < 10 < 2 290 8 0.40 72 205 294 215 13 0.05 99TR3-077 164 < 10 < 10 64 < 10 0.03 6 15 10 0.42 < 2 0.04 63 260 205 294 235 21 99TL3-078 53 < 10 146 < 10 < 10 14 0.01 < 2 5 180 18 0.57 • 30 0.04 65 205 294 255 99TR3-079 -136 77 < 10 < 10 < 10 13 0.01 73 240 A 0.75 < 2 7 295 4.8 0.04 205 294 99TB3-080 < 10 296 78 37 0,06 < 10 < 10 < 2 31 910 16 0.63 72 370 31 0.05 99TR3-081 205 294 134 < 10 < 10 94 48 0.12 < 10 810 14 0.76 2 11 73 68 0.07 205 294 160 99TR3-082 114 < 10 50 0.13 < 10 < 10 70 б 0.66 (2 59 770 14 150 319 0.10 205 294 99T13-083 35 < 10 98 21 < 0.01 < 10 < 10 0.62 < 2 5 56 160 14 185 52 0.01 205 294 99TR3-084 < 10 6 B 13 < 0.01 < 10 < 10 47 130 10 0.95 < 2 6 70 56 0.03 205 294 220 99113-085 < 10 44 < 10 < 10 56 16 (0.01 120 0.64 2 5 0.03 93 4 205 294 255 47 99TR3-086 < 10 166 97 < 10 < 10 < 2 5 36 0.16 1000 0.34 0.06 40 . 205 294 99TB3-087 415 3

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Tre	nch ⁱ i	#: 991'R-3	3		Location: N. Zone, near DH-17 to DH-24																Page	1 or Ż					
Orie	entatio	n/length:	E-V	/									<u>N. Z</u>	one, n	ear D	<u>H-17</u>	to DI	1-24							Årenve		
		Visual			FR	ACT	s			Descri	puve																
From m	To m	ROCK		strike	dip	strike	dip	VEI	٧S	Lithol	Ait'n	Color	Hard	Weath	Mag	Veinlet %	а	Ср %	8n %	Mal	Py %	¢ Ca∕ Sa∕	Bio %	Description	Sample No.	Cu %	Au g/t
0	4.5	++		20 30	85 80	170 70	90 80		:	BFP	к	dk gry	8-9	1				2	tr	000	<.5	3	4	K att'd to 4.5 m then phyl att'd (bl'd white to 5.5 m). Cp 2%. Not v, frac'd.			
4.5	5	++		20	85	85	10			BFP	phyl	pi,q	4	2				0.5							99-TR3- 68	.52	.59
5	5.5	+ +		10	85	50	90			BFP	phyl K-	prq	4	2				0.5			0.5			This sample was obs.to be well min'd but assay is not high. vn'ing. Partial plag to kaol.	99-TR3-	24	
5.5	10	++		110	90	15	90		_ /	BFP	prop	dkgy	8		Wk		wk	Z]		<u> </u>	2-3	Abund. 2 bio.	69		.4
10	15	+ +		125	90	70	45			BFP	K - phyl	dk gy to bl'd	7-8		wk - mod		no	2		wk		2-3	3	A few bl'd sec'ns			
		+ +		0	90	110	90			1		1				1						ļ					
		+ +		105	90	95	90																		99-1R3- 70	.34	.31
15	20	++		70	85	175	85			BFP	ĸ	dk gy	8		N			2						Fresher plag than above.	99-TR3-		
		++		165	83	50	90																		71	.38	38
20	28	+ +		100	85	85	80			BEP	K - phyl	dk gy	9				wk- mod	2				4-5	5	Well min'd f.d. cp. Qtz vns. Card vns and att'n, Fresh plag xais 30%, 2 bio 15-20%.			
ŀ	ł	++		20	80	125	690	10	85										Ì							ł	
		+ +		120	80	80	85	Fe ct	ay alt d B	FP mush				1		·											
		+ +		90	80	150	90							1		ł								Hole 98-1 at 47,8 m. Road 54- 65 m.	99-TR3- 72	.29	.24
73.5	80	++		160	45	16) 45			BFP	K - phy	mdm - I dk gy	9				wk	1-2						Hbl lathes al'd to f.g. 2 blo. Cp f.d. and smears. Minor carb-kaol at'n.			
		+ +		70	90	20	90																				
		+ +		30	90	15	45	;																			
]	++		20	90	12	90	,				1													73	.35	.18
80	85	 + + 		70	85	5 15	90	2		BFP	K - phy	I mdm gy	, 7- 1	8			wk - mod	11-					2	Bleached from 85 to 85 m. Inc. i q vns. Slighty lower grade	n 99-TR3-		

11-

1.5

1

wk

5

<1

tan to

tan to

light gy

light gy

BFP phyl

BFP

K

phyl

6

7

6

30 60

70 85

20 30 160 60

|+ +

[+ +

86 ++

88 + --

90

85

86

88

х.

74

75

Competent, well fractured rok to

side of trench has minor ZST w/ 99-TR3-

Covered and slumped. South

Ser- kaol-cd and loc chi alt'd.

this point.

5% q sw vns.

.34 .16

.3

.12

Tre Orie	nch <i>i</i> entatio	F: 99 m/len	TR-3 ath: E-	-W									<u>N. Z</u>	<u>ione, n</u>	Loca ear D	lion: 1 <u>H-17</u>	to DI	H-2 <u>4</u>					-	
		Visu	al		FR	ACT	'S		_	Descri	ptive													
From m	To m	R	оск	strike	dip	strike	đip	VEI	NS	Lithol	Alt'n	Color	Hard	Weath	Meg	Veinlet %	CI	Cp %	Bn %	Mal	Py %	C∎/ Cb %	Bio *	Description
95	100				00	90	90			zst	sil	lt - dk gy	8			5		2						90- 95 słumped. Cp in fracts and occ. in masses. Inc. in q sw vning.
100	105			175	45	20	50 60	120	60	ZST	sil							2-3		wik	<1			Fe and mail on fractures
105	110			85	80	165	50			ZST	sil					<u> </u>		1-2		mod	<1			Inc. of mai on frcts.
						ļ																		
110	115	+		65	85	5 40	45			ZST	sit							1			1			As above. 1 m sec'n on south side w/ wi poph txt.
]			40	4	5 120	o 70		ļ	BFP														
115	120	 		20	4:	5 10	8 80			ZST	sit							1			1			Inc. of chi, py and minor Cp veinlets.

poor exposure

poor exposure

100 85

145 80

50

85 50

130 45 110 90

180 45 135 85

85

110 90

85 90

BFP

BFP K

BFP

BFP

ZST?

ZST?

Ιĸ.

med gy

dk gy

it -mdm

It bluish

bluish It - 8

med gy

gy

K - phyl dk -lt gy

K phyligy

mod

131.5

to

125

135 ++

145

150

157

- -

140 + +

++

++

+ +

120

130

135

140

145

150

•

1 wk

1.5

1-

1.5

1-

1.5

1+

Au g/t

e tras e tra

Cu

%

.48 .2

.35 .18

.39 1.12

.41 .15

.30 80.

.49

.49 .15

.43 .13

.39

.24 .08

23

.08

.18

.10

r ۰.

Assays

Sample

No.

99-TR3-76

99-TR3-77

99-TR3-78

99-TR3-79

99-TR3-80

99-TR3-

99-TR3-

99-TR3-

99-TR3-

99-TR3-

99-1K3-86

85

81

82

83

84

F/s alt'd to kaol loc., f.g. 2 bio.

125 - 130 o/b

Su's on fract.

Very f.gr.

Abund, 2 bio. F.gr.

mainly f.d. No sericite.

Sw veing and fracturing.

Txt partially obi't w/ mild chl o/p

Mainly hard and competent with

2 bio. Locally kaolinized. Cp is

Txt obi't loc but some relict f/s.

Some sw veining and fracturing.

2

.7

1+

<1

wk

iow

το:	PACIFIC BOOKER 10th FLOOR, PRINCESS BUILDING 609 W. HASTINGS ST. VANCOUVER, BC	##
	V6B 4W4	

Page Number : 3-A Total Pages : 3 Certificate Date: 21-DEC-99 Invoice No. : 19933788 P.O. Number Account :MGA

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

ALS Chemex

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Analytical Chemists * Geochemists - Registered Assayers

Project : Comments: ATTN:GORDON WEARY

											CE	RTIF	CATE	OF A	NALY	S 5	A	99337	788		
	SAMPLE	PBBP CODE	Au ppb FA+AA	Ag ppm	Al 3	As ppn	B	Ba PPm	Be ppm	Bi ppm	Ca 1	Cđ p pa	Co ppm	Cr ppa	Cu ppa	Fe 1	Ga ppm	Ag Ppm	ĸ	La PPm	Mg 1
TRENCH 2	99TR2-020 99TR2-021 99TR2-022 99TR2-023 99TR2-023 99TR2-024	205 294 205 294 205 294 205 294 205 294 205 294	135 175 150 145 85	1.0).6 1.4 1.6 0.6	1.55 0.91 1.26 1.19 0.75	8 54 34 8	<pre>< 10 < 10</pre>	270 140 200 290 310	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	6 2 6 4 2	0.36 0.23 0.60 0.19 0.21	0.5 < 0.5 0.5 0.5 < 0.5 < 0.5	16 11 18 15 16	107 64 84 85 67	5290 2910 5320 4820 2930),06 2,43 3,08 2,68 2,94	<pre>(10 (10 (10 (10 (10 (10 (10</pre>	<pre>< 1 < 1</pre>	0.91 0.21 0.49 0.52 0.35	10 < 10 10 10 10	1.30 0.35 0.69 0.62 0.34
197R 2	99TH2-025 99TH2-026 99TH2-027 99TH2-028 99TH2-028 95TH2-029	205 29 205 29 205 29 205 29 205 29 205 29	90 120 105 125 105	0.6 1.0 0.6 1.4 1.0	0.85 0.81 1.34 2.23 1.42	10 28 6 32	<pre>< 10 < 10</pre>	500 480 260 260 140	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 2 4 2 4 2	0.16 0.14 0.71 0.42 0.39	<pre>(0.5 0.5 (0.5 0.5 (0.5 (0.5</pre>	13 12 17 23 27	69 109 190 117 100	2930 3740 3380 4400 3350	2.51 2.69 3.07 3.63 4.19	<pre>< 10 < 10</pre>	<pre> < 1 /pre>	0.33 0.29 0.52 1.28 0.59	10 10 (10 10 10	0.25 0.21 0.86 1.70 0.73
	99TR2-030 99TR2-031 99TR2-032 99TR2-033 99TR2-033 99TR2-034	205 29 205 29 205 29 205 29 205 29 205 29	i 70 40 40 40 50 4 300	0.8 0.6 0.6 0.8 0.2	0.56 0.68 0.99 0.79 0.65	62 60 36 14 66	<pre>< 10 < 10</pre>	150 200 220 120 230	<pre>< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5</pre>	(2 (2 (2 (2 (2 (2	0.12 0.07 0.03 0.54 0.09	<pre> < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5</pre>	13 12 19 17 18	140 132 105 121 90	2580 1400 1270 1925 726	1.65 1.61 2.32 2.36 2.62	<pre>< 10 < 10</pre>	< 1	0.11 0.14 0.25 0.29 0.25	<pre>< 10 < 10</pre>	0.08 0.08 0.17 0.48 0.19
	99TR3-066 99TR3-069 99TR3-070 99TR3-071 99TR3-072	205 29 205 29 205 29 205 29 205 29	NotRcd 335 4310 4380 4240	NotRcd 1.0 0.8 1.2 1.0	NotRed 1 0.07 0.90 1.16 1.23	fothed 6 (2 6 (2	NotRed < 10 < 10 < 10 < 10 < 10	Notucd 650 160 180 400	Notled (0.5 (0.5 (0.5 (0.5 (0.5	NotRcd 4 2 2 2	NotRed 0.88 0.54 0.57 0.70	Notled (0.5 (0.5 (0.5 (0.5	Nothed 11 9 11 12	Notacd) 92 102 96 99	NotRed 1 4000 3350 3840 2880	NotRed 1 3.40 3.93 3.31 3.66	fotRed 1 < 10 < 10 < 10 < 10	iotRed 1 { 1 { 1 (1 (1	NotRed 0.56 0.27 0.45 0.66	NotRed (10 (10 (10 (10	NotRed 1.03 0.94 1.09 1.17
TRENCH	99TR3-073 99TR3-074 99TR3-075 99TR3-076 99TR3-077	205 29 205 29 205 29 205 29 205 29 205 29	4 175 4 160 4 115 4 195 4 195 4 175	1.6 1.8 1.2 1.4 1.8	1.26 1.35 0.96 0.89 1.33	6 18 10 2 6	<pre>< 10 < 10 < 10 < 10 < 10 < 10 < 10</pre>	490 530 350 200 280	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	2 2 6 (2 2	0.99 1.13 1.03 0.61 0.37	1.0 2.0 1.0 0.5 0.5	12 11 11 9 11	106 107 124 196 399	3450 3420 3000 4760 3520	3.39 3.61 3.45 2.17 2.67	<pre>< 10 < 10</pre>	1 1 < 1 < 1	0.58 0.42 0.23 0.52 0.58	10 10 10 10 10	1.23 0.94 0.68 0.91 1.03
99783	99TR3-076 99TR3-079 99TR3-080 99TR3-081 99TR3-081 99TR3-082	205 29 205 29 205 29 205 29 205 29	4 120 4 145 4 80 4 180 4 145	2.8 3.0 1.4 4.4 1.6	1.11 - 1.11 1.61 1.50 1.69	6 12 2 8 28	<pre>< 10 < 10</pre>	150 60 140 140 200	<pre>< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5</pre>	<pre></pre>	0.36 0.42 0.20 0.70 0.49	0.5 0.5 0.5 1.5 0.5	7 10 13 10 20	308 137 106 125 99	3900 4100 3010 4880 4910	2.34 2.21 3.08 3.30 3.98	<pre>< 10 < 10 < 10 < 10 < 10 < 10 < 10</pre>	<pre> < 1 </pre>	0.23 0.17 0.33 0.41 0.74	10 10 10 20 10	0.73 0.68 0.77 1.07 1.08
	99TR3-083 99TR3-084 99TR3-085 99TR3-085 99TR3-086 99TR3-087	205 29 205 29 205 29 205 29 205 29	4 130 4 100 4 75 4 75 4 355	1.4 1.6 0.8 0.8 2.2	1.51 0.62 1.13 1.26 1.09	10 30 6 4 22	<pre>< 10 < 10</pre>	240 170 160 200 490	<pre>(0.5 (0.5 (0.5 (0.5 (0.5</pre>	6 2 2 (2 2 2	0.48 0.34 0.08 0.13 0.60	(0.5 0.5 (0.5 (0.5 0.5	17 15 21 16 12	112 91 66 83 113	4270 3930 2420 2320 4400	3.00 2.21 3.18 3.22 4.08	<pre>< 10 < 10 < 10 < 10 < 10 < 10 < 10</pre>	2 (1 (1 (1 (1	0.69 0.16 0.30 0.31 0.59	<pre>< 10 < 10</pre>	1.00 0.20 0.42 0.54 1.06

CERTIFICATION:



ALS Chemex Aurora Laboratory Services Ltd. Analytical Chemists * Geochemists * Registered Assavers

212 Brocksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0216 To: PACIFIC BOOKER ## 10th FLOOR, PRINCESS BUILDING 609 W. HASTINGS ST. VANCOUVER, BC V6B 4W4 Page Number :3-B Total Pages :3 Certificate Date: 21-DEC-99 Invoice No. : [9933768 P.O. Number : Account :MGA

Project : Comments: ATTN:GORDON WEARY

CERTIFICATE OF ANALYSIS A9933788 W Zn U ٧ Ti T1 Sh Sc SI 6 Pb S МО Нa Ni PREP Mn ppa 1 ppm ppm ppm ppn ppm ppm 1 ppm ppm SAMPLE CODE ppm ppm ٩, ppm ppm 132 102 < 10 (2 27 0.19 < 10 < 10 4 940 6 0.45 230 57 0.06 78 b9T12-020 205 294 53 < 10 100 5 41 0.05 < 10 < 10 0.42 (2 410 10 99TL2-021 205 294 100 53 0.01 33 81 < 10 170 < 10 42 0.10 < 10 810 16 0.65 < 2 R 210 67 0.04 53 99TR2-022 205 294 66 < 10 176 0.06 < 10 < 10 < 2 7 34 420 16 0.64 205 294 L 95 113 0.03 71 99TR2-023 62 54 < 10 (10 23 < 0.01< 10 TR-2 100 8 0.61 < 2 5 0.03 106 205 294 270 66 99T12-024 59 < 10 50 7 28 < 0.01 < 10 < 10 97 190 6 0.46 < 2 0.03 205 294 225 45 99TR2-025 < 10 130 59 21 < 0.01 < 10 < 10 5 92 180 16 0.37 < 2 0.02 99TR2-026 205 294 345 66 60 0.08 < 10 < 10 96 < 10 2 11 66 99 530 2 0.42 205 294 335 42 0.07 99T12-027 108 < 10 102 0.22 <10 < 10 < 2 15 1000 0,68 10 140 57 0.09 70 ñ 205 294 99TR2-028 71 < 10 66 < 10 < 10 31 0.08 (2) 7 0.03 90 810 10 1.28 135 38 99T12-029 205 294 72 22 < 10 23 (0.01 < 10 < 10 10 0.53 < 2 3 72 50 205 294 135 43 < 0.01 99TE2-030 < 10 48 < 10 22 3 43 < 0.01 < 10 0.42 2 170 18 < 0.01 62 40 10 205 294 99TR2-011 < 10 52 < 10 31 24 < 0.01 < 10 4 10 0.50 4 205 294 290 16 0.01 57 110 99112-032 < 10 58 < 10 < 10 31 30 (0.01 0.85 (2 3 205 294 230 10 0.01 101 160 8 99TR2-033 < 10 < 10 31 < 10 56 0.43 2 4 17 (0.0L 160 R. 205 294 240 20 0.01 92 99TR2-034 NotRed Rotlicd 99TA 3-06B ___ 82 < 10 (10 60 < 10 62 0.15 930 0.31 (2 6 0.06 28 6 205 294 280 4 99TL3-069 56 < 10 0.11 < 10 < 10 110 < 2 0.12 × 2 3 34 25 1020 190 $\langle 1$ 0,06 205 294 99TE3-070 62 < 10 < 10 < 10 92 (2 3 34 D.16 940 0.19 0.07 28 4 185 2 99TR3-071 205 294 80 < 10 € 2 42 0.19 < 10 < 10 92 5 1040 < 2 0.23 265 2 0.07 30 99733-072 205 294 R 238 0.15 < 10 < 10 90 < 10 0.36 (2 7 54 6 205 294 390 4 0.07 43 1130 99T13-073 68 < 10 432 < 10 < 10 53 0.10 6 0.29 (2) L. 205 294 540 4 0.05 46 1190 99T13-074 272 < 10 91 < 10 < LO 0.41 (2 10 47 0.03 710 A 205 294 465 26 0.04 61 99TE3-075 < 10 136 < 10 97 0.12 < 10 83 110 10 0.52 < 2 12 26 235 20 0,06 205 294 99TR3-076 101 < 10 116 < 10 290 В 0.40 < 2 9 19 0,13 < 10 12 215 13 0.05 205 294 99TR3-077 164 15 0.03 < 10 < 10 64 < L0 260 10 0.42 < 2 6 21 0.04 63 99TR3-078 205 294 235 < 10 < 10 53 < 10 146 < 0.01 0.57 < 2 5 14 160 18 205 294 255 30 0.04 65 99TR3-079 < 10 77 < 10 138 0.01 < 10 13 240 6 0.75 < 2 . 7 295 4-8 0.04 73 99TR3-080 205 294 < 10 296 37 (10 78 0.05 < 10 31 31 0.05 72 910 16 0.63 < 2 370 99TB3-081 205 294 134 94 < 10 < 10 < 10 11 48 0.12 73 610 14 0.76 2 180 68 0.07 205 294 99T13-082 114 < 10 < 10 70 14 0.66 < 2 6 50 0.13 < 10 770 319 0.10 59 205 294 150 99TR3-083 < 10 96 21 < 0.01 (10 く 10 35 < 2 5 56 160 14 0.62 185 52 0.01 99T13-084 205 294 < 10 68 47 13 < 0.01 < 10 < 10 < 2 6 70 130 10 0.95 205 294 220 56 0.03 99TR3-085 < 10 56 < 10 44 2 5 18 < 0.01 < 10 255 47 0.03 93 120 - 4 0.64 205 294 99TR3-086 97 < 10 166 < 10 36 0.16 < 10 < 2 5 0.06 40 1000 8 0.34 205 294 415 3 99TR3-087

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Tre Ori) entatio	# T ^{on} ' on/length E	, учив Е-W		<u>, </u> , <u>,</u> , ,	Lo	- S C east	n je of RI	14 1-4	' N .►	- provide - provide - poro-1	er Trally el	- <u>ngel</u> t weby 187-	્યુ રા
		Visual		Descriptive						· · ·	<u> </u>	Assays		ĺ
m non	To m	ROCK	FRACT strike dip VEINS	Lithol Alt'n	Color Hard V	Weath Mag	/eniet Cl	Cp Bn % %	Mal Py %	Ca/Bio Cb %	Description	Sample No.	Cu % Au g/t	
> 	Ь	+ + + + + + + + + + + + + + + + + + +	comed	BFP K	dk 7 57	1.5 [.] M	5 -	,5 -	- 21	33	Welly could not reach bedrock -15m both begining of this the visiter little sech. difficult to obtain blr. some sublemp somped Not V. good somped Not V. good somped Not V. good	TR4 200	0·12	-
D	20	+ + + + +	raveral N 156 90	8FP K	mar 8 Gy	1 VI	~5 W	.5	low 1	3 2	Discontinuous exposure likely pert sub-crop post outerary ? till/colluvium.	TR4 201	0.0g	
0	70	+ + + + + + +	PC+12115 CONFED	BAP Phyl to K	H +	2.5 -	25 -	•6 – •8	- 1-	2- 0 3 - 2	V. soud Outcrop- difficult to scape V. resistant. visibu c.d. cp. Py c.d. f Stringers	TR4 202	0.09	
	40	+ + + + + +	110 BU 20275 70 BZ 230 60	BEP K to Phyl	mom - 7- 14. 8 517	.5 -	25 V. WK	~7- 7- 1	+ v	1- 1- 2 2	Cp along fructures. issome food.	784 203	0.15	
40	S S	+++++++++++++++++++++++++++++++++++++++	1 274 60 314 40 intersection w/	BFP K to phyl. RD-Y	nxtn. /1+ B 5'Y (ten)	.5 -	3 4	.5 - .7	ار ، در انا	- 2 3- 5 4	EP along tractures. Txt. portallyablta Brionres more phylic to west	TR. 4. 204	0.35	

0.25%

Trent # 1144-1- ELSW Lot I We' fR

		Visual					Descri	ptive	^											·		Assays		
From m	To m	ROCK	FRACT	strike	dip	VEINS	Lithol	Altin	Color	Hard	Weath	Mag	Veniel %	СІ	Cp %	Bn %	Mel	Py %	Ca/ Cb	Bio X	Description	Sample No.	Cu %	Aug/
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STANDARD G-2	GROUP 1D UPPER LI ASSAY RE - SAMPLE	.6 1 X - 0 MITS COMME TYPE	4 3 - AG NDED	3 4 GM : , Al , FO , CK	4 <.1 SAMPL J, HQ R ROQ	7 .E LE 5, W :K AN	3 53 ACHED = 100 ID COR BY FI	WITH PPM; E SAM RE AS	3 <1 3 MI MO, PLES SAY	2 CO, 1F (FROM	<2 2-2 E CD, CU PE 1 A	5 ICL-H SB, S ZN .T. S	74 < NO3- BI, AS > AMPL	.2 H2O TH, 1X, E.	<.5 AT U& , AG <u>Sam</u>	<.5 95 DI B = > 30 ples	40 EG. 2,0 0 PP beg	.63 C FO 00 P M & inni	.100 R ONE PN; C AU > ng 'R	7 HOU 1000	77 IR, D IB, 2 I PPE	.60 DILU IN, I	237 TED T N1, M	.130 0 10 N, As	9 ML, S, V, RE' (.97 ANAI , LA are I	.083 LYSED , CR Rejec	<u>.49</u> BY = 1(<u>t R</u>	2 OPT1 0,000	<1 MA I □ PPM	2.8 ICP-E 1.	<1<. s.	01	5 <.(1	
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ample#	Mo Cu ppm ppm	Pb Z ppm pp	n Ag m ppm	Ni ppm p	Co l ppn p	Мл pm	Fe As %topm	U Lppmr	Au ppm p	Th Sr pm ppm	Cd ppm	SĐ ppm	Bi ppm	V ppm	Ca %	P % p	La C opm pp	r M n	g Ba %ippm	Ti 1	B ppm	Al X	Na X	к Хрр	W Hg m ppm	Sc ppm	T1 ippm	5 % (Ga Ai opmigm.	 1** Sa /mt	mple lb
R-1-300 R-1-301 R-1-302 R-1-303 R-1-303 R-1-304	7.3 655 14.6 3359 77.8 2957 20.3 2770 75.4 4554	27 16 14 9 7 6 8 10 5 13	2 .4 2 2.0 5 1.3 3 .8 7 1.5	90 52 39 79 61	25 7 ⁴ 20 4 21 2 24 3 27 2	95 2. 94 3. 44 2. 59 3. 37 4.	93 199 15 49 37 18 12 13 32 12	1 1 1 3 3	<2 <2 <2 <2 <2 <2 <2	2 56 3 37 3 24 4 99 4 45	1.0 .5 .3 .4 .4	4.1 1.6 <.5 <.5 <.5	<.5 <.5 <.5 <.5 <.5	51 66 31 108 1 141	.98 . .80 . .11 . .83 . .69 .	008 010 022 129 143	7 6 9 4 10 1 22 9 23 9	2 .3 2 .2 4 .1 0 .4 7 1.8	5 313 4 98 1 300 9 487 1 377	.005 .008 .006 .007 .327	4 3 3 4 3 1	.69 .0 .91 .0 .86 .0 .87 .0	109 130 188 134 107 1	12 < 11 23 15 38	1 <1 1 1 1 <1 1 <1 1 <1 1 <1	6.4 12.0 6.3 14.4 11.2	<1 <1 <1 <1 <1	.12 .36 .38 .35 .62	1 < 2 1 2 8	.01 .09 .12 .10 .14	6.0 7.0 6.0 6.0 6.5
R-1-305 R-1-306 R-1-307 R-1-308 R-1-309	36.2 2442 122.4 3605 57.8 1993 23.1 1334 20.9 2464	6 7 18 14 8 7 6 9 4 8	3.9 42.8 4.7 1.8 71.0	40 59 57 96 63	15 2 19 3 15 3 28 5 29 2	85 2. 78 2. 35 2. 26 4. 42 5.	55 23 58 66 46 45 84 81 06 22	1 1 3 6	<2 <2 <2 <2 <2 <2 <2 <2 <2	2 31 2 24 2 49 4 82 4 82	.3 .8 .3 .4 .2	<.5 1.5 <.5 1.8 <.5	< 5 < 5 < 5 < 5 < 5	54 45 57 1 139 1 131	.39 .64 .33 .30 .92	097 017 063 091 117	17 2 9 1 38 5 14 11 14 10	4 2 4 2 0 3 7 1.1 9 2.0	7 356 1 238 9 340 9 238 0 230	.015 .001 .004 .146 .245	3 6 5 2 1 4 2	.99 .(.82 .(.93 .(.50 .(.89 .2)29)10)32)47 (228 1	24 18 < 14 58 <	1 <1 1 <1 1 <1 1 1 1 1	8.0 9.6 9.7 14.7 13.2	<1 <1 3 2	.44 .38 .21 .41 پر 41 1.00	2 1 2 6 13	.08 .11 .05 .04 .07	7.0 7.0 8.0 7.0 15.5
R-1-310 R-1-311 R-4-312 R-4-313 R-4-314 - Te u	7.8 718 24.6 910 12.9 1767 33.9 3837 73.5 3099	9 5 6 6 3 6 9 10 21 9	9.1 9.3 0.4 7.9 8.9	55 52 52 58 97	28 1 28 2 12 1 15 1 16 5	54 5. <u>23 5.</u> 76 2. 86 2. 76 3.	68 4 <u>35 55</u> 60 1 97 15 06 4	2 2 1 2 1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	5 65 5 66 5 40 4 73 3 33	<.2 <.2 <.2 .6	<.5 <.5 <.5 <.5 <.5	< 5 < 5 < 5 < 5 < 5	131 <u>128</u> 116 108 88	.81 .79 .48 . .85 . .46 .	173 <u>174</u> 126 121 104	21 9 21 9 16 9 17 5 15 7	2 1.9 0 2.1 0 1.7 7 1.1 6 .6	9 145 <u>5 200</u> 2 526 3 281 9 256	.280 .281 .267 .173 .073	32 32 <11 <11 61	.38 .1 . <u>33 .1</u> .54 .1 .18 .0 .34 .0	175 1.4 164 1 4 121 1.1 179 1 163 4	12 < 17 11 72 12	1 <1 <u>1 <1</u> 1 <1 2 <1 1 <1	10.7 <u>10.7</u> 9.7 10.5 9.4	2 1 2 <1	1.74 1.23 .14 .52 .69	11. < 12 6 5 4	.01 .03 .09 .13 .10	11.5 <u>15.0</u> 11.0 18.0 13.0
R-4-315 IE TR-4-315 IR-4-316 IR-4-317 IR-4-318	23.4 558 22.7 525 34.5 1692 3.6 2709 4.4 681	14 16 14 16 14 14 7 10 22 6	i2 .5 i2 .5 i1 1.5 i8 1.8 i2 .7	37 37 77 39 47	8 4 8 4 35 5 33 3 16 2	52 2. 56 2. 18 4. 01 1. 97 2.	24 80 25 80 58 385 89 493 06 331	1 1 3 1 2	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	2 42 2 43 2 64 2 41 2 39	.7 .7 .3 	3.7 3.7 5.4 3.2 3.1	< 5 < 5 < 5 < 5 < 5	52 52 92 39 42	.98 . .98 . .73 . .31 . .30 .	052 052 093 054 056	6 3 6 3 11 6 6 3 9 3	9.3 9.3 4.2 2.1 0.1	4 441 4 442 1 132 1 201 3 241	.002 .002 .005 .001 .001	4 2 3 1 3	.64 .0 .63 .0 .94 .0 .72 .0 .78 .0	005 004 004 005 005)8)8)8)6 10 <	1 <1 1 <1 2 1 2 1	9 6 9 7 10 2 5 5 4 6	<1 <1 1 1	.17 .17 .25 .35 .37	1 1 2 1 1	.01 .02 .03 .07 .02	3.0 - 14.5 13.0 13.5
1R-7-319 1R-7-320 1R-7-321 1R-7-322 1R-7-323	1.3 705 5.1 1021 5.4 1050 6.7 2211 2.4 501	B 5 15 16 19 41 24 31 9 8	54 .5 54 2.3 .0 1.4 .7 7.3 5 .5	41 37 48 41 65	32 1 28 3 18 4 23 4 20 2	17 2. 29 2. 35 4. 63 4. 15 3.	88 43 56 160 12 163 66 182 76 41	1 1 2 2 1	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.2 1.2 2.2 1.4	2.0 1.8 <.5 .5 <.5	< 5 < 5 < 5 < 5 < 5	32 34 110 1 85 56	.20 . .20 . .04 . .97 . .42 .	039 039 139 138 055	6 1 10 1 10 8 9 5 7 2	6 .2 5 .2 7 1.9 1 1.2 6 .5	1 157 0 134 3 248 2 149 2 113	.008 .003 .082 .051 .013	1 1 3 1 3 2 4 1 2 1	.15 .0 .05 .0 .03 .0 .29 .0 .19 .0)50)34)71)50)66	28 31 < 48 40 < 30	1 <1 1 <1 1 <1 1 <1 1 <1 1 <1	5.7 3.9 7.7 6.7 6.1	1 <1 <1 <1 1	.87 .41 .66 1.09 1.28	2 < 2 9 5 3 <	.01 .03 .02 .03 .03 .03	3.5 12.0 13.0 12.5 7.0
(R-7-324 (R-6-325 (R-6-326 (R-6-337 (R-6-338	1.4 1316 28.6 1455 12.1 1524 8.6 997 20.4 1066	22 11 36 26 11 13 6 9 7 28	4 2.8 57 4.0 35 3.5 91 .9 34 1.8	60 62 46 43 70	89 4 14 5 19 3 27 2 88 5	17 5. 42 4. 28 5. 56 4. 575 4.	<u>30 246</u> 79 84 65 58 99 73 98 731	5 1 1 2 3 4 1 3	<2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 22 4 28 4 27 3 30 4 50	2.5 1.0 .3 .2 .9	<.5 <.5 <.5 .6 <.5	<.5 1.3 1.1 .6 <.5	78 87 109 113 121 1	.28 .61 .32 .41 . L.12 .	095 116 129 119 134	7 3 22 6 18 8 20 7 11 8	8 .5 7 1.3 0 1.5 9 1.7 4 1.9	61 190 67 310 69 159 63 160 68 206	.050 .070 .172 .206 .089	51 61 11 31 52	.88 .0 .78 .0 .98 .0 .96 .0 .02 .0)56)56)75)76 1)76 1	40 39 39 < 21 42 <	$\frac{1}{2} < \frac{1}{2}$ $\frac{1}{1} < \frac{1}{2}$ $\frac{1}{1} < \frac{1}{2}$	7 9 6 6 8 3 9 3 9 0	1 <1 2 <1 <1	.95 .58 1.08 1.24 .59	6 9 10 9	.01 .05 .05 .02 .03	5.0 8.0 11.0 6.0 12.0
TR-6-339 TR-6-340 TR-6-341 TR-6-342 STANDARD C3/AU-1	4.9 696 4.0 1504 5.6 1631 4.4 604 27.7 67	6 8 13 19 7 16 4 9 34 16	33 .7 50 3.1 50 3.0 58 .4 57 5.5	37 42 47 42 30	18 2 21 2 22 3 13 2 13 8	217 3. 288 3. 268 4. 215 4. 319 3.	40 59 85 81 58 142 21 5 44 59	1 2 2 3 3 24	<2 <2 <2 <2 <2 <2	2 23 3 20 4 32 4 39 22 30	3 .3) .7 ? .8 5 <.2) 23.5	.5 .6 .5 <.5 17.4	<.5 <.5 .6 <.5 23.9	65 84 101 130 83	.37 . .37 . .60 . .48 . .61 .	060 104 143 143 097	9 5 7 5 16 6 10 9 21 18	1 .7 5 1.2 8 1.4 2 2.1 2 .6	8 201 5 211 2 263 1 300 3 163	.054 .117 .186 .281 .092	<1 1 <1 1 1 1 1 2 23 1	. 40 . 1 , 42 . 1 . 62 . 1 . 06 . 1 . 87 . 1)59 .)54 .)81 .]05 1.)41 .	52 55 < 93 49 < 17 1	1 <1 1 <1 1 <1 1 <1 5 1	6.9 6.5 8.8 10.9 4.6	<pre><1 2 1 2 1 2 1 2 1 1 2 1 1 1 1 1 1 1 1 1</pre>	. 78 . 76 . 71 . 87 . 03	4 < 6 7 11 < 7 3	.01 .02 .07 .01 .51	6.0 7.0 7.5 4.0
TANDARD G-2	1.5 5	3 4	15 <.1	7	45	572.	05 <1	3	<2	5 76	J <.2	<.5	<.5	42	.68.	105	10 8	2.6	53 247	.139	31	.01 .	LO <u>6</u> .	53	2 <]	. 2.7	<1	<.01	4	-	-
	GROUP 1DX - UPPER LIMIT ASSAY RECOM - SAMPLE TY	0.50 S - A Mende (Pe: R	GM S G, AU D FOR OCK R	AMPLI I, HG I ROCI 150 (E LEA , W = K AND 60C	ACHED = 100 > COR A	WITH PPM; E SAM U** B	3 ML MO, PLES Y FIF	2-2- CO, (IF CU RE AS	-2 HCI CD, SI J PB ; SAY FI	-HNO 3, BI ZN AS ROM 1	3-H2O , TH, > 1% A.T.	AT 9 U& , AG SAMP	5 DE B = > 30 LE.	G. C 2,000 PPM <u>Samp</u>	FOR PPM & AU Stes	ONE H l; CU, l > 1(begin	IOUR, PB, IOO P	DILU ZN, PD /'RE/	NI, M	0 10 N, AS <u>Reru</u> r	ML, , i, V, <u>ns an</u>	ANALY: La, (<u>d /rr</u> i	SED E CR = E' ar	3Y OP 10,0 <u>re Re</u>	TIMA 00 Pf	ICP- PM. <u>Reru</u>	ES. ns.			
DATE RECE	IVED: O	CT 2 2	000	DA'	LB H	REPO	RT 1	MATI	ED:	Ou	t	14/	n	S	IGNI	ED 1	в <u>у.</u> (ل : ـ			D. TC	YE,	.LEON	IG, J	. WA	NG; C	ERTI	FIED	B.C.	ASSAYI	ERS
All results ar	e considere	d the	conf	iden	tial	prop	erty	of th	ne cl'	ient.	Acme	/ assu	nes t	he l	iabil	itie	s for	act	ual c	 ost o	f the	: e rse	lysis	only	<i>.</i>				Data	<u>L</u> FA	

