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1991 DIAMOND DRILLING REPORT ON THE PUP PROJECT

Located in the Galore Creek Area Liard Mining Division NTS 104G/3W, 4E 57° 12' North Latitude 131° 29' West Longitude GEOLOGICAL BRANCH ASSESSMENT REPORT

151 -prepated

CONSOLIDATED GOLDWEST RESOURCES LTD.

-prepared by-A. Stewart Harris, Geologist David A. Caulfield, F.G.A.C.

September, 1991

1991 DIAMOND DRILLING REPORT ON THE PUP PROJECT

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1.0 INTRODUCTION

The Pup Project, comprising the OP 1-2 and Pup 1-5 claims, was staked in 1988 and 1989 over favourable lithology and copper geochemistry in the drainage of Galore Pup Creek, approximately 180 kilometres northwest of Stewart in northwestern British Columbia. The Pup property was first explored by Conwest Exploration for its copper potential following the discovery of the Galore Creek copper-gold porphyry deposit five kilometres to the south in 1955. Exploration by Consolidated Goldwest Resources Ltd. from 1988 to 1990 led to the discovery of copper-gold soil anomalies and mineralization in the Saddle and Malachite Zones.

Two diamond drill holes totalling 306.3 metres were drilled on the Pup property in July 1991. At the same time, limited prospecting and geological mapping were carried out in the vicinity of the drilling. Equity Engineering Ltd. conducted this program for Consolidated Goldwest Resources Ltd. and has been retained to report on the results of the fieldwork.

2.0 LIST OF CLAIMS

The Pup Project comprises seven contiguous claims totalling 101 units in the Liard Mining Division. Records of the British Columbia Ministry of Energy, Mines and Petroleum Resources indicate that these claims, summarized in Table 2.0.1, are owned by Consolidated Goldwest Resources Ltd. (Figure 2).

Claim	Record Tenure		No. of	Record	Expiry
Name	Number	Number	Units	Date	Date
OP 1	4485	222919	20	Feb. 22, 1988	Feb. 22, 1994
OP 2	4486	222920	20	Feb. 22, 1988	Feb. 22, 1994
Pup 1	4487	222921	12	Feb. 22, 1988	Feb. 22, 1994
Pup 2	4488	222922	20	Feb. 22, 1988	Feb. 22, 1994
Pup 3	4489	222923	20	Feb. 22, 1988	Feb. 22, 1994
Pup 4	4637	223028	6	June 13, 1988	3 June 13, 1994
Pup 5	6523	224453	<u>3</u>	Oct. 14, 1989	Oct. 14, 1994
-			101		

TABLE 2.0.1 CLAIM DATA

The locations for all legal corner posts for the OP 1-2 and Pup 1-5 claims have been verified by Equity Engineering Ltd. personnel. Due to claim overlaps, the actual ground covered by the Pup property is reduced to approximately 94 units (2350 hectares).



3.0 LOCATION, ACCESS AND GEOGRAPHY

The Pup claim group is located within the Coast Range Mountains approximately 180 kilometres northwest of Stewart and 80 kilometres south of Telegraph Creek in northwestern British Columbia (Figure 1). It lies within the Liard Mining Division, centered at 57° 12′ north latitude and 131° 29′ west longitude.

Access to the Pup property during the 1991 exploration program was provided by daily helicopter setouts from the Porcupine River airstrip and base camp, which is located 19 kilometres south of the property. During the field season, fixed-wing aircraft as large as a Twin Otter flew charters to the Porcupine River airstrip, from Smithers, Wrangell or Telegraph Creek. In previous years, helicopter access was provided from the Galore Creek airstrip which is located approximately seven kilometres to the south-southeast. The Scud River airstrip, located 23 kilometres to the northwest of the Pup property, is suitable for DC-3 aircraft.

On the Alaskan side of the border, Wrangell lies approximately 100 kilometres to the southwest, and provides a full range of services and supplies, including a commercial airport. The Stikine River has been navigated by 100-ton barges upriver as far as Telegraph Creek, allowing economical transportation of heavy machinery and fuel to the Scud River airstrip. In the early 1960's, Kennco constructed a cat road from their Galore Creek copper-gold deposit down the south side of the Scud River to the Stikine River and the Scud River airstrip. This cat road, which passes within a few hundred meters of the northeast corner of the Pup claim group, has not been maintained and would require major reconstruction before becoming passable.

The OP and Pup claims cover most of the Galore Pup Creek drainage, extending south into the headwaters of Jack Wilson Creek and north into the drainage of an unnamed creek which drains north into the Scud River (Figure 2). Topography is rugged, typical of mountainous and glaciated terrain, with elevations ranging from 350 meters in the Scud River valley on the northeast corner of the OP 1 claim to 2150 meters on the unnamed peak situated on the western boundary of the Pup 2 claim. Northerly-facing slopes are covered with permanent snowfields at higher elevations. One valley glacier descends to the 1150 meter elevation on the OP 1 claim.

Lower slopes are covered by a mature forest of hemlock, spruce and balsam fir with a dense undergrowth of devil's club, alder and huckleberry. Above treeline, which occurs at approximately 1000 meters, the creek beds and slopes are covered by dense slide alder and willow growth. The steeper slopes are covered in short heather and other alpine vegetation. Rock exposure is excellent above 1000 meters, though much of it is inaccessible due to the steepness of the terrain.



The property lies in the wet belt of the Coast Range Mountains, with annual precipitation between 190 and 380 centimetres (Kerr, 1948). Except during July, August and September, precipitation at higher elevations falls mainly as snow, with accumulations reaching three meters or more. Both summer and winter temperatures are moderate, ranging from -5° C in the winter to 20°C in the summer months.

4.0 PROPERTY MINING HISTORY

4.1 Previous Work

The Galore Creek district was extensively explored for its copper potential throughout the 1960's, following the discovery in 1955 of the Galore Creek copper-gold porphyry deposit (Figure 3). This deposit, whose Central Zone hosts reserves of 125 million tonnes grading 1.06% copper and 400 ppb gold (Allen et al, 1976), is located approximately five kilometres south of the Pup property. Kennecott is currently updating its feasibility study on the Galore Creek deposit, incorporating significant gold and copper results from drilling in recent years. Several major mining companies conducted regional mapping and silt sampling programs in the 1950's and 1960's over the entire Galore Creek area and in 1957 the Copper Canyon copper-gold porphyry deposit was discovered eight kilometres east of the Central Zone. The Copper Canyon deposit, with 35.7 million tonnes at a grade of 0.75% copper and 1.17 g/tonne (0.034 oz/ton) gold (Cons. Rhodes, 1991), was actively explored in 1990 after a hiatus of 33 years.

Conwest Exploration staked the CW claim group in 1964 over a large area north and west of the Galore Creek deposit, including the Galore Pup drainage. They conducted regional mapping and sampling over their claims, taking fifteen rock samples and 91 silt samples in 1964, of which five rock samples and 23 silt samples were taken from the area now covered by the OP and Pup claims. Of the thirteen silt samples which returned values of 300 ppm copper or higher, ten were taken from ground currently covered by the Pup claim group (Grant, 1964).

In 1965, PCE Explorations and Canadian Superior Explorations staked the O. P. claims near the present location of the OP 1 and 2 claims, but allowed them to lapse after performing limited soil and stream geochemical sampling (Hindson, 1965).

Consolidated Goldwest Resources Ltd. acquired the Pup property in 1988 and carried out a preliminary exploration program later that year, consisting of geological mapping, prospecting and geochemical sampling. Eleven screened stream sediment samples were collected from tributaries of Galore Pup Creek, with three exceeding 60 ppb gold. Five rock samples were collected from mineralized outcrop and float near Galore Pup Creek, with values

up to 1000 ppb gold and 4800 ppm copper (Awmack, 1989).

In 1989, Consolidated Goldwest carried out further prospecting and geological mapping, taking 8 silt samples and 130 rock samples. Two contour soil lines were established on the west side of Galore Pup Creek beneath some prominent gossans, in areas which returned positive silt sampling results for Conwest in 1964. Two zones of mineralization and alteration, the Malachite and Saddle Zones, were identified by the 1989 exploration program. The Malachite Zone is a porphyry-style copper-gold occurrence which covers an area 400 metres by 300 metres on the west side of Galore Pup Creek, with anomalous copper-gold soil geochemistry extending a further 500 metres south along the soil contour lines. The Saddle Zone is a system of northerly-trending shears and related copper-gold-leadzinc occurrences over an area of 300 metres by 1,100 metres on the Maximum values from grab sampling were 2.05% copper Pup 3 claim. with 1.23 g/tonne (0.036 oz/ton) gold from the Malachite Zone and 1.30 g/tonne (0.038 oz/ton) gold from the Saddle Zone (Ross, 1989).