ACMF WALYFT	AL I	LARO	RAT	OPT	¤ş् I	מידנ	\$	<u>,</u> ,Я	52.1	5. H	AST	ING	ន ទ	Τ.	VNNC	លហុ	TRP	BC	್ಷ.V6	٦ 1	Rp	- 32) 82	РНС	NĘ	(604	4)2	i3-3	158,	Fa¥	(60	4)25	3-171	6
44	ACC	3 4 -9-4]	a _ Pac	, <u>ifi</u>	<u>c</u>] 1	BOO 10th	ker Flooi	GE TI	IC.	EM PR(Is Bu	CCA <u>)JE</u> 1, V	L CT	ANA MC uver	DRRI BC V	315 (50 68 4	C] <u>N</u> ¥4	ERT Fi Sub	'IFI le mitte	CAT # A d by:	'E .00 Eri	449 n 0'	56 Brier	, E 1	'ag	e 1						Á	
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	2n ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P X	La ppm	Cr ppm	Hg X	Ba ppm	Ti X	B ppm	A1 %	Na %	K X	N ppm	Au** gm/mt	Sample lb	
TR-4-360 TR-4-361 TR-4-362 TR-4-363 TR-4-364	2 2 2 3 2	455 135 1263 419 984	15 5 6 5 7	90 34 88 61 82	.6 <.3 1.3 .3 1.1	34 36 58 51 58	23 14 33 17 24	354 406 321 284 394	3.28 4.51 3.62 3.68 3.47	326 65 323 73 237	<8 <8 <8 <8 <8	₹2 ₹2 ₹2 ₹2 ₹2 ₹2	2 <2 3 2 2	24 52 45 36 46	.8 .2 .3 .4 .5	4 <3 <3 <3 <3	ব্য ব্য ব্য ব্য ব্য	71 76 68 94 64	.14 .58 .49 .51 1.36	.048 .049 .091 .110 .078	10 10 15 17 13	34 38 40 57 53	. 17 .47 .52 .84 .34	558 276 314 370 244	.03 .05 .03 .11 <.01	48664 4	1.02 2.58 1.51 1.27 .62	.01 .15 .07 .04 .01	.27 .40 .34 .62 .11	<2 <2 <2 <2 <2 <2 <2	.02 .01 .02 .01 .01	3 14 11 7 3	
TR-4-365 TR-4-366 TR-4-367 TR-4-368 TR-4-369	2 3 3 3 2	232 584 5086 6985 264	5 12 98 106 5	39 102 583 551 61	<.3 .7 42.2 46.2 .4	55 58 47 57 59	23 26 89 87 22	221 419 4729 4027 365	6.00 4.49 6.57 8.29 4.14	13 377 3353 1803 113	<8 <8 <8 <8 <8	<2 <2 <2 <2 <2 <2 <2	4 3 <2 3 2	117 41 22 27 32	.2 .6 4.6 3.3 .3	<3 <3 26 33 <3	<3 <3 18 6 <3	145 87 31 82 92	1.10 .92 .21 .37 .36	.145 .087 .066 .076 .086	15 18 11 18 13	97 66 16 64 76	2.46 .83 .10 .51 1.05	202 154 287 182 309	.16 .05 <.01 .02 .09	5 3 6 4 3	3.48 1.11 .75 .82 1.89	.32 .02 .01 .01 .07	1.32 .35 .32 .27 .64	2 2 2 2 2 2 2 2 2 2 2 2 2 2	_04 _04 1.13 _43 _01	3 6 17 21 22	
TR-4-370 TR-4-500	34	261 770	18 11	143 75	.5 .9	47 61	24 31	860 447	5.73 4.10	185 385	<8 <8	<2 <2	4 3	26 43	1.4	7 <3	<3 <3	83 66	.49 .38	. 132 . 083	21 15	44 49	. 16 . 27	276 312	<.01 .02	3 3	.69 .80	<_01 _01	.09 .15	<2 2	.02 .03	20 15	~
TR <u>-8-391</u> LNRD-371 LNRD-372	8 2 3	769 136 304	<u>38</u> 7 5	202 50 50	<u>1,2</u> <.3 .3	44 57 41	<u>34</u> 21 14	416 429 327	5.59 4.88 4.69	294 141 28	<8 <8 <8	<2 <2 <2	3 3 3	24 52 39		<u>ব</u> ব ব	3 4 3	<u>62</u> 97 77	<u>.60</u> 1.57 .71	<u>147</u> 144 113	12 23 25	<u>31</u> 47 50	<u>.13</u> .48 .77	115 301 324	<u><.01</u> <.01 .05	4	.75 .80 1.12	.01 .01 .02	.12 .08 .30	<2 <2 <2	<u>01</u> < 01 01	114 3	
LNRD-373 LNRD-374 LNRD-375 RE LNRD-375 LNRD-376	4 1 1 4	393 366 100 99 482	10 <3 <3 <3 6	81 27 21 20 62	<.3 <.3 <.3 <.3 <.3	57 23 58 57 44	22 12 18 18 31	369 103 270 272 451	4.88 1.22 2.38 2.41 4.66	89 119 57 58 234	<8 <8 <8 <8 <8	<2 <2 <2 <2 <2 <2	4 2 2 3	38 34 16 16 32	.5 .5 .4 .2	ଏ ଏ ଏ ଏ ଏ	3 3 3 3 3 3	98 22 42 41 84	.52 .08 .12 .12 .43	.144 .012 .012 .012 .012 .120	23 11 14 14 22	48 12 16 16 34	.44 .08 .24 .24 .64	379 304 135 133 365	.03 <.01 <.01 <.01 .06	3 3 3 3 3 3 3	.80 .69 1.15 1.15 1.12	.05 .02 .03 .04 .04	.19 .17 .22 .22 .43	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	.01 .01 <.01 <.01 .03	4 12 5 - 13	
LNRD-377 LNRD-378	6	1819 2528	33 10	187 116	3.7	45 53	62 28	705 368	6.19 3.56	1243 292	<8 <8	<2 <2	33	21 40	.9 .5	ठ ठ	⊲ ⊲3	108 93	.51	. 156	23 16	38 77	. 14	361 388	<.01	4	.70	<,01	.08	<2 3	.36	15 4	

5 5394 13 225 5.0 52 26 262 4.39 281 <8 <2 5 24 .7 <3 <3 88 .44 .149 7 82 1.74 180 .04 4 2.05 .04 .36 <2 LNRD-381 .07 2 .9 61 31 272 5.87 267 <8 <2 3 24 .7 <3 <3 125 .53 .139 13 109 2.29 130 .14 <3 2.33 .05 .55 2 LNRD-382 3 785 33 144 .01 5 .7 48 56 789 5.83 280 <8 <2 3 27 .3 <3 <3 101 .61 .141 21 40 .24 213<.01 <3 .72<.01 .07 <2 .08 LNRD-383 6 617 11 118 6 <8 <2 2 23 .4 <3 <3 35 .25 .045 11 15 .10 164<.01 <3 .57 .02 .12 <2 LNRD-384 3 363 4 63 <.3 41 31 450 3.91 113 .01 7 2 190 6 37 <.3 32 24 376 4.95 106 <8 <2 2 49 .2 <3 <3 79 .52 .071 13 47 .85 245 .03 3 1.58 .07 .34 <2 LNRD-389 .02 15 2 33 LNRD-390 2 190 7 65 <.3 40 18 509 4.39 118 <8 <2 .5 <3 <3 65 .68 .102 15 28 .22 170<.01 4 .95 .03 .09 <2 .01 16 3 1132 105 377 2.5 49 37 1323 5.46 926 <8 <2 2 27 2.7 21 7 73 .40 .093 22 47 .18 313<.01 LNRD-392 3 .69<.01 .10 <2 .11 15 .3 54 17 458 5.54 164 <8 <2 4 38 .4 <3 3 97 .81 .145 25 67 .87 165 .01 3 1.44 .01 .13 <2 .03 13 LNRD-393 3 376 13 80 3 249 10 72 <.3 36 22 588 4.57 176 <8 <2 2 30 .4 <3 <3 72 .44 .089 16 25 .32 228 .01 <3 1.11 .01 .18 <2 .01 LNRD-394 19 2 163 5 38 <.3 20 18 866 4.21 71 <8 <2 <2 30 .2 <3 <3 40 .27 .055 12 11 .34 250 .01 4 1.27 .05 .17 <2 <.01 LNRD-395 11 27 71 36 166 5.5 36 12 787 3.35 60 24 2 21 29 25.2 16 23 82 .58 .096 21 175 .61 159 .09 24 1.84 .04 .16 15 3.62 STANDARD C3/AU-1 -

5 3 43 <.3 7 4 531 1.98 <2 <8 <2 4 68 .2 <3 <3 41 .64 .101 10 77 .60 227 .13 <3 .89 .07 .46 2

3 501 10 65 1.1 51 19 232 3.70 65 <8 <2 3 34

3 245 4 23 <.3 41 26 263 5.28 53 <8 <2 <2 71

.5 <3 <3 61 .60 .093 8 54 .83 110 .05 <3 .98 .04 .17 <2

.2 4 <3 32 .12 .014 6 13 .06 247<.01 <3 .58 .04 .11 <2

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STANDARD G-2

1

LNRD-379

LNRD-380

GROUP 1D - 0.50 GN SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HN03-H20 AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES. UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU P8 ZN AS > 1%. AG > 30 PPM & AU > 1000 PP8 - SAMPLE TYPE: ROCK R150 60C AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE. D Complex beginning (DE) and Pacune and (DDE) are Reject Pacune

DATE RECEIVED: NOV 1 2000 DATE REPORT MAILED: $\sqrt{0}\sqrt{5}/70$	SIGNED BY
/ All results are considered the confidential property of the client. Acme assumes the	ne liabilities for actual cost of the analysis only. DataFA

Trench # 1- 5 Orientation/length E-W

Location Strate 206 157 (~1 Ed T6) bage 3 END & R990E - 3560N

		Visu	34	•••••)escrij	ptive				-		-									Assays		
From m	To m	R	ск	FRACT	strike	dip	VEINS		Lithol	Alt'n	Color	Hard	Weath	Mag	Veiniet %	α	Cp ¥	Bn %	Mal	Py X	Са/ Сь %	Bio ¥	her	Description	Sample No.	Cu %	Au gr
0	8	++ + + + + + + +	BFP	X	102 150 64	₽} - ₽			BPP	phy- K	H- mom 57	7 - 8	1 1.3	ZACY,	5	-	1- 1.5	-	law Mat	1-11	3	1- 2		F. d. cp + py, lots of mal. Mix of bothattn types Initially nore phyl, S-B K main'g	TR-5 220	-29	<i>.0</i> 9
8	10		zst	Ý	240	80			257	pmy k	Hoy	B	1	-	56	-		_	-	1	s	-		zst. fid. cp lon V n 4h			
ID	К	+ + + - + + +	-minn Zeff BFP		驿	1012	/ /	P7 1	ь в¶?	K- Phyl	ak- H SY	8- ອ-	١	м	25	₩K (≌)	1- 15		lan	e	1.5	2-3	wK.	Million 25t Million in -1 K BPP.	TR3 221	29	, A
ونا 19	। छ 20	+					/0	\$4/10		Piq	Wh.	45	2		<u>45</u>		<u>ə.</u> S	_	1014	1	<u>\</u>	1	-	e 16m. branni bla wh. cp in g vns. @10- Kest			
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23	27	┝╈╂ ┥╶╋ ┝┺╌╉┥	вгр					1	BrP	K	s+ f	6. 7	5 م	-	చ	—	่า	-	рм	۱	2-3	2- 4		some vns · Aland:2 ^{nd:} bio-> salt'n Peppo txt (orig:pot.obh		.38	,17
27	Зо							-	टऽर	K	H- 514	6	•5	-	25	w	-2	-		1	12						
10 डप	34 40	++	2.ST Shurp		6	90			25+	K- phy	14.	7	1	-	45	1	sit		1	l	1 <u>1</u>	1			7R5 223		~
		+7 ++ + + +	זיע. דור ף						Bre		man 1t 3ry	7	~1	۳- M	5	wk	1- 1-3	-	_	1- 2	1.5	5		esca - 8+0 10p- c.d. cpw/py		.4]	.0
40	47		ZST						zst	K- Pmy	1+: 9-7	7-8	٦.	-	5	-	1.0 1.3	—		! <u>-</u> .s	22	-	vk	short sec - efwell mind 2st mild-mod sil.	725- 224	22	.0
47	50	 7 7 11	sv rant BFP	+				Ţ	BFr	K- 144)	dK- Itgy	8	2.5	N- M	دع	wk	۱ ۱۰۲	 	tr	41	, m	910	ы	Nicely f. d. cp.			

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Orientation/length		

		Visu	al								Descri	ptive														Assays		
From	To M	9	ROCK	FR	ACT	strik	e d	üφ	VEIN	s	Lithol	Alt'n	Color	Hard	Weath	Mag	Veiniet %	a	C₽ ₩	Bn M	Mei	Py %	Ca/ Cb %	Bio %	Description	Sample No.	Cu ¥	Augh
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100	110	-									2.5								rt. 1							TR-5 228	0.0	<u>د</u>

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		Visu	al	•••					Descri	otive	.														Assays	<u> </u>	
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From M	To M	R	OCK	FRAC	T stri	kus diliç	VEIN	is	Lithol	Ait'n	Color	Hard	Weath	Mag	Veniet %	a	Cp %	Bn %	Mel	Py %	Съ	Bio %		Description	Sample No.	Cu %	Au g/t
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ACME ANALYTICAL LABORATORIES LTD. 552 B. HASTINGS ST. VANCOUVER AC IRL (ISO 9002 Accredited Co.)

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GEOCHEMICAL ANALYSIS CERTIFICATE

Pacific Booker Inc. PROJECT MORRISON File # A002283 Page 1 10th floor - Princess Bul, Vancouver BC V68 6W4 Submitted by: Gordon Weary

SAMPLE#	Mo Cu Pb Z	n Ag Ni C m pom pow DO	Co Hn Fe As	U Au Th Sr C nippmippmippmipp	Col Sb Bi V pm ppm ppm ppm	Ca P La Cr Mg Ba Ti B Al Na K W \$ \$ ppm ppm \$ ppm \$ ppm \$ \$ \$ ppm p	Hg Sc Tl S Ga Au** pm ppm ppm % ppm gm/mt								
TR-4-200 TR-4-201 TR-4-202 TR-4-203 TR-4-203 TR-4-204	2.6 1150 2 8 2.9 813 5 14 16.9 913 9 10 5.3 1538 13 10 5.3 3194 4 4	2 .6 40 1 2 .3 35 1 17 .5 43 1 14 .8 46 1 18 1.0 59 1	12 354 3.61 1 < 10 343 3.03 7 < 14 588 3.57 23 13 466 3.86 4 < 10 171 2.34 13 <	1 <2 6 75 <. 1 <2 7 69 . 1 <2 6 91 . 1 <2 6 49 . 1 <2 4 31 <.	.2 <.5 .5 102 .2 <.5 <.5 88 .3 4.1 <.5 78 1 .4 <.5 <.5 94 1 .2 .6 .5 69	.57 .117 13 84 1.39 1032 .221 6 1.38 .098 .79 2 .62 .116 14 70 .96 528 .163 2 1.03 .084 .54 1 1.98 .101 14 64 .96 612 .074 6 .93 .037 .34 2 1.20 .120 16 .72 1.34 .377 .157 3 1.16 .064 .62 2 .19 .042 .7 .24 .70 .344 .121 8 1.02 .047 .49 3	<pre><1 7.7 1 .12 4 .17 <1 6.7 1 .05 4 .05 1 9.1 1 .19 1 .04 <1 8.8 <1 .35 3 .06 <1 7.0 <1 .37 4 .13</pre>								
TR - 4 - 205 TR - 4 - 206 TR - 4 - 207 TR - 4 - 208 TR - 4 - 209	6.4 3796 3 3 19.6 2926 5 8 22.0 3744 4 8 16.6 3066 101 6 19.6 3975 3 5	89 .7 56 1 82 1.8 56 1 87 2.6 60 1 88 2.0 69 1 53 1.1 72 1	11 153 2.41 <1 · 14 496 3.72 35 · 13 611 3.53 18 · 12 299 3.10 181 · 11 254 2.85 2 ·	$\begin{array}{cccccccccccccccccccccccccccccccccccc$.2 <.5 <.5 88 .3 3.0 .5 81 .3 <.5 1.0 73 .4 7.9 1.3 87 .2 <.5 .7 97	.74 .085 12 87 1.13 419 180 2 1.22 .098 .71 2 1.81 .088 12 76 .47 372 .022 4 .98 .015 .14 2 1.12 .105 13 72 .86 289 .078 6 1.11 .048 .40 2 1.12 .113 12 .89 1.35 .287 .165 5 1.38 .098 .67 2 .50 .093 15 107 1.18 .342 .143 4 1.26 .081 .54 1	<pre><1 8.9 <1 .33 6 .15 <1 9.3 <1 .37 1 .11 <1 7.2 <1 .55 2 .14 <1 7.0 <1 .55 4 .11 <1 7.8 <1 .40 5 .19</pre>								
TR-5-220 TR-5-221 TR-5-222 TR-5-223 TR-5-224	25.9 2928 5 10 22.4 2898 7 24 27.5 3839 8 7 13.5 4114 12 15 40.6 3269 26 61		11 291 3.51 3 7 346 2.80 6 10 236 2.34 5 7 311 2.73 26 12 363 3.01 13	-1 <2	.2 <.5	.58.08714921.14353.15451.31.081.632.98.14014661.03517.08151.29.073.461.42.0581354.73514.11861.05.078.512.84.0907461.01306.06061.26.044.382.87.0611550.81263.07241.08.070.472	<1 12.0 <1 .40 5 .09 <1 12.2 <1 .27 5 .09 <1 11.2 <1 .29 5 .17 <1 8.3 2 .48 4 .09 <1 9.1 <1 .50 3 .11								
TR-5-225 <u>RE TR-5-225</u> TR-6-210 TR-6-211 TR-6-212	25.4 3463 5 23.9 3406 5 6 129.9 3797 22 13 41.9 1999 10 13 6.5 1170 5	73 1.4 51 69 1.3 50 35 1.4 45 31 1.2 51 74 1.8 47	15 189 3.08 2 14 182 3.07 3 7 239 1.75 14 15 518 2.57 51 13 326 3.25 20	(1 <2 4 59) (1 <2 5 58) (1 <2 4 30) (1 <2 4 30) (1 <2 6 29) (1 <2 4 19)	.3 <.5 .5 100 .2 <.5 <.5 96 .4 1.2 .7 57 .6 1.5 .5 59 .3 <.5 <.5 46	.62.1179691.29205.17921.26.090.681.60.1129661.25233.17821.21.089.672.40.037840.31263.0213.78.059.222.33.0481451.19323.0023.84.026.19<1	<pre><1 8.3 <1 .64 6 .09 <1 8.0 <1 .62 5 .11 </pre> <1 9.0 <1 .44 3 .12 <1 10.3 <1 .29 <1 .06 <1 5.8 <1 .31 1 .02								
TR-6-213 TR-6-214 TR-6-215 TR-6-216 TR-6-217	TR-6-211 41.9 1999 10 131 1.2 51 15 51 1.5 5.5 59 .33 .048 14 51 1.9 52.3 .002 3 .049 14 51 1.9 52.3 .002 3 .049 .013 1.5 1.5 1.5 59 .33 .048 14 51 1.9 52.3 .002 3 .049 21 22 .029 .14 21 1.6 21 1.9 32 1.5 1.9 32.3 .002 3 .049 21 22 .029 .01 1.15 1.9 32.3 .002 3 .049 21 1.2 1.6 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.2 2.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 <t< td=""></t<>														
TR-6-218 TR-6-219 TR-7-190 TR-7-191 TR-7-191 TR-7-192	10.8 436 4 6.0 576 25 49.6 3315 14 1 62.9 1748 34 1 79.2 2069 18 1	35 .8 26 68 1.0 27 17 3.5 89 12 2.2 96 48 2.8 67	15 256 2.64 19 19 223 3.87 32 24 231 3.49 24 12 272 2.43 370 15 257 2.63 60	<1 <2 5 16 < <1 <2 4 18 <1 <2 7 40 <1 <2 7 26 <1 <2 5 18 1	 <.2 .7 <.5 30 .2 1.1 <.5 45 .4 <.5 .9 92 .5 <.5 .7 43 1.1 2.4 <.5 33 	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<pre><1 4.2 <1 .33 2 .01 <1 5.8 <1 .51 <1 <.01 <1 8.6 <1 .79 6 .09 <1 5.1 <1 .46 2 .05 <1 6.0 <1 .63 1 .05</pre>								
TR-7-193 TR-7-194 TR-7-195 TR-7-196 STANDARD C3/AU	24.3 865 3 16.9 1834 12 1.5 691 5 .8 164 4 1 26.9 67 37 1	34 .4 64 61 1 .6 .74 84 .6 .33 29 .2 .25 .69 5 .4 .37	16 387 3.68 10 13 504 3.24 8 13 283 3.77 21 7 237 3.56 3 12 795 3.37 59	<1 <2 6 20 < <1 <2 6 25 < <1 <2 5 31 < <1 <2 5 19 < 24 <2 25 29 25	 <.2 <.5 <.5 <.5 <.5 <.5 <.5 <.5 <.5 <.5 <.6 <.5 <.74 <.8 <.3 <.3 <.3 	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<1								
STANDARD G-2	1.6 14 3	44 < 1 7	3 531 2.03 <1	2 <2 5 74 <	<.2 <.5 <.5 40	.63 .100 7 77 .60 237 .130 9 .97 .083 .49 2	<1 2.8 <1<.01 6 <.01								
GR UP AS	OUP 1DX - 0.50 GM PER LIMITS - AG, SAY RECOMMENDED F SAMPLE TYPE: ROCK	I SAMPLE LE/ AU, HG, W = OR ROCK AND AU** 1	ACHED WITH 3 ML = 100 PPM; MD, 1 D CORE SAMPLES BY FIRE ASSAY F	2-2-2 HCL-HNO3- CO, CD, SB, BI, F CU PB ZN AS > COM 1 A.T. SAMPI	-H2O AT 95 DEG. TH, U & B = 2,0 > 1%, AG > 30 Pf LE. <u>Samples beg</u>	C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY OPT DOO PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,00 PM & AU > 1000 PPB ainning 'RE Jord Reruns and 'RRE' are Reject Rerur	IMA ICP·ES. O PPM. <u>IS.</u>								
DATE RECEIVE	D: JUL 12 2000	DATE P	REPORT MAIL	D: Gnly o	אן <i>א</i> ר sig	NED BY	; CERTIFIED B.C. ASSAYERS								
All results are	considered the co	onfidential	property of th	client. Acme a	assumes the liab	bilities for actual cost of the analysis only.	DataFA								

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							Pac	<u>:1£</u> 10	<u>18</u>)th f	<u>BO</u> loor	ok	er Trinc	<u>In</u> ess	C. Bul,	PR. Van	COUN	SCI er B	- M(C V61	DRR B 4W	<u>(15</u> 4 s	<u>UN</u> Ubmi	Fl tted	Le byi	# Gord	AU (on Ve	124. ary	18									
MPLE#	Mo ppm	Cu ppm	РЬ ppm	Zn ppm p	Ag pm p	Ni Sport p	Co xpan p	Min Xpm	Fe X	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca X	Р Х	La ppm	Cr ppm	Mg %	Ba ppm	Tî X	B ppm	AL X	Na X	K Z	W ppm	Hg ppm	Sc ppm	Tl ppm	S 7	Ga xpm ş	Au* 3m/n
-5-226 -5-227 -5-228 R -5-229 -5-230	49.3 43.7 18.3 35.5 50.1	2529 2297 819 2447 2702	7 16 22 9 8	65 65 78 69 113 2	.4	49 45 31 51 48	21 1 16 2 10 2 14 1 16 2	131 3 226 3 260 2 197 3 251 3	5.39 5.95 2.90 5.29 5.75	1 1 1 6	<1 <1 <1 <1 <1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6 2 3 2 3	25 15 21 22 25	.2 .5 .2 .6	<.5 <.5 <.5 .7 <.5	<,5 <,5 <,5 <,5	117 75 79 107 86	.26 .09 .05 .24 .34	.099 .025 .009 .091 .071	15 8 12 7 10	79 1 25 28 44 1 48 1	.56 .50 .34 .15 .15	325 189 265 279 286	.279 .036 .066 .191 .128	2 <1 3 4 1	1.86 1.37 1.30 1.86 1.72	.076 .040 .037 .059 .055	1.17 .25 .21 .79 .69	1 <1 1 1	<1 <1 <1 <1 <1	11.6 6.5 7.7 9.6 7.8	<1 <1 <1 <1 <1	.51 .64 .34 .34 .60	15 12 9 13 14)
TR-5-230	48.1	2704	8	114 2	2.4	47	16 2	248 3	3.83	6	<1	<2	3	25	.6	<.5	1.4	85	.34	.071	10	48 ⁻	1.14	290	.127	1	1.70	.055	.69	1	<1	7.7	<1	.60	15	
DATE RE	- CEIVI	SAMP	LE TY JUL	'PE: 1	ROCK 2000	D	AU*'	* BY	FIR POR	E ASS	SAY LATI	FROM	1 A. • A	.т. s NJ	5AMPL 7 /	.E. บา	<u>Sam</u> c	oles S	<u>begi</u> IGN		<u>'RE</u> 3¥.	<u>' ar</u> ∕1 			<u>and</u>	TOYE,	<u>are</u> , C.L	<u>keje</u> Eong,	<u>ct Re</u> J. W	<u>runs</u> IANG;	ECER	TIFIE	D B.	C. AS	SAYE	RS
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		Visu	al					Discr	lptive														/	Assays		
From m	To m	R	оск	FRACT	strike	dlp	VEINS	Lithol	Alt'n	Color	Hard	Weath	Mag	Veniet %	a	Ср %	Bn %	Mal	Py %	Ca/ Cb	Bio %	k-a	Description	Sample No.	Сu %	Au g/t
0 2.5	2.5	、 - + + + + + + + + + + + + + + +	ZAT BPr MIX	XXX	.			251 8F# Mix 0F B014	K-phy . K As	mgy- ten mgy Abov	89 89	 -1.5	1	5. D L)	1 1	•7- •7- I	-	10H -	-	1-1 <u>2</u> < [- +	*.	Initially suborop. but is burlours. e.v. angulor. Zsi + BFP pre siliceous. BFP txt is loc. dol' 016- lomina ka send. @10m DH-92(Sor + e)	TR-6 210	0-35	3
10 10 10 10	135 14 18 20		ZAT MEC DKY		230 41 130	53 72		ZST MFC TKY OB	K (Pry)	Hindon Siy 11	97	4 41 •5		s-7 42 7-		2- 1- 1-		-		1-3			Minu moly of specha MFC Dyk w/~ 25 - 35% fls phyrics @ 20m - center of road to pond and proposed holes	n. The 6 Z1)	0،2	
20	.30		Z 5Ţ	*****	0~5	82		ZST	ĸ	1+- mun 91/	6	2.5	V. WK	7		,5	-	t ~.	7 17	ł			© zsm so up a slisht hill leage to top w1 20st @ surface.	7a.6 212	012	_
3 5	ψ				270 000 106 108	73 90 59 50		Zst	K- (Phy)	num- 1+ 517 (to) tra)	6-7	2.5	V.	5	-	2.5			1-3	1-	-		Py in ministry fractures. on merry fractures. op on rare fracts:	213 213	0.16	
40	ŝ		4 W.O.		240 153 207	51 90 90		zsī	K - (My)	H- 97	6	•2	-	57		tr		† ≁.	. 1	12			zzt as above except w/@.s75 m bld nhzstone. Txt. pr/l.obltd. locally.	78-6	0.0	ų

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	Visual	·				Descrip	otive															Assays		
From To m m	ROCK	FRACT	strike	dip	VEINS	Lithol	Alt'n	Color	Hard	Weath	Meg	Veniet %	а	Ср %	Bn %	Mei	Py %	Ca/ Cb %	Bio %	hra	Description	Sample No.	Cu %	Au g/t
50 60		XXXX	04.2 3०५	9 2 84	por phid	2.57	K- phy	man 5'y_ H. -tzn.	6	د ج	2 4	ф,		2.5	-	¥.	8	دا	-		several .3.05m sectors of bild 2.5T	M-6 215	0. ₀ g	
60 62 62 70			010 318 300 024	50		BFP	۲	т- ак 57	7	.5-	-	5	V. NK (loc)	۰2 ط		t r.	2	2-3	ч	tr.	On BFP: mina cp on fractures & raity f.d. more about py. BFP is quit fractid Vrs. typical. Loc holt bio.	72-6-	0.16	
70 73 73 80	+ z 57 	¥.	260 020 290	ୟ କୁ କୁ		847° 	K ¥- pny	dK 37 1t 377- ten	8 6	.5 .5- .7	1 1	45 5-7	-	7	-	≁ .	5 WN	2-	2-3		2 st is locally b) d wh-bt othermice Similar to previous Ble visht @ surfeer	772.6 217	0./Z	
80 90	- 25T 		250 002 304 54	74 70 90 91	5	रऽ <u>ा</u> रऽा	K- Phy Prot	14. gry- ten wild	7	,7- 1 1-2	N N S S	5.6		<i>ф</i> ,			۱ دا	21 23			deper of bothern est in bid.	TK-6 218	0.o4	
						2.5T	Por	As	A 7	30 V	E	5					. 1-		_		portionly K. articl	TR6	0.06	

Treas # 77 '> Les a lage 7 2-1

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End of trench- joins N.S arress road ~105-106 7.

ANALYTICAL LABORATORIES LTU. ACME

STANDARD C3/AU-1

B. DASTINGS ST. VINCOUVER BC IR.

(ISO 9002 Accredited Co.) GEOCHEMICAL ANALYSIS CERTIFICATE File # A002283 Page Pacific Booker Inc. PROJECT MORRISON Submitted by: Gordon Weary 10th Floor - Princess Buf, Vancouver BC V68 444 Na K W Hg Sc TI S Ga Au** TI B Al P La Cr Mg Ba Mo Cu Po Zn Ag Ni Co Mn Fe As U Au Th Sr Cd Sb Bi ٧ Са tippmi ti titppmippmippmippmitippmitippmigm/mt SAMPLE# X DDM DDM X ppm 1 2.6 1150 2 82 .6 40 12 354 3.61 1 <1 <2 6 75 <.2 <.5 .5 102 .57 .117 13 84 1.39 1032 .221 6 1.38 .098 .79 2 <1 7.7 1 .12 TR-4-200 .2 <.5 <.5 88 .62 .116 14 70 .96 528 .163 2 1.03 .084 .54 1 <1 6.7 1.05 .3 35 10 343 3.03 7 <1 <2 7 69 2.9 813 5 142 TR-4-201 6 .93 .037 .34 2 1 9.1 1.19 3 4.1 <.5 78 1.98 .101 14 64 .96 612 .074 16.9 913 9 107 .5 43 14 588 3.57 23 1 <2 6 91 5.3 1538 13 104 .8 46 13 466 3.86 4 <1 <2 6 49 .4 <.5 <.5 94 1.20 .120 16 72 1.34 377 .157 3 1.16 .064 .62 2 <1 8.8 <1 .35 TR-4-202 TR-4-203 4 48 1.0 59 10 171 2.34 13 <1 <2 4 31 <.2 .6 .5 69 .19 .042 7 124 .70 344 .121 8 1.02 .047 .49 3 <1 7.0 <1 .37 5.3 3194 TR-4-204 6.4 3796 3 39 .7 56 11 153 2.41 <1 <1 <2 4 56 <.2 <.5 <.5 88 .74 .085 12 87 1.13 419 .180 2 1.22 .098 .71 2 <1 8.9 <1 .33 TR-4-205 19.6 2926 5 82 1.8 56 14 496 3.72 35 <1 <2 6 46 .3 3.0 .5 81 1.81 .088 12 76 .47 372 .022 4 .98 .015 .14 2 <1 9,3 <1 .37 1 TR-4-206 .3 <.5 1.0 73 1.12 .105 13 72 .86 289 .078 6 1.11 .048 .40 2 <1 7.2 <1 .55 2 22.0 3744 4 87 2.6 60 13 611 3.53 18 <1 <2 6 36 16.6 3066 101 68 2.0 69 12 299 3.10 181 <1 <2 6 53 .4 7.9 1.3 87 1.12 .113 12 89 1.35 287 .165 5 1.38 .098 .67 2 <1 7.0 <1 .55 TR-4-207 19.6 3975 3 53 1.1 72 11 254 2.85 2 <1 <2 6 32 <.2 <.5 7 97 .50 .093 15 107 1.18 342 .143 4 1.26 .081 .54 1 <1 7.8 <1 .40 TR-4-208 TR-4-209 25.9 2928 5 105 2.8 58 11 291 3.51 3 <1 <2 6 39 .2 <.5 1.4 106 .58 .087 14 92 1.14 353 .154 5 1.31 .081 .63 2 <1 12.0 <1 .40 5 TR-5-220 22.4 2898 7 249 2.8 51 7 346 2.80 6 <1 <2 5 38 1.0 <.5 .5 85 .98 .140 14 66 1.03 517 .081 5 1.29 .073 .46 1 <1 12.2 <1 .27 5 TR-5-221 27.5 3839 8 73 1.9 43 10 236 2.34 5 <1 <2 4 31 <.2 <.5 .5 85 .42 .058 13 54 .73 514 .118 6 1.05 .078 .51 2 <1 11.2 <1 .29 TR-5-222 .7 .5 .6 82 .84 .090 7 46 1.01 306 .060 6 1.26 .044 .38 2 <1 8.3 2 .48 13.5 4114 12 155 3.3 46 7 311 2.73 26 <1 <2 5 29 .7 69 .87 .061 15 50 .81 263 .072 4 1.08 .070 .47 2 <1 9.1 <1 .50 3 TR-5-223 40.6 3269 26 618 2.5 51 12 363 3.01 13 <1 <2 4 31 3.9 .8 TR-5-224 .3 <.5 .5 100 .62 .117 9 69 1.29 205 .179 2 1.26 .090 .68 1 <1 8.3 <1 .64 6 .09 25.4 3463 5 73 1.4 51 15 189 3.08 2 <1 <2 4 59 18-5-225

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GROUP 10X - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HN03-H20 AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY OPTIMA ICP-ES. UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB.

AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE. Samples beginning 'RE/Jard Reruns and 'RRE' are Reject Reruns. - SAMPLE TYPE: ROCK

they 21/00 . D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS SIGNED BY. DATE REPORT MAILED: DATE RECEIVED: JUL 12 2000

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

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GR UP	OUP 1DX - PER LIMIT	0.50 GM S - AG,	SAMPL AU, HG	E LEAC , W =	100 PP	тн 3 м; мс	ML 2- 1, CO,	2-2 H CD,	HCL- SB,	ню3- ВІ,	-н2О ТН,	AT 95 U& 9	DEG 3 = 2	C F 000	OR ON	CU,	DUR, PB,	DILU ZN, I	TED T NI, M	10 10 10, AS	ML, / 5, V,	ANALY LA,	SED CR =	BY 01 10,1	PTIMA 000 P	1CP- PM.	E\$.			
AS -	SAY RECOM	IMENDED F PE: ROCK	OR ROC R150	K AND 60C	CORE S	AMPLE ' BY F	S IF IRE A	CU PE	BZN FROI	AS > M 1 /	> 1X. A.T.	, AG > SAMPI	> 30 F LE. <u>9</u>	PPM 8 Sampl	es b	> 100 egi <i>n</i> r	u PP <u>hing/</u>	YRE'	are	Renu	າຣ ຄຸກ	d 'RR	E'a	re R	eject	Reru	ins.			
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All require are	considere	d the co	nfiden	tial r	propert	y of	the c	lien	t. A	cme a	855Ur	nes ti	ne lin	abili	ties	for	actu	alc	 ost o	of the	e ana	lysis	ont	y.				Data <u> </u>	L-FA	
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Trench # TK-y - The vices - ide Orientation/length E - W.