In 1990, Consolidated Goldwest established a grid over the Saddle Zone, extending 1,700 metres north from the south property boundary. Soil sampling over the grid yielded a gold anomaly (>50 ppb) extending 1,400 metres north from the property boundary, remaining open to the north and roughly coinciding with a copper anomaly. This soil anomaly included values up to 1400 ppb gold and 741 ppm copper. Geological mapping, rock sampling, magnetic and VLF-EM surveys were also carried out over the Saddle Zone grid. A small soil grid was emplaced over the Pickston Zone, a series of narrow quartz-sulphide veins within a gossanous thrust fault on the OP 1 claim. Additional mapping, prospecting and soil sampling were also carried out over the Malachite Zone (Chapman and Vanwermeskerken, 1990).

4.2 1991 Exploration Program

During July 1991, Consolidated Goldwest Resources Ltd. carried out a limited diamond drilling program on the Saddle Zone of the Pup property. Two drill holes with collars 425 metres apart, totalling 306.3 metres of BDGM core, were drilled to test goldcopper soil geochemical anomalies, a VLF-EM conductor and altered shear zones. Core was logged, split in its entirety and stored at the Porcupine River base camp. Drill logs are attached in Appendix C.

Geological mapping and prospecting were confined to the vicinity of the drilling, using the Saddle Zone grid and a 1:2,000 topographic enlargement for control. Thirty reconnaissance rock samples and 211 core samples were analyzed geochemically for gold and 31 elements by ICP. Rock samples that exceeded 1000 ppb gold, 100 ppm silver or 10,000 ppm copper, lead or zinc were assayed. Reconnaissance rock sample descriptions are attached in Appendix B and analytical certificates in Appendix D.

5.0 REGIONAL GEOLOGY

The basis for regional geological mapping in the Stikine River area was set out by Kerr (1948b), the crew of Operation Stikine (GSC, 1957) and Souther (1972). Their work has been refined in the Galore Creek area by Brown and Gunning (1989a,b) and Logan et al (1989a,b) at a scale of 1:50,000.

The Galore Creek Camp lies within the Intermontane Belt, a geological and physiographic province of the Canadian Cordillera, and flanks the Coast Plutonic Complex to the west (Figure 4). At Galore Creek, the generally northwest-trending structure of the Intermontane Belt is discordantly cut across by the northeasttrending Stikine Arch which became an important, relatively positive tectonic element in Mesozoic time when it began to influence sedimentation into the Bowser Successor Basin to the southeast and into the Whitehorse Trough to the northwest (Souther et al., 1974).

Stikinian stratigraphy ranges from possibly Devonian to Jurassic, and was subsequently intruded by granitoid plutons of Upper Triassic to Eocene age. The oldest strata exposed in the Galore Creek camp are Mississippian or older mafic to intermediate volcanic flows and pyroclastic rocks (Units 4A and 4B) with associated clastic sediments (Units 4C, 4D, 4G and 4J) and carbonate lenses (Unit 4E). These are capped by up to 700 metres of Mississippian limestone with a diverse fossil fauna (Unit 4E). It appears from fossil evidence that all of the Pennsylvanian system is missing and may be represented by an angular unconformity and lacuna of 30 million years, though field relationships are complicated by faulting (Monger, 1977; Logan and Koyanagi, 1989a). Permian limestones (Units 6A, 6B and 6C), also about 700 metres thick, lie upon the Mississippian limestone but are succeeded by a second lacuna amounting to about 20 million years from the Upper Permian to the upper Lower Triassic.

Middle and Upper Triassic siliciclastic and volcanic rocks (Unit 7) are overlain by Upper Triassic Stuhini Group siliciclastic (Units 8A and 8B) and volcanic (Units 8D, 8E, 8G, 8H and 8I) rocks, consisting of mafic to intermediate pyroclastic rocks and lesser flows. The Galore Creek porphyry copper deposit appears from field evidence to mark the edifice of an eroded volcanic centre with numerous sub-volcanic plutons of syenitic composition. Jurassic Bowser Basin strata onlap the Stuhini Group strata to the southeast of the Iskut River but, because of erosion and non-deposition, are virtually absent from the Galore Creek area.

The plutonic rocks follow a three-fold division (Logan and Koyanagi, 1989a,b). Middle Triassic to Late Jurassic syenitic and broadly granodioritic intrusions are partly coeval and cogenetic with the Stuhini Group volcanics and include the composite Hickman Batholith (Unit 9) and the syenites of the Galore Creek Complex

(Unit 11). Jura-Cretaceous Coast Plutonic Complex intrusions (Unit 12) occur on the west side of the Galore Creek Camp, along the Stikine River, with the youngest of these intrusions occupying more axial positions along the trend of the Coast Plutonic Complex flanked by older intrusions. The youngest intrusives in the Galore Creek Camp are Eocene (quartz-) monzonitic plugs (Unit 13), felsic and mafic sills and dykes (Unit 14), and biotite lamprophyre (minette) dykes (Unit 14C).

The dominant style of deformation in the Galore Creek area consists of upright north-trending, open to tight folds and northwest-trending, southwest-verging, folding and reverse faulting in the greenschist facies of regional metamorphism. Localized contact metamorphism ranges as high as pyroxene hornfels grade; metasomatism is also noted near intrusions. Upright folding may be an early manifestation of a progressive deformation which later resulted in southwest-verging structures. Southwest-verging deformation involves the marginal phases of the Hickman Batholith and so is, at least in part, no older than Late Triassic.

Steeply dipping faults which strike north, northwest, northeast, and east have broken the area into a fault-block mosaic. North-striking faults are vertical to steeply east-dipping and parallel to the Mess Creek Fault (Souther, 1972), which was active from Early Jurassic to Recent times (Souther and Symons, 1974); northwest-striking faults are probably coeval with the northstriking faults, but locally pre-date them. East-west trending faults are vertical or steeply dipping to the north and display north-side down dip slip kinematics, whereas northeast-striking faults are the loci of sinistral, strike-slip motion (Brown and Gunning, 1989a).

A number of metallic deposit types have been recognized in the Galore Creek camp: porphyry copper \pm molybdenum \pm gold deposits, structurally-controlled precious metal vein/shear deposits, skarns and breccia deposits (Figure 3). Porphyry copper deposits of this area include both the alkalic Galore Creek coppergold and calc-alkalic Schaft Creek copper-molybdenum deposits. Galore Creek, which is associated with syenitic stocks and dykes rather than a quartz-feldspar porphyry, is further contrasted from the calc-alkaline Schaft Creek in that molybdenite is rare, magnetite is common and gold and silver are important by-products. The mineralization is clearly coeval and cogenetic with the spatially associated intrusive bodies. Other porphyry copper occurrences in the Galore Creek area include the Ann/Su, Copper Canyon, Sphal and Jack Wilson Creek deposits.

Structurally-controlled gold-silver deposits have been the focus of exploration in recent years. The vein/shear occurrences are similar throughout the Galore Creek camp in that they are mesothermal in nature, containing base metal sulphides with strong silica veining and alteration. However, it appears that the intrusive bodies associated with this mineralization fall into two classes on the basis of age and composition. These two classes are reflected in differences in the style of structures, sulphide mineralogy and associated alteration products. The intrusive types are: 1) Lower Jurassic alkaline "Galore Creek" stocks; and 2) Eocene quartz monzonite to porphyritic granodiorite intrusions. Lead isotope data from the Stewart mining camp (Alldrick et al., 1987) further supports the proposition that separate Jurassic and Tertiary mineralizing events were "brief regional-scale phenomena".

Structures associated with the Lower Jurassic syenites are typically narrow quartz-chlorite veins mineralized predominately with pyrite, chalcopyrite and magnetite. Examples of these structures in the Galore Creek camp include many of the discrete zones peripheral to the Galore Creek deposit and the gold-rich veins at Jack Wilson Creek.

The Tertiary mineralization comprises discrete quartz veins and larger shear zones characterized by pervasive silicification, sericitization and pyritization whose total sulphide content is commonly quite low. The quartz veins contain a larger spectrum of sulphide minerals including pyrite, chalcopyrite, pyrrhotite, arsenopyrite, galena and sphalerite. Unlike the Jurassic mineralization, silver grades may be very high. The Paydirt deposit appears to fall into this category.

Skarns represent a minor percentage of the precious metalbearing occurrences in the Galore Creek camp. The mineralogy of these deposits is influenced by the composition of the intrusion driving the hydrothermal fluids. In deposits associated with alkalic intrusions, the skarn assemblage is commonly dominated by magnetite and chalcopyrite, as at the Galore Creek deposit and the Hummingbird skarn on the east side of the South Scud River.

The breccia-hosted mineralization discovered in the Galore Creek camp precious metal deposits appear to be unique in style and mineralization. Three occurrences have been located in the camp: (1) the zinc-silver-gold Ptarmigan zone in the South Scud River area, (2) the copper-molybdenum-gold-silver breccia at the Trek property on Sphaler Creek and (3) the copper-bearing and magnetite breccias of the complex Galore Creek deposit. The single common denominator of each is that the zones are located along fault structures which may represent the main conduit for mineralizing fluids.