Assays Visual Descriptive Py Ca∕Bio ¥ Cb ¥ Ċu Cp ≸ Bn %∖ Sample AU ON From To Mai Description ¢I, ROCK FRACT strike dip VEINS Lithol Altin Color Hard Weath Mag Veinlet No. % m m * .5 17.0 - 14 97 ٠S 4-5 1.5 ____ ZST 251 κ 7 -*** **د ا** ο + Abund 200 bb 712-7 h.st1.32 BKAD .7; 379 2.5 K 45 ----BFP 1.5 3 251 has strong sw uning 190 See 2 ZST DIZ EVION \$ ZST 10FP. AS ۲. 0.24 З BFP has cd cr + py. 7 189P m-′<u></u>∦в€Р K 25 dK 7 7 1.5 12 Mild hern stain. 37 ++ ю ++ BFP hR-7 ю XXXX Freeds Py. cpy + tr. no ensue 191 11 - 212-mohr ZST K | S -251 .5-5 קיים fracts, stoysw -----517 B -(mild •7 -6 fract's . zet boks -(409) (ten) poorly mind evolat SX SX on several fractures. 20 V. simila to XXXXXXXXXX 20 30 previous although TRA 21 25-<u>اد يا</u> man 8.21 5-Κ. former fracts f 192 ZST 3 10-20 7 (sıl) less min. 31 9 30 Pocrase yet in sw fracturing. Ter 1 A 40 30 21 3 ¥ mon? 10 14 193 . اید ^{میر} ا 5 7 ĸ .7 57 टडा

Location Trench begins club to 110-10

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0	50			una puec	eر الع	25 (N P ¹	T MM	X	20 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	7	2.5	5 G	1	tr.	-	1	1.5	• -	-	Sus-mainly py smeared or f.d. on fractures casing for DH-BS(? found close to 50m.	TK-1 194	0.18	

Pagel of 2

	Tongh # -1 - 7- W 7	JL, 20 ED
•	Orientation/length F-W	. <i>v</i>

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E-W-

		Visu	al						Descri	ptive			ł			-					-			Assays		
From m	n.	R	OCK	FRACT	strike	dip	VEIN	s	t ithol	Alt'n	Color	Hard	Weath	Mag	Veinlet %	а	Cp %	Bn %	Mai	Py %	Ca/ Cb %	Bio %	Description	Sample No.	Cu %	Au gh
50 57.5 55.5	52.5 <35		zst BFP ZST	XXXX			1		ZST BFP	Pry X	ton dK gry	18 47 6	1 1.5 1	1 1	ς, μ ^α	1 1	2 7	-	1 1	2-3	ન ન		Increase in su's in BFD · mainy "pr.	TR7. 195	0, ₀ ,	7
ь о	٦ь		2.5T		046	80 90			হর্য	K	mdr to dK SY	Г	l	М	5- 7		ب	-	1	•5 •7	~		Gradual Change from good to mod exposure -phylialtin halos annund py vns.	TR7 196	0. ₀	a/
70 71 71	72		BFr						z.st BPP zst	As thýl K	heovi It Jy Indn dk gy	5	2		دج ج		.5 4.5		iow M	12.5	2	-	BEP-malion tract. Surf V.f. cp. on fractures Slight to mode hernistain .	7127	04	
80 85 87	85 87 91		Brr						ZST Bre ZST	K EXIS M	AS 1+50	ک ک ک	BOV -5-1 1	111 1 1	5-6 6- 7	- V K Lac	45 43	-		- 51	1- 1- 1-5		Sim to above of local fick, preparing. BEP is physical WK K (some secondary bio. in tact). Outcop close to sulfer	7 - 217 1 98	0.0	1
91 105 117	105	 -~	T1LL	<i>W</i>	000	90) 012-		ØFr	K Phy (1sil)	not	7	•5	L- H -	<5 25		•5 •7 •5 •6		Hct low mod	12	2 2	/2-3 ¥.	Till 91-65 m. Did not trench delp mugh The from tr. to 21%, op this k orea Rock the bar good fo hin n. Joins W/ RD 4 C BOT	-ראר 19	0,0	

ACMB ANALYTICAL LABURATORIES LTD. BOJA B. BROTINGS ST. VENCOUVER BC IR. 1 B(6(53-

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GEOCHEMICAL ANALYSIS CERTIFICATE

Pacific Booker Inc. PROJECT MORRISON File # A002283 Pacific Booker Inc. PROJECT MORRISON File # A002283 Pacific Booker Princess Bul, Vancouver BC V68 4W4 Submitted by: Gordon Weary Page 1

				<u></u>		i se i se i				e le fride de la				274.0066	().					-		<u></u>	L.L.	D-	т.;	0	A1	Na	Y	W 1	Ha	Sc	TI 5	S Ga	i Au	**	
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TR-5-222	27.5	3839	8	73	3 1.9	43	10	236	2.34	5	<1	<2	4	31	<.2	<.5	.5	85	. 42	,058	13	54	.73	514	.118	01	.05 .	0/0	. 21	5	~1 1	0 7 0 7	2 4	ด์	å	09	
TR-5-223	13.5	4114	12	155	5 3.3	46	7	311	2.73	26	<1	<2	5	29	.7	. 5	. 6	82	.64	.090		46	1.01	306	.000	01	.20.	049	.30	2	~1	0.5			3	11	
TR-5-224	40.6	3269	26	618	3 2.5	51	12	363	3.01	13	<1	<2	4	31	3.9	.8	.7	69	.87	.061	15	50	.81	263	.072	4 1	.08.,	U/U	. 47	2	~1	2.1	~1		J	•••	
in d EE-																					_			005	170	• •	20	000	20	1	-1	9 3	c1 6	.	6	09	
(TR-5-225	25.4	3463	5	73	31.4	51	15	189	3.08	2	<1	<2	4	59	.3	<.5	.5	100	. 62	.117	9	69	1.29	205	.179	21	.20.	090	.00	2	~1	0.J	~1 6	,7 ;7	ŝ	1 1	
DRF TR.5.225	23.9	3406	5	69	91.3	50	14	182	3.07	3	<1	<2	5	58	. 2	<.5	<.5	96	.60	.112	9	66	1.25	233	.1/8	21	. 11 .	009	.0/	2	~1	0.0	~1 /	14	ž.	12	
TP-6-210	129.9	3797	22	13	51.4	45	7	239	1.75	14	<1	<2	4	30	. 4	1.2	.7	57	, 40	.037	8	40	. 31	263	.021	3	.78 .	009	. 22		-1 1	7.U ^ 2	-1 -2	20 2	1	06	
TR-6-211	41.9	1999	0 10) 13	1 1.2	51	15	518	2.57	51	< 1	<2	6	29	.6	1.5	.5	59	. 33	.048	14	51	. 19	323	.002	3.	.84 .	020	. 19	-1	-1 1	0.3 E 0	-1.0 -1.3	17 - 11	1	02	
TR-6-212	6.5	1170		5 74	4 1.8	47	13	326	3.25	20	<1	<2	4	19	.3	<.5	<.5	46	. 16	.030	10	19	.27	203	.004	2.1	. 22 .	029	.41	4 1	~1	5.0	~1	31	+		
10.0.212	0.0																				_						07			-1	<i>.</i> -1	4.0	1 6	:e ~	1	05	
TR-6-21	13.7	1568	3 8	3 54	4 1.7	55	18	292	3.97	11	<1	<2	2	14	.2	1.6	<.5	49	. 07	.021	7	18	.31	235	.004	31	.27	032	.37	<1	<i 21</i 	4.9 5 A	NI 10	- 06 77	2 -	01	
TR-6-214	3.8	419		3	2 .4	37	12	26ა	3.87	4	<1	<2	5	18	< 2	<.5	<.5	57	.11	.036	10	27	. 50	212	.016	31	.84	.05/	.33	-1	<u>دا</u>	p.4	1.4	27	2 ~	06	
TP-6-215	17.9	836	5 5	5 4	5 1.1	35	14	328	4.88	255	<1	<2	4	20	<.2	.5	<.5	67	. 30	.056	- 7	24	. 46	220	.007	21	.68 .	.052	.25	·1	~1	0.9	~1	אנ ו בר	0	04	
TR-6-216	15.4	1588	3 9	9 1 I	1 2.0	48	16	286	4.65	6	<1	<2	6	25	.4	<.5	. ,7	115	.35	.108	6	-77	1.64	111	.161	2 2	.11	.086	./0	1	~1	0.4 Z 1	-1 4	51 I 53 I	A.	.07	
TR-6-217	19 9	1154	1 e	5 7	5 1.6	42	17	362	3.56	28	<1	<2	5	25	.2	<.5	<.5	68	. 34	.055	6	44	.81	284	.049	31	.56	. 060	.49	1	<1	D .1	<1.0	01	4	.02	
IK-0-21/																								~ ~ ~ ~			10		-07	,	~1	12	~1 .	c.	2	61	
TR-6-218	10.E	436	54	43	5,8	26	15	256	2.64	19	<1	<2	5	16	<.2	.7	<.5	30	. 10	.027	11	15	.19	229	.002	4 1	. 1Z .	.044	. 27	1	-1	4.4	~1 .	55 51 z	-1 e	01	
TB-6-219	6.0	576	6 29	56	8 1.0	27	19	223	3.87	- 32	<]	<2	4	18	.2	1.1	<.5	45	<u>, 12</u>	.030	6	16	.23	158	.006	51	19	2039	.28	<u></u>	-1-	<u>3.0</u> 7 Z	-1	70	<u>7</u>	00	
TR-7-190	49.6	5 3319	5 14	4 11	7 3.5	5 89	24	231	3.49	24	<1	<2	7	40	. 4	<.5	.9	92	. 33	.083	16	66	1.14	137	. 146	4 1		,0/0	.00	2	-1	G.U G.1	~1	/ 7 AG	2	05	
18.7.191	62.9	1748	8 34	4 11	2 2.2	96	12	272	2.43	370	~1	<2	7	26	.5	<.5	.7	43	.42	.045	12	32	.46	260	.005	4	.90	.029	. 33 26	1	-1	2.L 6 0	~1 /	40	1	.05	
TR-7-192	79.2	2 206	9 14	8 14	8 2.E	67	15	257	2.63	60	<1	<2	5	18	1.1	2.4	<.5	- 33	.16	. 054	12	22	.21	236	1001	1	.01	.030	. 35	1	41	0.0	~1	55	1	. 03	
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/ TR-7-193	24.3	3 86!	5 :	33	4.4	64	16	387	3.68	10	<1	<2	6	20	<.2	<.5	<.5	67	.12	.041	13	39	.4/	210	.018	0	41	.043	.27	1.	~1	6.1	1	40 30	2	07	
TR-7-194	16.9	9 1834	41	26	11.6	5 74	13	504	3.24	8	<1	<2	6	25	. 2	<.5	.5	52	. 31	. 136	i 10	29	.44	301	.006	01	.51	. 055	. 32	4	~1 ~1	0.0	-1	30 E1	5.	.07	
T8-7-195	1.5	5 69	1	58	4.6	5 33	13	283	3.77	21	<1	<2	5	31	.2	<.5	<.5	52	. 26	.079	13	23	. 52	221	.017	31		.072	.37	1	~1 _1	4.0	~1 .: ~1	91 12	5.	01	
TR-7-196		3 16	4	4 2	9.2	2 25	57	237	3.56	3	<1	<2	5	19	<.2	.6	<.5	74	. 12	. 050	14	30	. 54	332	.059	3 3	8/	.062	. 28	1		0.2	-1	10 02	7 7	68	-
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STANDARD G-2	1.0	6 I-	4	3 4	4 < .	1 7	<u> </u>	531	2.03	<1	2	<2	5	74	<.2	<.5	<.5	40	.03	i , LUU		- 11			.150	,	. 71			· -			• •				
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All results are	conside	er ed	the	cor	11 I de	11()8	n p	ope		. (s ren			444		1116	1,01												-							

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SAMPLE#	Mol	Cu Dm D	Pb	2n Dom	Ag pom	i N pom	Co ppm	Mn	Fe X	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca X	P %	La ppm	Cr ppm	Mg X	8a ppm	Ti X	B ppm	AL X	Na X	K X	W ppm	Kg ppm	Sc. ppm	ͳ ppm	s %	Ga ppm g	Au** m/mt
TR-7-197 TR-7-198 TR-7-199 RE TR-7-199 STANDARD C3	7.1 97 72.2 67 4.5 94 4.4 91 26.9 0	70 24 47 86 63	8 12 19 18 34	138 84 195 193 164	1.3 .8 1.5 1.5 5.6	35 28 50 49 34	17 12 31 31 11	250 213 395 392 771	3.19 2.84 4.55 4.50 3.06	77 150 223 214 58	<1 <1 1 23	<2 <2 4 4 <2	1 2 4 4 21	20 20 35 35 28	.5 .5 1.1 1.1 22.3	3.1 3.2 2.2 2.3 19.6	.9 <.5 .6 .7 23.2	62 81 113 113 88	.24 .21 .50 .50 .55	.063 .070 .128 .129 .096	9 9 11 10 20	20 38 86 86 169	.26 .69 1.80 1.78 .58	224 202 170 184 157	.010 .035 .137 .138 .084	7 11 10 10 25	1.26 1.60 2.06 2.05 1.75	.056 .074 .079 .080 .041	.21 .34 .70 .70 .16	1 1 1 15	<1 <1 <1 <1 1	5.4 6.0 7.7 7.7 4.4	<1 <1 <1 1 <1	.35 .46 .77 .77 .02	3 6 9 7	<.01 .01 .02 .01
STANDARD G-2	1.8	8	4	40	.1	7	4	510	1.93	<1	3	<2	4	76	<.2	<.5	<.5	58	.63	. 102	9	75	.56	241	.124	8	1.00	.117	.50	2	<1	2.5	1<	.01	4	•

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Sample type: ROCK. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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GEOCHEMICAL ANALYSIS CERTIFIC:	ATE
	Λ , \Lambda ,
Pacific Booker Inc. PROJECT MORRISON File # 10th Floor - Princess Bui, Vancouver BC V68 4W4 Submitted by	A003865 Page 1
SAMPLE# Mo Cu Pb Zn Ag Ni Co Mn Fe As U Au Th Sr Cd Sb Bi V Ca P La Cr Mg	g Ba Ti B Al Na K W Hg Sc Ti S Ga Au** Sample
Ppin ppin <th< td=""><td>* ppm * ppm * * * ppm ppm ppm * ppm gm/mt 1b</td></th<>	* ppm * ppm * * * ppm ppm ppm * ppm gm/mt 1b
TR-1-301 14.6 3359 14 92 2.0 52 20 494 2.15 199 1 22 256 1.0 4.1 4.5 51 90 008 7.62 2.31 TR-1-301 14.6 3359 14 92 2.0 52 20 494 3.15 49 1 2 37 5 1.6 <5.66 80 010 9 42 22 TR-1-302 77 8 2962 7 51 34 237 19 1 22 37 51 66 80 010 9 42 24 2	5 313 .005 4 .69 .009 .12 <1 <1 6.4 <1 .12 1 <.01 6.0 4 98 .008 3 .91 .030 .11 1 1 12.0 <1 .36 - 2 .09 7.0
TR-1-303 20.3 2770 8 103 8 79 24 359 3.12 13 3 < 2 4 5 < 5 5 101 111 1022 10 14 111 TR-1-303 20.3 2770 8 103 .8 79 24 359 3.12 13 3 < 2 4 95 .4 $< .5$ $< .5$ 108 1.83 .129 22 90 .46 TR-1-304 75.4 4554 5 137 1.5 127 237 4.32 12 3 < 2 4 45 4 < 5 < 5 108 1.83 .129 22 90 .46 TR-1-304 75.4 454 5 .5 137 1.5 61 27 237 4.32 12 3 < 2 4 4 5 < 5 5 14 69 143 23 27 13 14 14 14 14 14 14 14 16 14	1 300 .006 3 .86 .088 .23 1 <1 6.3 <1 .38 1 .12 6.0 9 487 .007 4 .87 .034 .05 1 <1 14.4 <1 .35 2 .10 6.0
TR-1-305 36.2 2442 6 73 .9 40 15 285 2.55 23 1 <2 2 31 .3 <.5 <.5 54 .39 .097 17 24 .27	7 356 .015 3 .99 .029 .24 1 <1 8.0 <1 44 2 08 7.0
TR-1-306 TR 122.4 3605 18 144 2.8 59 19 378 2.58 66 1 <2 2 4 .8 1.5 <.5 45 .64 .017 9 14 .21 TR-1-307 57.8 1993 8 74 .7 57 15 335 2.46 45 1 <2	1 238 .001 6 .82 .010 .18 <1 <1 9.6 <1 .38 1 .11 7.0 9 340 .004 5 .93 .032 .14 1 <1 9.7 <1 .21 2 .05 8.0
TR-1-308 23.1 1334 6 91 .8 96 28 526 4.84 81 3 <2 4 82 .4 1.8 <.5 139 1.30 .091 14 117 1.19 TR-1-309 20.9 2464 4 87 1.0 63 29 242 5.06 22 6 <2	9 238 .146 2 1.50 .047 .68 <1 1 14.7 3 .41 .6 .04 7.0 0 230 .245 4 2.89 .228 1.56 1 <1 13.2 2 1.00 13 .07 15.5
TR-1-310 7.8 718 9 59 .1 55 28 154 5.68 4 2 <2 5 65 <.2 <.5 131 .81 .173 21 92 1.99 TR-1-311 24.6 910 6 69 .3 52 28 223 5.35 55 2 <2	9 145 .280 3 2.38 .175 1.42 <1 <1 10.7 2 1.74 11 <.01 11.5 5 200 281 3 2 33 164 1 47 1 <1 10 7 1 1 23 15 02 11 0
TR-4-312 12.9 1767 3 60 .4 52 12 176 2.60 1 1 <2 5 40 <.2 <.5 116 48 126 16 90 1.72 TR-4-313 33.9 3837 9 107 .9 58 15 186 2.97 15 2 <2	$2 526 \cdot 267 < 1 \cdot 1.54 \cdot 1.21 \cdot 1.11 \cdot 1 < 1 \cdot 9.7 \cdot 1 \cdot 1.4 \cdot 6 \cdot .09 \cdot 11.0 \\ 3 281 \cdot 173 < 1 \cdot 1.18 \cdot 0.79 \cdot .72 \cdot 2 < 1 \cdot 10.5 \cdot 2 \cdot 52 \cdot 5 \cdot 13 \cdot 18 \cdot 0 \\ \end{array}$
$\frac{10^{-4-314}}{16}$	9 256 .073 6 1.34 .063 .42 1 <1 9.4 <1 .69 4 .10 13.0
IR-4-31 23.4 558 14 162 .5 37 8 452 2.24 80 1 <2 2 42 .7 3.7 <.5 52 .98 .052 6 39 .34 RE TR-4-315 22.7 525 14 162 .5 37 8 456 2.25 80 1 <2	4 441 .002 4 .64 .005 .08 1 <1 9.6 <1 .17 1 .01 3.0 4 442 .002 2 .63 .004 .08 1 <1 9.7 <1 .17 1 .02 -
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 132 .005 3 .94 .004 .08 1 1 10:2 -1 .25 2 .03 14.5 1 201 .001 1 .72 .006 .06 2 1 5.5 1 .35 1 .07 13.0
TR-7-319 1.3 705 8 54 .5 41 32 117 2.88 43 1 <2 1 77 .2 2.0 <.5 32 .20 .030 9 30 .11	$1 \frac{1}{2} $
TR-7-320 TR 5.1 1021 15 164 2.3 37 28 329 2.56 160 1 <2 1 16 1.2 1.8 <.5 34 .20 .039 10 15 .20 TR-7-321 5.4 1050 19 410 1.4 48 18 435 4.12 163 2 <2	0 134 .003 3 1.05 .034 .31 <1 <1 3.9 <1 .41 2 .03 12.0 3 248 .082 3 2.03 .071 .48 1 <1 7.7 <1 .66 9 .02 13.0
1R-7-322 6.7 2211 24 317 7.3 41 23 466 182 2 2 4 45 1.4 .5 <5	2 149 .051 4 1.29 .050 .40 <1 <1 6.7 <1 1.09 5 .03 12.5 2 113 .013 2 1.19 .066 .30 1 <1 6.1 1 1.28 3 <.01 7.0
TR-7-324 1.4 1316 22 114 2.8 60 89 417 5.30 246 1 <2 1 2 .5 <.5 7.6 .28 .095 7 38 .51 TR-6-325 28 5 46 1 -2 1 22 .5 <.5	$\frac{1}{7}$ $\frac{190}{200}$ $\frac{.050}{5}$ $\frac{5}{1.88}$ $\frac{.056}{.056}$ $\frac{.40}{1}$ $\frac{1}{.7.9}$ $\frac{1}{1.95}$ $\frac{.95}{6}$ $\frac{.01}{.01}$ $\frac{5.0}{.01}$
TR-6-326 12.1 1524 11 135 3.5 66 19 328 5.65 58 2 2 4 27 .3 <.5 1.1 109 .32 .129 18 80 1.57 TR-6-337 8.6 997 6 91 .9 43 27 25 4.99 7.3 4 <2	$7 310 .070 ext{ b} 1.78 .056 .39 2 < 1 6.6 < 1 .58 8 .05 8.09 159 .172 1 1.98 .075 .89 < 1 < 1 8.3 2 1.08 9 .05 11.03 160 206 3 1 95 075 1 21 -1 .0 2 < 1 24 10 .02 5 0$
TR-6-338 20.4 1066 7 284 1.8 70 88 575 4.98 731 3 <2 4 50 .9 <.5 <.5 121 1.12 .134 11 84 1.98	8 206 .089 5 2.02 .069 .42 <1 <1 9.0 <1 .59 9 .03 12.0
IR-6-339 4.9 696 6 83 .7 37 18 217 3.40 59 1 <2 2 23 .3 .5 <.5 65 .37 .060 9 51 .78 TR-6-340 4.0 1504 13 150 3.1 42 21 288 3.85 81 2 <2	8 201 .054 <1 1.40 .059 .52 1 <1 6.9 <1 .78 4 <.01 6.0 5 211 .117 <1 1.42 .054 .65 <1 <1 6.5 2 .76 6 .02 7.0
IR-6-341 5.6 1631 / 160 3.0 4/ 22 368 4.58 142 2 <2 4 32 .6 101 .60 .143 16 68 1.42 IR-6-342 4.4 604 4 58 .4 215 4.21 5 3 <2	2 263 .186 1 1.62 .081 .93 1 <1 8.8 1 .71 7 .07 7.5 1 300 .281 1 2.06 .105 1.49 <1 <1 10.9 2 .87 11 <.01 4.0
STANDARD C3/A0-1 27.7 67 34 167 5.5 38 13 819 3.44 59 24 2 22 30 23.5 17.4 23.9 83 .61 .097 21 182 .63 STANDARD G-2 1.5 5 3 45 \leq 1 7 4 557 2 05 \leq 1 3 \leq 2 5 78 \leq 2 \leq 5 \leq 5 42 68 105 10 82 \leq 5	3 163 .092 23 1.87 .041 .17 15 1 4.6 1 .03 7 3.51 -
GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR	
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PP	ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: ROCK R150 60C AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE. <u>Samples beginning</u>	TRE' are Reruns and 'RRE' are Reject Reruns.
SIGNED BY	
All results are considered the confidential property of the client. Acme assumes the liabilities for actu	ual cost of the analysis only. DataFA

Trench # TP 8

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Orientation/length 1

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Visual							Descriptive															Assays		
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<i>F</i> ¹						BFP	Play	14.87	9	2-3	Ŋ	3	2	77	-	-	2	-	0	- Henry the OX., Thede				
+ + + +	ſ	10-1 FA	s-RA!	Ĕ	8-9	NU.	BrP	K.	14 14. 38	9	1	2	4.	ω	<1	-	-	1-2	-	3	-Moot of Decin Water Saturated - In & out of K4 Phy alt of BFF W/T su content - Cp on Fract's	TR-8- 135		
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40	ક્ય	+ + + + + + +	2 2 2 2 1 2	210 595 255 710 194 230	90 74 85 85 87 84 74 82	BFe	K	1+- màm gY	7. 8	I	_	4 S	N	~1	-	7	1.5	34	- 5	Break in trenching to 58.5m	7R-6 138	

Page ju 3

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Trench # 2000 7×8 Orientation/length E - W

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Location	\$ Zone	

		Visual	·····			Descr	iptive	7								<u></u>					Assays		
From	To m	ROCK	FRACT strike	e dip	VEINS	Lithol	Alt'n	Color	Hard	Weath	Mag	Verviet %	a	Cp %	Bh %	Mai	Py ¥	Са/ Сь %	Bio %	Description	Sample No.	Cu %	Au g/1
583	70	$\begin{array}{c} + \\ + \\ + \\ + \\ + \\ + \\ + \\ + \\ + \\ + $	24090 26590 15048 15061			BFP	Ki wkome Phy	, mam 5' γ	7	1	2	15	WK loc.	¢.5		≁ ₽.	1.5 2	<1	3 - 4	PYTER (d ? small blobs Nicely fract d	TR-8 139		
	-	+ + chl, + +	215 82 250 82																	good spinit. Mal Q dy m. Hund lothers loc.			
70	85	╊ ╊ ╊ ╋	34 150 34 090	60 60 107		BPT	ĸ	mon J'1	5.8	ł	\$2	45	wK.	•7- 	-	tr.	15	2. 3	3. 4	the alto slightly more pervasive.	140		
		`++ +- ₩	130 245 285	70 90 2 80			-													n as marked as DH. b-t cont see it in brack till as	, ,		
95	106	+- + + +	310 230 30 286 330	40 60 75 80 75	E fuire of the	BFP	K.	man 91y	6- B	1 - 1 . 1	ж. м	ي.	42	~1 01 21	-	tr.	1- 1.5	3	4. 5	106-150- deep olb. Not trenched.	141 141		
	-	+ + + +	68 014	70, 90																			
150	155		2% 300	90 90	1	zst	s }	mctr 914	7- 9	0.5	Μ	5	-	1 - 13	-	tr 1000	2	1-2		2 st 150-152 BFr 152-155	78B 142		
		+_+	524 244	84 90		вер	ĸ	ndk. ndin Jry	Ø	0.2 0.2	2	25	_	1.5	102	₩.	رح	2	2r 3	Cp. on fract into in gobs. Tr. bor V. h.ord - ferr fractures	17		
135	160	₽ ₽ ₽	324d 300	10		694	ĸ	non 54	8- व	0.5	¥	5- 10 8:11	1	1.5	-	10W	S	١	1	Aburant secondary bio.	128		
	159~	shere control 	fre	ťs.	y sn	351	ĸ	11	8	∡.٢	1	° f				1014	د •5	۲)	-	hold = 500 V. Well min 7. Hould St. 119557 to			

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Trench # TR-BOrientation/length E-W

Location

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Page S of 3

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	_	Visual				Descr	lptive														Assays		
From	To m	ROCK	FRACT stre	ie dip	VEINS	Lithoi	Alt'n	Color	Hard	Weath	Mag	Versiet %	a	Cp ¥	8n %	Mai	Py ¥	C∎/ Cb	8io *	Description	Sample No.	Cu %	Au gri
160	1- <u>10</u>		 	57 55		251	ĸ	d e nom 54	8- 9	.s- 1	₩- 171	5.	-	١		- †¥ .	ł	~	-	Sillrens harn felsed . Vey hird vock . Optpy on fractures .	TR.8. 144		
		- - ++				BFP	ĸ	ndm Jry	8∙	1-2	1	5		4		-	<1	1.2	2	some sandy creas			
970	150	+++++++++++++++++++++++++++++++++++++++	2 K 164 176 201) 5∨ 5 × 72 > √	- numery	BrP	K	3'Y	7	•5	Σ	45		41		κų	يىس	4	2	Much more fract d Then provide ly. Lots of . f.g. bid Some oreas will salt & pepper tot.	7XE- 145		
<u>180</u>	190	+ + + + + + +	010 314	70 80	numpuus.	BFP.	ĸ	ndr J'Y	7- 8	0.5	ώΣ	5	1	/	-	iani no	15	5	3	Still fractid Lose stp txt. back to typical K BPP. Epipy on fracts. Minu herm	η2.8. 146		
190	200	+ + + + + + +	343	60		BFP	2	22.24	7-0	ù	39	5	. 1	~1	-	*	05 1	2-3	3.	Txt prrt. 061 to stp. Txt locally still abound 2 namy bio.	788 147		
200	2 %	+ + + + + + + +	70 324 258 56 70	70 55 40 78 85 70		BAP	ĸ	non. dx yy	ષ્ટ	·s - 1.5	5	5	_	·2 ?	-	ままれに しってい	•2	l - z -	3 . 4	A fri oxid. suft stonge BAP Aburd. 2nd bio (20117) @ 2060 casin	тк8 14 <u>8</u>	-	
	Tre	uen Jo	10) (0 00	A @	ZK	\sim													from -Noranden righted			

	II LY	T1	Acci	adi	h	DR d C	:0.	LT	e.		ſ)	2	7	Y	NG		F.		50	v.	Z			1Rē) p	7	X	50'	13	- X		PA)	6) :):	2()71	6[
1	4						• • •		B,		et.	GI Ti	500	HP: T	MI	CA		ANA MO	LY:	BIS FCC	C] M	SRT Ti	IF.	IC2 #	ATE	0.0.			Tie										
									10	th F	loor	- P	rin	:ess	Bui	, V	anco	Ner	BC \	/68 4		F 1 Subi	nitt	ed t	ну: G	orda	ст./ n We	агу	ra	ıge	1								
	SAMPLE#		Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Со ррп	Mn ppm	Fe X	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	B1 ppr	V ppm	Ca %	P \$	La ppm	Cr ppm	Mg X	Ba ppm	Ti %	В ррт	A1 ئ	Na X	K Xa	W ppm p	Hg opm	Sc ppm	T1 ppm	S ¥	Ga ppm g	Au** m/mt	
	TR-8-134 TR-8-135 TR-8-136 TR-8-137 TR-8-138)	55.3 45.8 31.3 43.6 30.0	2406 4299 2606 3895 2147	13 145 42 5 5	95 556 215 63 54	1.0 4.7 1.7 .8 .8	62 75 56 51 45	19 20 30 21 16	354 9 288 9 306 4 169 3 182 3	5.23 5.10 4.27 3.57 3.71	65 141 48 2 1	5 4 1 <1 <1	~~~~~~	14 8 7 11 8	17 44 39 40 37	.3 2.7 .6 .3 <.2	.9 6.7 .5 <.5 .7	<.5 .7 .5 .5 <.5	109 99 95 121 125	39 1.30 56 64 67	.159 .137 .105 .127 .136	29 11 9 23 16	78 78 58 76 87	.20 1.11 1.05 1.83 2.05	58 30 57 124 260	.014 .106 .135 .195 .257	3 1 6 1 8 1 7 1 4 1	.00 .28 .13 .69 .83	.012 .046 .049 .074 .103	. 11 . 45 . 70 . 87 . 87	1 1 1 2	<1 1 <1 <1 <1 <1	2.5 9.0 8.5 9.6 8.0	<1 <1 1 2 1	.36 1.64 1.26 .81 .57	2 4 3 7 7	.08 .20 .08 .10 .06	
	TR-8-139 TR-8-140 TR-8-141 TR-8-142 TR-8-143		22.1 38.0 69.5 10.8 3.6	2468 2230 1891 3664 4979	7 7 5 3	54 99 65 55 63	.8 .7 .6 .7 .9	47 51 53 68 64	10 18 11 10 10	165 (312 (168 (182 (197 (2.89 3.65 2.92 3.17 3.26	1 4 1 1 <1	<1 <1 <1 <1 <1	<2 <2 <2 <2 <2 <2 <2 <2	8 9 9 11	28 46 36 264 60	<.2 .4 <.2 <.2 <.2	<.5 <,5 <.5 .6 <.5	<.5 <.5 <.5 <.5 1.1	127 115 109 123 108	.37 .88 .49 .40 .68	.121 .131 .147 .078 .096	8 11 10 12 14	96 75 96 94 51	2.09 1.73 1.74 1.39 1.54	395 114 431 412 414	. 296 . 218 . 269 . 261 . 291	5 1 6 1 2 1 4 1 3 1	L.84 L.54 L.47 L.40 L.39	.091 .085 .099 .104 .104	1.02 .77 .82 .88 1.00	1 2 1 2 2	<1 <1 <1 <1 1 <1 1	8.7 8.4 6.2 0.8	2 <1 2 1	.25 .76 .17 .25 .38	8 7 5 5	.10 .05 .09 .17 .25	
	TR-8-144 TR-8-145 TR-8-146 TR-8-147 TR-8-148		28.5 2.1 2.3 2.0 1.6	2322 417 1458 2165 1547	3 4 3 3 3	52 55 60 72 60	1.0 .3 .5 1.2 .5	58 37 41 41 38	7 10 11 11 11	311 2 234 2 241 2 284 2 295 2	2.74 3.39 3.90 4.24 3.40	2 2 1 3 2	<1 <1 <1 <1 <1 <1	~2 ~2 ~2 ~2 ~2 ~2 ~2 ~2 ~2 ~2 ~2 ~2 ~2 ~	10 11 9 9 11	28 28 36 51 36	<.2 <.2 <.2 <.2 <.2	<.5 <.5 <.5 <.5	<.5 <.5 <.5 <.5	106 103 109 114 107	.43 .45 .45 .69 .46	.034 .126 .123 .129 .132	13 12 14 14 18	108 74 79 83 74	.86 1.52 1.66 1.58 1.25	349 317 441 530 450	.142 .206 .235 .216 .230	5 3] 3] 4] 4]	.98 1.30 1.42 1.34 1.28	.076 .071 .084 .071 .081	.53 .60 .77 .68 .71	1 1 2 1 2	<]] <] <] <] <]	1.8 4.5 5.8 6.0 6.1	<1 2 2 1 1	.35 .03 .08 .30 .07	5 6 6 5	.09 .03 .07 .12 .07	
	RE TR-8-148 TR-10-149 TR-10-150 TR-10-151 TR-10-152		1.6 29.3 402.6 3.9 20.0	1548 1349 1382 465 1884	3 89 11 4 7	61 550 98 48 65	.6 2.6 .9 .3 1.9	38 61 41 30 72	11 8 19 10 21	300 179 217 159 217	3.53 3.04 3.22 3.64 3.78	4 64 18 1 10	<1 <1 <1 <1 <1 <1	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	12 5 5 10 11	37 17 66 19 23	<.2 1.9 .4 <.2 .2	<.5 2.3 1.9 <.5 <.5	<.5 .8 <.5 <.5	109 27 60 78 121	47 06 24 26 .37	.130 .044 .091 .115 .102	18 6 5 13 15	74 35 43 61 94	1.27 .09 .40 1.63 1.97	445 211 74 338 302	.233 .003 .032 .038 .090	3 1 6 1 1 4 2	. <u>30</u> . 58 . 96 . 86 2. 22	.082 .019 .031 .045 .067	.72 .23 .33 .22 .52	2 2 2 1 2	< <u>1</u> <1 <1 <1 <1	<u>6.2</u> 3.5 6.3 4.7 8.8	1 <1 <1 1	.06 .74 .79 .41 .48	4 <1 2 8 8	.07 .10 .05 .03 .07	
	TR-10-153 TR-10-154 TR-10-155 TR-10-156 TR-10-157		68.7 71.2 73.5 155.7 166.0	3471 3005 2497 2511 4476	8 18 15 9 14	83 188 161 159 196	1.8 1.2 1.1 1.3 3.1	76 109 100 78 100	18 20 23 17 9	193 222 460 303 269	3.14 2.60 2.73 3.38 2.33	5 18 92 13 5	<1 <1 <1 <1 <1	<2 <2 <2 <2 <2 <2 <2 <2	9 7 7 10 7	20 32 27 55 35	.3 1.3 .7 .6 .7	<,5 ,9 2.6 ,8 1.1	<.5 1.1 .8 <,5 1.1	115 .62 48 92 57	. 21 . 39 . 48 . 94 . 50	.080 .041 .029 .085 .012	10 13 12 16 9	105 72 58 85 66	1.74 .72 .30 .93 .46	327 258 233 211 211	.115 .048 .004 .063 .004	4 1 5 1 3 4 1 2	L.97 L.25 .80 L.10 .55	.071 .058 .019 .073 .049	.66 .55 .26 .45 .20	1 <1 1 1	<1 <1 <1 <1	9.1 6.7 6.1 9.6 7.6	1 <1 <1 <1	.48 .67 .63 .73 .44	7 4 1 4 2	. 11 . 06 . 04 . 06 . 10	
	TR-10-158 RD-4-159 RO-4-160 RD-4-161 RD-4-162		87.8 3.2 2.2 2.5 7.5	2887 3608 1796 757 4212	12 3 2 9 8	150 478 142 171 52	2.4 3.0 3.3 .5 1.3	86 72 49 63 59	13 10 11 14 8	378 603 595 796 190	3.09 4.66 4.55 3.89 2.06	16 5 6 44 45	<1 3 2 2 <1	<2 <2 <2 <2 <2 <2 <2 <2	10 8 9 5 5	30 80 39 46 35	.6 1.6 <.2 .5 <.2	<.5 1.1 <.5 2.3 1.3	.9 1.2 <.5 <.5 1.1	85 98 94 85 47	.34 1.47 .79 .57 .59	.068 .110 .115 .041 .026	14 19 14 6 7	81 103 80 60 78	.72 1.59 1.61 .19 .18	336 241 505 120 264	.056 .104 .117 .003 .004	4 1 4 1 3 1 1 <1	L.24 L.44 L.73 .64 .64	.045 .045 .053 .004 .009	.42 .50 .45 .03 .09	1 2 1 2	<1 <1 <1 2 1 <1	9.6 9.9 7.8 0.4 7.6	<1 <1 1 3 <1	.36 .45 .31 .29 .36	4 5 7 <1 2	.07 .13 .05 <.01 .13	
	RD-4-163 RD-4-164 RD-4-165 RD-4-166 STANDARD C3/	AU-1	6.5 3.0 6.9 9.0 28.3	6923 3398 3359 1670 68	5 4 7 38	84 94 61 68 170	2.1 .9 .8 .7 5.7	63 57 57 39 36	11 10 8 11 10	313 207 245 448 797	2.80 2.89 2.37 3.01 3.40	14 1 7 5 60	<1 <1 <1 1 26	<2 <2 <2 <2 <2 <2 <2 <2 <2	7 9 7 11 26	50 39 58 32 29	<.2 <.2 .2 .4 23.8	1.3 <.5 .8 .7 16.3	1.5 <.5 .9 <.5 23.0	68 107 79 67 82	.91 .36 .75 .19 .54	.088 .124 .057 .082 .096	9 15 9 19 18	95 91 107 49 172	.83 1.61 .79 .50 .62	158 319 527 535 165	.090 .179 .107 .072 .090	1 1 1 3 22 1	.92 1.69 .89 1.10 1.94	.034 .077 .043 .039 .039	.47 .69 .44 .38 .18	2 2 2 1 14	<1 <1 <1 <1 1	7.6 7.8 8.7 6.7 4.5	<1 1 1 <1 2	.59 .13 .26 .07 .02	3 7 3 3 7	.23 .25 .11 .03 3.50	
İ	STANDARD G-2	2	1.7	3	3	45	<.1	7	2	553	2.08	<1	2	<2	7	73	<.2	<.5	<.5	44	. 65	. 097	ß	71	. 62	226	.134	5 1	1.00	.076	. 50	2	<1	2.6	3 -	<.01	4	-	
נס	ATE RECEI	GROUP UPPER ASSAY - SAM VED 1	1DX LIMI RECC PLE T JU	- 0. TS - MMEN YPE:	50 G AG, DED ROC 200	im s , au , for ;k 10	AMPL , HC ROC DA	.E LI 3, W :K AI 1.U** TB	EACH = 14 ND C BY REE	ED W 00 PI DRE S FIRE	ITH : PM; SAMP ASS C MJ	3 NL MO, LES AY F AIL	2-7 CO, IF (ROM	2-2 CD, CD, 1 A	HCL- SB, B ZH .T.	HNO BI I AS SAM	3-H20 , TH > 1: PLE. <i>19</i>) AT , U 8 X, AI <u>Sar</u>	95 C k B = G > 2 moles	DEG. = 2,0 \$0 PP <u>= beg</u> SIG	C FO 100 P 14 & 11nni	R ONI PM; (AU > ng ' BY		UR, PB, O PF ary	DILU ZN, B Reru	ITED NI, Ins a	TO 11 MN, 7 <u>and 41</u> D. T	D ML, AS, V <u>RRE</u> OYE,	AN/ /, L/ <u>are</u> C.L	ALYSE A, CR <u>Reje</u> EONG,	D BY = 10 <u>ect Re</u>	OPTI 0,000 eruns WANG;	MA) PP ; CE	ICP-I M. RTIF	ES.	B.C.	ASS	AYERS	ł
AL	l results ar	e con	sider	ed t	he c	onf	íder	itia	l pro	per	ty o	fth	e cl	() .ient	t. A	 .cme	1228	mes	the	lfab	lit	ies (for	ectu	al c	ost	of ti	ne an	aly	sis a	nly.					Dat	<u>.</u>	FA	