Kuroko-type volcanogenic massive sulphide mineralization has not yet been reported from the Galore Creek area, but significant deposits occur in similar stratigraphy to the northwest and southeast. Volcanogenic massive sulphide deposits have long been known in the Tulsequah area, hosted by felsic and sedimentary units of a Paleozoic island arc complex (Nelson and Payne, 1984), which appears to correlate with the pre-Permian metamorphic rocks of the

Galore Creek district. The Tulsequah Chief deposit, located 200 kilometres northwest of the Paydirt property, has reported reserves of 4.7 million tonnes at a grade of 1.6% copper, 1.3% lead, 7% zinc, 2.7 g/tonne gold and 101 g/tonne silver (Northern Miner, Dec. 10/90). On the Rock and Roll property, located 45 kilometres southwest of the Paydirt claims in the Iskut River area, Thios Resources reports a new VMS discovery in Stuhini sediments with drill intersections up to 881 g/tonne silver, 5.35% zinc, 2.07% lead, 2.74 g/tonne gold and 0.58% copper over 9.7 metres (Thios, 1990).

6.0 PROPERTY GEOLOGY AND MINERALIZATION

6.1 Geology

Geological mapping has been conducted over the Pup property by Ross (1989) and Chapman and Vanwermeskerken (1990). Descriptions of property geology are abridged from these reports (Figure 5). Additional mapping during the 1991 program was confined to the vicinity of drilling in the Saddle Zone area.

The oldest rock unit recognized on the property is a pale grey to buff-coloured, thickly bedded, crystalline Permian limestone (Unit 6A), with minor cherty and argillaceous interbeds, which underlies most of the OP 1 and 2 claims. Bedding generally strikes north and dips steeply to the west. The limestones on the property lie in the eastern limb of a northerly striking, southerly plunging syncline. A pronounced northwest striking fault cuts through the limestones across the OP 1 claim, truncating the thrust fault which has thrust the Permian limestone over the Upper Triassic Stuhini Group strata. Minor, irregular gabbroic dykes occur randomly in the limestones, apparently unrelated to any major structures.

The second oldest unit is a Middle Triassic carbonaceous silty shale (Unit 7). Logan et al. (1989b) have mapped this unit in fault-bounded wedges 600 meters northwest of the legal corner post for the OP 2 claim and at the edge of a glacier on the western boundary of that claim. Logan et al. (1989b) describe the unit as carbonaceous silty shales with elliptical concretions, overlain by siliceous and limy siltstones.

The remainder of the claim block is underlain by the Upper Triassic Stuhini Group of sediments, volcanic flows and tuffs (Unit 8) which are believed to overlie conformably the Middle Triassic sediments. Greywacke and sedimentary breccia (Unit 8A) are exposed along Galore Pup Creek. The greywacke is dark grey, micaceous and calcareous. The sedimentary breccia is composed of a grey-green fine- to medium-grained matrix containing numerous rip-up clasts of dark grey shale. Bedding strikes northeast and dips steeply northwest. Limited mapping along the southeastern slope of the valley confirmed the presence of siltstones and greywackes up to

1250 metres elevation. On the northwestern slope of Galore Pup valley, the clastic sediments are overlain by 30 meters of black, graphitic, rusty-weathering argillite which is overlain by an unknown thickness of grey-green siltstones. These siltstones are slightly micaceous and contain 2-3% finely disseminated pyrite. Bedding strikes north-south with a steep dip to the west. Several discontinuous, pyrrhotite-bearing quartz-carbonate veins, less than 10 centimetres in width, crosscut the bedding.

Above the sediments, at approximately 1000 meters elevation, is a mixed package of weathered schistose rocks of uncertain origin and altered volcanics (Unit 8). Foliation strikes northeast and dips to the northwest. Finely disseminated pyrite occurs in the schist. The volcanics are pyritic, rusty-weathering and generally too oxidized to determine their original composition. At 1350 meters elevation, the volcanics are overlain by clastic sediments (Unit 8A), similar to those exposed in Galore Pup Creek and at higher elevations by dark grey, well laminated argillites and siltstones. Minor pyroxene porphyry flows (Unit 8D) are interbedded with the sediments.

The ridge on the western half of the Pup 3 claim is dominantly underlain by pale grey-green crystal tuffs and tuffaceous siltstones (Unit 8A, 8H), and minor pyroxene porphyry flows (Unit 8D). Contacts between the two units are sharp and irregular. The tuffaceous units dominate the western half of the ridge with the sedimentary unit on the eastern half. Thin-bedded, dark grey, rusty-weathering argillites of this unit (Unit 8A) outcrop on top of the ridge as faulted, sheared wedges caught up in the volcanics. Several well-defined shear zones, up to ten metres in width, strike $010^{\circ}-020^{\circ}$ along the length of the ridge and dip steeply to the west. A wide band of sheared argillite and tuff is exposed on the main cliff face where this western ridge drops to the Saddle Zone. These beds form a large overturned isoclinal fold dipping moderately to the west, closing to the east. Tightly folded and sheared argillite and tuff beds occupy the core of the fold. fault-bounded band of foliated argillites parallel the shears on the western side of the ridge.

The Saddle area is a complex assemblage of Stuhini Group tuffaceous units, altered volcanics and minor graphitic argillites, with altered monzonite intrusives (Figure 6). Numerous northnortheast to north-northwest trending shear zones cross the area, obscuring contacts and imparting a strong foliation and sericitization to the affected units. Foliation strikes consistently north-northeast and dips forty to seventy degrees to the west. Highly altered, pyritiferous volcanics (Units 8D, 8H), tuffs (Unit 8G), siltstones (Unit 8A), and intrusives (Unit 11B) underlie the western half of the Saddle area, whereas relatively unaltered, undeformed lapilli and crystal tuffs (Unit 8H) and porphyritic intrusives (Unit 11B) underlie the eastern half of the saddle. The intrusives are pale grey, weathering to white or rusty brown, with up to 10% black hornblende needles and up to 40% feldspar phenocrysts in a fine-grained grey matrix containing finely disseminated pyrite or pyrrhotite. Staining indicates that these commonly zoned phenocrysts are plagioclase within a matrix composed entirely of potassium feldspar. The monzonitic intrusives, which have not been dated, are assumed to be Jurassic Galore Creek intrusives; however, their textures resemble the Tertiary stocks found elsewhere in the Galore Creek district. The monzonite bodies appear to have been more resistant to the episodes of shearing, as the shear zones are locally deflected by the monzonites. The crystal and lapilli tuff (Unit 8H) is pale grey, weathering to white. Its fragments stand out in relief on weathered surfaces, giving the rock a gritty, sedimentary appearance.

6.2 Mineralization

Three zones of significant mineralization have been described by Chapman and Vanwermeskerken (1990) and Ross (1989): the Saddle Zone, located on the western half of the saddle area between the headwaters of Jack Wilson and Galore Pup Creeks (Figure 6), the Malachite Zone, located on the northwestern slope of the Galore Pup valley between 1000 and 1400 meters elevation and the Pickston Zone, located near 1100 metres west of Galore Pup Creek on the OP 2 claim. Of these, only the Saddle Zone was examined during the 1991 program, and descriptions for all zones are largely taken from Ross (1989) and Chapman and Vanwermeskerken (1990).

Saddle Zone

The Saddle Zone (Figure 6) comprises altered volcanics, intrusives and sediments, cut by a number of strong northerlytrending shears. Alteration is variable and irregular, with varying degrees of sericitization and silicification and later bleaching and clay alteration. Chlorite and epidote alteration is also locally present in the volcanics. Pyritization is widespread, with most rocks containing a minimum of 2-3% silvery pyrite. Mineralization consists of 1-5% finely disseminated pyrite with lesser disseminated chalcopyrite, galena and sphalerite, with or without quartz, in foliated host rocks. Galena and sphalerite are more prevalent in the southern half of the saddle, while pyrite dominates to the north. Significant results from the Saddle Zone are summarized in Table 6.2.1.

Sampling in the Saddle Zone has been concentrated on a major shear approximately ten meters in width, termed the "Jack Wilson Shear", which trends north-northeast and dips 50° to the west. The shear can be traced for approximately 1100 meters along strike, cutting across the saddle and disappearing under glacial debris in Jack Wilson Creek. Samples taken from this shear along 600 meters of strike length, returned anomalous gold and base metal values which ranged up to 480 ppb gold, 8610 ppm copper, 1.95% lead and 3.40% zinc (Ross, 1989). Two samples taken in 1991 (52771 and 52772) of sericitized, silicified and pyritized lapilli tuffs with traces of chalcopyrite and disseminated pyrite returned values of up to 1637 ppm copper with weakly anomalous gold (123 ppb).

Another well defined shear within the Saddle Zone, termed the "Galena Shear", trends 032° and dips vertically approximately one hundred meters east of and near parallel to the Jack Wilson Shear. It is marked by a gully approximately five meters deep, which is truncated to the north at the bowl shaped area at the head of the Jack Wilson Creek.

A zone of intense bleaching lies roughly between and along these two shear zones. Sampling in 1990 of a quartz-calcitechalcopyrite stringer stockwork within this zone returned values of up to 260 ppb gold and 4300 ppm copper (Chapman and Vanwermeskerken, 1991).