CMK .	ANL	YTIC	AL .	LAB	URAT	CALS'S	Tru	- 1997 - 1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
Sec. 1	TOA	0007	1.2		33 ° C -	a - a	- S. G. G.	

Pacific Booker Inc. PROJECT MORRISON File # A002217R 10th Floor · Princess Bul, Vancouver BC V68 4W4 Submitted by: Gordon Weary



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SAMPLE#	Cu *
TR-8-143	.475
RD-4-163	.692
RD-4-170	.470
RE RD-4-170	.471

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES. - SAMPLE TYPE: ROCK PULP Samples beginning 'RE' are Rejust and 'RRE' are Reject Reruns.

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data

ARE ANUTICAL		Pacific Booke	r Inc. PR	ROJECT MORRISC	ON FILE # A003865	Page 2	ACHE ANULTTICAL
SAMPLE#	Mo Cu Pb Zn pore pore pore pore	Ag Ni Co Min Fe As	U Au Th Sr monomonomo	Cd Sb Bi V Ca	P La Cr Mg Ba Ti B A	1 Na K W Hg Sc T1 S Ga /	Au** Sample
<u>_</u>	bhu bhu bhu bhu	the the the the she the	a hha ha ha h	opin ppin ppin ppin a	s ppin ppin is ppin is ppin	 * * * bhu bhu bhu bhu a 	
TR-8-343 TR-8-344 TR-8-345 TR-8-345	1.8 615 22 133 5.3 720 10 121 2.6 1557 46 366	.7 41 21 235 3.18 169 .7 36 14 349 3.76 88 2.7 27 149 372 2.40 920 2 32 16 352 4 59 60	$\begin{array}{cccccccccccccccccccccccccccccccccccc$.2 1.1 <.5 56 .14 .0 <.2 <.5 <.5 69 .99 .0 1.5 1.8 1.1 35 .77 .0 2 -6 -6 -6 -7 .7	33 11 24 .29 223 .012 4 1.1 73 10 27 .74 208 .015 6 1.5 78 8 10 .40 217 .002 5 1.2 78 8 10 .40 217 .002 5 1.2	6,049,29,1 <1 6.1 1,24 3 < 8,078,26 <1 <1 8.1 <1 ,47 <u>6</u> 1,092,34,1 <1 3.5 <1 ,46 <u>3</u>	<.01 15.0 <.01 11.0 .05 0.0
TR-8-340 TR 8	3.7 1463 20 271	2.2 45 37 419 5.67 329	2 <2 3 19	.9 3.5 .8 76 .46 .1	30 11 37 .14 121 .002 2 .7 ⁴	9<.001 .07 1 1 8.5 1 1.22 <u>.</u> 2	01 12.0 .01 7.0
TR-8-348 TR-8-349	1.9 271 9 118 1.3 339 20 119	.2 23 10 255 2.75 88 .3 25 15 367 4.12 69	1 <2 2 20 1 <2 2 55 <	.5 1.2 <.5 69 .40 .0 <.2 .8 .5 66 .63 .0	78 11 26 .44 270 .014 5 1.2. 89 15 41 .91 194 .032 <u>6 1.6</u>	2 .011 .25 <1 <1 8.9 <1 .26 4 5 .104 .45 <1 <1 6.0 1 .75 5	.02 13.0 .01 15.0
GRD-350	21.0 1364 16 77	.9 62 28 403 4.35 68	1 <2 2 49 <	<.2 1.8 <.5 67 .98 .1	36 10 44 .23 226 .004 5 1.0	4 .002 .15 1 2 9.5 <1 46 2	.05 14.5
GRD-351	8.6 565 4 33	.3 39 19 257 3.59 17	1 <2 2 24 <	<.2 2.0 <.5 50 .10 .0	25 10 20 .11 207 .003 4 .9	0.017.16 <1 <1 6.5 1.41 2	.02 18.0
ST-1-352	137.4 3056 8 103	1.1 88 40 380 4.99 144	2 <2 4 31	.2 .6 <.5 99 1.08 .1	26 19 59 .29 170 .002 4 .9	1.012 .10 <1 <1 13.2 1 .54 2. ج	.09 5.0
ST-2-353	68.2 1750 7 74	.6 100 72 298 7.55 43	2 <2 6 42 <	<.2 <.5 <.5 104 1.09 .1	59 20 69 .30 112 .004 2 .8	5<.001 .03 1 1 13.7 3 1.26 3	.01 5.0
ST-3-354	18.3 2054 7 90	1.5 71 28 260 4.08 65	1 <2 3 77 <	<.2 <.5 .5 74 .77 .0	89 14 53 .88 160 .069 4 2.0	1 .174 .54 <1 <1 8.4 <1 1.08 5 .	.06 5.5
ST-4-355	5.0 823 7 67	.3 54 29 229 5.62 24	2 <2 6 70 <	<.2 <.5 < <i>.</i> 5 138 .91 .1	54 18 92 2.22 194 .303 3 2.4	0.155 1.50 2 <1 10.5 1 1.14 9	.01 1.5
RE ST-4-355	4.6 804 8 67	.3 53 30 222 5.48 27	2 < 2 6 68 <	<.2 <.5 <.5 135 .89 .1	56 18 93 2.16 192 .295 2 2.3	3 .152 1.47 2 <1 10.2 1 1.15 9 -	<.01 -
GRD-TR-1-356	13.8 607 6 50	.2 40 18 178 2.71 45	2 <2 4 66 <	<.2 <.5 <.5 73 1.17 .0	78 16 59 1.29 319 .148 6 1.7	1.079.92 <1 <1 7.0 1.36 6	.02 7.0
GRD-TR-3-357	1.3 331 3 29	.1 34 17 374 5.03 5	1 <2 2 20 <	<.2 <.5 <.5 104 .14 .0	40 13 35 .52 167 .054 3 1.9	5.045.21 1 <1 7.9 1 .43 5 /	<.01 3.0
GRD-TR-2-358	40.0 3196 6 64	1.0 66 32 283 3.72 14	1 <2 2 15 <	<.2 .5 <.5 54 .09 .0	20 10 21 .18 188 .033 3 1.0	4 .035 .26 1 <1 7.1 <1 .91 2	.08 7.0
GRD-TR-1-359	4.6 308 3 29	.1 22 12 374 2.74 13	1 <2 2 38 <	<.2 <.5 <.5 29 .39 .0	54 13 27 .47 223 .022 5 1.2	9.093.42 1 <1 2.5 <1 .21 3 /	<.01 6.5
STANDARD C3/AU-1	26.6 68 34 167	5.3 36 12 791 3.35 56 2	3 2 22 28 21	1.9 15.8 22.6 80 .59 .0	92 21 176 .61 157 .092 22 1.8	4 .036 .16 15 1 4.5 1 .03 6 3	3.69 -
STANDARD G-2	15 3 3 44	<.1 7 4 559 2.06 <1	3 <2 4 72 <	<.2 <.5 <.5 42 .67 .1	00 11 79 .63 233 .145 3 .9	7.078.48 2 <1 2.7 1 <.01 4 -	<.01 -

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Sample type: ROCK R150_60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

ACM___HALY__AL_I _KAT(B I (ISO 9002 Accredited Co.) S L. . B. **J**IIK 3T 💭 COU BC , IR 144 8(6(53-7 19:24 んよた ASSAY CERTIFICATE Pacific Booker Inc. PROJECT MORRISON File # A002217R 10th Floor - Princess Bui, Vancouver BC V68 4W4 Submitted by: Gordon Weary SAMPLE# Cų TR-8-143 .475 RD-4-163 .692 .470 RD-4-170 RE RD-4-170 .471 GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES. - SAMPLE TYPE: ROCK PULP Samples beginning 'RE' are Reruns and 'RRE! are Reject Reruns. JUL 20 2000 DATE REPORT MAILED: (July 24/00 SIGNED BY ... DATE RECEIVED: j. 51

Data

FA

Trench # TR-9 /9AF 15, 2000 Gw, EO. Orientation/length E-W

Location - 12 m W & DH-8, S. Zome (3288N, 3820E - 3272N- 3610E)

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		Visua	,	7.0 1:	>			Descri	ptive		¥°	ala 10	910	5 500	le -								Assays		
From m	To m	RÒ	ск	FRACT	strike	dip	VEINS	Lithol	All'n	Color	Hard	Weath	Mag	Verviel	СІ	Ср %	Bn %	Mai	₽у ⁽ %	C∎/ Cb %	Bio *	Description	Sample No.	Çu %	A⊔ g/t
0 2 . 4 . 4 3	1		bokod ZSt.		262 253 356 240 290 330 40 310	8999999999	ψ.	zst	baked (hfsd?)	Pale 97 to wif	ی ښا	2-3 6ny 01 501		45	-		-		2-3	1	-	Not gri Very inboliey & field Quite good exposive but booken up Py on first & Villets. Some on fractics but mainly 1g. fract-Vert Hard to break	TR-9 102 chip somply.	.02	0.02
	0				190 Bo	96) 45	/pi	zet	boked	pole 54 to butf	67			25	V	-	-	-	ಬ ಕರ್ಮ	-	-	slightly horder a w/ gobs f vns of py. almost cont chip sample. No su. (exc. py).	7K-9 102 (conta)	.02	0.02
- 24			BFP ZET		80	ar		BFP	K VK STI. Phyl	ax. 97 1+ 97 1+ 57	7-	2 (sulf.) Z	W.	45	2 2	-			3- 4	41	2	BFPQ-22.00 Looke V. sim. to top of MO-6. Py up to 5/: blebs ! fract.smeals mainly BFP bet some est(eould be Oherty). @27m. q. ser. altin-	TR-9 103	.05	(a,0
38			BLL		30			BFP	Stranc Rhyl, Chi-	biat Sat Siat	3	. 2	-	- 5					41	23		WI COOISAY d. py C VINETS. Pour typ 2126 (Fuddles) @~26. V- Strong ly Clay-ser. altid still competent but Suft. py VNS my unstatt	TR-9 103 Conid	.05	9.01
μ μ	5	+ + - - - - - - - - - -	zst					zst	bakrd (nnei	pale gr)	F Y. lo	2	-	- 23	5 N 4. W				2			to~ +30 @43.0 - baked zst w/ sl. Inc. in q. vnin Coare py in vniets Inc. in sw fiecturest Vning	T≖-9 104)	601	2.01

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Trencl	h #1	14-	9

Trench # TTR-9 Orientation/length E = W

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Location Puddle to old to 79 m.

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			Visua	a!		<i>.</i>			Descr	ptive														Assays		
	From , m	To m	RC	оск	FRACT	strike	¢ip	VEINS	Lithol	Alt'n	Color	Hard	Weath	Mag	Ven 4el	а	Ср %	Bn %	Mai	Py %	Ca/ Cb %	Bio %	Description	Sample No.	Çu %	Au g/t
9		*		Rulle	X	882	65.4		zst	baked Ol	14. 97	7	2 - suir. oni7	И	25	.	-	-	-	3- 4	t 7.	-	-Sim. to prev. 25 Heavily fractid.	† тед 105	.24	•16
			- + +		X	0	85~		BFP	rrg.	33	7-8	2	Ч	<3 ⁷	1	3,>	-	++.	4	++.	1-2	d CP Wis BEP			
	90		 + +		X	250 713	85-1 801																-acc. lq. then bi	, <i>D</i> , , /S		
ł	92	, ,	+ 	-interne Flact/	لأنابينك			real (real (real) and in the	ZST	bat	1+ - gy	7-8	1	N	5	-	-	-	-	N	-	-	- Sim to phow 25 - bless of Park Pa	TR-9	.05	.02
ļ			- - -	theath this art	-	1					(b.A. 11-83)													106		
ŀ	100				***	110 80	65 s 90 90																			
ĺ			-		\mathbf{X}	80 54	65 70																	TR-9		.08
			- - -			204	24																- U.F.g. 5.5 , tot ab	ue. 107		
	<u>123</u>			- glad. Contret 7		250	40.		55	lbak (mita (s)	lt-gy (wh)	8-1)	2	<1	-	-	-	-	1	-	-	- bleached When , s - occ. the Pey Unix	silic.		
						245	80+										†			Ī				TR-9		2
	ия		+						<i>фв</i> гг	Pla	v.et 3	9-10	1	N	c.5		 	-	-	K.5	-	3	bold & , text of	Lit. 108	.01	
	F4 6 -		- - -						Zst	bak	4.84	7	1	N	-	-	-	-	-	2	-	-	- Sin to prov. 257 - Tay Un Sta & Flact's			
	120		-		× A+	200 310 70 250	60 68 54 54								 		<u> </u>	┨──	$\left \right $			╞				╞
			-						Zst	(15	18001													109	.03	o.a
			 -			200	8.																			
1	130		-			250	701 40						<u> </u>		<u> </u>											

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Trench	#	TR-9	l
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[Visual				· · · · ·	Descri	ptive			·	•										Assays		
	From m	To M	ROCK	FRACT	strike (dip \	veins	Lithol	Alt'n	Color	Hard	Weath	Мар	Veniet %	G	Ср %	Bn %	Маі	Py %	Са/ СЬ %	Bio *	Description	Sample No.	Cu %	Au gr
130	B X		 ++ +					BF1	PLy (x)	1+ \$k.gq	7-8)	N- t	2-3	-	-	-	- 4	3-44	1	4-5		TR-9	,12	0.02
	140		+ + + +	1	274 8	0		6)e A	204-C			Α,	e boo	×	<.5		A	-	o v •		* Contract W/ Minetalion Biphying, Minet Cp			
ζ		P	OPPLE	- 19	0	son	CROP				-														
Ś	165		+', Fe OX								1														
			+ , + + ,		10 0	70 70	· * ·	BEP,	-K	11 33	9	1	لم ا	3-4	トス	1	-	-	3	-	4-5	- Kaltid 8FP w/ 7 Py Grade inc/@162.	7R-9	.32	.12
	175		+++++++++++++++++++++++++++++++++++++++	4	1200 190	90		BFP	х ~/сн1	ginis 9y	*	·1		2	м- S	1+	_	162 maj 646	3- 4	ŧ۲.	1.	Minore.cp. Blebs f. f.d. p.) alsomicroundts.			
			-+ + + +		190 278	90 74		BF+	K Klai	dik. ay	- 0	1-2	M- 5	2	чк m- 5	.3	-		2-3	0	3	Strong mal Star @ 166 m @ 167 wk chi. , 168 mod. st. Txt is akt	4- 9 NZ	.24	.13
			+ + +		340 105 105 106 196	72 90 55 80	1	BFP	k	V. dxy	146	1	wK	2-3	2.37	.4	6	-	4	•5	02	loc. obl. w/ 2n. bio. by smears un fract eu. fy & bicks. Hem+ cl. altin @ 172.			
	102		+		220 108 90	90 82 90		BEG	K	11	8	١		2.3	wĸ	.7 .3	Ð	1010	4	.5	Z	Grade in @ 175 mbut is not consistent txt. oblt -ab Py Hem specks Txt	+r.9 113	-11	J.07
			+- + +- +		016	90 90		BFP	prop.	Líd WD.	<u>3</u> -4	2			0	 tr	-	-			0	Hessobilt i tess 2" bit C 190m B 194- Clay garae May - proe- phyli			

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Orientation/length E->W

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		Visual					Descri	ptive													 	Assays		
From m	To m	ROCK	FRACT	strike	đip	VEINS	Lithol	Att'n	Color	Hard	Weath	Mag	Verniet %	CI	Cp %	Bn %	Mal	Py %	Ca/ Cb %	Bio *	Description	Sample No.	Cu %	Au g/t
195		+						рщ1- (p~e)	97- Ь.(f	4	1.2		1-2-	-	? .	٥	0	3.	`	-1	cont of g-series when in units.	tr 9 114	•14	1.0
200	•	+ + +					BFP	ĸ	ak Sy		21		0	wK. Mod	.2	o	0	3		2	Harvilyox - smpl upper mot (thrown out). some as prev. BFP.			
 209		+		<u> </u>			<u> </u>													-	a) 206. minur a. (+-			
								Ē	2	 .	T										208 m Big Puddle.			ľ
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Assays

		Visual	ະ ພັ	- C				ł	Descri	ptive			0.5							_						
From	To m	ROCK	FRA	ств	trike	dip	VEINS	;	Lithol	Alt'n	Color	Hard	Weath	Mag	VerHet Th	a	Ср %	Bn %	Mai	Py %	Ca/ Cb %	Эю *	Description	Sample No.	Cu %	Au g⁄t
250	260	+ + + +	2	Nor Mer	- p.	5 <i>5</i> 5	. To) अन)	BFP	Phy	16. 34	8- 9	4	ž ž	57	213	0	0	7 H.	31	П.	4	~ 263. Prop(ch)) sein - te OX, poolly Competent (Note: bother of Them Wet, mapped habble) - Th. Py Flactio	те «- 115.	0. 9 8	0.04
260	270	~+- K ++- K +++ ++ ++	22		190 310 120 170 130	90 75 90 70 85			ßff	k	1k. 99	7- 8	2-3	2	5- 8	¥	k]	2.7	, Tł	λ	0	3- ¥	- Slight inc. in Cp no diso. blos Q269- 40 cm the. Zeno? propation BFP.	TR-9 116	.25	. ₀ 9
276	288	+- + + +-+ +-+			270 270 340	80 80			Brf + zst zsp	Prop TC4 Sili balad Sil	bid ten. salt	4- 8 7-8 8	3 4 2-3 1-2		1.5	2:3 1	<) I		-tr- 1011	2-33) 2		1	- less flactid py+hem on factis sittston lice wike sh Uning - lies on N. hal of Donch. 270-274 274-280 tot well pres fiel	TR-9 , 117	.28	.23
280	290	+ + + + + + + +			230 230 30° 45 286 230 205 80	85 82 90 90 75 40 85		φη.	BrP.	K	dik gr to mom gry	7.9	1-2		کج		۲- ۱-		low	3	₩ .	4	Txt v. well preserved 5:1. hbl. lattes (ozbi 3-41. py- on fractur-sy Jobs + Maches Ab. f.g. bio. 2286. A in malier Cz88 A cprok K upto 1 51.) TR-9 118	. 61	, 17
290	300	+-+ + + + + + +	L 01	γ.	255 305 280 280 280 290 290 290	80 80 90 45 70 55	5		Зғр	K	ok 31. Wor 27	7	1-2	~	45	-	1.5	5	*	2	*	3.4	Py in masses op f.d Numerous provision fracts A few H mdm gu Src ns	TP9 119	.46	.13

— —		Visual					Descr	lptive						·							<u>, , , , , , , , , , , , , , , , , , , </u>	Assays		
From m	To M	ROCK	FRACT	strike	dip	VEIN5	Lithol	Alt'n	Color	Harð	Weath	Mag	Versiet %	СІ	Cp %	Bn %	Məl	Py %	Ca/ Co %	Bio	Description	Sample No.	Cu %	An ôu
360	αıε	+ + + + + + + + +		292 310 305 185 285 100 120 123 285	89 90 55 90 50 50 50 50 50 50	105 B1	BFP Hd	K. Lo. Mild Prop- Proy-	DK 91	6- 7)- 1.5	-	5-7	2 7 00		-	4	2725		3	Txt mod to well preserved. Py > cp = v. f.d. Comp. rock. on ly ls. blocky frags	T72-9- 120.	,33	<i>,</i> 08
310	820	+ + + + + + + +		46 170 290 220 220 220 220 220 220 22	40 74 85 68 72 76 82	Mal Fei lem hie wei in 340 70 q 140 5 130 B 340 W	ox. By≡ρ K Vn o	K	dK 9y	8- `	1		5	2 2 2 2 2 2	1- 1.5	1	1	1-12	2.3	2	The Well Preserved- Very comp. 1 blocky CP= PY. @BIT- g+z-phylin Th (10.20cm?) gun WI MO.	TR-9- I2-)	•310	.7
320	350	+ + + + + + +		8 234 190 230 250	76 80 84	> v. *	BFf	K	dK 97	7- 8	1	-	6-7		<u>~1</u>	1	mað	1-4	2-3-	2- 3	Hubd 72 bio. Sim. to above	TR-9 122	.40	•13
360	ક્ષ્	+ + + + + + + + + + + + + +		240 130 206 240	72 62 72 14		15P	د	4K 9¥	7	0.5	-	5.	-	1- 0.7	-	W4		3	3- 4	Grade inc. V.f.g. min Minor. blid : halos.	712.9. 123	.45	• 14,
340	350	+ + + + + + + + + + + + +		300 100 144 294	58 82 77 43) }	BFP	ĸ	dK 37	67	0.5			wK	1-		wat Wa	/ 1- A 1.9	1-3	4	Hb1d-72610.	-18-9 124	.42	•13

		Visual					Descri	ptive															Assays		
From	To m	ROCK	FRAC	strike	dip	VEINS	Lithot	Alt'n	Color	Hard	Weath	Mag	Veniet	СІ	Cp %	Bn %	Mal	Py %	Cə/ Cb %	810 %		Description	Sample No.	Cu %	Au gy
550	3-0	+,, +,, +,,		170 110 310 240	68 50 90 70		BLL	K	man dK gY		0.5	-	5	wk N.	15	-	(or)	1	3	3- 4		Sim to prev. Molicp.py on fract	TR.9 125	.37	.13
		-1 + 		215	80 90		251	brue	194													Microfract d. 360			
360	370	++ ++ ++ ++ ++ ++		120 235 130	87 75 70		BFP	K- FEOX	dk 57		2		5	-	21		đr.		2	1-3		Back into BEA. Numerous su friet.	TR9 126	-17	105
370	380	<pre> + + + + + + + + + + + + + + + + + + +</pre>		25x 282 300 230 	75 60 70 3V 5V		g FP	K-	dx 9≯		1.5 -	2 W M	-5		1		104		7	P-3		BEP. TXT port obit pertially Kool altoreated 2 bis.	TR9 127	.50	•)
380	, 3 %	+ + + + + + +		30- 325 330 30- 30- 32 32 320	70 70 70 70 70 70 70 70 70 70 70 70 70 7	w	8FP	k k	dk. 72 33	-	1	M	5	UI	k l	-	50,	ہد) ا	2	48		-Inc. haloc. on Fluct's	TR9- 128	.56	- 19
390	100	+ + + + +		120 115 120 301 40 26	80 40 3 75 5 40 5 40	> > > > > >	BFP	? K	26. 38	-	1-3	λ.ω ^	- 8	'ω	ik <)		l- <	- -	2	M	*	TR-0 129	₹ 4+	.2

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		Visual					Descri	ptive														Assays		
From m	το m	ROCK	FRACT	strike	dip	VEINS	Lithol	Alt'n	Color	Hard	Weath	Mag	Verniel %	а	Ср %	Bn %	Mel	Py %	Ca/ Cb %	8ю %	Description	Sample No	Cu %	Au gh
400	410	+ + + + +		240 275 270 105 238	50 ₋₁ (5= 70 ₅ (0=	340 80 J 3c- th 8. 3m	₿₽	k	dk- gy	8-9	Z	ل ح	75	<u>۲</u> - ۷	,8- I,2	-	٤	<1	2	J- 3	- sie in Ch - Silie d 2 nd bio - Mo noted	TR-9 130	.47	.20
410	420	+ + + + + +		230 125	725 7805		BFP	(FeoP) 大	dk gy	8	<u>4-5</u>		~5	'n	1- 43		2	21	2	3	- inc. in Cp - inc. in Cp - tat. part. oblit	TR-9 13]	.40	.18
420	430	+ 		65 140 250 265	90 90 95 90	5	BFP	k	lk- 23	8-1	1-2	2	8	M	د	-	<i>T</i>	<1	2	1- 3	- 8 Ft dtop in thack (U. Comp. hald tock to much) - fig. text. (Oblit) - Silic - Hen. Un ite	TR-9 132	,33	.14
430	447	$\begin{array}{c} + \\ + \\ + \\ + \\ + \\ + \\ + \\ + \\ + \\ + $		uz	u API	₽	BFP	K.	dix . nichr 9Y	8	01	W	-5	W	1.2		100	1- Z	1-2	3.	1% Epi Txt well preserved @435. Mixig subrop \$ till. Py vn lets- Txt becomes Washed and	TR-9 133	-410	ال

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1 7	./ ()	Train	ñ	<u></u>	ñ	. Tr	R	_ <u> </u> [TD.	n National States National States	8 .				NG	Internetier)UVE) North	í.	l r:	5		>H (_]60)4	}=	31	X	NX ()	25()	1 .6 ′
	(150	9 91	102	Acc:	red:	iteć	l Co	r .)				GE	och	929 7 49	CA	I. J	NA	gys	ts	Ø 14	RTI.	FIC	ati	5												A
									Pac 1	: <u>1f</u> Oth P	C Loar	<u>Boo</u> • Pr	kez ince	<u> </u>	<u>nc.</u> 1, Vi	PI anco	<u>ROJ</u> Jver	ECT BC V	MC 58 44	R,	Fi Submi	le tted	# 1 by:	400 Gord	15(on W)1 Hary										
SAMPLE#		Mo ppm	Çu ppm	Pb ppm	Zn ppm	Ag pprti	N1 ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca X	P X	La ppm	Cr ppm	Mg X	Ва ррт	Ti %	B ppm	A1 %	Na %	K X	W ppm	Hg ppm	Sc ppm	T1 ppm	S ¥	Ga Au** ppm oz/t
TR-9-102 TR-9-103 TR-9-104 TR-9-105 TR-9-105 TR-9-106		3.9 1.9 6.2 18.5 4.6	167 519 75 2385 494	40 41 32 26 63	104 622 89 153 263	.7 1.8 .8 1.9 1.1	55 79 40 88 58	11 22 14 29 20	158 656 111 396 233	2.58 6.34 2.27 4.23 2.45	51 95 43 14 165	<1 <1 2 1	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <	3 4 4 3 2	18 17 16 36 16	.9 4.7 .7 1.0 1.6	2.1 9.6 1.9 2.0 2.6	8 7 6 1 7 < 5	19 70 12 64 37	.15 .27 .04 .61 .31	.068 .112 .020 .119 .105	9 16 15 11 14	20 47 11 52 32	.26 .72 .09 1.27 .57	133 36 92 36 194	.004 .034 .004 .060 .040	3 31 8 81 81	.85 .25 .49 .42 .42	.031 .021 .013 .041 .026	.43 .45 .29 .59 .63	<1 <1 <1 1 <1	<] 1 <] <] <]	1.6 6.4 1.5 3.9 3.0	<1 1 <1 <1 <1	.75 1.76 1.34 1.69 .67	2<.001 3<.001 1<.001 5 .005 4<.001
TR-9-107 TR-9-108 TR-9-109 TR-9-110 TR-9-111	₹ 9	4.0 16.7 15.6 16.2 6.9	243 107 301 1152 3165	119 86 45 12 27	389 68 138 58 82	1.6 1.4 1.6 .8 1.8	28 12 66 38 53	6 3 14 16 23	166 34 148 151 388	2.42 1.90 3.25 3.36 5.19	1951 5643 112 24 15	<1 <1 <1 1	~~~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3 2 4 5 5	6 4 10 29 38	2.8 <.2 1.3 .3 .4	8.8 16.9 1.6 2.1 1.8	6 9 < .5 .6 2.0	14 10 27 92 127	.04 .01 .04 .72 1.12	.022 .014 .044 .102 .128	10 8 14 12 13	15 13 26 35 66	.15 .05 .14 1.32 1.84	186 122 89 52 36	.003 .001 .003 .114 .209	2 2 <1 7 8	.69 .37 .85 1.34 1.62	.017 .012 .021 .062 .086	.43 .26 .50 .59 .89	1 <1 <1 <1 <1	<1 <1 <1 <1 1	1.0 .8 2.7 7.0 10.0	<1 <1 <1 <1 <1	.37 .44 .63 1.02 1.28	1 .002 1 .006 2<.001 6<.001 7 .003
TR-9-112 RE TR-9-112 TR-9-113 TR-9-114 STANDARD C3/	/AU-1	8.8 8.7 11.6 61.6 27.9	2462 2462 1138 1434 68	11 11 10 284 36	52 48 53 239 164	1.2 1.1 .6 8.6 5.8	51 51 52 71 35	19 18 17 21 12	145 143 134 278 2790	4.59 4.81 4.83 5.11 3.24	7 6 5 35 61	1 1 1 24	2222 2222	6 5 6 5 21	23 23 22 48 29	<.2 .3 .2 .6 26.3	 <.5 <.5 <.5 12.6 13.6 	1.5 1.6 1.1 4.4 23.9	132 131 136 83 83	. 39 . 38 . 38 . 48 . 59	.125 .123 .130 .121 .089	11 11 9 14 19	106 106 94 53 169	2.28 2.25 2.32 .53 .64	83 99 70 29 156	.286 .283 .234 .039 .093	6 3 2 2 27	2.00 1.97 1.98 .99 1.85	.076 .075 .077 .013 .045	1.12 1.11 1.04 .30 .19	<1 <1 <1 <1 16	1 1 4 1	10.6 10.5 10.2 8.3 4.5	<1 <1 <1 <1 <1	.95 .94 1.09 1.44 .D2	9.004 9.002 9<.001 3.003 8.102
STANDARD G-2	2	1.5	4	3	36	<.1	7	4	514	1.95	1	2	<2	4	71	<,2		<.5	40	. 64	. 096	8	75	. 58	3 220	.131	5	.93	.083	.48	2	<1	2.5	<1	<.01	5<.001
			groui Uppei Assa - Sa	P 1D) R LIM Y RE(MPLE	(- 0 AITS Comme Type).50 (- AG ENDED E: RO	GM SA , AU, FOR CK	MPLE HG, Rock Au	LEA W = AND	CHED 100 Core Y FIF	WITH PPM; SAME E AS	3 ML MO, PLES SAY F	2-2- CO, (IF CU ROM ⁻	-2 HC CD, S J PB 1 A.T	L-HN(B, B: Zn A: . Sai	03-H) I, T S > ' MPLE	20 AT H, U 1%, <i>I</i> - <u>S</u> E	95 (& B :G > 3 :mple:	DEG. 1 = 2,01 30 PPI s beg	C FÓI 00 PI M & J <u>inni</u>	RONE PM; C AU > n <u>g _r</u>	HOUE U, PE 1000 <u>E' ar</u>	R, DI B, ZN PPB <u>re Re</u>	LUTE , NI runs	D TO , MN	10 M , AS, <u>'RRE</u>	L, AN/ V, U <u>' are</u>	ALYSE A, CF <u>Rej</u> i	D BY t = 1 ect R	0PT 0,000 erun	IMA I O PPM <u>S.</u>	CP-E	s.			
DAT	e ri	SCEI	VED	: N	AAY 1	17 20	00	DAT	ER	BPO!	RT M	AIL	BD:	Ji	ne	2/	00		SIGN	1ED	BY.	Ç,	hr			TOYE	, C.L	EONG	, J.	WANG	i; CEI	RTIF	IED B	.c. #	ISSAY	ERS
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SAMPLE#	Мо	Cu	Pb	Zn	Ag	Ni	Со	Mn	Fe	As	Ų	Au	Th	Sr	Cđ	Sb	Bi	٧	Ca	P	La	Cr	Mg	Ba	Ti	8	A]	Na	Ķ	W	Hg	SC D	11	5 (* N	ið i n nnv	Ru≭≖ Si n/mt	ample 15	
	bbw	ррт	ppm t	pm p	opm p	pbw b	opm p	pm	<u>*</u>	ppm p	pm (opm p	opm p	Spm	ppm	ррт	ppm	ppm	¥	λ	ppm	ppm		ppm	8	ppm	<i>ħ</i>		٨	ppii	<u>phu b</u>	hii hi	pill	* Pi	, y	in in C		
2000 TP-0-115	70 2 1	853	92	183-1	14	50	20 2	261 S	.10	26	1	<2	4	25	.7	2.2	.6	67	. 23	. 155	9	51	1.33	84	.022	6 3	1.67	.025	.40	<1	<14	.0	<11	.43	6	.04	9	
2000-TR-9-115 2000-TR-9-116	31.5.2	524	18	B9 1	1.0	66	31 1	130 4	.20	7	ī	<2	4	29	.7	.5	<.5	116	. 32	. 158	10	76 🕻	1.94	90	. 220	10 3	2.09	.053	1.05	<1	<17	.0	11	.46	9	.09	20	
2000-TR-9-117	70.2 2	805 1	414 2	224 8	8.9	56	21 1	186 3	. 39	134	1	<2	4	20	.9	10.2	2.5	50	.28	.076	11	32	.65	98	.048	8	.97	.023	.51	<1	34	.0	11	.16	3	.23	18	
2000-TR-9-118	76.9 6	072	35 0	183 3	2.9	93	36 2	266 3	.76	13	1	<2	4	27	1.1	.5	< 5	111	.66	. 152	25	69	1.93	87	. 166	13	1.96	.04/	10.	<1 ~1	<1/	.V D	11	.0/ 26	9	.17	15	
2000-TR-9-119	74.04	612	13	71	1.5	75	33 1	159 3	.49	5	1	<2	4	45	.2	<.5	<.5	130	.83	. 148	21	78	1.90	103	.297	У.	1.8/	.0/0	1.22	~1	~1 3	.0	TI	.20	U	.10	15	
0000 TD 0 100	1) 0 7	242	12	69	1 1	77	27	161 3	٥N	2	1	<2	4	45	2	< 5	< 5	138	.70	.163	21	96	2.23	125	.350	5	2.11	.094	1.40	<1	<1 8	.0	11	.13	9	.08	26	
2000-1K-9-120 2000 TP 0 121	250 7 3	545 684	15	73	11	61	19	205 2	56	3	i	-2	4	40	<.2	< 5	< 5	110	.59	.133	15	77	1.73	376	.281	6	1.58	064	1.07	<1	<17	.0	<1	.48	7	.07	9	
2000-TR-9-121 2000-TR-9-122	88.4 3	982	8	58	1.2	67	19	175 3	. 20	2	1	<2	4	31	<.2	<.5	<.5	135	.41	.163	9	95	2.36	297	.347	5	2.06	.063	1.25	<1	<1 8	1.0	<1	.67	9	.13	8	
2000-TR-9-123	57.04	519	10	62	1.4	66	16	207 3	.04	2	1	<2	4	27	<.2	<.5	<.5	129	.44	.145	8	96	2.36	325	.357	5	1.96	.062	1.25	<1	<18	1.0	<1	.66	9	.14	10	
2000-TR-9-124	37.4 4	198	8	100	1.5	74	16	231 3	1.08	4	1	<2	4	33	.3	<.5	<.5	114	.62	. 167	9	108	2.24	334	.308	10	1.79	.066	1.0/	<1	<1 (9.U	<1	.00	8	.13	•	
· · · · · · · · · · · · · · · · · · ·	7		,			70	10			2	1	-0	E	22	~ >	~ 5	~ 5	120	46	149	15	110	2 03	385	305	5	1 74	054	1.68	<1	<1	.0	<1	.44	8	.13	12	
2000-TR-9-125	45.3 3	3734	6	60	.9	79	10	229 3 246 3	3.U4 > 00	<u>د</u>	1	~2	ว ร	3Z 57	< 2	< 5	< 5	99	64	145	15	76	1.43	597	.207	5	1.34	.036	.71	<1	<1 (5.0	<1	.22	6	.05	7	
2000-TR-9-120 2000 TR 0 127	12.31	1007	0 A	70	.4	50 60	15	172 3	10	2	1	<2	5	29		< 5	< 5	105	40	.121	16	60	1.60	466	291	10	1.49	.062	.87	<1	<1 (5.0	<1	.35	8	.13	12	
2000-TR-9-127	13.0.5	578	5	62	13	64	16	163	2.93	2	<1	~2	5	34	<.2	< 5	< 5	110	. 35	.121	11	76	1.68	293	.315	1	1.61	.054	1.02	! <1	<1 :	7.0	<1	.50	8	.16	11	
RE 2000-TR-9-128	12.0 5	5391	5	62	1.2	62	16	156	2.86	2	<1	<2	5	32	<.2	<.5	<.5	5 107	.35	.120	11	73	1.82	283	.305	4	1.55	.052	1.00) <1	<1 +	5.0	<1	.50	7	.17	-	
				_								_						. 101			••	00	1 50	141	221	E	1 47	047	75	2 ~1	-1	۶ ۵	c 1	56	7	21	15	
2000-TR-9-129	33.1 4	1435	6	.56	1.3	73	11	170 2	2.91	2	<1	<2	4	19	<.2	<.5	<. 5 2 G	101 C	.30	114	14	92 74	1.09	241	244	2	1.4/ 1.4n	046	76) ~1 <	< <u>}</u>	5.0	<1	.74	7	.20	15	
2000-TR-9-130	13.4 4	1698	¢ 70	119	1./	63	10	2/4 .	5.34 5.76	2/1	1	~	ວ 5	31 A2		1.2		, 20 85	50	121	15	61		348	149	8	.99	.040	.55	, <1	<1	5.0	<1	.48	5	.18	11	
2000-TK-9-131 2000 TD 0 132	30.2	2200	20	234	ວ. ວ 1 ຊ	7/	12	250 1	3.20 2 72	241	<1	~2	4	29	2	< 5	< 1	5 94	.60	.087	13	98	1.14	329	.203	4	.98	.044	. 66	5 <1	<1	7.0	<1	.53	5	. 14	15	
2000-18-9-132 2000-TR-9-133	9.64	4573	8	98	1.9	62	14	300	3.03	.8	<1	<2	5	39	.3	.7	į	5 85	.85	.080	16	72	1.16	190	.164	6	1.00	.048	- 59	5 <l< td=""><td><1</td><td>7.0</td><td><1</td><td>.86</td><td>5</td><td>.16</td><td>9</td><td></td></l<>	<1	7.0	<1	.86	5	.16	9	
5000-11-3-100			5	20	1.1	÷				2	-																			- 1-	,	• •		02		7 64		
STANDARD C3/AU-1	25.8	65	38	172	5.5	37	12	819	3.18	60	21	<2	20	27	23.8	15.2	24.0	1 77	.54	.092	17	161	.63	154	.091	24	1.79	.032	.1!	בו ב י י	1	3.U 20	ل 1-	.03	5	3.54	-	
STANDARD G-2	1.5	4	5	47	<.1	8	4	564	1.93	<1	2	<2	4	61	<.2	<.5	<.!	5 37	. 61	. 10/		/4	. 62	2.58	.13/	4	. 94	.05/	. 4.	4	-1	L.U	~1	01				

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY OPTIMA ICP-ES. UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. - SAMPLE TYPE: ROCK AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE. <u>Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.</u>

Data__

Assay in progress for Cu 25000 ppm

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER (ISO 9002 Accredited Co.) ASSAY CERTIFICA Pacific Booker Inc. PROJECT MORRIS 10th Floor - Frincess Bul, Vencouver BC V68 4W4	BC V6A 1R6 PHONE (604) 253-3158 PAX (604) 253-1716 FE <u>ON</u> File # A001907R Submitted by: Gordon Weary
SAMPLE#	Cu *
2000-TR-9-118 2000-TR-9-127 2000-TR-9-128 RE 2000-TR-9-128 STANDARD R-1	.626 .502 .574 .576 .843

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL+HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.

AU - 10 GN REGULAR ASSAY.

- SAMPLE TYPE: ROCK PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 6 2000 DATE REPORT MAILED: July 13/00 SIGNED BY.

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data

14)2 **]53**≋) *BA* 171(TALY LL LATC)cour(BC) IN 12.363 B (6 े**ड**ात TIN BT ACM ※書論 (ISO 9002 Accredited Co.) ASSAY CERTIFICATE Pacific Booker Inc. PROJECT MORRISON File # A001907R 10th Floor - Princess Bul, Vancouver BC V68 4W4 Submitted by: Gordon Weary Cu % SAMPLE# 2000-TR-9-118 .626 .502 2000-TR-9-127 2000-TR-9-128 ŘĚ 2000-TR-9-128 STANDARD R-1 .843 GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES. AU - 10 GM REGULAR ASSAY. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns. - SAMPLE TYPE: ROCK PULP JUL 6 2000 DATE REPORT MAILED: July 13/00 DATE RECEIVED: } Data / FA All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

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		Visual					Descr	lptive												•		Assays		
From m	To m	ROCK	FRACT	strike	dip	VEINS	Lithal	Alt'n	Color	Hard	Weath	Mag	Veinlet %	C	Cp %	B∩ %	Mal	Py %	Са/ Сь %	Bio *	Description	Sample No.	Cu %	Au g/t
0	Ð			040 200 344 046 046	F 1 2 4)	مر من المر	zet (bid sil + Phy?)	14. 314 411 411	5670	1-2		ส์ภ	JAK IOC	2.3		—	1-2	25	-	Mod Ar on fracts- will mod-story Oxid on fracts = Selfares - Not many fracts - initially becomes Typical SW 657M.	TR- 10 149		
10	*•	+ 0x d + crimbin		100 ' 2 2 0	12 V	13	Berp	phyl. K.	ten to menn 5ry	Z- 8.	2-	-	5.10	-	(3 ()			2- 4	-1	2.3	Joinsile come tond 200 Locally V. 21 licens 4 moin gry. V.story py on normonus fracts Very crump kly for most of this second	TR-D 150		
30 59.5	40	+ + + + + + + + + +		310 870	85 88		BFA BFA	K-	sait 'n Reaw It. gry	5 FF .	L1		5	mik	<.3		tγ.	Z	3	1- 15	CHaitus tom 16-17 to 30 m). Fine secondary bio w/?chl. rims in a white comp etat bastick. FSp-3 sor. protall @39.5 m. Blocky[9]	17210 151		
40	50 13,5	+ + + + + + + + + +	×	500 220	7† 80		BF 0.	K- Phy)	Цн. ЗУ.	7- 8	•5	-	-5	WK.	.3		dar. vik	152	3	2	BFD similar to piev. W/ V.small secon n 50cm. w/ phyl. a.H.n., sil. i sw wing slight inc. of cp towness med second.	tr10 152		
53 53 54,5 56.	60 54.5 57 0 60	+ + + + + + + = BRD+25 + + +	N N N N N N	276 276 017	8 = 00 10 850		BFP 2ST BFP MIN	K- Pryl X- Sil K	Lt D'Y mem S'Y rvelm	8 7. 8 8	25 03 .3		-5 7- 10 5- 6	~ -	1.5.		WK WK	15 2 1.	2. 3 1-2 3	2	Moly On fract. in 2st. Abund: 15792nrry biotik in BPP. BFP appears better min	T2-10 153		

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Trence		1.2		•

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328 22 76 82

026 80 104 SV 1

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Orientation/length = _ ~

	-	Visual					Descr	lptive															Assays		
From	To M	ROCK	FRACI	Elrike	dip	VEINS	Lithol	Ait'n	Color	Hard	Weath	Mag	Versiet %	CI	Cp %	8n %	Mal	Py X	C⊮ Cb	Bio %		Description	Sample No.	Cu %	Au of
60	61:		1.34	 	1		251	Xí.	WY BY	8.7	-	-	1-10	-	25		\mathbf{r}	1	2	-		26T to 61- 3FP-to	TE-ID		<u> </u>
41	64	1+ ++	Χ,				BFP	ĸ	12.8y	٩	-	5	10	-	-1	-	τ Ι.	١	l	0	F	- 20% f.g bio.	1		
64				312	65					8_					71		ΤP	<u> </u>	 ג	-		minat Monstell	154		
	70	 - -		160	82		Z 57	1.3	16.82	17	-		27	-											
70	10		Ť	1				· ·														well exposed			
			I ₩	2,45	76			a.	Á	8	_	-	ks	-	k١	 _	-	١	1- a	-		Kel, theoh FR, TFh.t	TR-10		
		+ 	X	160 30 215	90		257	6.1	Hd. 84	9											-	- U.F. Sino. Cp	155		
				30	10	78,			Calite.			 			<u> </u>	┨					╞	Inc. Su's on Flactio			
80		+	<u>+£</u>	210	в́7		BFF	Brop	olg.	2	3	↓	<u> :</u>		1	Ľ	- 	K'2	-	-	┝┼	- muchy - Ok.			╞
30		+ _+	3	Poor Ev	e .		389	K	wan J'Y	10	1-Z	-	45	-	-7- 			- .2	-	2		BET is too hard	TR-10		
		4											ļ									to break ! V.competent	· 3 户 个。		
		+																				to that also in MO-9			
		+								ł												Few ficts. F.d. cp. in BFP	₩ ² E		
<u>יסר</u>		-		R	, , , , , , , , , , , , , , , , , , ,	p .	TEPP	+≤ ₽	ROVE	1		╞				\vdash			╎─		┝─┼		-10		
<u>92</u>		-		200			ZST	K-		9-		_	5-		•3	-		١	1-	-		v.f.d cp in BFP	156		
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Orientation/length $\in - \sqrt{}$

ch #	TR.10.	Location

		Visual					Descr	lptive														Assays		
From m	To m	ROCK	FRACT	strike	dip	VEINS	Lrthol	Alt'n	Color	Hard	Weath	Мад	Versiet	¢	Cp %	Bn ™a	Mel	Py ₩	Ca√ Cb %/	Bio %	Description	Sample No.	Cu %	Au grt
110		 + +	X	•2 ⁵	0 4		ZTT BPP	ns ai Okidi	ove ors:	2	4-5	-	? `	1	?		-	2	21	2- 3	contact w/ BFP @ 111m to 114. Bro is highly weathed	158		
-	126						ZST	K. (WK.) PWV) SIL	Ht. Sry	8. ී	1-	-	~5		0.3	-	tr.	0.S-	- 1 - 1. 5		Not V. good expos. F.O. CP w/ py on Fracts: loc			-
						EUT-	-100	s- k	ep 1	þ	00-	m. a	10 - Jor	·	┝╷	0	м	p.	9					
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AA							G	EO(CHE	MIC	'AL	ANA	LY:	SIS	CI	3RT	IFI	[CA'	re											A	
			Pac	111	<u>с</u> 10	<u>DOKe</u> th Floo	<u>r 1</u> x -	<u>.nc</u> Prîn	ess	<u>ROC</u> Búí,	Vanco	<u>MC</u> xiver	BC V	<u>LSO</u> (68-41	N 44	F1 Subr	le nitte	# d by	AOD: : Gor	221 don W	7 eary	Pa	ge	1							
SAMPLE#	Mo ppm p	Cu P Spm pp	b Zn mppmi	Ag N ppm pp	Vi Co om ppm	Min F ppm	e As ≵ppn	U Ippmi	Au ppm p	Th S ppm pp	Sr Co xm ppm	Sb ppm	Bi ppm	V ⊅pm	Ca X	р 1	La ppm p	Cr ppm	Mg (8 % pp	la Tí m 1	B Sppm	A1 ۲	Na T	K X	W H	ig M D	Sc T DT DD	<u></u>	5 Ga Coom	Au** cm/mt	
TR-8-134 TR-8-135 TR-8-136 TR-8-137 TR-8-138	55.3 24 45.8 42 31.3 26 43.6 38 30.0 21	106 1 299 14 306 4 395 147	3 95 (5 556 4 2 215 (5 63 5 54	1.0 6 4.7 7 1.7 5 .8 5 .8 4	52 19 75 20 56 30 51 21 45 16	354 5.2 268 5.1 306 4.2 169 3.5 182 3.7	3 65 0 141 7 48 7 2 1 1	5 4 1 <1 <1	√2 √2 √2 √2 √2 √2	14 1 8 4 7 3 11 4 8 3	.7 .3 14 2.7 19 .6 10 .3 17 < 2	,9 6.7 .5 <,5 .7	<.5 .7 .5 <.5	109 99 1 95 121 125	.39 1.30 .56 .64 .67	. 159 . 137 . 105 . 127 . 136	29 11 9 23 16	78 78 1 58 1 76 1 87 2	.20 5 .11 3 .05 5 .83 12 .05 26	8 .014 0 .106 7 .135 4 .195 0 .257	3 1 6 1 8 1 7 1 4 1	.00 .28 .13 .69 .83	.012 .046 .049 .074 .103	.11 .45 .70 .87 .87	1 • 1 • 1 • 2 •	-1 12 =1 9 <1 8 <1 9 =1 8	.5 < .0 < .5 < .6	1 .36 1 1.64 1 1.26 2 .81 1 .57	5 2 4 4 5 3 7 7	.08 .20 .08 .10 .06	
TR-8-139 TR-8-140 TR-8-141 TR-8-142 TR-8-143	22.1 24 38.0 22 89.5 18 10.8 36 3.6 49	168 230 191 164 179	7 54 7 99 5 65 5 55 3 63	.8 4 .7 5 .6 9 .7 6 .9 6	47 10 51 18 53 11 58 10 54 10	165 2.8 312 3.6 168 2.9 182 3.1 197 3.2	9 1 5 4 2 1 7 1 6 <1	<1 <1 <1 <1 <1	<2 <2 <2 <2 <2 <2 <2 <2 <2	8 2 8 4 9 3 9 26 11 6	8 <.2 6 .4 6 <.2 4 <.2	<.5 <.5 <.5 <.5	<.5 <.5 <.5 <.5 1.1	127 115 109 123 108	. 37 . 88 . 49 . 40 . 68	. 121 . 131 . 147 . 078 . 096	8 11 10 12 14	962 751 961 941 511	.09 39 .73 11 .74 43 .39 41 .54 41	5 .296 4 .218 1 .269 2 .261 4 .291	5 1 6 1 2 1 4 1 3 1	. 84 . 54 . 47 . 40 . 39	. 091 . 085 . 099 . 104 . 104	1.02 .77 .82 .88 1.00	1 < 2 < 1 < 2 <	<1 8 <1 8 <1 6 <1 10 <1 10	.7 .4 < .2 .8 .2	2 .25 1 .76 2 .17 2 .25 1 .38	5 8 5 7 5 5	.10 .05 .09 .17 .25	
TR-8-144 TR-8-145 TR-8-146 TR-8-147 TR-8-148	IN-8-144 28.5 2322 3 52 1.0 58 7 311 2.74 2 <1 <2 10 28 <.2 <.5 <.5 106 .43 .034 13 108 .86 349 .12 5 .98 .076 .53 1 <1 11.8 <1 .15 5 .09 TR-8-145 2.1 417 4 55 .3 37 10 234 .39 2 <1 21 28 <.2 <.5 <5 103 .45 .126 12 74 1.52 317 .006 3 1.0 1.4 4.5 2 .03 6 .03 TR-8-146 2.3 1458 3 60 .5 31 124 1.4 79 1.66 41 .23 3 1.4 1.1.8 <1 .35 5 .09 TR-8-147 2.0 2.0 35 3 1 21 24 4 24 4 24 4 24 5 03 <t< td=""></t<>																														
IR-8-147 Constrained by the second state of the second stat																															
RE I.6 1																															
TR-10-158 RU-4-159 RO-4-160 RD-4-161 RD-4-162	87.8 28 3.2 36 2.2 17 2.5 7 7.5 42	87 12 08 2 96 2 57 9 12 8	2 150 2 3 478 3 2 142 3 3 171 3 52 1	2.4 8 5.0 7 5.3 4 .5 6 3 5	6 13 2 10 9 11 3 14 9 8	378 3.0 603 4.6 595 4.5 796 3.8 190 2.0	9 16 5 5 9 44 5 45	<1 3 2 2 <1	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <	10 3 8 8 9 3 5 4 5 3	0 .6 0 1.6 9 <.2 6 .5 5 <.2	<.5 1.1 <.5 2.3 1.3	.9 1.2 <.5 <.5 1.1	85 98 1 94 85 47	.34 .47 .79 .57 .59	.068 .110 .115 .041 .026	14 19 1 14 6 7	81 .03 1. 80 1. 60 .78	72 33 59 24 61 50 19 12 18 26	6 .056 1 .104 5 .117 0 .003 4 .004	4 1 4 1 3 1 1 <1	.24 .44 . .73 . .64 .	045 045 053 004 009	.42 .50 .45 .03 .09	1 < 2 < 1 2 <	<u>1 9.</u> 1 9. 1 7. 2 10. 1 7.	. <u>6 <]</u> .9 <] .8 1 .4 3 .6 <]	. <u>. 36</u> . 45 . 31 3 . 29 36	4 5 7 <1 2	.07 .13 .05 <.01 .13	1
RD-4-163 RD-4-164 RD-4-165 RD-4-166 STANDARD C3/AU-1	6.5 69 3.0 33 6.9 33 9.0 16 28.3	23 5 98 4 59 4 70 7 68 38	5 84 2 4 94 4 61 7 68 3 170 5	2.1 6 .9 5 .8 5 .7 3 .7 3	i3 11 7 10 7 8 9 11 6 10	313 2.8 207 2.8 245 2.3 448 3.0 797 3.4	0 14 9 1 7 7 1 5 0 60	<1 <1 <1 1 26	<>> <> <> <> <> <> <> <> <> <> <> <> <>	7 5 9 3 7 5 11 3 26 2	0 <.2 9 <.2 8 .2 2 .4 9 23.8	1.3 <.5 .8 .7 16.3	1.5 <.5 .9 <.5 23.0	68 107 79 67 82	.91 .36 .75 .19 .54	.088 .124 .057 .082 .096	9 15 91 19 181	95 . 91 1. 07 . 49 . 72 .	83 158 61 319 79 522 50 539 62 165	3 .090 9 .179 7 .107 5 .072 5 .090	1 1 1 3 1 22 1	.92 . .69 . .89 . .10 . .94 .	034 077 043 039 039	. 47 . 69 . 44 . 38 . 18	2 < 2 < 2 < 1 < 14	1 7. 1 7. 1 8. 1 6. 1 4.	.6 <1 .8 1 .7 1 .7 <1 .5 2	59 .13 .26 .07 .02	3 7 3 3 7	.23 .25 .11 .03 3.50	
STANDARD G-2	1.7	3 3	3 45 <	.1	72	553 2.00	3 <1	2	<2	7 7	3 <.2	<.5	<.5	44	.65	. 097	8	71.	62 226	5 .134	51	.00.	076	.50	2 <	12.	63	<.01	4	-	
GROU UPPE ASSA - SA	JP 10X - ER LIMITS NY RECOMM MPLE TYP	0.50 - AG ENDED E: RO	GM SAN , AU, FOR R CK	IPLE I HG, N ROCK / AU*1	LEACHE W = 10 AND CO * BY I	D WITH DO PPM; DRE SAM FIRE AS	3 MU MO, PLES SAY I	2-2 CO, IF C FROM	:-2 HC CD, S CD PB 1 A.1	CL-HN SB, 0 ZN A T. SA	103-H2 1, TH 15 > 11 MPLE-	D AT , U & X, AG Sam	95 Di B = > 30	EG. C 2,00 0 PPM beai	FOR OPP & A	(ONE M; Cl U > 1 10 / Pl	HOUF J, PE 1000 동국 과	R, DI 3, ZN PPB	LUTED , NI,	TO 1 MN,	O ML, As, v	ANAL , LA,	YSED CR	BY = 10	000,000	A IC PPM.	P-ES.	•			
DATE RECEIVED	t JUL	10 200	00 I	ATE	REP	ORT N	AI L	ED:	gu	ly	19	100	S	IGN	ED	ву.	- <u></u> 1	<u>ہ</u>	• • • •	<u>р.</u> т	OYE,	C.LE(ONG,	<u>.с ке</u> Ј. Ч	ANG;	CERT	ĪFIE	D B.C	. Ass	AYERS	
All results are co	nsidered	the (confid	lentia	al pro	perty	of th	le cl	fent.	í Acm	e assi	mes	the (liabi	liti	es fo	or ac	tual	cost	of t	he ana	lysi	s on	ly.				Dat	:• <u>/</u>	ŤΑ	

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Trench # RD4 Orientation/length N-S

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Brg. Location 30m~si from 98 MO 1 Access Rd-N. Zono

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		Visual					Descri	lptive					· · · ·								,	Assays		
From m	To m	ROCK	FRACT	strike	dip	VEINS	Lithol	All'n	Color	Hard	Westh	Мар	veriet %	α	C₽ ★	Bn %	Mai	Py X	C∎/ Cb	Bio *	Description	Sample No.	Cu ¥	Au gh
30	83	+ + + 0 -	2.5	• 1 P\$*5			369	K- sil WK. phy.	н. Ју	6 - 7	2' 3	1	25	> ¥	<1		-	21	พ่ ว	21	Bedrock begins @ ~ 2 Drn deptm. Only a few good exposures several large bouches in bill. (minia BEP).	RO.4 159.		
40	92	1.4 0.4 4.4	2 đ	رمو.			TIL														Mind BPDS mind 12 251. in large bouldons in till			
52	60		4	0 ¹ 674	Ŷ		BFP	¥.	14 37	8- 9	,	Ч	জ	¥Σ	1	1	-	4 1	3	12	Q 52m - One lage boulder on BIR Secondary bios GRAB SAMPLB	RD-4 160		
60 65	ц 70	+++++++++++++++++++++++++++++++++++++++		€×µα	> .	versis Vohal Vn. cp+p	BL-6	ФУ- (ртор)	H ton grain gry	7	2- 3 2	Μ	25 25	- 7	×5 ~-	1	-	·5	3. 4 3	-	Bio = ser Weakly Some of This Kackmay be Subcrop F. d. cpy 9 W/ py on fracts in Maeses Joins The Y@7	2. m.		
סר דר דר	đo	**** *+	ع ج	nent:	a .	*	Pick ZST BFP	ы≓р, К = Ч. •1]. 0×р.	ncm Jry ORA- WH:	8.9 2-2	1 N - 1 N	-	56	W	+2	~	м м	•5	3- 5- 4	- ?,	Abund. J. Whing. Fragmented & Weathed. Unsure of 11th ho 72 m. Then it defin. 2st cp f.d. fon freet BFP is weathed for deen.	RD-4 162	÷	

mal common on fipel.

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Trench	Ħ.	- K	P	÷.

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Orientation/length N-5

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		Visi	ual		_		·	Descr	lptive			•											Assays]
From	Ta m	ſ	ROCK	FRACI	Strike	dip	VEINS	Lithol	All'n	Color	Heid	Weath	Mag	Veniel %	а	Cp *	Bn %	Mal	Py Ci % Ci	Bio *		Description	Sample No.	Cu %	Au g/	
80	90							TILL													\$					
50 92 93 97 97 97	94 97 98 120							25T BP 25T BFF	SIL DIX K	2 2 5 5 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5	9 5 5	1	1 1	5 5 5 5		15+ 4.8		+x; - 0°M-		1 -		WELL MO - Example filicitie 257 - pervasive filicitie and throw also poor well min do w well MIND Chumbley 9' ox d	780-4- 16-3			
MO	25 25	4 - 4 + 4 - 1 + 1						TILL BPP	X . JVE	252	ۍ ا	1-2	S	5		11	-	L .	4	2-3	1. I.	Zpoint sources - @ 105 mt@ 109. Dkgy K PP -1 about 2hty bio. Mal. in sevent heretes	164			
110 112	112		SUS P Painty					TIL BFP	K. 511.	noh 57	7	0- 1	Μ	45	-) ن ا		-		1. V		F.d. Cp. abund 2 no 4 bio.	194 195	•	-	
120 124 126 127 129	80	9-9+ +	suber suber OUber	P , Y				BPP 2St BFP	K K Ad	nem 57 37 3- 7- 97502	7 8 4	1 <1	2	& د>	- *F	1 - Q		-	4 c)	2.1		Ven small grab tim Abund 2nd bio. Silicens,	RUY 165			Jugy

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		Visu	ial l						Descri	ptive	_														Assays		-
om m	To m	F	łock	FRACI	strike	dip	VEIN	15	Lithol	Alt'n	Color	Herd	Weath	Mag	Versiet	а	Ср %	Bn %	Mal	Py %	Са/ СЬ %	Bio *		Description	Sample No.	Cu %	Au g/t
0	195	۵. ۵.							TILL				0			WK	د ا		1	١	3	-		-q. vining	RD 4 167	,	
5	1365	++ 6-	864 11 11						କାର	× Sij	ν τ 9γ	8	•		۱۵ -									becomes v. Wathr'd - strong Fe ox + Janos			
٩	140	ŧ	BFP						брү	oxid	orony	4-	5	-	7.		?		ЬМ	?:	2	-		@ 159			
40	1413		2 mg	\$					257	ovid K	mm 5'7	9	1-15	-	25	s. VX	1× 4 -		чы Т	3	-			The do Hid	16-9	•	
•		- 4 • -				•			t/11	. •							4			-	•				ч.		
	149-							-	zst	Sim	10 C		z -	18	P	0		6	1 <i>0</i> ;	ha	5			ton su lang	· ţ		
٧ə	152	1-2	1						Mare	weat	red	- 6	'A'	%	1 -5 -	**	•				- <u>-</u>				160		
				20	sm	h-	h)																•			: <u>19</u> .,	` ~
]	ت د س	} 		248	1	 	10.0	d	6 911	 	B	41		10				lou		\) to all freedings (
D. 61 62	161 161 162	 ++	Ref		ac Ac Ac	55 K f <	407 61		3¢	- 5 -	. dk 97	7	<]	-	5	nc K	5.1			41	2	3-4		Lats of Tracports	169		
63 64	164	7	- 25		000	90				Prof	gi eer	2	3		ton K-1	1 S	ľ,		-		 			carrier prop national			
	 				- 	91		-	25T	<u>.</u> 	5-	17.	2	-	**	M	.7	-	₩	. 41	1-7						
10	80	+++++++++++++++++++++++++++++++++++++++	- B FP		- 32 2K	0 4. 7		÷ -	359	لامه	110 110	5- (5)	3	-	-	1	<u>-</u> j	W	٦		3			BFP is Kaolinizod Nout competiont Blenched			
		+	ł						10		ار میں رید میں ا		1		ļ.	<u>s.</u>		•						9-550.			

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Cu % Au 6	Sample								•											1		
	I	Description	•	Ca/ Cb %	Py C %	Mei	Ср В % %	a	g Veiniel	leath Mi	Hard	Color	Alt'n	Lithol	VEINS	dip	strike	FRACT	DCK	R	To M	om m
	2204 171	formpus to my		-	2- 3	tr.	•5 -	v. WK	50	-2 -	8	24 24	K- sil	zst					HUX BETP		90	Ø
		105m p. V. Vell mind BFP for firsh bloss-lohz" cp.f.d. + Lubs. f wurch diss.	1	21 2 †		to had	1- tr 3	-	S	-1	9-	ак 57	ĸ	sfp		90 90 90 70	278 72 298 288	\rightarrow	1+20T BPP	┿┿ ┿┿ ┿	μs	
	204 . 172	Hornfelsed, hed, F.d.d. col. RP, Py mainly onfracts.	- 2	1_ † 3	d 41	- mo	15- 6.5		żs	- - -	٩	dK 57	K + 1	BFP		88 20	220			+ + +	taip	0
		F. d. cp. nzur. + 204 Flat bench lost sm. Inbrised @ 200m.	-	- ۲	4)		- اے	Ś	5	-1.	Ø	+^. 34	x - x - 2)	est				y ny sy balan a sun danad b Birtab pe			200	<u>74</u>
	RD4-	ool of tr. 5.	•	2 -		· +~.	.5 -	-	5	-1 -	1	ten	-Phay	ZST				0- 203	MIX 20 BAPT 25T	+ -+	210	ມ
	2	F.O. OP. Liebs of Py	<u>+</u>	3	- 1.5	M	1 - 1.5		- <5	<1 N	8- 9	mon 57	ĸ	BPP				195 0	÷.			<u>9</u>]
	2D4- 174	Becomes highly UXIdized @ 210m-	2-	4 7	2	-	?-	73 7 7 7	- 7	+ -	4-6 7	oren	oxid	3FP			2	15067	BPP K.,	++ ++	211	.10
		dk gry Brp wish, Hor		1.5 3	15		77 4 -	wk 	- 45	-1	7	374 (Trong)	phy.	11					Phy	· ++ +-	216	.15 16
×		Phylaita @ 215m. zet @ 276m	-	2	د٢	- -	ŝ.		- 5-7	1-1.5	8- 10	24-	phy-	zsT				5305E	ZZI -		43	
	RD4 175	cpin m.vn (ets. Horde si liceus. V. WK hom.stain. locally.		2	- 2.5		45	M	- 34	1-1.5	8° 10	314	Kit	255			5	230 74 140 90 550 51 140 71	251		228	20
-	2D4- 174 174 175	Becomes highly UXIdized @ ZIUM- ZII-Then it to dK gry BPP WIST, HAY Hemstain from 2.11 Phylalita @ 215m. Zet @ 276m cpin mun (et 3. Horde siliceurs. V. WK hemistain. locally.	2	4 1 1.5 3 2-3 2	2 - 2 - 15 - 25 - 25		?		- ? - 45 - 45 - 5-7 - 3-4	+ - -1.5 1-1.5 1-1.5	46 7 7 8-10 8-10	oron Jy Jy Tr Jy Gy	oxid K phy phy- k- sic	3FP 8P7 11 25T 25T				195 0 196 (7) 520 7) 520 7) 530 (7) 530 (7) 530 (7) 19	BFP K PMY ZST ZST	+ + + + + 1 1 1 1 1	211 215 216 220 470 228	210 215 216 220

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Trench # RP-4 Orientation/length N-S

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post the beaver pond.