Another major shear zone, parallel to the Galena Shear and a further 200 meters to the east, was sampled at only two locations along its inferred 1000 meter strike length. In both samples, erratic, discontinuous quartz-sulphide veins are hosted in dark green pyroxene porphyry flows adjacent to the shear. These quartz veins returned anomalous values up to 810 ppb gold, 40.0 ppm silver, 1.91% zinc, 9140 ppm lead and 1400 ppm copper (Ross, 1989).

An occurrence of porphyry-style mineralization in an area of previous chip sampling (Chapman and Vanwermeskerken, 1991) was reexamined in 1991. A 2.0 metre select sample (52778) consisting of fracture- and veinlet-controlled chalcopyrite within monzonite returned values of 820 ppb gold and 3556 ppm copper. A similar grab sample (39135) of chalcopyrite-bearing quartz stringers taken in 1990 contained 75 ppb gold and 14,000 ppm copper.

The Saddle Zone is penetrated by later bedding- and foliation-parallel and cross-cutting quartz veins with minor copper and iron sulphide mineralization. Chapman and Vanwermeskerken (1991) noted that these veins are oriented 154°/58° NE and are probably extensional features related to folding.

SAMPLE	WIDTH (meters)	GOLD (ppb)	SILVER (PPM)	COPPER (ppm)	LEAD (ppm)	ZINC (ppm)
52771*	0.35	24	1.8	1229	19	45
52772*	5.0	123	2.8	1637	12	40
52778*	2.0	820	3.7	3556	17	165
39117#	n/a	45		1200		
39135 #	n/a	75		14000		
39137#	n/a	230		2700		
39139#	n/a	260		4300		
37776 #	n/a	<5		1300		

TABLE 6.2.1 SIGNIFICANT SADDLE ZONE SAMPLING RESULTS

SAMPLE	WIDTH	GOLD	SILVER	COPPER	LEAD	ZINC
-	(meters)	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
447202&	Float	560	1.0	2160	35	40
447203&	0.3	480	2.0	962	5	34
447206&	1.0	210	16.5	1.57%	25	128
447212&	0.1-1.0	810	<0.5	375	30	130
447213&	0.2-0.5	50	40.0	1400	9140	1.91%
459580&	Float	280	13.0	1.92%	<5	60
459583&	1.0	130	3.5	2410	75	1.11%
459585&	1.5	0.038	oz/t 7.0	184	365	152
463059&	0.5	350	3.0	1780	230	704
463063&	0.5	260	5.5	8610	<5	78
463065&	1.5	95	5.0	716	1.95%	3.40%

TABLE 6.2.1 (Continued) SIGNIFICANT SADDLE ZONE SAMPLING RESULTS

* 1991 sample

1990 sample (Chapman and Vanwermeskerken, 1991)

& 1989 sample (Ross, 1989)

Malachite Zone

The Malachite Zone extends 400 meters horizontally, between 1000 and 1400 meters elevation on the northwestern slope of the Galore Pup valley, in an area drained by several major tributaries of Galore Pup Creek. Intermediate tuffs and argillites, intruded by andesite and lamprophyre dykes, are very weakly foliated parallel to the Saddle Zone and contain 3-5% disseminated pyrite. Mineralization is both disseminated and within discrete quartz In the first type, 1-7% pyrite and 1-2% chalcopyrite form veins. blebs and disseminations within altered volcanics. Grab sample #459562, which was taken across one meter of this material from within a twenty meter patch of heavy malachite staining, assayed 1.23 g/tonne (0.036 oz./ton) gold with 2.05% copper. The second type of mineralization consists of quartz veins with up to 5% pyrite and 1% chalcopyrite. The quartz veins are generally 2-30 centimetres in width and up to five meters in length. A small outcrop of a felsic intrusive body, several meters square and containing up to 1% disseminated chalcopyrite, outcrops just below the Malachite Zone. Silver, lead and zinc values are relatively low for all Malachite Zone samples.

<u>Pickston Zone</u>

The Pickston Zone consists of a series of silicious sulphiderich pods and quartz-sulphide veins within a gossanous thrust fault. Individual veins and pods are up to 20 centimetres wide and ten metres long, with up to 50% pyrite, 30% pyrrhotite, 20% galena, 5% chalcopyrite, minor bornite and traces of sphalerite. Gold contents are generally very low, with a maximum of 510 ppb (Chapman and Vanwermeskerken, 1991).

7.0 DIAMOND DRILLING

Two diamond drill holes, spaced 400 metres apart and totalling 306.3 metres of BDGM core, were drilled on the Saddle Zone of the Pup property from July 27 to 31, 1991. These holes were designed to test coincident copper-gold soil anomalies, a VLF-EM conductor, prominent north-northeasterly trending altered shear zones. Drill hole location and orientation data are summarized in Table 7.0.1 below.

TABLE 7.0.1 1991 DIAMOND DRILL HOLE DATA

Hole	Grid Lo	ocation	Azimuth	Dip	Length		
Number	North	East	(degrees)	(degrees)	(metres)		
PUP91-01	13+25	1+50	090	-48	179.2		
PUP91-02	8+94	1+51	090	-45	127.1		

7.1 Drill Hole PUP91-01

Drill hole PUP91-01 was collared west of a strong coincident copper-gold soil geochemical anomaly, with maximum values of 1000 ppb gold and 430 ppm copper. This area, at the northern end of the Saddle Zone shears, is underlain by silicified and sericitized Stuhini Group mafic volcaniclastics containing 5% to 7% disseminated pyrite.

This drill hole intersected strongly sericitized and moderately strongly silicified to Stuhini Group mafic volcaniclastics and plagioclase-porphyritic monzonite dykes. Generally, these dykes are not as intensely altered as the volcanics they intrude. Overall, the hole contains 5% to 10% disseminated pyrite with lesser pyrrhotite and traces of chalcopyrite, commonly with the pyrrhotite, throughout the hole. This drill hole did not intersect any intervals with greater than 500 ppb gold or 1000 ppm copper.

7.2 Drill Hole PUP91-02

Drill hole PUP91-02 was designed to test a VLF-EM conductor axis and a copper-gold soil geochemical anomaly with values of up to 300 ppb gold and 550 ppm copper. It also tested the Jack Wilson Shear, which was well defined by the VLF-EM survey. On surface, epidote and potassium feldspar altered Stuhini Group crystal tuffs, sericite and pyrite altered mafic volcaniclastics, tuffs and plagioclase-porphyritic monzonites are exposed. Significant intersections from this hole are tabulated below in Table 7.2.1.

The rock types encountered by drilling correlate very well with the surface exposures. Of particular interest is a zone marked by numerous monzonite dykes, commonly with sub-parallel plagioclase phenocrysts which has been altered by potassium feldspar from 22.8 to 80 metres in depth. Mineralization in this hole is similar to that intersected in PUP91-01, consisting of 3% to 10% disseminated pyrite with lesser pyrrhotite and traces of chalcopyrite. The cupriferous intersection near the top of the hole reflects mineralization within the Jack Wilson Shear consisting of 3% to 7% disseminated pyrite with minor chalcopyrite and malachite within rusty, strongly fractured sericite altered mafic volcanics. The highest auriferous intersection, assaying 1.26 g/tonne (0.037 oz./ton) gold from 68.4 to 69.9 metres, consists of sericitic mafic volcaniclastics with pyrite, pyrrhotite and traces of chalcopyrite, but otherwise there are no macroscopic characteristics that make this interval distinctive.

TABLE 7.2.1. PUP91-02 SIGNIFICANT INTERSECTIONS

Depth	Length	Au	Ag	Cu	Pb	Zn
(metres)	(metres)	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
9.3 - 19.8	10.5	114	1.5	1213	17	73
68.4 - 69.9	1.5	1.26g/t	2.0	398	78	52

8.0 DISCUSSION

The 1991 exploration program focused on drilling the Saddle Zone structures and mapping in the immediate vicinity of these two drill holes. The drill targets were defined by coincident coppergeochemistry, qold VLF-EM conductors and anomalous rock The Saddle geochemistry. Zone is typical of high alpine environments with poor soil development; as a result, the 1990 soil geochemical values closely resemble those obtained by surface rock sampling and through drilling. Intersections encountered by drilling are sub-economic in grade and size. The best mineralization sampled in 1991 was a chalcopyrite-bearing monzonite intrusive (52778) resembling porphyry-style mineralization of the Grey or West Zones on the Trek property (Awmack, 1991) containing 820 ppb gold and 3556 ppm copper. This monzonite, which appears to be potassium feldspar altered, contains 0.5% to 1% disseminated and fracture-controlled chalcopyrite and covers an area 50 metres by 60 metres, the southern extent of which has not been examined.