Location

		Visua	al					Descri	lptive														Assays		_
From M	To m	R	ОСК	FRACT	strike	đip	VEINS	Lithol	Alt'n	Color	Hard	Weath	Mag	Versiet %	а	Cp %	Bn X	Mal	Py *	C∎/ Cb %	Bio %	Description	Sample No.	Cu %	Augh
250	235्	2 5	TILL					ղե	no l	TYPSU	(ę.												RDY		
255	276		Tes"		3-40	74		251	K, SIL	ncin 514	7- 9	1-2		ч-5		σ	-	1	<u>~1</u>	05 1		257 - WI trace from stain CPON fractures	176.		
256	239 7.45	++ ++ -	BFP.		040	90		BPP	K	at st	7	41	3 7	45	1 4	1- 2	-	1∨.	12 1	41 2	4	BPP- nicely mind. abind. 2nd. bio			
240			LST		022 154	70 10		zst	Phy.	100	89	<u>३-</u> ५		-3 5-7		?		102	?	2	-	SW fractions. V. weathored.	RD4 177		
246		- - ++	BFP.					BPP	K	dk	7	21		25		1-	-	- 1	دح		41	V. abyd. 2nd bis			
	250							ZET	K SIL	107 molm 44	9-	۰۶	_	25	ž		_	_	1- 12	<u>4</u> ۱		Zst ~ v. herd & resist.			
250			ZET		2.04	10 10		ZST	×	mann Sry	7	1-1.5	-	25	Ψ	Ϋ́.	1	-	1.1	41	-	weakly minit	R04 178		
• • • •																									
	260	 - -																							
260		1,1,1,1	হগ		300 50	80 87		ZST	K	gry mem	٩	0.5	М	45	-	ţ	1	-	1 1 1	עונ	1	Silicous imisher : a Ew cp. specks.	RD4 179		
	270																								
2 70	280		251	145	130 140 057 000 550	63 88 90 90 90 70	<i></i>	ZSI	K	man 917		t Y.	N- 5	-5	-	•7. 1	-	-	دا	1- J.5		Cp in vne & v. f. diss. (cp smears on frad) The bost expos. Of this trench So Fer. Mound: chips - marks a u.s.	RD-4 180		

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Orien	tation/leng	th N.S																								••

[]		Visual						Descri	ptive				_										Assays		
From m	To m.	ROC	ĸ	FRACT	strike	dip	VEINS	Lithol	Alt'n	Color	Herd	Weath	Mag	Veinlet %	a	Cp ¥	Bn %	Mai	Ру %	C∎∕ Cb %	Bio ¥	Description	Sample No.	Cu %	Au g/i
280	290		et	¥	200 190 144	40 So 78	wK SW	टडा	K- (Phy)	nch 37- (ten) bc	7	.5	3 2	5	WK CA)	05 ac	-	tr.	21	•	-	Thin films of Pj \$ cp on fracts \$ microfractures: Rore blebs of cp.	RDY- 101		
290 295 297 298	300	+++	57 57 567	Y	195	84 78		BFP ZST BFP	K K	dik 37- molan mohn 37 As 1	т- 8 В	1 (15 (VE	2 Z Z Z	٤ 5 د۲	-	30 1 70	-	₩ tr.	1- 45 4]	2-3	1-2 -	BFP Py g c. a. g f. d. go. BFP is more oxid. Then Zst & has deeper over burden WK-mod hem stan Now. Zhty hio inopp. Zst-some the g uns	RDY 102		
320	302	++ + + +	SP P	K	050 147 030 284 154	87 78 70 70 71 72		BFP	ĸ	non Sry	7- 8	o.]		25	V. WK PC	3.0 9.0		tr.	1- 2	1-2	3	Bra some areas pour ly min-some nicely min.'d (spothy).	Ърц 183		
320		+ + + + + + + +		ł	330	85 83		8 F P	ĸ	4- man 37	7- 8	0.5		5		0.5 0.7			15 2	4	F- 2	cp mainly on fractures (test f.d.) N-god Cyposiu ep. Arbund. 240. 610.	RP4 184		/
320 32(320		erp					ZST BFP	K	mom gry man 5~y	7 8- 9	0.5- 07	4 M	5	-	05 06		-	1	د م ۰ 5	2- 3	Willy min. Fid CP zet hus SW Micro- fractures & shonger FEOX on surfaces BEP- Weakly min d	RP4- 185		-

To Rock F 30 + BPP 33 + Z5T - - 340 - - - 340 - - - 343 - - - 350 + 350 +	FRACT etrike dip VEINS 03.0 20 326 7N 200 405 336 73 150 52	LIGHOI AM	n Color S PRE Mahn Sry	Hard Wi Vious 70	eath Mag	vener (а Ср *	Bn Ma		Cal Bio Cb Bio % *	Description ZST w) stronger fractioning	Sample No. RDY IB6	Cu %	Au g/l
Image: Second second	200 to 5 326 TN 200 to 5 324 T3 50 52	BFP A	S PRE mode Sry	70	.5 -	25	0,5		- 1	,	ZST w) stronger fractioning	RD4 186		
340	200 e25 \$34 73 50 \$2	TILL ZST K									wild ~ interestion ~			
350 + BTP.			54	6-1	1 M	5	5		LI		tocally mushy. clay nen, oxid. or a	187 187		
351 D 		BL6 Q	K Stm	y	<u>piene</u>	3	-0				Notsmpud teo weath'd . 351-300 m TIII- good till wizst	NIS		
		BFT FA	1- 1+. SIL 914	7-10	as. 1.5	- 25	ft	,	- 2	1-3 1-3	4 BFP V. difficult to obtainsompter - V. hord and fort for or too strong ly oxin	20-4 185		
	130 50	25T	hy. to K Me	50-	.5	- 5-7	- 1	r 5 -		51	- Inthis not totally for - SW fracturing - mainly K altin N/	rsh RD-4		

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TYJ BM 19 OS1)	TÍ ⊺64 02 Ačci	Ed:	Ltec	DRJ I C	 0,}	LTI			8** ^	*. ***	P Cur	F.	NG7	r N	NT N		יזעי דב		- 	v Terr	- 9 			∖ PI	1/~~~	- {6	04``	***	335	ŕ	₽¥q	ir Ag)257 	171	6 ,
AA			P	ac	i£	ic.	Bo	oke	r	Inc	uni E	RO	JE	ч # CT	MO	RR]	sta (SO)	N CE	R1. Fi]	Lr⊥ Le	#	15 A0()22	17		Pa	ae	1							
	· · ·						10th	Flo	or +	Prir	cess	Bui	, Va	incou	veг	BC V	6B 41	1 4	Subm	itte	d by	': Go	rdon	Vea	гу										
SAMPLE#	Ho	Cu	Pb	Zn	Ag	Ni Dom r	Co I	Mn: F	e A: ≭oo	s U nicomi	Au DOM	Th comin	Sr	DC moa	Sb DOM	Bi com	V non	Ca %	Р Х	La DOM 0	Cr	Mg X I	Ba	Ti ¥ c	8 000	Al X	Na ¥	к * (H W CC mCC	9 : M DI	Sc 1 Sm pp	1 Ma	S Ga ≭ppm	Au** om/mt	
70.0.134		2406	13	06	1.0	<u>ב</u> ח	10.2	54 E -	ייקיק די וייק די ביו		-7 -7	14	17	q	рр П		100	20	150	20	70	20	59	014	2 1	00	012	11	<u>, , , , , , , , , , , , , , , , , , , </u>	<u>יי</u> 1 ו ז ז		1 1	<u> </u>	 N9	
TR-8-134 TR-8-135	55.3 45.8	4299	145	95 556	4.7	62 75	20 20	54 5.2 88 5.3	LO 14	14	<2	8	44	2.7	6.7	.5	99	1.39	137	11	78 1	.11	30 .	106	61	.28	.046	.45	1 <	1 9	.0	1 1.6	4 4	.20	
TR-8-136 TR-8-137	31.3	2606	42	215 63	1.7 A	56 51	30 30	06 4.2 69 3 5	27 4. 7	91 7<1	<2 <2	7	39 40	.6 3	.5 < 5	.5	95 121	.56 64	.105	9 23	58 1 76 1	. 05 . 83	57. 124.	135 195	81	.13	.049 .074	.70 .87	1 <	18	.5 • .6	11.2 2.8	ьз 17	.08	
TR-8-138	30.0	2147	5	54	. Ø	45	16 1	82 3.2	71	1 <1	<2	8	37	<.2	.7	< 5	125	.67	136	16	87 2	2.05	260 .	257	4 1	.83	. 103	.87	2 <	1 8	.0	1.5	77	. 06	
TR-8-139	22.1	2468	7	54	-8	47	10 1	65 2.8	39	1 <1	-2	8	28	<.2	<.5	< .5	127	.37	. 121	8	96 2	2.09	395 .	296	51	.84	.091	1.02	1 <	18	.7	2.2	58	. 10	
TR-8-140 TR-8-141	38.0 89.5	2230	5	99 65	./	51 53	18 3	12 3.0 68 2.9	55 · 92	4 <⊥ 1 <1	<2 <2	8 9	45 36	.4 <.2	<.5 <.5	<.5 <.5	115	.88	.131	11 10	75 I 96 I	L.73 . L.74 4	114 . 431 .	218	21	.54 .47	.085	.82	1 <	16	.4 1	2.1	ь с 77	.05	
TR-8-142	10.8	3664	5	55	.7	68	10 1	82 3.3	17	1 <1	<2	92	264	<.2	.6	< 5	123	.40	.078	12	94 1	L.39 ·	412 . 414	261	41	,40	.104	.88	2 <	1 10	.8 	2.2	55 95	. 17	
IK-8-143	3.0	49/9	3	03	.y	04	10 1	9/ 3./	20	1 ~1 - 1	~2	11	00	~.2	5	1.1	100	.00	. 090	14	100		414 . a.a	231	51		. 104 .	50	2 ~		, <u>r</u>				
TR-8-144 TR-8-145	28.5 2.1	2322 417	3	52 55	1.0	58 37	73	11 2. 34 3	/4 39	2 <1 2 <1	<2	10	28 28	<.2 <.2	<.5 <.5	<.5 <.5	106	.43 .45	.034	13. 12	108 74 1	.86 1.52	349 . 317 .	14Z 206	5 31	.98	.076	.53 .60	1 <	1 11	.8 • .5	2.0	55 36	.09	
TR-8-146	2.3	1458	3	60	.5	41	11 2	41 3.	90 94	1 <1	<2	9	36	<.2	<.5	.6	109	.45	.123	14	79 1	1.66 ·	441 . 520	235	31	.42	.084	.77	2 5	15	.8	2.0	86 06	.07	
TR-8-147 TR-8-148	1.6	1547	3	60	.5	38	11 2	95 3	40	2 <1	<2	11	36	<.2	<.5	<.5	107	.46	. 132	18	74 1	1.25	450 .	230	4 1	.28	.081	.71	2 <	1 6	.1	1 .0	75	. 07	
RE TR-8-148	1.6	1548	3	61	.6	38	11 3	00 3.	53	4 <1	-2	12	37	<.2	<.5	<.5	109	.47	.130	18	74 1	1.27	445 .	233	31	.30	.082	.72	2 <	1 6	.2	1.0	6 4	.07	
TR-10-149	29.3 402.6	1349	89	550 98	2.6	61 41	19 2	79 3. 17 3.	04 D 22 1	4 <1 8 <1	~2	5	17 66	.4	1.9	 	60	.00	.044	5	35 43	. 40	74.	003	6	.96	.019	. 33	2 <	16	.3	1.7	4 ~1 9 2	.05	
TR-10-151 TR-10-152	3.9 20.0	465 1884	4	48 65	.3 1 9	30 72	10 1	593. 173.	64 78 1	1 <] 0 <]	<2 <2	10 11	19 23	<.2	<.5 <.5	<.5	78 121	.26	.115	13 15	61 1 94 1	1.63 1.97	338 . 302 .	038	11	.86	.045	.22 .52	1 < 2 <	14 18	.7 · .8	(1, 4) (1, 4)	18 88	.03	
TP_10_153	69.7	3471	8	83	1.8	76	18 1	93.3	14	5 <1	~	q	20	3	< 5	< 5	115	21	080	10	105 3	1.74	327	115	4 1	.97	.071	.66	1 <	:) 9	.1	1.4	87	.11	
TR-10-154	IN-10-153 $68/7$ $34/1$ 8 83 1.8 76 18 193 3.14 5 51 29 20 $.3$ 5.5 115 21 080 10 105 1.74 327 115 4 1.97 071 $.66$ 1 1 1.48 7 11 TR-10-154 71.2 3005 18 182 1.02 7 32 1.3 9 1.1 62 $.39$ 0.41 13 72 72 258 0.48 51.25 0.58 $.55$ 1 46.7 1 $.67$ 4 $.06$ TR-10-155 73.5 2497 15 161 1.100 23 460 2.73 92 $1 < 2$ 72 77 2.6 $.8$ 48 $.029$ 12 58 $.0019$ $.26$ 1 6.1 1.63 1 $.04$ $.06$ TR-10-156 155.7 2511 9 196 3.100 <																																		
TR-10-155 TR-10-156	TR-10-154 71.2 3005 18 188 1.2 109 20 222 2.60 18 <1 <2																																		
TR-10-157	TR-10-155 73.5 2497 15 161 1.1 100 23 460 2.73 92 $< 1 < 2$ 7 7 2.6 .8 48 .029 12 58 .30 233 .004 3 .80 .019 .26 <1 1 .1 .63 1 .04 TR-10-156 155.7 2511 9 159 1.3 78 17 303 3.38 13 <1																																		
TR-10-158	TR-10-156 155.7 2511 9 159 1.3 78 17 303 3.38 13 <1																																		
RD-4-159 RD-4-160	2.2	1796	5 3 5 2	142	3.3	49	10 0	695 4.	55	6 2	2 <2	9	39	<.2	<.5	<.5	94	.79	.115	14	80 1	1.61	505	. 117	31	73	.053	. 45	2 4	-1 7	.8	1	1 7	. 05	
RD-4-161 RD-4-162	2.5	757	'9 8	171 52	.5	63 59	14 7 8 1	96 3. 90 2.	89 4 06 4	4 2 5 <]	2 <2 I <2	5 5	46 35	.5 <.2	2.3	<.5 1.1	85 47	. 57 . 59	.041	6 7	60 78	.19 .18	120 264	. 003 . 004	1 <1	.64 .64	.004	.03 .09	1 2 4	210 17	.4 .6 ·	3.2 1.3	9 <1 6 2	<.01 .13	
PD-4-162	 	6023	 	ос 04	2.1	61	11 7	13 2	AU 1	4 el	 1 - 2	- 7	50	 د ۲	13		. 68		089	Ġ	95	87	158	nga	1	02	034	A7			6	- ··	 .0 7	23	
RD-4-164	3.0	3396	4	94	.9	57	10 2	07 2.	89	1 <	2	9	39	<.2	<.5	<.5	107	. 36	.124	15	91 3	1.61	319	179	i ı	. 69	.077	.69	2 •	a 7	.8	1	3 7	.25	
RD-4-165 RD-4-166	6.9 9.0	3359 1670) 4) 7	61 68	.8	57 39	82	:45 2. 148 3.	37 01	7 <2 5 2	l <2 L <2	11	58 32	.2	.8	د. ج.5	179 567	.75	.057	9 19	107 49	.79 .50	527 535 _	. 107 . 07 <u>2</u> _	1 31	.89	.043	.44 .38	2 •	<18 <16	.7	1 . <1 .[26 3)7 <u>3</u>	.11	-
STANDARD C37	AU-1 28.3	6	38	170	5.7	36	10 7	973.	40 E	0 2	<2	26	29	23.8	16.3	23.0	82	. 54	.096	18	172	. 62	165	. 090	22 1	. 94	.039	.18	14	14	.5	2.1)2 7	3.50	_
STANDARD G-2	1.7		3 3	45	<.1	7	2 5	53 2,	08 -	1	2 <2	7	73	<.2	<.5	<.5	5 44	. 65	. 097	8	71	. 62	226	. 134	51	.00	.076	. 50	2 ·	<1 2	.6	3 < 1)1 4	-	
	GROUP 1DX	- 0.	.50 0	SM S/	AMPL	ELE			H 3	ML 2	-2-2	HCL	- HNO	3-H20	O AT	95 (DEG.	C FO	R ONE		JR, C		TED	ro 10) ML,	AN		D BY		I AM	CP-E	\$.			
	ASSAY REC	OMME	NDED	FOR	ROC	V, W K AN		RE SA	MPLE	\$ 1F	່ເບັ	, 30, 28 ZI	N AS	> 1;	X, A	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	30 PF	M &	AU >	1000		B B	··· ·	···· / / /		, LI	n, UK n.:-	- 11		r * 11	•				
	- SAMPLE	I TPE	: KU(-K	A 		01 F	IKC P	133AT	FRU	. 7). /	алл 	, A	<u>sar</u> 1	np r e	<u>a 089</u>		<u></u>	¥-)-	5	<u>reru</u>			<u></u>	are	Reje			.					
DATE RECEI	VED: JU	JL 10	200	10	DA1	re :	REP	ORT	MAJ	LEI	الم י	m	M	19	ויי	I	SIG	NED	BY.	. .		•••		D. TI	OYE,	C.L	EONG,	, J.	WANG;	CER	TIF	ED B	.C. A	SAYERS	5
All results an	e conside	red 1	the c	onf	iden	tiat	pro	perty	/ of	the -	(∕ clier	nt. J	<i>l</i> Acme	855	umes	the	list	oilit	ies 1	for a	actu	alco	ost (of th	ie an	aly	sis o	nly.				C	ata	√FA	
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ADVE ANALYTICA

Pacific Booker Inc. PROJECT MORRISON FILE # A002217

Page 2

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ACHE ANALYTICAL								_																											AC	NE ANALYTICAL
SAMPLE#	Mo	Çu	Pb	Zr) Ag	N1	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	۷	Ça	P	La	Çr	Mg	Ba	Ti	В	A]	Na	K	W	Hg	Sc	T]	S (Ga /	\U <mark>≜≭</mark> \/mt
	ppm	ppm	ppm	ppn	n ppm	ppm	ppm	ppm	X	ppm	ррт	ppm	pbu i	oom -	ppm	ррт	ррт	ppm	X	*	ppm	ppm	Į,	ppm	<u>, x</u>	ipin		- -	\$	phu t	-pin	hhu h		• P	pin gr	
RD-4-167	27.4	3364	41	1068	3 2.5	73	16	603	4.28	1581	<1	<2	7	33	.8	19.8	4.7	58	.44	. 055	12	45	. 25	168	003	4	.86	018	.30	1	<1	6.1	<1.	56 ·	<1	.10
RD-4-168	73.1	3741	6	- 63	8.8	88	21	274	2.58	17	<1	<2	10	25	.3	.9	1.5	62	. 29	.046	13	65	.23	415	.004	3	.84	.041	.24	Ť	<1	9.6	<i .<="" td=""><td>38</td><td>4</td><td>.00</td></i>	38	4	.00
RD-4-169	25.2	1761	4	- 53	3.3	43	9	263	2.34	5	<1	<2	7	20	<.2	.5	.8	73	. 29	.051	12	71	. 56	402	.093	4	.98	.048	- 39	1	<1	0.9	<1.	.1/	4	.00
RD-4-170	21.4	4937	5	51	12.0	31	8	226	1.62	26	<1	<2	4	16	<.2	<.5	. 9	31	.18	.038	5	39	. 19	527	022	2	.52	025	. 15	4	<1	3.1	<1	. 24	2	.00
RD-4-171	57.1	3079	5	48	3.7	63	17	157	3.26	< <u>1</u>	<1	<2	6	78	<.2	<.5	<.5	130	.43	.112	12	99 1	1.66	347	.266	5 1	8/	. 092	1.21	Ŧ	<1.	12.9	I.	4/	8	.09
0D A 172	40.7	3001	Q	5	510	41	12	128	2 45	12	<1	<2	8	28	.2	<.5	.8	86	. 28	.081	14	62 1	1.01	361	. 169	3 3	1.62	.057	.79	1	<1	9.4	1	.47	5	. 09
KU-4-1/2	15.6	2270	1	54	5 1 1	62	20	187	3 40	2	<1	<2	6	33	.2	<.5	.8	93	.55	.128	9	67 1	1.28	176	. 199	1	1.33	.092	. 64	1	<1	5.2	<1	.78	5	. 05
PD. 4-173	26.0	2079	13	19	7 3 7	59	12	350	3.65	38	<1	<2	8	52	.8	1.8	1.3	93	1.26	.129	13	63	1.22	123	.141	4	1.28	060	.51	1	<1	6.9	<1	,74	4	.05
PD_4_174	6.2	1018	23	16	56	28	8	427	2.60	13	<1	<2	8	27	.4	<.5	<.5	43	.08	.015	17	16	. 28	487	.024	3	1.03	.025	. 23	<1	<1	7.2	<1	. 24	2	.01
PD-4-175	29.2	1852	4	9	2 1.5	52	13	370	3.63	6	<1	<2	8	37	.3	<.5	.7	94	.53	.103	13	79 :	1.56	394	.117	2	1.95	.064	. 58	1	<1	8.8	1	. 35	6	.03
10-4-110	63.6		•					•		-																					_		_			
80-4-177	23.9	1594	l 7	5	5 1.0	35	10	175	2.15	6	<1	<2	8	29	<.2	<.5	<.5	57	. 25	.058	11	32	.72	420	.080	2	1.15	.065	.53	1	<]	7.2	1	.41	4	.05
PD-4-178	101.1	1771	7	9	2 1 4	43	10	242	2.56	15	<1	<2	7	28	.3	<.5	. 8	38	. 29	.051	12	24	. 26	223	.004	1	1.09	.042	. 26	<1	<1	6.4	1	. 53	2	.04
RF RD-4-178	92.3	1771	7	8	91.4	44	10	239	2.58	14	<1	<2	7	27	.4	<.5	<.5	38	. 29	.051	12	24	.26	206	.004	2	1.08	.041	. 25	<1	~1	6.3	<i< td=""><td>. 55</td><td>2</td><td>.04</td></i<>	. 55	2	.04
RD-4-179	21.2	1625	5 7	9	91.4	55	22	299	3.32	9	<1	<2	8	22	. 5	<.5	<.5	69	.27	. 084	11	35	.70	264	.033	3	1.50	.043	. 33	1	<1	/.1	<1	.55	4	.02
RD-4-180	25.6	937	7 4	3	7.5	51	14	267	3.73	4	<1	<2	5	19	. 2	. 9	<.5	83	.16	.064	12	38	.57	232	.066	3	1.77	.048	. 30	1	<1	8.Z	<1	.49	4	.01
R																											1 00	~ ~ ~		.1	-7	7 0	-1		2	ליח
RD-4-181 🗥 😋 Z	5 18.7	847	76	4	4.7	40	14	186	2.46	10	<1	<2	8	19	.2	<.5	<.5	59	.10	.034	12	25	.37	259	.050	<[1.22	.046	.23	<i 1</i 	<1 -1	10.2	<1 ~1	.44 EA	10	.02
RD-4-182	96.4	1865	57	- 18	0 2.6	62	20	369	4.12	49	<1	<2	5	35	.7	<.5	<.5	130	.52	.124	10	98	2.05	265	.1//	5	2.35	.072	.04	1	~1	10.3	~1	. 94 05	10	- 01
RD-4-183	44.7	7 1730	6 8	16	8 3.0) 59	31	402	4.99	23	2	<2	11	- 33	.7	<.5	1.0	108	.72	.138	12	12	1.80	149	.122	5	2.13	.073	. 00	1	~1	5.5 7 N	~1	. 90	2	02
RD-4-184	23.8	3 1343	3 50	- 38	5 2.4	49	10	596	4,45	56	<1	<2	11	23	1.3	<.5	1.5	100	.50	.123	20	54	1.00	355	.000.	5	1 02	0,00	.40	~1	~1	5.9	~1	. 20	5	< 01
RD-4-185	5.3	3 1143	36	10	5 2.3	3 36	10	283	4.38	5	<1	<2	8	26	.2	<.5	<.5	/4	.32	.048	10	35	. 69	225	.050	2	1.23	.040	. 00	~1	~1	9.0	~1	.07	5	3.01
											-1	-1	c	25	1 0	- c	~ 5	69	62	067	Q	28	78	182	003	4	1 62	048	27	<1	<1	5.7	<1	.30	4	.02
RD-4-186	22.9	9 98	89	20)6 3.ž	2 31	. 10	350	3.60	/1	-1 -1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	С 2	20	1.0	>,ə 			30	122	10	24	59	155	006	<1	1 92	.063	.22	ī	<1	5.3	<1	.20	4	<.01
RD-4-187	3.0	5 30	1 5	7	7,4	1 24	11	205	4,32	12	- <u>-</u> 1	-2	ס ד	- 31	د.	0	~.3	60	.00	120	0	32	51	192	007	4	1 20	028	.28	ī	<1	6.9	<1	.82	3	< 01
RD-4-188	6.3	2 52	/ 28	15	1.1	L 48	24	001 001	3.00	1054	~1	~2	/ A	120	o. ۵	10 6	1 2	, 55	1 20	005	7	22	43	120	002	4	86	013	.22	<1	<1	5.9	<1	. 59	<1	.03
RD-4-189	7.3	1 98	Z 21	20	33.0	5 4:) /5	981 704	4.13	1904	2/	~2	26	130	23.9	16 2	22.2	1 97	56	000	18	178	63	172	095	23	1.97	.040	19	16	1	4.6	2	.03	7	3.57
STANDARD C3/AU-1	26.	Þ (7.	3) 30) 1t	0/ 5.t	ა კ	. 11	190	3.32	57	24	~ 2	20	οQ	دی.0	10.0	22.0	, UQ			10	1 1 4				20	- • • •				-		-			
STANDARD G-2	1.	5 1	9 2	2 4	<u>11 <.:</u>	1	2	2 537	2.02	<1	1	<2	7	72	<.2	<.5	< 5	5 43	.63	.102	8	77	. 60	238	. 131	2	.96	.074	.48	2	<1	2,7	<]<	<.01	5	-

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Sample type: ROCK. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data A FA

716 DOL B. HASTINGO ST. VANCOUVER DC . . IR6 1.16 1)21 P1____ (60_ 343.... ACHE ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) ASSAY CERTIFICATE Pacific Booker Inc. PROJECT MORRISON File # A002217R 10th Floor - Princess Bul, Vancouver BC V6B 4W4 Submitted by: Gordon Weary SAMPLE# Cu 8 .475 TR-8-143 RD-4-163 .692 .470 RD-4-170 RE RD-4-170 .471 GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns. - SAMPLE TYPE: ROCK PULP JUL 20 2000 DATE REPORT MAILED: Unly 24/00 SIGNED BY . MANG; CERTIFIED B.C. ASSAYERS DATE RECEIVED:

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

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TRENCH LNRD (N OF TR-4) OCT 22/00 Orientation/length: S-N/280 m

Location: N. Zone, west of MO-21

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Late: October 1999, Logged By. c. Brien and TOCr. rage 1 or 4

		Visua	l						Descriptiv	e														Assays		
From m	To m	ROX	ск	strike	dip	strike	dip	VEINS	Lithol	Alt'n	Çalot	Hard	Weath	Mag	Veinie t%	сі	Ср %	Bn %	Mai	Ру %	Ca/ Cb %	Bio %	Description	Sample No.	Cu %	Au g/t
Q	. 1	O/B					}							<u> </u>												
1	6	++		236	54	131	53		BFP	K- minor Phyll	dk - med gry	6	1-2	N		N	0	0	0	,5	0	5- 8		LNRD- 389		
6	10		-	189 63	69 32	70	90		zs	phyll & clay	lt brn / med gry	<6	1-3	N		0	٥	0	O	0	0		a highly fract'd zone at 8 m; contact is at 107/78 and adjacent to bx'd zone; bx'd zs is at 9 m	LNRD- 389		
10	20			55	89	15	81		BX'D ZS W/ BFP DYKE	phyll & clay	med-lt gry	<6	1-2	N	8-10	N	o	o	Û	.5	0		bx frags are coarse and fine grained zs; BFP is sub-	LNRD- 390		
				1					BFP DYKE	phyll & clay	lt blue/lt gry	5-6	1-2	N	8	N	Tr	0	0	<.3	.5	-	horizontal at ~27/37; fract'd zone at 20 m	LNRD- 390		
20	24								zs	phyll	lt gry/med arv	5	2-3	N	8	N	.5	0	0	.5	0	-	strat. Higher ZS only has cp	LNRD- 392		
24	30	++		212	72				BFP	phyll	lt gry	5-6	1-2	N	8-10	N	.5- .7	0	0	.5- 1	.5	-	very oxid along fracts; cp along vnlts	LNRD- 392		
30	40	+ +		196	71	354	52		BFP	phyll	lt gry/ blue	5	1-2	N	<5	N- W	<.5	0	0	<.5	0	0	py along fracts and vnits; cp decreases down interval	LNRD- 393		<u> </u>
40	41	O/B		T	1	1			0/B								L		L						L -	L
41	43	++							BFP	phyll	lt gry/ blue	5	1-2	N	<5	N- W	<.5	0	0	<.5	0	0		LNRD- 394	L .	
43	50	+-+-							BFP & ZS/SS	phyll	lit brn/ lt gry	4-6	1-3	N	0-10	N- W	0- Tr	o	o	.5	0	0	ZS/SS is highly frac'd & oxidized; either many dykes of BFP or zenoliths of ZS/SS (unknown); py vns up to 5 mm thick	LNRD- 394		
50	57								SS/ZS	к	gry	4-7	1. 5	-	<1	-	-	-	-	-	<1	•	small Bx w/ SS and ZS at 50.5m; 50.5-57 m is mainly ZS	LNRD- 395		
57	60	till	1						till								<u> </u>			Γ_						<u> </u>
60	64	++	<u> </u>						BFP	K (phyll)	med gry	5	1-1.5	w	3-4	_	6	-	-	2	<1	5-7	bedrx; fresher bio books	397		
64	64	till		-r	- 	·r ···	- 1-			1	<u>-</u>	-тт	т	τ·	— …	·		r—	. – ı		·1	T		512		
64	69	++				 	_			(phyll)	med gry	5	1-1.5	[w	3-4	<u> </u>	.6	-	· -	2	<1	5-7		397		
69	70								SS	phyll	lt gry	4	1	-	1-2	<u> </u>	-	-	-	<1	-	-		397	L	
70	77			36	90	350	90		ZS/SS	ĸ	dk gry	5	.5	-	_ .	-	-	-	-	·	-	•	ZS is interbedded with coarser seds; fine-med ss	LNRD- 397	L .	
77	78	-,-,-							BX seds & BFP	ĸ	dk gry	7	2	-	5	-	-	•	. 	1	-	-	70 70 1 1 70	1 LNRD- 397	 	<u> </u>
78	79								ZS	ĸ	dk gry	7	1-2	-	<2	-	-	-	-	.3	-	-	/8-79 bxd ZS	100-100-100-100-100-100-100-100-100-100		
79	60								SS	phyll	It gry	7	1-3	-	-	-	5-	· -	low	tr	-	-	/9-80 tract's zone w/ mai and blebs of cp	397		j .

 TRENCH LNRD (N OF TR-4) OC1 22/00
 Location:
 Date: October 1999, Logged By: E. O'Brien and T.O'CP. Page 2 of 4

 Orientation/length:
 S-N/280 m
 N. Zone, west of MO-21

	,	Visual							D	escriptive	5											_			Assays		
From m	To m	ROC	ĸ	strike	dip	strike	dip	VEIN	5	Lithol	Alt'n	Color	Hard	Weath	Mag	Veinle t%	а	Cp %	Bn %	Mai	₽y %	Ca∕ Ca∕	Bio %	Description	Sample No.	Cu %	Au g/t
										SS/								- T						SS is very hard: either silicified or	LNRD-		
-80	81									wacke		gry								_ [composed of mainly QZ; less than 10% frags of 1 mm	397		
							<u> </u>	<u> </u>													-			at 81 m is end of bedrock; same spl	LNRD-		
81	90																							as previous (397); 90-85 caved	511		
							<u> </u>											-	_					in (poorly consol.			┝──┨
90	100	0/В								O/B														Sand/gravel/slump). Deep	SMPL		
						 						lt												overburden; ,5-4.5 m deep cp on Qz vn. 1 mm thick? V f cp			───┨
100	105	++		1						BFP	phy⊮ ara/k	gry/med	2-5	2-3	-	0-3	W	.5-	-	-	1	-	2-3	specks; discontinuous exposure	LNRD-		
					L				L		avoillar	gry thanal til		26m d	anth:		a tak		110		_			102 - 103 m till op either eide: BEP			
105	110	till								tiN	excellen	i dasai ili	atə	.2011 00	epin: a	sampi			114	2 111				float up ice of bedrx;	510		
																								predominant clast @ base is mdm-			
																								also SS with 10% 1-2 mm size frags	NO		
110	120	till								till														(chert, qz, etc.) till @ 3 m depth;	SMPL		
								mineralized													fleat: blk BFP, gry ZS1; poorly mineralized						
120		SIG				sand & imbricated														 							
120		sand	120	¢m				<u> </u>		gravel	eand w/	large col	hlo c	Ironetor		orobal		Inter						······································	· · ·		
	l	coll.	1.0	Çin						coll Till	colluvial	ed till, lg	copp	les to b	oulde	rs con	imon	<u>i și cu</u>							· · · · · · · · · · · · · · · · · · ·		
			220	cm				<u> </u>		till	nandu ti				 d elial	hthu e		127.1	179	mie	door	heet	nart	of trench:			
120	430	- <u>Un</u> -	300					<u> </u>			<u>sanuy u</u>	at 179 m) cm de	oth a	iniy, s vo bod		41-	20	1115	uce	1631		excellent basal till, boulder clay	LNRD-		<u>+</u>
120	130		400			 		T			sample	at 120 ii	1, 401 [<u>ркн, п</u>	o veu			_					ourth floot collected at 121 m; RED	509		┝──┥
130	134	till								till														text obit'd w/ cp.hem gossan	413		
			ļ	_	<u> </u>		_	ļ	-					 -	Ļ	L									(FLOAT)		┼┦
134	140									ZST	к	ary gry	4	1-2	-	<2	-	-	-	-	-	<1	•		396		
140	141	till		<u> </u>			_			till							_										
141	145									zst	к	mdmi	4	1-2	-	<2	-	-	-	-	.5	<1	•	Bx'd locally; clay eltered locally	LNRD- 396		
145	150	till	spi co	di'd ab	ove	b/r, at	3 m	depth	i; sai	ndy, not gr	eat; smp	l at 141 r	n; col	luvium	or wa	shed	till- sa	indy	mat	rix -							
145	150	till	proba	ably sir	nilar	to uni	t at	220-3	50 ci	n depth in	sec'n w/	till #509	float	of zst &	S BFF	w/p	y 1-2	%; lg	anç	jular	bou	ders					
150	1 <u>52</u>	<u> 0/B</u>	ļ	·						O/ <u>B</u> _		<u> </u>									-		-				
152	154	++								BFP	K-silic	dk gry	7-8	1	N	0	N	1-	-	-	1	-	8		LNRD-		
154	100		ļ				···· -					<u> </u>				_				 						·	+ .
134										0,6								╞╌┥						finely laminated silt and clay w/			
160	170	Isilt &								silt & clay	7		ĺ											diamicton interbeds and colluvium	NO SMPL		
L		Ciay							L															capping the unit		l	

TRENCH LNRD (N OF TR-4) OCT 22/00

Location: N. Zone, west of MO-21

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Date: October 1999, Logged By: E. O'Brien and T.O'CP. Page 3 of 4

Orientation/length: S-N/280 m

From To m To 170 17 174 18 180 18 184 19	74 80 84	ROCK	strike dip strike dip	VEINS	Lithol	Alt'n	Color	Hard	Weath	Man	Veinie		Co	Bn		Ρv	Ca/	Bio	_	6	Cu	
170 17 174 18 180 18 184 19	74 80 84	BFP	233 69							mag	t%k	CI	%	%	Mal	%	%	%	Description	Sample No	%	Au g/t
174 18 180 18 184 19	80 84				BFP	k-sili¢	dk gry	7-8	1	N	0	N	<u>1-</u> 1.3	-	-	1.5	0-	5-8	cp is coarsely disseminated	LNRD- 409		
180 18 184 19	84	till			till							-										
184 19	1	<u>till</u>			till		Lilla k												has the avidinast 70 abandas from			⊢ -
	90				ZS/SS	clav	blue	<5	3	Ν	<2	Ν	Q	-	-	<.5	-	1	blk to it blue (coarser grained?)	408	1	
190 19	92				BX'D ZS/SS	phyil & clay	lt gry- blue	<5	3	N	10	N	0	0	0	.5	0	-	vns are heavily oxidized	LNRD- 407		
192 19	94				ARG/SS	?	bik	<2	2-3	N	0	N	0	0	0	0	0	0	black graphitic argillite w/ phyllitic foliation	LNRD- 407		
194 20	200		<u></u>		25/ 5 5	phyll & clay	lt blue/ gry	<5	2	N	0	N	<.5	0	Tr	.5- .7	0	Q	becoming less fract'd to the north	LNRD- 407		
200 20	202	-,			BX'D ZS/SS	phyll & çlay	lt gry- blue	<6	2	N	5-8	N	o	٥	0	.5- .7	Tr	ο	py is found along vnlts and some fracts; this zone was sampled and combined with #407	LNRD- 407		
202 21	210	till			till							_										
210 21	211	+ +			BFP	phyll & ctay	lt gry- blue	<5	2	Ν	-	N	.5	-	•	.7	-	-	cp is in specks along tracts;	406		
211 21	213			- +	ZS	phyll & clay	lt gry	<5	2	N	-	N	<.5	-		<.5	-	•		LNRD- 406		
213 21	214	* +			BX'D BFP	phyll & clay	lt gry- blue	<5	2-3	N	-	N	.5	-	-	.5- .7	_*	-	contains minor ZS frags; this 4 m interval appears to be 2 BFP dykes intruding ZS along a contact trending 314 degrees;	LNRD- 406		
214 2	220	till	······································		till							·	-									
220 22	228	till			till	L . —				[
228 22	229				ZS	minor clay	dk gry/ blue	<5	2	N	2-3	N	0	0	0	0-tr	.5	-	massive; not too rusty	405		
229 23	230	_till _			till	ļ.,				<u> </u>												
230 23	232		207 76		zs	clay	dk gry	<5	1-2	N	2	Ν	0	0	0	<.3	0	-	Inassive ZO; a rew veins	404		
232 23	238	till			till		·····					İ							sample taken at 231 m just above bdrx	LNRD- 507		
238 24	240	++			BFP	phyll & clay	lt gry/bl	5	1-2	N	0	Ν	0	0	0	1	0	<.5	primary bio increases to the north	LNRD- 404		
240 24	242	+ +			BFP	phyll & clay	It gry/bi	5	1-2	N	0	N	0	0	0	1	0	<,5		LNRD- 403		
242 2	246	•-			SS	phyll & clay	It bl/gry	<5	2	N	3	N	0	0	0	lo	0	-	no visible py; contact w/ BFP is covered; massive w/ few vns	LNRD- 403		
246 2	250	till			tili	┦━━━	<u> </u>						1.		_	-		 	<u> </u>			+
$\frac{250}{2}$	251	<u>till</u>	<u> </u>	- +-	<u> </u>	nhưil A		+		- . ·				 		+-			Coarse and fine orained seds: blebs	INRD-		
251 25	259		350 90 75 74		ZS/SS	clay	lt gry/bl	5	2	N	1-2	N .	0	0	0	1.2	0	!	of py in fracts and vnits	402		
259 2	260	till	· · · ·		tiH		───			<u> </u>			+			 	ļ					—