The genesis of the copper mineralization noted above in the Saddle Zone appears to be directly related to monzonitic intrusives, which are assumed to be Jurassic Galore Creek intrusions. The monzonite plugs generated a porphyry copper system that is similar in age and, in part, alteration to that observed at the Galore Creek Deposit three kilometres to the southeast. However, this monzonite seems to be a plug-like body in the Saddle Zone, as opposed to a series of episodic syenite dykes and sills as present at Galore Creek. Heavy sericite and pyrite alteration was introduced to this system along the north-trending shear zones. The sericite-pyrite alteration has overprinted the potassium feldspar alteration, obscured original rock textures and replaced the regional propylitic alteration. These sericite altered shear zones have been noted as destructive to copper grades at the Galore Creek Deposit (E. Yarrow, pers. comm., 1991) and on the Paydirt property (Harris, 1991). The bedding-parallel Jack Wilson Shear is wider and more penetrative in the volcanic units and is pinched and deflected by the monzonite plug. The faulting associated with this shear zone continued after the sericite-pyrite mineralizing event into the late Tertiary, as evidenced by offset, unaltered Tertiary andesite dykes.

Although diamond drilling of the Saddle Zone did not return significant economic intersections, copper- and gold-bearing porphyry-style mineralized monzonite intrusives were observed within this zone peripheral to the sericite-pyrite alteration. The similarity of this mineralization to showings at the Trek property, and deposits at Galore Creek and Copper Canyon merits further investigation.

Respectfully submitted, EQUITY ENGINEERING LTD.

Dewart Ha A. Stewart Harris, Geologis p. A. Caulfield Vancouver, British blumbia September, 1991 FELLON

APPENDIX A

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BIBLIOGRAPHY

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_ Equity Engineering Ltd. __

APPENDIX B

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ROCK SAMPLE DESCRIPTIONS

AS	Arsenopyrite	GO	Goethite
AZ	Azurite	JA	Jarosite
BO	Bornite	MC	Malachite
CA	Calcite	MG	Magnetite
СВ	Fe-Carbonate	MO	Molybdenite
$C\Gamma$	Chlorite	MS	Sericite
CP	Chalcopyrite	PO	Pyrrhotite
СҮ	Clay	РҮ	Pyrite
EP	Epidote	SI	Silica
GL	Galena	SP	Sphalerite
GO	Goethite	SI	Silica
JA	Jarosite	SP	Sphalerite

EQUITY ENGINEERING LTD.			ROCK SAMPLE DESCRIPTIONS			Page-1-					
Property :	PUP		NTS : 104G Date : 08/23/91		23/91						
Sample No.	Location :	6339 292 N	Type : Grab	Alteration :	EP, MS, pQZ	Au	Ag	Cu	Pb	Zn	As
		347 336 E	Strike Length Exp. : 1 m	Sulphides :	5-10%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52751	Elevation:	1175 m	Sample Width : 1 m	Oxides :	GE, JA	46	2.1	158	9	53	1
	Orientation	:? /? ?	True Width : 1 m	Host :	Augite porphyry						
Comments :	Sample from outo	crop near soil ar	nomaly, containing stringers of ca	lcite and manganes	e. Sample was possibl	y from a veir	1.				
Sample No.	Location :	6339 304 N	Type: Grab	Alteration :	EP, MS	Au	Ag	Cu	Pb	Zn	As
		347 364 E	Strike Length Exp. : ? m	Sulphides :	5%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52752	Elevation:	1170 m	Sample Width : 30 cm	Oxides :	GE, JA	37	1.6	63	9	38	1
	Orientation	:? /? ?	True Width : m	Host :	Augite porphyry						
Comments :	Sample from a se	ericite-altered z	cone within a resistant epidote al	tered knob at stat	ion 0+25W 3+00N.						
Samala No		4770 204 M	Tune : Grab	Alteration +	МС	Âu	۸n	Cu	Ph	70	Åc
Sample NO.	Location .	3/7 354 c	Strike Longth Evp + 2 m	Sulphides :	1907	(ppb)	(00m)	(000)	(0000)	(0000)	(0000)
£ 275 X	Flouations	347 330 E	Some lo lidth · 2 m	Oridos	1705 1	20	1.2	(ppm) 35	(ppa)	11	1
26125	Criestation:		Sample width : ? m	UXTUES ;	Augita pomphumu	20	1.2		2		I
Comments :	Urientation:	i / / / /	Irue Width : 2 m eration between 0+250 and 0+500 o	NOST :	Augite porphyry						
	Sample of Tecess										
Sample No.	Location :	6339 294 N	Type : Grab	Alteration :	EP, MS	Au	Ag	Cu	Pb	Zn	As
		347 366 E	Strike Length Exp. : 100 m	Sulphides :	<1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52754	Elevation:	1165 m	Sample Width : 3 m	Oxides :	GE	24	1.2	46	8	48	2
	Orientation:	? /? ?	True Width : 3 m	Host :	Augite porphyry						
Comments :	Epidote sericite	e alteration samp	led at 1 metre intervals across to	rue width.							
	Looption .	4770 712 N		Alteration .	МС	A	4 .m	C	Ph	7.0	40
sample no.	LUCALION :	3/7 380 F	strike Length Even - 100 m	Sulphidos	no 10909	AU (mah)	~y (nom)		(DDM)	211 (ppm)	/nom\
53755	Elevation	1170 m	Sample Highth : 10 m	Ovideo		(2007	(ppm)	20	(ppii)	2/	(ppm)
	Orioptation	1170 m 3 (3 3	Sample which : To m	Uxides :	UE, JA	10	.0	29	0	24	1
Components .	Chin comple cone	r /r r	histophic structure	nost :	UNKNOWN						
connents :	chip sampte acro	iss to metres of	breached service attenation.								
Sample No.	Location :	6340 324 N	Type : Grab	Alteration :	sMS, pSI	Au	Ag	Cu	Pb	Zn	As
		347 636 E	Strike Length Exp. : 30 m	Sulphides :	20%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52756	Elevation:	1195 m	Sample Width : 15 m	Oxides :	GE, trJA, trMC	39	1.1	118	8	16	4
	Orientation:	039 / 52 W	True Width : 15 m	Host :	Lapilli tuff						
Comments :	Sampled across a	wide band of al	teration. Sample taken to the wes	st of sample number	52758						

EQUITY ENG	INEERING LTD.		ROCK SAMPLE DESCRIPTIONS			Page-2-					
Property :	PUP		NTS : 104G	Date : 08/	23/91						
Sample No.	Location :	6340 270 N	Type : Grab	Alteration :	sMS	Au	Ag	Cu	Pb	Zn	As
		347 672 E	Strike Length Exp. : 40 m	Sulphides :	TrCP, 10%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52757	Elevation:	1225 m	Sample Width : 4 m	Oxides :	₩GE	78	1.7	398	19	47	3
	Orientation	: 026 / 50 W	True Width : 4 m	Host :	Monzonite						
Comments :	Sample from a b	and of alteration	n about 20 metres up slope from si	tation 2+50E L13+00	N .						
Sample No.	Location :	6340 276 N	Type: Grab	Alteration :	MS	Au	Ag	Cu	Pb	Zn	As
		347 672 E	Strike Length Exp. : 30 m	Sulphides :	3-5%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52758	Elevation:	1220 m	Sample Width : 4 m	Oxides :	GE	110	1.2	151	22	65	18
	Orientation	: 021 / ? ?	True Width : 4 m	Host :	Monzonite						
Comments :	Sample adjacent	to #52757 taken	at intervals across a schistose r	resistant ridge.							
Sample No.	Location :	6340 284 N	Type : Grab	Alteration :	pCL, MS, SI	Au	Ag	Cu	Pb	Zn	As
		347 680 E	Strike Length Exp. : 40 m	Sulphides :	3%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52759	Elevation:	1220 m	Sample Width : 20 m	Oxides :	WGE	44	1.6	469	20	67	22
	Orientation	; ? / ? ?	True Width : 20 m	Host :	Monzonite						
Comments :	Sample taken fro	om very hard, sli	ghtly rounded band of mineralizat	ion.							
						•	•	6	04	7-	•
Sample No.	Location :	634U 3U4 N	Type: Grab	Alteration :	SMS, WSI ERDV	AU	Ag	.u	PD	20	AS
		347 800 E	Strike Length Exp. : 1 m	sulphides :	5%P1	(ppo)	(ppm)	(ppm)	(ppn)	(ppm)	(ppiii)
52760	Elevation:	1145 m	Sample Width : 30 cm	Oxides :	WGE	2	1.2	20		21	4
	Orientation	; 358 / ? ?	True Width : 30 cm	Host :	Matic Volcaniclasti	6					
Comments :	Sample from a ve	ery small outcrop	o in a resesive gully @ 3+75E L13+	OON.							
Sample No.	Location :	6340 286 N	Type: Grab	Alteration :	MS	Au	Ag	Cu	Pb	Zn	As
		347 856 E	Strike Length Exp. : 5 m	Sulphides :	5%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52761	Elevation:	1145 m	Sample Width : 30 cm	Oxides :	GE	40	.7	158	8	18	4
	Orientation:	:036 /71 W	True Width : 30 cm	Host :	Mafic volcaniclasti	5					
Comments :	Sample from a la shear zone.	arge shear zone;	either pinches out or dives benea	th overburden. Qua	artz veining present p	parallel to					
Sample No.	Location :	6340 302 N	Type : Grab	Alteration :	wCL, mSI	Au	Ag	Cu	РЬ	Zn	As
		347 298 E	Strike Length Exp. : 100 m	Sulphides :	3-5%PO	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52762	Elevation:	1130 m	Sample Width : 3 m	Oxides :		18	1.8	105	2	56	1
	Orientation:	? /? ?	True Width : 3 m	Host :	Unknown						
Comments :	Sample taken up	slope from stati	on 4+75E L13+00N from a large out	crop containing fi	ne-grained disseminate	ed PO.					

EQUITY ENG	INEERING LTD.		ROCK SAMPLE DESCRIPTIONS			Page-3-					
Property :	PUP		NTS : 104G	Date : 08/	23/91						
Sample No.	Location :	6340 000 N 347 632 E	Type : Grab Strike Length Exp. : 60-70 m	Alteration : Sulphides :	PCL, MS, sSI 3%PO	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
52763	Elevation: Orientation:	1250 m ;? /? ?	Sample Width : 6 m True Width : ? m	Oxides : Host :	sGE Monzonite	34	1.3	182	17	27	2
Comments :	Sample from larg veining in the f	ge altered outcro Footwall only.	p with numerous quartz veins (sam)	ple #52764). Stra	ong GE staining is on	the quartz					
Sample No.	Location :	6339 994 N 347 632 E	Type : Grab Strike Length Exp. : 15 m	Alteration : Sulphides :	QZ	uA (dqq)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
52764	Elevation: Orientation:	1250 m 003 / 36 W	Sample Width : 20 cm True Width : 20 cm	Dxides : Host :	sGE, mJA Monzonite	16	.6	86	9	19	13
Comments :	Sampled a strong	ly oxidized quar	tz vein directly up slope from star	tion 2+25E L10+00	N.						
Sample No.	Location :	6340 270 N	Type : Grab	Alteration :	mEP, mMS	Au	Ag	Cu	Pb	Zn	As
		347 624 E	Strike Length Exp. : 3 m	Sulphides :	7%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52765	Elevation:	1245 m	Sample Width: 1 m	Oxides :	WGE	28	1.1	144	16	46	11
	Orientation:	191 / 45 ₩	True Width : 1 m	Host :	Monzonite						
Comments :	Sample from rece	essive outcrop wh	ich had a distinctly different wear	thered surface.							
Sample No.	Location :	6340 248 N	Type : Select	Alteration :	mEP, sSI	Au	Ag	Cu	Pb	Zn	As
		347 676 E	Strike Length Exp. : 3 m	Sulphides :	7%PY, trGL	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52766	Elevation:	1240 m	Sample Width : 20 cm	Oxides :	sGE, mJA	187	.4	135	127	51	22
	Orientation:	175 / 44 W	True Width : 20 cm	Host :	Monzonite						
Comments :	Sampled from a s	mall vuggy lens (of alteration.								
Sample No.	Location :	6340 260 N	Type : Select	Alteration :	sMS, sSl	Au	Ag	Cu	₽b	Zn	As
		347 676 E	Strike Length Exp. : 1 m	Sulphides :		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52767	Elevation:	1230 m	Sample Width : 35 cm	Oxides :	sGE, sJA	119	.4	118	15	18	7
	Orientation:	350 / 62 W	True Width : 35 cm	Host :	Monzonite						
Comments :	Sample with abun 52766.	dant boxworks; w	idth is approximate, footwall under	overburden/snow.	Possibly the same s	structure as					
Sample No.	Location :	6340 256 N	Type : Grab	Alteration :	mMS	Au	Ag	Cu	Pb	Żn	As
		347 668 E	Strike Length Exp. : 30 m	Sulphides :	3%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52768	Elevation:	1240 m	Sample Width : 1 m	Oxides :	mGE	6	1.8	50	13	20	3
	Orientation:	? /? ?	True Width : 1 m	Host :	Monzonite						
Comments :	Sample from an o	utcrop coated wit	th copper lichen.								

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EQUITY ENG	INEERING LTD.		ROCK SAMPLE DESCRIPTIONS		P	age-4-					
Property :	PUP		NTS : 104G	Date : 08	/23/91						
Sample No.	Location :	6340 250 N	Type : Select	Alteration :	mMS,sSI	Au	Ag	Cu	Рb	Zn	As
-		347 650 E	Strike Length Exp. : 10 m	Sulphides :	3%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52769	Elevation:	1250 m	Sample Width : 60 cm	Oxides :	GE, JA	8	1.1	81	10	18	9
	Orientation	;? /? ?	True Width : 60 cm	Host :	Monzonite						
Comments :	Sample of vuggy	alteration with	pyrite adjacent to a siliceous	resistant knob. Po	ssibly at contact between i	ntrusive					
	and volcanic.										
Sample No.	Location :	6340 244 N	Type : Grab	Alteration :	MS, SI	Au	Ag	Cu	Pb	Zn	As
		E	Strike Length Exp. : 10 m	Sulphides :		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52770	Elevation:	1290 m	Sample Width : 20 cm	Oxides :	GE, JA	49	.1	86	8	27	1
	Orientation:	: 051 / 59 ₩	True Width : 15 cm	Host :	Mafic Volcanic						
Comments :	Sample of a rela	atively large len	s or shear zone of alteration, w	very weathered.							
						• • •	•-	6	ph.	7-	•-
Sample No.	Location :	6339 928 N	Type: Grab	Atteration :	SMS, WSI	AU	Ag	LU	PD	2n (>	AS
*		347 576 E	Strike Length Exp. : 2 m	sulphides :	1 rup, 22Pt	(ppo)	(ppm)	(ppm)	(ppm) 10	(ppa)	(ppii)
52771	Elevation:	1230 m	Sample Width : 35 cm	Uxides :	MGE, SJA	24	1.0	1229	19	40	2
	Orientation:	018 / 86 W	True Width : 35 cm	Host :							
Comments ;	Sample of a smal	l resistant ridg.	e in a more recessive trough alo	ong the main shear	zone.						
Sample No.	Location :	6339 920 N	Type : Grab	Alteration :	wCA, wCL, wEP, sMS, mSI	Au	Ag	Cu	Pb	Zn	As
		347 578 E	Strike Length Exp. : 15 m	Sulphides :	0.5%CP, 2%PY	(pob)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52772	Elevation:	1230 m	Sample Width : 5 m	Oxides :	wAZ, mGE, sJA, mMC	123	2.8	1637	12	40	1
	Orientation:	027 / 77 4	True Width : 5 m	Host :	Lapilli Tuff						
Comments :	Sample from a zo	one with pockets	of varying grades of alteration	and mineralization	•						
Sample No.	Location :	6339 916 N	Type : Grab	Alteration :	mEP, sMS, wSI	Au	Ag	Cu	Pb	Zn	As
		347 584 E	Strike Length Exp. : 3 m	Sulphides :	4%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52773	Elevation:	1230 m	Sample Width : 2 m	Oxides :	SGE	67	1.7	234	5	9	1
	Orientation:	041 / 69 W	True Width : 2 m	Host :	Lapilli Tuff						
Comments :	Sample across a	small lens of ju	icy staining, strongly oxidized.								
		4770 940 N	Type - Colort	Alteration 4	115D cMC mC1	A	4.4	C 11	Ph	70	4.0
sample NO.	Location :	3/7 50/ F	type: select		HELF, HIS, HISI 1907	nu (rah)	~9 (nnm)			41) (pomb	(000)
F377/	El aventi an -	347 374 E 1970 -	Semple Hidth - 20 cm	outphildes :	1061 Teá7 teán mós mis mis	(ppo)	(ppiii) 1 e	(ppiii) 249	(ppm) z	(ppiii) 7	(ppiii) 1
52114	Elevation:	1230 M	Sample Width : 20 CM	Uxides :	liaz, CTPL, NGE, NJA, MPN		1.0	200	د	47	
.	Unientation:	110 / 65 N	IFUE WIGTH : 20 CM	nost :							
comments :	veinlets of simi	ns of mineraliza lar orientation	tion running perpendicular to th in the wall rock.	ie main snear zone.	inere where small (2-3cm)	quartz					
			• • • • • • • • • • • • • • • • • • • •								