Date: October 1999, Logged By: E. O'Brien and E.O'CP. Loge 4 or A TRENCH I NRD (N OF TR-4) OCT 22/00

Orientation/length: S-N/280 m	N. Zone, west of MO-21
Visual	Descriptive

		Visual		De	escriptive	;														Assays		<u> </u>
From m	To m	ROCK	(strike dip strike di	VEINS	Lithol	Alt'n	Color	Hard	Weath	Mag	Veinle t%	а	Ć₽ %	Bn %	Mai	Py %	Ca/ Cb %	Bio %	Description	Sample No	Cu %	Au g/t
264	270	+ +			BFP	phyll & clay	med gry	5	1-2	N	1-2	N	U	σ	· 0-	1- 1.2	0-	<.5		LNRD 401		
270	280	+ +	85 90 2	0 80	BFP	K-silic	dk gry	6-7	1-2	N	2-3	N	o	0	0	<.5	0	1- .5	some 2nd bio; py & silic decrease to the north; primary bio increases to the north	LNRD- 400		

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RENCH LNRD (S OF TR-4) OCT 20- 25/00 Orientation/length: N-S-338-920 m

Location: N. Zone, west of MO-21

Date: October 1999, Logged By: E. O'Brien and T.O'CP. Page Tor CHRIS BAMPSon

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	<u> </u>	Visua	<u>I</u>				_		Descriptiv	'e														Annue	-
From m	To m	ROC	ск	\$trike	dip	strike	dip	VEINS	Lithol	Ait'n	Color	Hard	Weath	Мад	Veinia t%	CI	Cp %	Bn %	Mal	Py %	Ca/ Cb %	Bio %	Description	Sample No.	C 9
328	334	++							BFP	phyl, wk arg	lt gry- buff	5	1-3	n	<5	n	tr.	n	n	1	<1	n	Trench doglegs off of TR-4. Part of this interval was not trenched down to bedrock. Matrix of rock is alt'd to ser, bio's have alt'd to ser. F/s alt'd to clay partially. Few specks of cp, py on fracts, Till at 200 cm depth, collected above b/r @ 333 m.	LNRD 371 LNRD 501	
335	347																						Not trenched - used as an access trail.		
347	395	0/В		_					COLLUV														Layered sand, colluvium and glaciofluvial sediments.	NÓ SMPL	
395 403	403 405	++	grab grab						BFP BFP	phyl, wk arg K	it gry dk gry	5 6	2-3 1-2	n	<5 <5	n n	0 1	0 0	0	1 0,5	<1 <1		Grab samples of subcrop, colluvium. Large boulders mainly BFP. Some exotics (not sampled). Specks of py. K att'd BFP has 1% f.d. Cpy (probably float - large SR-SA boulder)	LNRD 372 GRAB	
405	431.5	O/B							COLLUV														Sandy colluvium and glaciofluvial sediments showing evidence of channilzed flow, NO BEDROCK.	NO SMPL	
31.5	434	++		_					BFP	К?	orange	5-6	4	n	<5	n	0	n	n	1?	n	3+	Sample is very weathered but with fresh bio xals. Not pervasive, so possibly phyl alt'd locally.	LNRD 373	
432	432	0/В							TILL						,	_							Till is collected over large boulder of BFP b/r,	LNRD 503	_
432	460	O/B							COLLUV														Thick deposits of colluvium and glaciofluvial. At 460 m, ledge drops down with bedrock exposed at approx. 250 - 300 cm depth.	NO SMPL	
460	465	zs⊤		220	85				ZST	К?	med - dk gry	4	1-2	n	2-3	v. wk loc.	0	n	low	0	1	σ	Grain size is slightly coarser than typically observed.	LNRD 374	
165	470	0/В							ŤILL								_						Till with large boulders of BFP	NO SMPL	
70	475	ZST							ZST	K? or u na lt'd	med gry	4	1	n	3-5	n	n	n	n	n	3	n	Discontinuous carb veins. ZST is powdery with slicks and sheen. Gouged and fract'd. Locally clay alt'd.	LNRD 375	
75	483	ZST							ZST	K? or unalt'd	med - dk gry	4	1-2	n	1-2	n	n	n	n	n	n	n	ZST has microfracts. Falls apart and is much softer than typically obs.	LNRD 376	
83	485	BFP							BFP	phyl	lt gry	1-3	n	n	1-2	n	.6 - ,8	n	n	2-3	n	2-3	Locally weakly weathered, but mainly moderatly weatered.	LNRD 376	 ·
85	491	BFP		80	80				BFP	phyl- arg	lt gry - wht	5	1-3	n	2	n	n	n	n	<1	n	0	Wethered quite deeply, <1% py, no cp?	LNRD 377	
91	492.5	GOS			_				GOSSA N	arg - phyl	wht - lt. Gry	4	3	n	3-4	n	2	n	tr.	4	n	n	Gobs of cpy, some on fractures. Hand samples collected.	LNRD 377	
																									-

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TREINCH LNRD (S OF 1R-4) OC 1 20- 25/00 Orientation/length: N-S-338-920 m

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and the second second second second second second Date: October 1999, Logged By. E. O'Brien and T.O'C. Hage 2 or 4

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From m To	o m	RO	ж	strike	dip	Strike	dip	VEINS	Lithol	Alt'n	Color	Hard	Weath	Mag	Veinle t%	a	Cp %	Bn %	Mal	Py %	Ca/ Cb %	Bio %	Description	Sample No.	Cu %	Au g/t
486 49	92.5	BFP							BFP w/ GOS	as above													Trench was deepened and resampled by D. Addison.	LNRD 383		
492.5 49	93.5	BFP		.—					BFP	phyl - arg	lt. Gry	5	2-2.5	n	<5	'n	n	n	n	1	<1	n	Deepened to about 400 cm. Py on fracts in BFP	LNRD 384		
493.5 4	499	ZST							ZST	k?7 clay	med - dk gry	3	1-1,5	n	<5	n	n	n	n	n	1	n	ZST is quite coarse and could be a fine grained SST. It is clay alt'd with carb veins. Visible layering.	LNRD 384		
497 4	497	Ö/B					·		TILL					÷									Excellent till collected right above b/r at about 400 cm depth.	LNRD 506		
498 4	498	0/В							TILL														175 to 200 cm of A-SR large pebbles and cobbles over good till. Sample collected at 225-250 cm cm depth	LNRD 504		
498 5	505	0/В							Q/B														Thick overburden.	NO SMPL		
505 5	515	0/В							0/В															NO SMPL		
515 5	525	0/В	grabs					*****	O/B														Grab sample collected in this interval from trenched up clasts. Most samples are oxidized, with some mal, coy in alt'd BFP.	LNRD 378 GRABS		
520		COL	125	¢m					COLLUV	40% SA	-SR clas	ts in :	a coarse	san	d, oxic	ized	matri	ix. D	own	slop	e fab	ric.	Quaternary stratigraphic sec'n.			
		S	225	cm					SAND	Laminat	ed sand,	dippi	ng dowr	slop	e ata	pprox	imat	ely 1	45/3	30.		_		NO SMPI	-	4
5	520	D.F	300	cm					DE8RIS FLOW	Flow or 1	washed t	ill. Ve	ry sand	y with	n low s	silt an	d no	clay	/ ¢on	ntent.	Dov	vnsi	ope layering.			
525 5	540	O/B																	_				Cross IP line 1525 N, 2125 E at 538	NO		
540 5	555	O/B			·			Ī	O/B	Grab spl	s are we	akiy r	nin'd In	c. boi	ulder o	of bre	cciat	ted g	0858	anou	is BF	Р.	Boulder is very rusty and likely not	OWIE L		
					·					Matrix of	BFP is a	ik gre	ey (qz al	nd py	?). In	matrix	k are	anc	ular	frag	men	s of	cherty ZST		+	
555 5	565	Ø/В							O/B	At 555 m	, thick coll	uvium	/ Fg with	SAC	obbles	and I	ould	ers i	n a s;	andy	metr	ix.	At 565 coll. (200 cm depth or more) is underlain by very fine, laminated sand and silt.	NO SMPL		
565 5	570	-							zs⊤	clay, K?	med - dk bl gry	з	2-3.5	n	3-5	n	n	n	n	1-2	tr	n	Probably coarser grained than typical ZST. Some microfractures with py vns/ stringers. Mod. Clay att'n locally. Mod strong oxid. Loc			
570 6	520	Q/B							O/B	200+ cr	n of SA-8	R bo	ulders	& peb	bles v	v/ sar	nd ov	/er 1	00 c	m of	clay	/silt	No till.	NO		
621 6	521	Q/B							TILL	0-100 cm	is coll. till	. 100-	200 is lo	ose til	l with :	sand I	ense	s. 20	0-30	0 is t	il1.		Very good, hard till. Cp content in float decreases	LNRD 505		
625 7	775	O/B							O/B	Similar s	tratigraph	iy as	above.	Samp	ole col	lected	l eve	ery 1	0 m.	. [T	-				<u> </u>
625 6	525	O/B							TILL				••••••••••••••••••••••••••••••••••••••					-		1	L		Excellent basal till. 270 cm.	LNRD		

TRENCH LNRD (S OF TR-4) OCT 20- 25/00

Orientation/length: N-S-338-920 m

Location: N. Zone, west of MO-21 Date: October 1999, Logged By: ∟. U'Brien and T.O'Cr. rage 3 or 4

Descriptive Visual Assays Ca/ Ру % Ср Bn Bio Cu From Veinte ROCK Lithol Alt'n CL Mai СЬ Description To m strike dip strike dip VEINS Color Hard Weath Mao Sample No. Au g/t % % % ٩, m 1% % Very good, dense till, 250 cm depth. LNRD 635 635 O/B TILL 520 Float with 2% py, <1% cp. Good till LNRD 645 645 O/B TILL at 220 cm. 521 Very dense, good till, 350 cm depth LNRD O/B 655 655 TILL 519 Initially thought to be bedrock, but trench was deepened and revealed LNRD 662 663 GRAB BFP κ dk gry 7 1-3 0 0 0 1 0 hi 0 0 <1 this to be a large boulder. Abundant 381 mal on weathered surface. LINRD Good silty diamicton. 666 O/B 666 TILL 518 NO 675 O/B 666 TILL SMPL This rock may not be in situ, but .5 .5 m-LNRD 675 678 + + + BFP ĸ dk gry 3-5 <4 0 Ô .5 <1 2 good basal till lies above, md 1.5 1.5 low 435 No bedrock NO 0/B 678 682 TILL SMPL Possibly some pyrrhotite. Too dk gry, LNRD m-.5 magnetic to measure fractures. 682 683 BFP ĸ loc, Grn 3-5 .5-1.5 md <4 0 0 .5 <1 2 + + + low 1.5 435 Large, blocky fracts, tinge SAND & NŐ 683 705 O/B No bedrock. Few irge cobbles or boulders. 450 cm deep. GRAVE SMPL 705 0-200 cm of well-sorted fine pebbles, slightly snadier top 40 cm. Imbriated downslope. 705 O/B O/B Till sampled. LNRD O/B 200 - 220 cm fine silt (lies adjacent to large BFP boulder, 220 300 till. 517 AS above. NŐ 707 Ø/B O/B 705 SMPL Discontinuous bedrock?? Could be LNRD 1.5 mdm ٧. .5 1.5 BFP 5 707 708.5 + + + к .5 wk <3 0 0 1 large blocks of transported BFP?? wk .7 2 2 434 gry SAND & NO 712 708.5| O/B No bedrock, Poorly consolidated sand and gravel and cave. GRAVEL SMPL Discontinuous bedrock?? Could be 1.5 large blocks of transported BFP?? mdm ٧, 5 1.5 LNRD BFP 5 .5 0 0 712 715 + + + K wk - 3 wk .7 2 2 Masses of py> cpy, possibly 434 gry pyrrhotite. Three ares probably BFP bedrock, + suspect though and may be just 1.5 Disc. mdm 0.7 LNRD 715 30 90 κ 5 .5 0 0 large boulders. Competant but 725 Q/B wk 2 wk 1 BFP -1 2 2 433 gry discontinuous. Py is in gobs, fine + masses. Sampled before the trench was deepened. Likely bedrock, Peppered LNRD Disc. 0 722 dk gry O 3-5 <1 <1 730 + + κ 6 <1 m-s 0 0 <1 BFP with f.d. py, some f.d. cpy and blebs. 382

TRENCH LNRD (S OF TR-4) OCT 20- 25/00

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Cu %

Au g/t

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TRi Oria	≟NCH ∋ntatio	LNRE n/leng	D(S) gth:	DF 15 N-S-3	₹-4) 38-9	ОСт 920 п	20- 1	25/0	U			I	N. Zon	Loca e, wa	ation: est of	MO-	21			Uate	: 00	tobe	er 1999, Logged By: E. O'Brien and T.	0'Сн. н ад
		Visual							Descriptiv	e														Assays
From m	To m	ROC	ĸ	strike	dip	strike	dip	/EINS	Lithol	Alťn	Color	Hard	Weath	Mag	Veinle t%	СІ	Ср %	Bn %	Mal	Py %	Ca/ Cb %	Bio %	Description	Sample No.
722	730	+ +							Disc. BFP	к	dk gry	6	<1	m-s	0	o	<1	Ó	0	3-5	<1	<1	Sampled before the trench was deepened. Likely bedrock. Peppered with f.d. py, some f.d. cpy and blebs.	LNRD 382
725	733	++							BFP	K (phyl)	mdm gry	6	1	wk	2-3	0	1. 1.5	0	low	1- 1. <u>3</u>	<1	2-3	BFP is well min'd with fine masses to gobs of cp/pyrrh.Fine masses of bio. Cp mainly on fracts/vns. Poss.	LNRD 432
733	735					·	·		ZST	K phyl?	lt - mdm gry	4-5	<1	0	<2	Ô	0	0	iow	0.5	<1	0	ZST as below except 734 m is a fractured/oxidized, brecciated zone with strong Fe Oxid, low mal.20 cm wide.	LNRD 432
735	745			350	33				ZST	K phyl?	lt - mdm gry	4-5	<1	٥	<2	0	Q	0	0	0.5	<1	0	Py in veinlets and rare specks. Good rock exposure. Several quite broken- fractured areas, some with vns with strong Fe oxid.	LNRD 431
745	747			124	88	240	74		ZST	K? clay	dk bl gry	4	<1	0	<2	0	0	0	tr.	1	<1	0	ZST looks cherty but is not hard. Weak clay alt'n. Pu venlets and cp next to 2 cm oxid.gg	LNRD 430
74 7	748	++		45	68	197	80		BFP	к	mdm gry	5-6	1.5	м	<5	0	tr. 0.3	0	0	2	<1	2		LNRD 430
748	755					34	80		Disc. ZST	K-phyl	It gry to v. It tan	4	1-1.5	N	3	0	tr.	0	0	.5	<1	0	Discontinous ZST with till. ZST as above.	LNRD 430
755	7 57	O/B							TILL															NO SMPL
757	757.5	•			·				BX ZST	K?	med - dk gry	5	2	0	10	0	0	0	0	5	5	0	Masses of py and q veining	LNRD 436
757.5	758	+++							BFP	phyl	ash	5	1	0	2	wk	.2	0	0	.5	0	0	Unusual color.	LNRD 436
758	765	0/В						_	TILL						┣╸·	 			+				Spl collected at 764 m. Washed till / glaciofluvial overlies silt. Till at the base of the trench at 250 cm.	NO SMPL
765	772								SST w/	K phyl	lt gry	4	1	n	2-3	٥	0	0	٥	<1	<1	0	Mainly fine sst with minor zst interbeds locally. Specks of py.	LNRD 429
772	775	O/B							TILL									_					Till collected at 775 m	
775	785	0/В	grab	\$					FLOAT	Grab sp	ols from ti	he ba	se of th	e pit i	n basa	al till.							BFP is K with coarse py/cpy stringers. SST is K-phyl , unmin. ZST is unmin'd	LNRD 428 GRABS
785	785	O/B							TILL	Collecte	ed at 425	cm d	epth. D	eep c	verbu	rden.								LNRD 515
785	793	0/В	grab	s					FLOAT	Grabs o	collected	from	boulders	s, pos	sibly	caved	l in f	rom	the t	op o	the	tren	ch.	LNRD 427 GRABS
793	795								ZST	K?, ctay	lt gry	4	1	O	2	0	0	0	0	0	1	0		

TRENCH LNRD (S OF TR-4) OC r 20- 25/00 Orientation/length: N-S-338-920 m

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, **,** Location: N. Zone, west of MO-21

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	۱	Visual							Descriptiv	ė														Assays		
From m	To m	ROCI	<	strike	dip	strike	dip	VEINS	Litha	Alťn	Color	Hard	Weath	Mag	Veinie t%	С	Ср %	Bn %	Mal	Py %	Ca/ Cb %	Blo %	Description	Sample No.	Cu %	A⊔g/t
7 9 5	797	+ + +							BFP	phly - clay	lt gry	4	1	0	0	3	<.5	0	0	,5	1	0	High grade float of BFP with thick vns filled with cp and born collected in float (in till).	LNRD 426		
797	805	О/В							TILL														Good basal till at 410 cm depth.	LNRD 514		
805	815 A.D:	0/B	156	22	4	= 76	28		GRABS									. <u>.</u>					Grab samples of large rocks (cobbles) <u>collected at the base of the</u> pit. Phyl alt'd BFP, moderately weathered <1% 0.3% <u>Cpy</u> .	LNRD 425		
815	825	+ + +	- <u>-</u>	350	90				BFP	K- phyl	lt - mdm gry	5	1.5-2	M-S	3	N- M	. 3 - 1	0	O	2- 2.5	1	2-3	Deep overburden over bedrock. F.d. py, minor cpy. Locaty chl. Alt'n. Better mineralized when with chl/cb/q/ py vns.	LNRD 424		
824	824	О/В							TILL														Good till at 320 cm depth collected above bedrock. B/r is weakly min'd BFP	LNRD 524		
825	832	O/B																						NO SMPL		
832	835	+ + +							BFP	phyl and clay	lt - mdm gry	4-6	1-3	ń	4-6	D	.8- 1	o	o	. 8 - 1	1	0		LNRD 423		
835	845	+++ +BX +++ +		183	56				BFP	phyl and clay	lt - mdm gry	4-6	1-3	n	4-6,	0	.8-	o	0	.8- 1	1	0	0.3 to 0.5% AsPy. This interval includes a highly oxidized BFP bx'd zone with Py/AsPy/Cpy vns. Mo? Occurs locally? With Cp. Aspy also on fractures.	LNRD 422		
845	855	 ++-							BFP w/ ZST zeno	phyl - clay	lt gry	5	1	0	3-4	n-w	.5	0	o	.5	1.5	0	ZST zenoliths, Contact with seds is covered. Very competant, irregular fractures	LNRD 421		
855	865	BX-		199	80				BX'D SEDS	phyl - clay	lt med gry	5-6	1-3	0	4-10	0	0 - 0.8	0	0	.5	tr	0	Heavily fractured, sheared zone with gouges and brecciation. Heavily oxidized. Cp near 855-857 m.	LNRD 420		
865	867	BX		298	70	296	58	8	BX'D SEDS	phyi - clay	It bl gry	5	2	0	5-8	٥	0	0	٥	tr	tr	0	ZST, SST	LNRD 419		
867	875	+ + +	<u>.</u>	209	74	43	40		BFP	phyl - clay	it gry	4-5	1-2	٥	3-4	n-w	0.8 - 1	0	0	1	tr	0	Grey, soft mineral associated w/ Cp (moly? Covellite? Graphite?). Cp is c.d. and some along fractures.	LNRD 419		
875	885	+ + +		139	68			Τ	BFP	phyl-	It gry	4-5	1-2	0	3	n-w	0.8	0	0		2	0	Cp is c.d. and along rare fracts	418		
885	891	+ + +		89	78	120	90		BFP	phyl - clay	It gry	5	1-2	o	2-3	0	0.5 1	0	tr.	.5	tr	0	Cp is c.d. and along fracts/vnites. F/s alt'd to clay	LNRD 417		
891	895			99	58	162	84	4	BX'D ZST	phyl - clay	it bior gry	3-4	2-3	0	3	0	0	0	0	tr	tr	D	Heavily fractured, ZST, includes wacke.	LNRD 417		

TRENCH LNRD (S OF TR-4) OCT 20- 25/00 Orientation/length: N-S-338-920 m

Location: N. Zone, west of MO-21

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Date: October 1999, Logged By: E. O'Brien and T.O'CP. Page 6 of 6

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	1	Visu	al						1	Descriptiv	'e														Assays		
From m	To m	RC	сĸ	strik	(e	dip	strike	dip	VEINS	Lithol	Alt'n	Color	Hard	Weath	Mag	Veinie t%a	CI	Cp %	Bn %	Mai	Py %	Са/ СЬ %	Bio %	Description	Sample No.	Cu %	Au g/t
895	899						·			ZST	wk K, clav	lt gry	4	1-1.5	0	1	0	0	0	0	0	tr	0		LNRD 416		
899	905	+ +	+	_				_		BFP	phyl, arg, wk	lt gry	3	2	0	Q	0	0	0	0	2-3	<1	0	Bleached light gry	LNRD 416		
905	915	+ +	4	73 20	3 5	64 31	325 281	88 74		BFP	phyl - arg	lt gry	5-6		0	<3	0	tr	0	0	3	<1	0	Very crowded texture of f/s alt'd to kaol. Locally gouged with heavy oxid and py stringers.	LNRD 415		
915	920	+ +	+							BFP	phyl - arg	lt gry	5	1-2	o	<3	o	tr	٥	0	3	o	o	END OF TRENCH!! Joins on to main access road. Minor py on vns and fractures.	LNRD 414		

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ACH. ALLY	L L		ATC		F I			in Stan paga Stan paga	Ber	v M N). TI	N	ÌT	5.45 1975 - 7 1975 - 920 - 7 1976 - 920 - 7 1976 - 920 - 7	_` cc	אסי		BĊ). 1 R	•	Ì	F) (6Ċ	ă I	3 + () 	₽ ∧ ´		•)2'	}71 4
AA			D	- i	fir	• 8	ook	AT	GEC)CHI	EMI PRO	CAL JEC	`A 'T'	NAL MOR	YS) RIS	e s Son	CE	RTI RTI	.e	2A.T) # A	E 004	45	6	Pi	age	1						
						10	th F	loor	- Pri	nces	s Bui	, Var	ncouv	er B	C V6	8 444		Subm	itted	by:	Erin	O'B	rien				• 1	Ne		11		Formel
SAMPLE#	Mo ppm	Cu ppm (Pb ppm p	Zn xpm	Ag ppm p	Nî opmip	Co pm	Nn ppm	Fe X	As ppm	U. pprap	Au 1 pm pp	'h S xn pp	sr xn p	prn p	Sib B prn pr	31 DNN 124	v pm	Ca %	Р Х р	La Spin p	or Xpm	Mg X p	ba opm	Хр	ro Aprili	%	Na %	*	ppm g	m/mt	lb
TR-4-360 TR-4-361 TR-4-362 TR-4-363 TR-4-364	2 2 3 2	455 1 3 5 1263 419 984	15 5 6 5 7	90 34 88 61 82	.6 <.3 1.3 .3 1.1	34 36 58 51 58	23 14 33 17 24	354 3 406 4 321 3 284 3 394 3	5.28 5.51 5.62 5.68 5.47	326 65 323 73 237	<8 <8 <8 <8	<2 <2 <2 <2 <2 <2	2 2 2 5 3 4 3 3 2 4	24 52 55 56	.8 .2 .3 .4 .5	43333	उ उ उ उ र उ र र र र	71 76 68 94 64 1	.14 . .58 . .49 . .51 . .36 .	.048 .049 .091 .110 .078	10 10 15 17 13	34 38 40 57 53	.17 5 .47 7 .52 3 .84 3 .34 7	558 276 314 370 244<	.03 .05 .03 .11	4 1 8 2 6 1 6 1 4	1.02 2.58 1.51 1.27 .62	.01 .15 .07 .04 .01	.27 .40 .34 .62 .11	<2 <2 <2 <2 <2 <2	.02 .01 .02 .01 .01	3 14 11 7 3
TR-4-365 TR-4-366 TR-4-367 TR-4-368 TR-4-369	2 3 3 3 2	232 584 5086 6985 264	5 12 98 ! 106 ! 5	39 102 583 4 551 4 61	<.3 .7 42.2 46.2 .4	55 58 47 57 59	23 26 89 4 87 4 22	221 & 419 & 729 & 027 & 365 &	5.00 4.49 5.57 3 8.29 1 4.14	13 377 353 803 113	<8 <8 <8 <8 <8	<2 <2 <2 <2 <2 <2 <2 <2	4 11 3 4 2 2 3 2 2 3	17 41 22 4 27 3 32	.2 .6 .6 .3 .3	<3 < <3 < 26 3 33 < <3 <	<31 <3 18 6 <3	45 1 87 31 82 92	.10 .92 .21 .37 .36	. 145 . 087 . 066 . 076 . 086	15 18 11 18 13	97 2 66 16 64 76	2.46 .83 .10 .51 1.05	202 154 287< 182 309	.16 .05 .01 .02 .09	531 643	3.48 1.11 .75 .82 1.89	.32 .02 .01 .01 .07	1.32 .35 .32 .27 .64	2 2 2 2 2 2 2 2 2 2	.04 .04 1.13 .43 .01	3 6 17 21 22
TR-4-370 TR-4-500 TR-8-391	3 4 8	261 770 769	18 11 38	143 75 202	.5 .9 1.2	47 61 44	24 31 34	860 1 447 416	5.73 4.10 5.59	185 385 294	<8 <8 <8	<2 <2 <2 <2	4 3 4	26 1 43 24	1.4 .4 .8	7 - <3 <3	3 3 3 4	83 66 62 97 1	.49 .38 .60	. 132 . 083 <u>. 147</u> . 144	21 15 12 23	44 49 31 47	.16 .27 .13	276< 312 115< 301<	<.01 .02 <.01 <.01	3 3 4 4	.69 .80 .75	<.01 .01 .01	.09 .15 .12 .08	<2 2 <2 <2	.02 .03 .01 <.01	20 15 11 4
LNRD-371 LNRD-372	2	1 <i>5</i> 6 304	5	50 50	<.3 .3	57 41	21 14	327	4.69	28	<8	<2	3	39	.3	3	<3	77	.71	.113	25	50	.77	324	.05	4	1.12	.02	.30	<2	.01	3
LNRD-373 N. Soct LNRD-374 LNRD- 375 RE LNRD-375 LNRD-376	4 1 1 4	393 366 100 99 482	10 <3 <3 <3 6	81 27 21 20 62	<.3 <.3 <.3 <.3 <.3	57 23 58 57 44	22 12 18 18 31	369 103 270 272 451	4.88 1.22 2.38 2.41 4.66	89 119 57 58 234	<8 <8 <8 <8 <8	<2 <2 <2 <2 <2 <2 <2 <2	4 2 2 3	38 34 16 16 32	.5 .5 .4 .2	< < < < < < < < < < < < < < < < < < <	33333	98 22 42 41 84	.52 .08 .12 .12 .43	.144 .012 .012 .012 .012 .120	23 11 14 14 22	48 12 16 16 34	.44 .08 .24 .24 .64	379 304 135 133 365	.03 <.01 <.01 <.01	3 3 3 3 3 3 3 3 3	.80 .69 1.15 1.15 1.12	.05 .02 .03 .04	.19 .17 .22 .22 .43	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	.01 <.01 <.01 <.03	12 5 - 13
LNRD-377 LNRD-378 LNRD-379 LNRD-380 LNRD-381	6 6 3 5	1819 2528 501 245 5394	33 10 10 4 13	187 116 65 23 225	3.7 1.4 1.1 <.3 5.0	45 53 51 41 52	62 28 19 26 26	705 368 232 263 262	6.19 3.56 3.70 5.28 4.39	1243 292 65 53 281	<8 <8 <8 <8 <8	<2 <2 <2 <2 <2 <2 <2 <2	3 3 3 2 5	21 40 34 71 24	9 5 2 7	3 3 3 4 3	<3 ' <3 <3 <3 <3 <3	108 93 61 32 88	.51 .76 .60 .12 .44	.156 .116 .093 .014 .149	23 16 8 6 7	38 77 54 13 82	.14 .95 .83 .06 1.74	361- 388 110 247- 180	<.01 .09 .05 <.01 .04	44334	.70 1.24 .98 .58 2.05	.01 .03 .04 .04 .04 .04	.08 .42 .17 .11 .36	<2 3 2 2 2 2 2	.36 .09 .04 .01 .07	15 4 5 6 2
LNRD-382 LNRD-383 LNRD-384 LNRD-389 LNRD-389 LNRD-390	3 6 3 2 2	785 617 363 190 190	33 11 4 6 7	144 118 63 37 65	.9 .7 <.3 <.3 <.3	61 48 41 32 40	31 56 31 24 18	272 789 450 376 509	5.87 5.83 3.91 4.95 4.39	267 280 113 106 118	<8 <8 <8 <8 <8	~~~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3 3 2 2 2 2	24 27 23 49 33	.7 .3 .4 .2 .5	⊲ ⊲ ⊲ ⊲ ⊲	ଏ ଏ ଏ ଏ ଏ ଏ ଓ	125 101 35 79 65	.53 .61 .25 .52 .68	.139 .141 .045 .071 .102	13 21 11 13 15	109 40 15 47 28	2.29 .24 .10 .85 .22	130 213 164 245 170	.14 <.01 <.01 .03 <.01	<3 <3 <3 3 4	2.33 .72 .57 1.58 .95	5 .05 2<.01 7 .02 3 .07 5 .03	.55 .07 .12 .34 .09	2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	.01 .08 .01 .02 .01	5 6 7 15 16
LNRD-392 Sect LNRD-393 LNRD-394 LNRD-395 STANDARD C3/AU-1	2 3 3 3 2 27	1132 376 249 163 71	105 13 10 5 36	377 80 72 38 166	2.5 .3 <.3 <,3 5.5	49 54 36 20 36	37 17 22 18 12	1323 458 588 866 787	5.46 5.54 4.57 4.21 3.35	926 164 176 71 60	<8 <8 <8 <8 24	<2 <2 <2 <2 <2 <2 <2 <2 <2	2 4 2 <2 21	27 38 30 30 29 2	2.7 .4 .4 .2 5.2	21 <3 <3 <3 16	7 3 3 3 23	73 97 72 40 82	.40 .81 .44 .27 .58	.093 .145 .089 .055 .096	22 25 16 12 21	47 67 25 11 175	. 18 .87 .32 .34 .61	313 165 228 250 159	<.01 .01 .01 .01 .01 .09	3 <3 4 24	.69 1.44 1.11 1.27 1.84	2<.01 5 .01 1 .01 7 .05 5 .04	.10 .13 .18 .17 .16	<2 <2 <2 <2 15	.11 .03 .01 <.01 3.62	15 13 19 11
STANDARD G-2	1	5	3	43	<.3	7	4	531	1.98	<2	<8	<2	4	68	.2	ব	<3	41	.64	.101	10	77	.60	227	.13	<3	.89	9.07	. 46	2	-	-
Gi Ui A! - <u>Si</u>	ROUP PPER SSAY SAMP ample	1D - LIMIT RECOM LE TY s beg	0.50 S - A MEND PË: Lipni	GM S AG, / ED FC ROCK ng ()	SAMPLI AU, HI DR RO R150 RE' a	E LEA G, W CK AN 60C <u>re R</u> e	ACHED = 10 ND CC	WITI 10 PPI IRE S/ AU** and	H 3 ML M; MO, AMPLES BY F1 <u>'RRE</u>	. 2-2 . CO, S IF IRE A <u>' are</u>	CD, CD, CU PB SSAY Reie	SB, SB, SB, SB, SB, SB, SB, SB, SB, SB,	D3-H BI, 1 AS > 1 A erun:	20 AT TH, U 1%, .T. S <u>S.</u>	[95 & B AG ≻ SAMPL	DEG. = 2 - 30 .E.	C F ,000 PPM	OR O PPM & Au	I; CU,	DUR, 1 , PB, 000 PI	DILU ZN, PB 2	TED ' NI,	TO 10 MN,	ML, AS,	, ANAL V, LA	LYSEI A, Ci	D BY R = '	ICP- 10,00	ES. O PPM	۱.		
DATE RECEIVE	D:	NOV	1 20	00	DAT	ER	EPO	RT 1	MAIL:	ED:	Na)√	'5/	ອບ		SIG	NED) BY		:.ħ		-].'	ο. το	YE,	C.LEC	ONG,	J. W	JANG;	CERT	IFIE	в.с.	ASSAYER:
All results are co	onsid	ered	the	conf	ident	ial p	orope	rty	of the	e cli	ent.	Acme	, 858	umes	the	liab	ilit	ies	for	actua	l co	<u>st o</u>	f the	ana	lysi	s on	ly.				Data	FA_



Pacific Booker Inc. PROJECT MORRISON FILE # A004456



ł	ACHE ANALYTICAL																																	ACHE ANAL	YTICAL
	SAMPLE#	Mo	Cu		ib J Na Pi	Zn 2m	Ag	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm p	Sr opm	Cd ppm	Sb opm p	Bi Sprni	V ppm	Ca %	P X	La ppm	Cr ppm	Mg X	Ba ppm	Ti X	B	Al %	Na %	к % ј	W ppm g	Au** m/mt	Sample lb	
	LNRD - 396 LNRD - 397 LNRD - 398 LNRD - 399 LNRD - 400	2 3 3 3 3 3 3	487 154 933 1274 112	22	5 8 5 9 10 29 12 11 5	87 1 96 92 1 01 36	1.3 .4 2.4 1.8 <.3	42 49 38 61 32	27 12 20 55 17	506 461 2892 274 371	3.93 5.14 4.50 5.14 4.42	487 202 537 989 183	<8 <8 <8 <8 <8	<2 <2 <2 <2 <2 <2 <2 <2 <2	2 3 <2 3 3	29 49 32 31 93	.4 .6 1.6 .4 .2	5 <3 18 <3 <3	43333	41 97 51 115 88	. 14 . 72 . 81 . 57 . 68	.046 .119 .038 .142 .106	9 19 11 21 21	21 80 40 97 59	.26 1.59 .32 1.75 1.09	187 466 323< 151 296	.02 .11 .01 .10 .07	3 6 7 4 4	1.11 1.93 .62 1.85 1.92	.02 .05 .02 .06 .12	.38 .51 .23 .62 .67	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	.04 .01 .03 .02 .06	11 6 14 5 12	
	LNRD-401 LNRD-402 LNRD-403 LNRD-404 LNRD-405	3 3 2 2 <1	82 88 45 77 15	;	7 6 3 6 3	44 38 40 46 45	<.3 <.3 <.3 <.3 <.3	45 28 52 32 13	16 22 23 15 39	355 359 545 527 1139	4.73 4.68 5.15 5.03 5.73	114 147 46 93 34	<8 <8 <8 <8 <8	~~~~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	6 3 2 2 2 2	52 157 23 33 24	.2 .2 .3 .2	3 2 2 2 3 3 3 3	00000	89 123 59 85 34	.59 1.43 .20 .35 .14	.138 .091 .054 .103 .024	25 17 12 13 13	95 48 33 39 8	1.62 1.03 .67 .75 .74	189 245 194 216 197	.07 .05 .02 .02 .03	4 43 4 3 4 3	2.10 3.04 2.20 1.82 2.38	.09 .36 .05 .06 .05	.50 .45 .19 .12 .21	<2 2 2 2 2 2 2 2 2 2 2	.01 .01 .01 .02 <.01	12 6 5 2	
	LNRD-406 LNRD-407 LNRD-408 LNRD-409 LNRD-411	3 2 2 2 2 2	297 455 117 201 252	7 5 1' 7 1 2	5 10 1 9 9 6	41 49 46 52 61	<.3 2.1 <.3 <.3 <,3	29 19 21 52 53	17 73 23 25 30	368 621 372 376 355	4.45 3.25 4.39 5.11 5.23	143 1119 173 697 648	<8 <8 <8 <8 <8	~~~~~~	3 <2 <2 3 3	88 96 32 46 63	.2 .6 .4 .2 .2	ଏ ଓ ଓ ଓ ଓ ଓ	<3 19 <3 6 5	100 58 45 112 107	.71 .77 .33 .73 .67	.091 .078 .059 .144 .152	17 10 7 23 24	50 10 9 80 66	1,07 .30 .08 1.56 1.57	319 437 136- 312 328	.06 .01 .01 .11 .11	3 5 3 4 3	2.04 1.97 .95 1.64 2.10	.16 .19 .04 .06 .13	.48 .28 .16 .69 .69	2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	.01 1.15 .05 .01 .03	3 17 7 4 3	
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Sample type: ROCK R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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Sample type: ROCK R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

ACMS ANALYTICAL LABURATORIDS LID. (ISO 9002 Accredited Co.)