EQUITY ENG	INEERING LTD.		ROCK SAMPLE DESCRIPTIONS			Page-5-					
Property :	PUP		NTS : 104G	Date : 08,	/23/91						
Sample No.	Location :	6339 856 N	Type: Chip	Alteration :	mMS, CB	Au	Ag	Cu	Pb	Zn	As
•		347 584 E	Strike Length Exp. : 15 m	Sulphides :	3-5% PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52775	Elevation:	1230 m	Sample Width : 5 m	Oxides :		4	.1	194	18	42	9
	Orientation	; ? / ? ?	True Width : 5 m	Host :	Lapilli Tuff						
Comments :	Chip sample acro	oss the first hal	f of the main fault/shear zone.								
Sample No.	Location :	6339 856 N	Type: Chip	Alteration :	mMS, CB	Au	Ag	Cu	РЬ	Zn	As
		347 584 E	Strike Length Exp. : 15 m	Sulphides :	3-5%РҮ	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52776	Elevation:	1230 m	Sample Width : 5 m	Oxides :		11	.5	296	18	82	45
	Orientation	? /? ?	True Width : 5 m	Host :	Lapilli Tuff						
Comments :	Chip sample acro	oss the second hal	f of the main fault/shear zone.	Note; see DAC for	further info on sample	•					
Sample No.	Location :	6339 882 N	Type: Grab	Alteration :	sMS	Au	Ag	Cu	Pb	Zn	As
		347 864 E	Strike Length Exp. : 2 m	Sulphides :	3%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52777	Elevation:	1230 m	Sample Width : 1.5 m	Oxides :	sge, mHE, sja	130	1.0	65	12	21	8
	Orientation:	? /? ?	True Width : 1.5 m	Host :	Monzonite						
Comments :	Sampled across t	che most altered a	and oxidized part of the zone. Up	o to 40% boxworks							
		4770 014 N	Turne - Collect	Altonation .	CA	A	4.5	<u>Cu</u>	Ph	70	Ac
sample No.	Location :	000 N 010 N	type: Select	Atteration :	LA Teda 1900 1909	Au (pob)	/ ng	(0000)	(0000)	211 (DOM)	
E 3770		347 DID E	Strike Length Exp. : 5 m	Sulphides :	100, 1607, 1671	(ppo)	(ppa) z z	(ppii) 3554	(ppiii) 17	145	(ppa)
52118	Elevation:	1220 m	Sample which : 2 m	Uxides :	WAZ, WHU	020	5.1	0000	1 r	101	3
•	Urientation:	340 / 50 E	irue width : 2 m	HOST :	Monzonite						
comments :	Sample of Very p	olain looking intr	USIVE WITH MN VEINLETS and Tractu	ire-controlled cha	lcopyrite.						
Sample No.	Location :	6340 352 N	Type : Grab	Alteration :	sMS, mSI	Au	Ag	Cu	РЬ	Zn	As
·		3 47 632 E	Strike Length Exp. : 3 m	Sulphides :	5-7%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52801	Elevation:	1220 m	Sample Width: 6 m	Oxides :	GE	32	1.6	68	16	29	8
	Orientation:	005 / 42 ₩	True Width : 5 m	Host :	Lapilli Tuff						
Comments :	Sample across a	more intensely st	ained zone within MS-SI-PY altn.	There are quartz	veinlets (2-3cm) paral	lel to folia	tion.				
						_		_		_	
Sample No.	Location :	6540 084 N	lype: Grab	Alteration :	SMS, MSI	Au	Ag	Cu	PD	2n	AS
		347 /8 E	Strike Length Exp. : / m	Sulphides :	10-15%PT	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
52802	Elevation:	1265 m	sample Width: 30 cm	Uxides :	GE	6	.2	88	12	24	1
	Orientation:	032 / 65 ₩	Irue Width: 30 cm	Host :	Monzonite						
Comments :	Sample taken fro strike.	m a narrow lens o	t highly pyritic sheared intrusiv	e. Alteration an	d mineralization pinch	out along					

and the second second

APPENDIX C

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DIAMOND DRILL LOGS

EQUITY ENGINEERING LTD.

DHILL LOG	
PROJECT	GROUND ELEV.
PUR (KUL R)	13 55 9
HOLE NO.	BEARING
DEPALO	220
12 -	
15+25 N	-46
1450E	TOTAL LENGTH
SADDLE Z	ONE 179.2m
LOGGED BY	HORIZONTAL PROJECT
STENDET HARRIS	123.00
DATE	VERTICAL PROJECT
Jun 29 /91	120.4~
CONTRACTOR	ALTERATION SCALE
F	0123
MALLON DRILLING LTD	absent
	slight
CORE SIZE	moderate
Ban	intense
DATE STARTED	
Jun 27 (~)	TOTAL SULPHIDE SCALE
DATE COMPLETED	01234
Jun 30 (0)	traces only
DIP TESTS	
Bribm i - 41 conner	
1797	> 10%
COMMENTS	
COMMENTS	LEGEND
DAMPLES 6201-83	25 V SERICITE ALTERED
	STUAINER CIEDUD
	VOLCANICLASTIC SI
	* *
	+ MONZONITE DYLE
	A second s

GE C	2	OF	9	PROJECT	Pup di			14		HOLE	NO.	91	-01
	EC	×	RE	1	California Contra		AL	TERAT	TION	1	1.	1Z	
100	R	DOJO	CTU	×12	GEOLOGICAL DESCRIPTION	V	2	S	12	P	NSIT	NO	
	% CO	ПТНС	STRU	8 (ard) a		A	В	C	D	E	FRAG	% VE	
0			-	0.0 - 1.5	LASING - OVERBURDEN								
						N.	1	X		1	il.		
	2	V_		1.5-28.7	LAPILLI TUFF	A.		N	-	1	W		-
	3	V			- SUB ANGUAR CLASTS	1 al		10					
5			/	60'TO CA	WINERE USIBLE	3		N.	-				
5		~			- IT GREY GREEN IN COLOUR,	1	1		NNR 9	1		14	
	0	Y			LOLALUN BLEACHED		1000	N.X	-	8	10H		
	d			10000	- STROAL SERVICITE PUTT.	100	10/19/	X		0/2			
	0	V		_ = = _	MODERATE SULVELATION	H.	100	8	-	1	10		
	-	v		Totoon w	1 4 TO A VIGO WHERE BE COME	A.		Y.	+	P			
10				-	- Conders Conders	1			+	1		1000	
	0	V			A STATE OF COME ALT , AS	A	1	-	#			8	
	1-		1/	FABRIC	21015	12	12	N	+	10	12	3	
		K	A	30 40 C.A	- HAIRLINE CALCITE FRALTURES	>	100		T	180		24	
	CO	V			ARE COMMON	1	1	2		4	100		
15	y	V			- INNOR PATCHES OF TOD	1	N	12	-		1		-
		V		Sec. 1	CHLORITE ALT.	X	1			-			
	2	-		CO2THOOM 1	- LOCAL QT2 STRINGERS	X	1	ali			1		
	_			and the second sec	-19-	3				1			
	6	-		PH VILLES	6.3 - 9.1: BROLLEN, RUSTY LORE	-			-14-	10	AL.C.		
	N	~	1	115 10 6.14	WATER - ACADINI CRAINARS SURFACE	1			+				
20				10.041	COST AND A TO COST ANTEN MORE	1			+		TR		
		×		FABRICS	12 7 : BOUVEN QUAREZ VOL	1			+	Ħ			
	0		K	450 00 000	The store of the store s		2		#				
		×-		100.00	S SULPILIOES.								
	-	- 2			16.0 - 13.6: WELL SILLIFIED	1	d	8	+				
25	00	~			INTERVAL WITH DOUN SK,	2	R.	24		The second	K.		-
	1	~			ALSO EPIDOTE	1	1	40		1			
	-	V			13.6-23.5: BROKEN CORE	1		100			1		
	-	v		-	SURPALE WEATHERING, SX TO		14				3		
	ŏ	-		-	GOSTINITE, SERVICE TO KAOLINITE	33	K	1		1	N		-
20		+++		2-2-31.5	MONZONITE DYKE -	A	12				2		
50	-	+ 1		EPID ALT	- LOPRSE-LIRAINED, NO BURRTZ	1				N	R.		
	0	-	1	118 TO CONTRO	- WELL SILLEPIED , ALSO SERLITE		-	No.		1	2		
	ľ	V		60' TO C.A.	0.050.00	200							
				_	- UPDED WATALT: 32" TO C.A.	1.	-	H				8	
	2	-V-				1		Ħ					
35	0	×		_	Loner Cess Sisting Comme	N							
	+	V			60 10 2.14.							1	
	2	V			- PRE-ALTERATION * MINERALIZA	1.00		- NB		X			
3	0	1			Time Drive	100				24		-	
	ŀ	-	++	31.5-53.2	L'ADILLI TUFF	No.			H	3	1	4	
4-	in	V		1	- SIMILAR TO PREVIOUS, LT	50	2		11				
-10	d	V	+		LIREY-LIRECH, SERLITE + SILLA		H						
		V	+	Sector States	aurid .					1		+	
		1		-	33.0-36.6 : BROKEN WAS.	1							
. j.	6	V	L	MASSIVE	SURPACE WEATHERLY SERVICE	10					-	-	
	R	->	F	- Coi mar	Kom	1					722		
405	+	-	++	O PLA	THOLINITE DULPHIDES TO DEIDES					0			