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GEOCHEMICAL ANALYSIS CERTIFICATE

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<u>Appendix C</u>

C) Petrographic Reports: Vancouver Petrographics

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CHRIE SAMPSON'S COM Vancouver Petrographics Ltd.

8080 GLOVER ROAD, LANGLEY, B.C. V1M 3S3 PHONE (604) 888-1323 • FAX (604) 888-3642 email: vanpetro@vancouver.net

PETROGRAPHIC REPORT ON 10 POLISHED THIN SECTIONS FROM MORRISON **PROPERTY, BABINE DISTRICT, B.C.**

Report for: J. Paul Stevenson 10th Floor, Princess Building 609 West Hastingst Street Vancouver, B.C. V6B 4W4.

Invoice 000380

Aug. 15, 2000.

SUMMARY:

All but one of the samples in this suite may be characterized as variably altered porphyritic high-level intrusive rocks, likely mainly a crowded biotite-hornblende quartz diorite (tonalite) porphyry prior to alteration. Typically the rock originally consisted of about 30-50% 1-4 mm plagioclase and 10-15% 1-2 mm mafic (biotite, hornblende) phenocrysts in a fine-grained (0.1-0.2 mm) groundmass of guartz and alkali feldspar plus minor mafic minerals. The last sample, MO-9-12.4, is a fine-grained mixture of quartz, ?albitic alkali feldspar, carbonate, biotite, chlorite, K-feldspar and sulfides and oxides with a equigranular texture that likely represents a hornfelsed sediment or volcanic rock.

Alteration in the intrusive rocks may be roughly divided into early potassic (quartz-biotite-amphibole-Kspar-magnetite-chalcopyrite ±apatite, epidote, chlorite) typical of the Babine porphyry setting (all the dark grey, hard samples including MO-4-111.6, 356, 446; MO-5-214; MO-7-164.7). Carbonate and minor sericite and ?clay in these samples may be the result of overprinting by later phyllic/argillic alteration, which is well illustrated in the rest of the samples. Phyllic alteration (quartz-carbonate-?clay-?chlorite-rutile) in MO-4-87.6 and 88.4 shows remnants of earlier ?secondary biotite. Similarly, argillic or advanced argillic (?clay-quartz-carbonate-sericite) alteration in MO-4-154.3 and MO-5-210 contains trace ?relict secondary biotite and secondary K-feldspar.

Veins and veinlets, mainly of quartz but also including amphibole, biotite, carbonate and sulfides plus rare magnetite/hematite, are common in this suite of rocks. Alteration envelopes include secondary biotite and K-feldspar in the potassic altered samples. Sulfides are also distributed along microfractures, or are disseminated.

The rocks in this suite of samples were submitted with a question as to "Cu not visible-but getting" values". The petrographic study, detailed below, clearly demonstrates the presence of abundant copper sulfides in all samples (mainly chalcopyrite; bornite is also present in minor quantities in two samples, MO-4-111.6 and MO-5-214). The distribution, character and size range of the copper sulfide blebs are illustrated in the photomicrographs appended to this report.

Oxide minerals associated with these sulfides are mainly magnetite (in places partly to completely oxidized to hematite) and rare ilmenite, rutile and sphene.

> Craig H.B. Leitch, Ph.D. P.Eng (250) 653-9158 cleitch@saltspring.com 492 Isabella Point Road, Salt Spring Island, B.C. V8K 1V4

Contraction, P.Eng



8080 GLOVER ROAD, LANGLEY, B.C. V3A 4P9 PHONE (604) 888-1323 • FAX (604) 888-3642

MO-4-87.6: INTENSELY PHYLLIC (QUARTZ-CARBONATE-?CLAY, ?CLAY/CHLORITE ± RELICT SECONDARY BIOTITE, CHALCOPYRITE ± PYRITE) ALTERED INTRUSIVE

Pale grey-green, strongly phyllic (quartz-carbonate-clay/sericite-pyrite) altered, quartz vein stockworked, high-level felsic intrusive rock. The rock is not magnetic and shows no stain for K-feldspar in the etched slab, but reacts strongly to cold dilute HCl, and is softer than steel. Modal mineralogy in polished thin section is approximately:

Quartz (partly secondary)	35%
Carbonate (mostly calcite)	30%
?Clay (?kaolinite)	20%
?Clay/Chlorite	5%
Relict secondary biotite	5%
Chalcopyrite	3-5%
Pyrite	1%
Rutile	1%
Apatite	<1%

This is a very strongly hydrothermally altered rock; the original porphyritic texture is best visible in the etched slab, in which white ?clay altered relict plagioclase crystals with rounded to subhedral outlines up to 4 mm long are visible. In thin section, these relics are composed of mainly tiny ?clay crystals of about 5-10 microns diameter, or void space (where ?clay has been plucked out during section preparation) and subhedral carbonate of about 0.1 mm diameter or less. Other, less abundant, relict crystal sites with coarser ?clay/chlorite (subhedral flakes up to 0.1 mm in diameter, mainly length-slow) could represent former mafic crystals with rounded outlines up to about 1.5 mm in diameter.

In places the relict mafics also contain minor pale brown (relict, altered) secondary biotite as subhedral flakes mostly <0.1 mm in diameter, commonly mixed with sulfides (see below) and traces of rutile (minute euhedra mostly <20 microns in diameter) and apatite (subhedra up to 0.1 mm in diameter).

The former groundmass consists of granular, subhedral quartz, carbonate and clay or clay/chlorite mostly < 0.1 mm in diameter.

Sulfides are mainly chalcopyrite, and are mainly distributed along quartz, carbonate or quartz-carbonate veinlets, stringers and disseminated or along microfractures. The blebs of chalcopyrite are mostly anhedral to subhedral, <0.15 mm in diameter. Only in the major quartz veins (up to 8 mm thick) is there any significant pyrite, forming euhedral crystals up t 0.5 mm across that aggregate to 1.5 mm. Thus there is significant copper present in this sample (in the \pm 1% range).



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MO-4-88.4: INTENSELY PHYLLIC (QUARTZ-?CLAY-CARBONATE-SULFIDE-RUTILE-APATITE ±RELICT BIOTITE) ALTERED PORPHYRITIC FELSIC INTRUSIVE ROCK

Pale buff-grey coloured, medium-grained, porphyritic high-level intrusive rock characterized by about 30-35% white 1-3 mm plagioclase relics in a matrix of orangey ?ankeritic carbonate and fine sulfides. Sulfides are mostly fracture-controlled, and appear to be mostly chalcopyrite. The rock is partly harder than steel, not magnetic and shows no reaction to cold dilute HCl, and no stain for K-feldspar in the etched slab. Modal mineralogy in polished thin section is approximately:

?Clay (?kaolinite)	35%
Quartz (partly secondary)	30%
Carbonate (?mainly ankerite)	25%
Relict biotite (partly secondary)	5%
Chalcopyrite	2-3%
Rutile	1-2%
Apatite	<1%

This is also a strongly altered rock, composed of ?clay-altered relict plagioclase sites in a matrix of quartz, carbonate, sulfide and relict secondary biotite. Former mafic sites are not easy to distinguish. Alteration varies in intensity with the most altered rock found along narrow carbonate veins and veinlets that are mostly less than 1 mm thick.

Relict plagioclase sites have euhedral to subhedral outlines up to 3 mm long that are almost entirely pseudomorphed by extremely fine flakes of ?clay mostly <5 or 10 microns in diameter (low birefringence, low relief suggests ?kaolinite) plus lesser carbonate (subhedra mostly <50 microns in diameter).

The groundmass is composed of 0.1-0.15 mm subhedral quartz crystals (probably mostly primary) set in a matrix of ?clay-altered feldspar relics, carbonate, secondary quartz, and sulfides. The former feldspar crystals have subhedral outlines up to 0.2 mm in diameter, and may have included both plagioclase and K-feldspar. Secondary quartz is distinguished by its radiating "brush" or chalcedonic texture, with rosettes up to about 0.15 mm in diameter. Carbonate, likely mostly ankerite (ferroan dolomite) to judge by the colour and lack of reaction in hand specimen, forms subhedra up to about 0.1 mm in diameter.

Possible former matic relic sites up to 2 mm in size are marked by the presence of minor dark brown biotite (anhedral flakes up to 0.2 mm diameter, mixed with the carbonate), sulfides, abundant rutile and common apatite (subhedral to euhedral crystals up to 0.4 mm long). Part of the biotite and possibly some of the apatite may be secondary in origin.

Chalcopyrite is mainly found distributed as fine anhedral to subhedral blebs (mostly <0.2 mm, rarely to 0.35 mm diameter) along fractures and their immediate envelopes. However, the outer boundaries of these envelopes is generally diffuse, and there is a transition to finely disseminated (mainly <75 micron diameter) blebs in the surrounding rock. Most of the chalcopyrite in the veins and envelopes is hosted in carbonate; most of the disseminated chalcopyrite is hosted by quartz, or found in relict mafic sites where it is associated with fine-grained (25 micron) rutile. Note that pyrite is not seen in the section, implying a relatively high Cu:Fe ratio in the mineralizing fluids for this sample.



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MO-4-111.6: POTASSIC (QUARTZ-BIOTITE-CARBONATE-CHALCOPYRITE-MAGNETITE) ALTERED, PLAGIOCLASE-HORNBLENDE/BIOTITE PHYRIC QUARTZ DIORITE INTRUSIVE

Dark grey (mafic-rich), medium- to fine-grained altered porphyry cut by quartz veins and chalocpyrite-bearing fractures that in places show dark envelopes. The alteration in this sample is likely secondary biotite (potassic), that has not been overprinted by later phyllic (quartz-carbonate-?clay) alteration as in the previous two samples from this hole. The rock is mostly harder than steel, weakly magnetic and shows minor reaction to cold dilute HCl, but there is only trace yellow stain for K-feldspar in the etched slab. Modal mineralogy in polished thin section is approximately:

Plagioclase (andesine)	40%
Quartz (partly secondary)	35%
Biotite (partly secondary)	15%
Carbonate (mainly calcite)	5%
Chalcopyrite, minor bornite	2-3%
Magnetite, hematite	1-2%
K-feldspar	1-2%
Apatite, epidote	<1% each

The original porphyritic texture of the intrusive rock is well preserved in this sample, which consists of about 40% plagioclase and 15% relict mafic crystals in a fine-grained groundmass of quartz, plagioclase and minor K-feldspar.

Plagioclase crystals have euhedral outlines up to 3.5 mm long and retain original compositional zoning, from cores (about 90% of the crystal) of andesine, near An_{45} , based on extinction angle Y^010 near 25 degrees and relief close to that of quartz. Narrow rims (10% of the crystal) are of ?oligoclase (smaller extinction angle). Minor (<5%) alteration is mainly to fine grains of carbonate, likely mostly calcite, less than 20 microns in diameter.

Mafic crystals have subhedral outlines up to 2.5 mm long that are suggestive of former ?hornblende, now replaced by fine secondary biotite (subhedral flakes mostly <0.2 mm in diameter) and variable amounts of carbonate (subhedra mostly <50 microns in size). In some cases the crystals are larger single crystals of biotite, mostly <1 mm in diameter, that likely represent primary biotite crystals. Minor amounts of magnetite (subhedral to euhedral crystals up to 0.25 mm in diameter) and apatite (subhedral crystals up to 0.2 mm long) are closely associated with the altered mafic sites, as are minor amounts of chalcopyrite (subhedral crystals mostly <0.1 mm in diameter).

The groundmass consists of roughly equal proportions of plagioclase and quartz, both forming subhedral to anhedral crystals about 0.1-0.2 mm in diameter, lesser biotite and K-feldspar of similar size, plus minor magnetite and rare chalcopyrite (both as subhedral crystals mostly <0.1 mm in diameter).

Veins and veinlets, in places up to 0.5 cm thick, consist mainly of quartz (subhedral to anhedral crystals less than 0.5 mm in diameter), with minor amounts of chalcopyrite (anhedral blebs up to 1 mm across, generally closely asociated with biotite as euhedral flakes to 0.2 mm diameter) and rare bornite (subhedra to 0.2 mm in diameter). In places the veins contain some carbonate, or are mostly composed of carbonate (subhedral to euhedral crystals up to 0.3 mm in diameter). Although magnetite is not found in the quartz veins, it is present along narrow hairline fractures (with chalcopyrite), suggesting that some of the magnetite is secondary and confirming the mainly potassic nature of the alteration (quartz-biotite-chalcopyrite-magnetite).



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MO-4-154.3: INTENSE ARGILLIC/ADVANCED ARGILLIC (?CLAY-QUARTZ-CARBONATE-SERICITE-CHALCOPYRITE<u>+</u>PYRITE) ALTERED PORPHYRITIC INTRUSIVE ROCK

Chalky white to buff-cream coloured, fine-grained, intensely ?clay altered intrusive rock (much softer than steel, sticks to tongue when wetted). Vague porphyritic texture preserved; stockwork of grey quartz veins; minor sulfides, mostly chalcopyrite, throughout (disseminated, on microfractures, and in quartz veins). The rock is not magnetic and shows little reaction to cold dilute HCl, but there is minor yellow stain for K-feldspar in the etched slab, especially along the envelope of a major quartz vein.

55%
25%
10%
5%
1-2%
1%
1%
1%

Only traces of the original texture of this porphyritic intrusive rock remain, after intense argillic/advanced argillic (clay-sericite-quartz-carbonate-sulfide); and relict potassic (K-feldspar-biotite) alteration.

Former plagioclase crystals have rounded to irregular or vague outlines up to 2.5 mm long. The former crystals are pseudomorphed by very fine-grained (<20 micron diameter) ?clay, with lesser amounts of carbonate (subhedra to 40 microns) and minor sericite (subhedral flakes to 35 microns in diameter). Commonly, the centers of the pseudomorphed crystals have been plucked out during section preparation, leaving voids. Former ?mafic relic sites are likely marked by concentrations of sulfides, carbonate and wisps of brown ?secondary biotite plus traces of rutile as minute crystals <20 microns in size.

The groundmass is distinguished by small anhedral to subhedral crystals of quartz, mostly <0.1 mm in diameter, separated by areas of ?clay, carbonate, and sericite plus iron oxides or rutile. The ?clay and carbonate likely represent the former sites of feldspar and mafic crystals respectively. The oxides are extremely fine-grained (microns in diameter) and not identifiable precisely, but may include limonite and rutile. Traces of K-feldspar, probably secondary, occur as fine subhedra (<0.1 mm in diameter) along the margin of a major quartz vein. There may thus have been potassic alteration present prior to the intense argillic/advanced argillic now evident.

Virtually all the sulfide in this sample is chalcopyrite, forming small blebs mostly <0.5 mm in diameter (coarser in the quartz veins, finer as disseminations). Only rare pyrite occurs (minute subhedra to 50 microns in diameter, mainly found enclosed within chalcopyrite, in the quartz veins).



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MO-4-356: POTASSIC (QUARTZ-BIOTITE-AMPHIBOLE-KSPAR-MAGNETITE-SULFIDE-GYPSUM/ANHYDRITE-CARBONATE) ALTERED PORPHYRITIC INTRUSIVE ROCK

This sample is a dark grey, fine to medium-grained, strongly altered porphyritic intrusive rock similar to that from 111.6m in this hole (probably biotitic, i.e. potassically altered; some destruction of texture). The etched slab reveals the crowded porphyritic texture, with about 40-45% white plagioclase crystal relics, and yellow stain for (secondary) K-feldspar along narrow (commonly chalcopyrite-bearing) fractures. The rock is magnetic but shows no reaction to cold dilute HCl, and is mainly harder than steel. Modal mineralogy is roughly:

Plagioclase (oligoclase-andesine)	50%
Quartz (partly secondary)	20%
Biotite (partly secondary)	10%
Amphibole (mostly secondary)	10%
K-feldspar (mainly secondary)	1-2%
Magnetite, hematite (minor ilmenite)	1-2%
Chalcopyrite, trace pyrite	1-2%
Clay-sericite	1-2%
Carbonate	1-2%
Gypsum/anhydrite	1-2%
Apatite	<1%

This potassic altered sample consists of closely spaced (crowded) plagioclase phenocrysts set in a groundmass of quartz, feldspar and biotized or amphibolitized mafic relics. The rock is cut by a network of quartz±sulfide/magnetite veins and fractures, some of which are accompanied by secondary biotite, K-feldspar and gypsum/anhydrite. Plagioclase phenocrysts have mainly euhedral outlines up to 4.5 mm long. They show oscillatory compositional zoning that ranges little about an average near the oligoclase-andesine boundary (about An_{30} , based on extinction X^001 and X^010 near zero degrees), except for very narrow rims that are more sodic (oligoclase-albite). Alteration of the plagioclase is minor, to traces of sericite or less commonly alkali feldspar (?partly K-feldspar) along microfractures.

In the matrix, quartz forms subhedral to anhedral crystals mainly <0.25 mm in diameter that are mainly primary, but in places show overgrowths due to addition of secondary quartz, or grade into coarser crystals (up to almost 1 mm in diameter) that form poorly to in places well defined quartz veins and veinlets. Matrix feldspar forming subhedral crystals mostly <0.2 mm in diameter appears to be mostly plagioclase, but in places it grades to an alkali feldspar, likely mostly secondary, that includes some K-feldspar. Mafic minerals have vaguely defined, relatively anhedral outlines up to 1.5 mm in diameter and have been entirely replaced by amphibole, biotite, magnetite, sulfide and apatite. Amphibole forms pale green fibrous crystals up to 0.5 mm long, with extinction angle near 18 degrees; it is likely actinolitic hornblende and is typical of potassic alteration. The biotite forms fine medium brown subhedral flakes up to about 0.15 mm in diameter, and is typical of potassic alteration.

Quartz veins up to 3 mm thick containing minor chalcopyrite and pyrite (blebs up to 0.15 mm diameter) have amphibole-rich envelopes, and are cut by biotite-chalcopyrite-magnetite/hematite/ilmenite -Kspar-gypsum/anhydrite veinlets <1 mm thick. Chalcopyrite forms blebs up to several mm long; magnetite, largely oxidized to hematite, forms subhedra up to 0.3 mm. Gypsum crystals (possibly after anhydrite) are elongate (up to 1 mm), and commonly dissolved out (?during sectioning). Carbonate forms subhedra up to 0.1 mm in size along later fractures.



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MO-4-446: POTASSIC (QUARTZ-AMPHIBOLE-BIOTITE-KSPAR-CARBONATE-SERICITE-EPIDOTE-CHALCOPYRITE-MAGNETITE/HEMATITE/ILMENITE/SPHENE-CHLORITE) ALTERED PORPHYRITIC INTRUSIVE ROCK

Dark grey, fin to medium grained, potassic altered porphyritic intrusive rock cut by a network of quartz-chalcopyrite veinlets and microfractures, along some of which significant (secondary) K-feldspar is developed as indicated by yellow stain in the etched slab. The rock is weakly magnetic and shows minor reaction to cold dilute HCl; it is mainly harder than steel. Modal mineralogy is approximately:

Plagioclase (andesine)	45%
Quartz (partly secondary)	20%
Amphibole (largely secondary)	10%
Biotite (primary and secondary)	5%
K-feldspar (?mainly secondary)	5%
Carbonate (?mainly calcite)	5%
Sericite	2-3%
Epidote, minor allanite	1-2%
Chalcopyrite (trace pyrite)	1%
Ilmenite, sphene	1%
Hematite (?mostly after magnetite)	1%
Chlorite	1%
Apatite	<1%

Plagioclase forms mainly euhedral crystals up to 3 mm in diameter with weakly defined oscillatory zoning closely confined to a composition near An_{35} (and esine). Most crystals show only minor alteration to fine flecks or fractures of fine-grained (20 micron) clay-sericite; however, replacement of plagioclase by K-feldspar is evident in thin section as irregular areas accompanied by fine flakes of clay-sericite that spread along fractures outwards from borders of major quartz-amphibole veins.

Mafic crystals include euhedral brown biotite up to 1.5 mm in diameter (probably primary) and subhedral to euhedral ?hornblende relics that are replaced by fibrous pale green amphibole (likely secondary actinolitic hornblende as subhedra to 0.25 mm long) and secondary biotite as bright brown subhedral flakes mostly <0.1 mm in diameter. Minor apatite (subhedra to 0.3 mm), sulfides and oxides accompany this alteration; in places there is also minor epidote (euhedral crystals to 0.3 mm diameter) that are variably cored by reddish-brown euhedral crystals of ?allanite (REE-bearing epidote).

The matrix is composed of fine-grained quartz (subhedra rarely over 0.1 mm in diameter, probably mostly primary), alkali feldspar (plagioclase, and in places secondary K-feldspar as subhedra mostlyu <0.15 mm in diameter and mostly partly sericitized), amphibole (fibrous subhedra to 0.1 mm), carbonate (irregular subhedra to 0.25 mm)

Veinlets consist of quartz (subhedra to 0.3 mm diameter), K-feldspar (subhedra to 0.3 mm), carbonate (calcite and ?ankerite, subhedra to 0.5 mm), amphibole (fibrous subhedra to 0.5 mm), epidote/allanite (as described above), minor chlorite (subhedral flakes to 0.1 mm) and sulfides/oxides (see below). Chalcopyrite forms irregular blebs and anhedral crystals up to about 0.25 mm in diameter, commonly loosely controlled along narrow fractures and veinlets of variable composition. Pyrite is rare in this assemblage, forming anhedral to irregular crystals up to 0.2 mm in size. Oxide mineral grains, mostly <0.25 mm in diameter, associated with the sulfides include ilmenite (commonly surrounded by sphene) and hematite (probably mostly after magnetite, traces of which remain).



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MO-5-210: INTENSELY ARGILLIC/ADVANCED ARGILLIC (?CLAY-QUARTZ-CARBONATE-SERICITE-SULFIDES), RELICT POTASSIC (BIOTITE-KSPAR) ALTERED PORPHYRY

Chalky white to greyish, intensely argillic/phyllic altered porphyritic intrusive, cut by a fine network of narrow sulfide-bearing fractures that in places broaden into irregluar larger blebs, and are associated with orangey-brown, likely ankeritic, carbonate. Minor secondary Kspar is also indicated along some of these fractures by yellow stain in the etched slab. The rock is easily scratched by steel, sticks slightly to the tongue, is not magnetic and shows modest slow reaction to cold dilute HCl. Modal mineralogy in polished thin section is approximately:

?Clay (?kaolinite)	45%
Ouartz (partly secondary)	25%
Carbonate (calcite, ?ankerite)	10%
Sericite	5%
Relict secondary biotite/amphibole	5%
Chalcopyrite	2-3%
Pvrite	2-3%
K-feldspar (secondary)	2-3%
Limonite	1-2%
Chalcopyrite	<1%
Apatite	<1%
F ···	

This sample is intensely argillic or advanced argillic altered (?clay, quartz, carbonate, sericite, pyrite), but retains much of its original porphyritic intrusive texture.

Former plagioclase phenocrysts have euhedral to subhedral outlines up to 2.5 mm in diameter, and are now completely pseudomorphed by very fine-grained ?clay and minor amounts of fracture-controlled sericite and carbonate, plus scattered crystals of pyrite and/or limonite. The ?clay mineral forms minute flakes mostly <10 microns in diameter, with low birefringence and low relief suggestive of ?kaolinite. Sericite flakes are up to 20 microns in diameter; carbonate crystals are anhedral and tend to be less than 20 microns in diameter. Traces of former secondary Kspar, replacing plagioclase, are seen near larger quartz veins as cloudy areas; adjacent plagioclase has been replaced by sericite flakes up to 50 microns in diameter.

Relict mafic sites are marked by concentrations of flakey, pale brown ?relict biotite/amphibole, now largely converted to brownish carbonate, and mixed with secondary quartz, sericite and ?clay. The flakes of ?former biotite are subhedral and up to 0.3 mm in diameter; quartz crystals intergrown with the relics are subhedral, up to 0.15 mm in diameter. Carbonate crystals are mostly <0.1 mm and subhedral to anhedral, with variation in colour and relief suggesting both calcite and ?ankerite may be present. Sericite forms flakes up to 35 microns in diameter; ?clay is mostly <10 microns in diameter.

The groundmass consists of small (mainly <0.1 mm, primary, but in places up to 0.25 mm, partly secondary) subhedral to anhedral crystals of quartz, in a matrix of very fine-grained ?clay, sericite, carbonate sulfides and limonite. Veinlets are mostly <1 m thick, and consist of quartz (subhedra to 0.25 mm diameter), sulfides, ?relict biotite (subhedral brownish flakes up to 0.15 mm in diameter) and minor carbonate and limonite. Sulfides are an intimate intergrowth of fine-grained chalcopyrite and pyrite, both forming mainly subhedral crystals of <0.2 mm in diameter. The very fine-grained (amorphous) limonite may be derived by hydrothermal oxidation of former magnetite/hematite.



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MO-5-214: POTASSIC (QUARTZ-AMPHIBOLE-BIOTITE-CARBONATE-KSPAR-SERICITE-CHALCOPYRITE-BORNITE-MAGNETITE-APATITE) ALTERED PORPHYRITIC INTRUSIVE

Dark grey, strongly potassic (amphibole-biotite) altered porphyritic intrusive rock, cut by abundant narrow veinlets and fractures coated with chalcopyrite. In places, a few of the narrow fractures contain or are associated with secondary K-feldspar as indicated by yellow stain in the etched slab. The rock is mainly harder than steel, magnetic and shows minor reaction to cold dilute HCl. Modal mineralogy in polished thin section is approximately:

Plagioclase (andesine)	45%
Quartz (partly secondary)	25%
Amphibole (secondary)	10%
Biotite (secondary)	5%
Carbonate (mainly calcite)	5%
Chalcopyrite	2-3%
K-feldspar (secondary)	1-2%
Chlorite (after biotite)	1-2%
Sericite	1%
Bornite	<1%
Magnetite, hematite	<1%
Sphene	<1%
Apatite	<1%
-	

This sample consists of about 35-40% 1-3 mm plagioclase phenocrysts and 10-15% vaguely defined matic relics in a matrix of quartz and feldspar plus minor matics and sulfides. Alteration is potassic (quartz-biotite-amphibole-carbonate-Kspar-copper sulfides-magnetite).

Plagioclase phenocrysts have euhedral to subhedral outlines up to 3 mm in diameter and retain primary oscillatory compositional zoning which appears to vary little about a median of An_{35} (and sine) except at the narrow rims. There is mainly only minor alteration to minute flecks of sericite (<20 microns in diameter), except along narrow fractures or microveinlets of quartz and amphibole or biotite plus sulfides, where plagioclase is replaced by subhedral K-feldspar crystals mainly <0.2 mm in diameter.

Mafic relics have vague and poorly defined outlines up to about 1.5 mm long, suggestive of former hornblende crystals that are now pseudomorphed by fine-grained, fibrous amphibole crystals mostly <0.25mm long and lesser secondary biotite as medium brown subhedral flakes mostly <0.15 mm in diameter, plus sulfides and oxides, apatite and sphene. The sulfides consist almost entirely of chalcopyrite and lesser bornite (subhedra up to 0.25 mm in diameter), mixed in places with minor oxides (magnetite, partly oxidized to hematite) and sphene mostly <0.15 mm in diameter. Pyrite is extremely rare, indicating a high Cu, low Fe, low total S system. Apatite forms subhedral crystals up to 0.15 mm long; sphene forms subhedra mostly <50 microns in diameter.

The groundmass is strongly silicic (likely partly silicified), composed of roughly equal parts of feldspar (mainly plagioclase; minor K-feldspar) and quartz (subhedral crystals mostly <0.1 mm, but ranging up to 0.5 mm where silicification is intense or grades into quartz veins), plus minor amphibole, biotite, and sulfides. Veinlets are either quartz (subhedra to 0.7 mm diameter) with minor sulfides, or amphibole (fibrous crystals to 0.2 mm long), in places mixed with minor biotite (flakes to 0.15 mm), carbonate (mainly calcite, subhedra to 0.25 mm), sulfides and sphene.



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MO-7-164.7: POTASSIC (QUARTZ-BIOTITE-CARBONATE-KSPAR-CHLORITE-CHALCOPYRITE-PYRITE-MAGNETITE/HEMATITE ALTERED PORPHYRITIC TONALITE

Grey, fine to medium-grained, biotite-amphibole (potassic) altered porphyritic intrusive rock cut by planar 1-2 mm thick quartz veins and more irregular microfractures, both with sulfides (chalcopyrite and pyrite). The rock is harder than steel and magnetic but shows only trace reaction to cold dilute HCl, and only minor yellow stain for K-feldspar in the etched slab. Modal mineralogy in polished thin section is approximately:

Plagioclase (oligoclase-andesine)	60%
Quartz (partly secondary)	15%
Biotite (primary and secondary)	10%
Carbonate (calcite and ?ankerite)	7-10%
Chalcopyrite	1-2%
K-feldspar (secondary)	1-2%
Chlorite (after biotite)	1-2%
Magnetite, hematite, minor ?ilmenite	1-2%
Pyrite	<1%
Apatite	<1%

In thin section, this sample consists of about 30-35% 1-3 mm plagioclase, 10-15% altered ?hornblende relics, and <5% brown biotite in a matrix of plagioclase and lesser quartz. The composition is about that of a tonalite (biotite-hornblende quartz diorite); alteration is potassic

(quartz-amphibole-biotite-Kspar-sulfides-magnetite).

Plagioclase phenocrysts have mainly euhedral outlines and show oscillatory zoning with a narrow compositional range near oligoclase-andesine (An_{25-35}) based on extinction angle X^001 that varies from -5 to 7 degrees. The crystals show only minimal alteration, mostly to fine fracture-controlled carbonate, except near major quartz veins, where there is also minor fracture-controlled secondary alkali feldspar (in part K-feldspar, as indicated by the stained slab).

Mafic crystals are either biotite books up to 1.2 mm in diameter (likely mainly primary, although margins are corroded) or relics that have subhedral outlines up to 2.2 mm long suggestive of former hornblende. These are replaced by carbonatte (minute crystals mostly <20 microns in diameter, likely ankerite), or carbonate and secondary biotite (pale brown flakes up to 0.2 mm in diameter, in places partly chloritized) plus remnants of fibrous amphibole, sulfides, oxides and apatite. In places the biotite is completely replaced by pale green chlorite as subhedral flakes of 0.1-0.15 mm diameter. Apatite crystals are subhedral, up to 0.15 mm in size.

The groundmass consists of fine plagioclase microlites mostly <75 microns long, anhedral to subhedral quartz generally <50 microns in diameter but rarely up to 0.2 mm in size (?microphenocrysts), biotite to 0.15 mm and magnetite and sulfides mostly <30 microns in diameter. Veinlets are composed either of anhedral quartz up to 0.25 mm in diameter with selvages/core areas of scattered sulfides/oxides (euhedral pyrite to 0.7 mm, chalcopyrite to 0.3 mm, magnetite/hematite to 0.25 mm), chlorite, and carbonate subhedra up to 0.1 mm in size. Traces of ilmenite may be mixed with magnetite. Later fractures are filled by carbonate as minute subhedra <50 microns in diameter, apatite subhedra to 75 microns and chalcopyrite as anhedral blebs to 0.1 mm, with minor Kspar (anhedral crystals to 0.1 mm) along their selvages.



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MO-9-12.4:"HORNFELS" (FINE-GRAINED EQUIGRANULAR QUARTZ-ALKALI FELDSPAR-CARBONATE-CHLORITE/BIOTITE-SERICITE-CHALCOPYRITE-PYRITE-RUTILE)

Fine-grained, brownish, strongly altered rock of uncertain derivation but more probably hornfels than intrusive, strongly stockworked with a network of fine fractures/veinlets that contain sulfides (pyrite, chalcopyrite). The rock is harder than steel, but not magnetic and shows only trace reaction to cold dilute HCl, and trace stain for K-feldspar in the etched slab. Modal mineralogy in polished thin section is approximately:

Quartz (partly secondary)	45%
?Alkali feldspar (plagioclase)	25%
Carbonate (mainly ?ankeritic)	15%
Chlorite, biotite	5%
Sericite/?pyrophyllite	5%
Chalcopyrite	1-2%
Pyrite	1-2%
Rutile	1%
K-feldspar (secondary)	1%
?Anhydrite/gypsum	<1%

The mineralogy in this very fine-grained "hornfelsed" rock is difficult to quantify, but appears to be composed of quartz, ?alkali feldspar, carbonate, biotite, sericite plus minor rutile, sulfides and ?anhydrite/gypsum. If significant feldspar is present, it is not easily distinguished due to a lack of relief difference against quartz. However, the whitish colour of the etched slab suggests that in fact alkali feldspar (plagioclase such as albite) is a major component of the rock, and the estimated percentages given above reflect this assumption. Minor K-feldspar appears to be fracture-controlled and therefore is likely secondary; alteration may be potassic-phyllic.

Quartz forms interlocking subhedral to anhedral irregular crystals up to 0.25 mm in diameter, although more commonly <50 microns in size. Possible alkali feldspar crystals are of similar size and character, but are distinguished by fine flecking of sericite and carbonate. Veinlets are distinguished by coarser grain size, although the minerals are likely the same as in adjacent wallrock. Carbonate occurs either as fine fibrous aggregates (individual crystals mostly <50 microns long) or as coarser, more euhedral crystals up to 0.2 mm in diameter. Due to the lack of reactivity in hand specimen, it is possible that the bulk of the fine-grained carbonate is largely ankerite (and the coarse-grained crystals are minor calcite). Sericite or ?pyrophyllite, forms radiating rosettes up to 0.25 mm in diameter. These minerals are indistinguishable under the microscope. In places intergrowths with sericite of a flakey mineral having near zero birefringence suggest the presence of ?chlorite, likely after biotite. Biotite forms subhedral to euhedral, pale brown flakes up to 0.15 mm in diameter, mainly partly to wholly chloritized.

Sulfides, including both chalcopyrite and pyrite, and oxides that appear to be mainly rutile, are mainly controlled along narrow veinlets and hairline microfractures cutting the rock. These veinlets are mainly composed of quartz (subhedra to anhedra up to 0.2 mm long), but include lesser carbonate (fibrous aggregates up to 0.1 mm long or euhedral crystals to 0.15 mm), chlorite (subhedral flakes to 0.15 mm), K-spar (subhedra to 0.15 mm), and minor gypsum/anhydrite (subhedra to 0.1 mm). Chalcopyrite forms subhedral crystals up to 0.4 mm in diameter, commonly intergrown with or surrounding subhedral to euhedral pyrite crystals up to 0.5 mm in diameter; both are associated with rutile as euhedral to deep brown subhedral crystals mostly <0.1 mm in diameter.



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