- 4

	1		,			-	- Quar	est. 201		-(
	DES		SAMPLES				ASS	SAYS		
DESCRIPTION	TOTA	FROM	то	NIDTH	NUMBER	AU	Ag	Cu	PL	2
	0,		-	-		PPD	ppm	Ppm	PPm	PPM
E 169 . E					0			-		-
1.5-10.7 ; 5-10%		1.6	5-1	1.5	6201	10	1.3	421	9	33
FINELI DISSEMINATED	1	3-1	5.2	2-1	8202	4	1.0	109	7	22
DULPHIDES, MAINLY PY		5.2	6-3	1.1	8203	1	1.0	88	8	13
104 33 POSCI ; ALSO IN	1	6.5	19.1	2.8	\$204	3	1.1	138	8	25
OUPLIDE VEINLETS 2		19.1	10.6	1.5	0205		1.3	167	D	14
BUEBA.		10.6	12.1	1.5	6206	1	1.5	209	4	21
		12.1	13-6	1.5	6207	2	1-1	223	6	14
	\mathbf{N}	13.6	15.1	1.5	8208	2	0.9	189	3	20
	N	-								
A CONTRACT OF		1								
	1		5							
A second second second	5	-		1.50						
	N	15.1	16.6	1.5	8209	1	0.9	147	6	28
		16-6	17.6	1.0	8210	2	0.9	313	10	44
6.9-16.6: 10%-15%.	1	17.6	18.6	1.0	8211	44	1,3	465	16	38
FINEL DISS PY LITH	Ý	18.6	20.3	2.2	8212	28	1.0	298	12	24
TRACE CHALCOPHRITE	1	20.8	23.5	2.7	82.3	1	0.7	217	15	37
3.6-23.5: 1-3% D. SAR PY,	1	23.5	25.0	1.5	8214	9	0.6	36	3	18
LOCALLY , P TO 51.	N	25.0	26.5	1.5	8215.	5	D.8	90	٦	21
	1	265	280	1.5	8216	1	0.5	17	3	IL
235-237 5-10% 0155	N				1000					
AULFINIDES, DOMINIANTICI	N			1.00	10.00				1	
PHRITE, TR CP, POSS PO		husen.			1.1.1.1.1.					
1-2% PURPLE MINGRAL	V	12.50		1.1	1.1.1.1					
(FLUORITE?)	N						1.11		1	
28.7-315 2-51. DIDD PH	7	28.0	28.7	0.7	8217	2	0.4	20	11	18
	N	28.7	30.1	1.4	8218	10	0.9	16	12	17
	1	30.1	31.5	1-4	8219	4	0.7	44	8	19
31.5 - 33.0: 5-10%. 5165 84		31.5	32.9	1,4	8220	43	16	315	٦	26
33.3 - 36.6 : SULPINDES TO	T	32.9	34.8	1.9	8221	8	1-8	256	120	25
LOETHIE, LOCALLY STILL	X	34.8	256.6	1.8	8222	29	1.0	400	12	26
PRESONT, 1-3%. DISS Py	N	Trank		1	19 - P.					
36.6-39.0: 7-10% FINEM	35	36.6	37.8	1.2	8223	1	1.2	45	10	22
DISSPY, TRPO	11	37.8	39.0	1.2	8224	17	1.2	82	14	22
	1									
392-40.2: 1-31. Finier	M.	39.0	40.5	1.5	8225	25	1-1	129	12	30
DISS PY	NT	40.5	420	1.5	8226	4	0.7	30	(1	24
40.2-45.8: 7-10%. ALSOPY	11	420	43.5	1.5	8227	15	0.8	30	10	22
Commonin contras,	N	435	45.0	1.5	8228	2	1.5	322	6	17
BUEBAN, OR IN MASSIVE	11		-			-				
RY MELTS	14					15.7			1	131

	To	1	-	i l		-	1007	-		-	1	1	T
DEPIH (m)	% CORE REC	КООТОНТІ	STRUCTURE	name Dige Alina Ali	GEOLOGICAL DESCRIPTION	NE A	ALT SE B	CA		E	FRACTURE	% VEIN QTZ.	
	10	V		RTRICL	39.0 -40.2: SURPALE WEATHERING.	UN				19			H
	0	V	1	UNICTS,	IN FRACTURED ZONE , BROKEN					1		X	
		-			WITE SERVICITE -> KADUNITE					B		8	Ħ
	T	V			SULPHIDES -7 GOETHTE		X			1			Ħ
-	6	V			45.8-53.2: 5500000 60000		X			S		8	Ħ
50	0	V			lastave with an St		N.						t
	-	×		53.2-544	MONIZONICE DUVIE						8		
	8	V				RX.	X			1		2	H
	12	-	-	UPPER	STATEMA TO PREVIOUS	22			100	N.			
	-	+		DYKE, 20	· UDPER CONTRER GO TO LA	X				1	-		-
55		1		TO C.A.	LOWER CONTACT IS INDISTINCT,	N	100				-		#
	6	V		(0 2-1	- 55 70 LA	N.	X			8		11	Ħ
		V		FRACES	- FIZESIN @ UPPER CONTACT	K	R			1			
		×		FABRU	~10%. MARILS HBL, +PHRX,	X	The second secon			No.			
	2	++		65 TOLD	LOCALLY CIRCORITE AUTA,	X	A E				11		-
60	0	v			- PELOSPARE NOT BERILITE	1	1			1	44		
00	-	V		y los a series	ALTERED MORE ALTERED TO F.W.					X	117		Π
	2	×		Ches I.E.	- WELL SILKIFIED	The				S			Ħ
	1	V		54-4-121.1	MARK VOLLANI	The		4		8			Ħ
	-	V			DERIVITY REPORTS	AL.	1			1	1		
	00	V			the second the second second	X				N			-
65	0	V	17		SILICIPIED SIMILAR TO	X				N	1		\square
	100	V	1	112	PREVIOUS, LT CIREN, GREEN	X			-	N	100		H
	100	+ +		in to only	50.5-56.4: ABUNDANT EPID	A	No.			5			
	5	~~		COMITALT !	AND UP TO 15%. Sx, LESS	NO	N			1			Ħ
	0			LO TO LA.	SILILIFIED, MUD CALLIFE OMNERA	N.		1		2	1		
70				FABRIC	- HIGHEST SULPHIDE CONTENT.	1X	N			1	S		
	00	1	-	70' TO C.A	COMMUNICA WITH EPIDOTE								
	ľ				67.1- 67.5 : MONZONITE DAKE		1			N	8		
		1		PSEPT SX	THE SIMILAR			14	2	X	NU		
	2	+	-	minia	TO PREVIOUS WEAKS SCRILITE					K	N.		T
7=	0	+	-	WITH	ALTERATION , UPPER WATRET :	1	1	N.		N			
15	-	V	-	BLEBOY	40 TO C.A. LOWER SS TO CA	XX	N			1	S		
	15	V	-	EPID	68.5-63.7: 12.20 - 044					1		1	Ħ
	13	V			The second	DX.	N						
		V	1	VALE	SITULAZ TO PREVIOUS,		X			1		3	H
	2	2		35 70 40.	THUS SERICITE ALT OF GROUND-		X			1	N		H
80	10	-			ma46					N			H
		V		CHLON	13.1-75.0 : MONZONITE DYIKE :		1		DI I	1		11	Ħ
	-	V		FIZAKS.	Inter Simular to Prievious	潘祥					X		Ħ
	0	V			- BLEARLED, FELOSPARS BLURZED					2	X		
	V	V	-	CAVHUT	BUT NOT SERILITIZED	1		10	8	-			H
0-	-	V	1	75° TO C.A.	74.0: LIMIT OF SURPRIE		N			1000	N. No.		H
5	10	Y			NEATHERING				SI.				F
	0	20		- 12/21/21	78.6-79.6: MISLATCH, LOST		14						F
				1 Bartine	LORE	SIL	4			N	-		
	1	×		-1	87.4 .: CLASTE MEIRIE					-			
	5	~~~		1 - + - 1		1	LTX						H
	1 1 C C C C	-	_			191 671-02	644 43	WI I	IN I	193	1971		1.1

⊢	PAGE 5 OF 9 PROJECT:	700								HOLI	ENO. 91-0
	 Scientitum 	ES	5	SAMPLES	1			ASS	SAYS		
)	MINERALIZATION DESCRIPTION	TOTAL	FROM	то	WIDTH	SAMPLE NUMBER	Au	Ag	cu	Pb	Zn
		V					PDD	Prm	PPm	PPm	P?m
1	45.8 750 5-101 5		11-2			Dead	14	10		1	
	Old I DE TOTAL	\sum	45.0	46.5	1.5	8.229	1	1.5	138	5	
	DISS SULPHIDES LOCALLY		1100	18.0	1.0	8230	0	1-0	154	3	15
İ	CP 10 15 10, 14 21032C0		LIGE	445	1.5	8231	25	1.2	1.00	11	18
1	DIGO 6		71.5	5.0	1.5	6232	18	1.0	182	8	15
	THE SULPHIDES AND ABSCHIT		-		1.0	0		0.0		,	0
		2	51.0	520	1.0	6233	14	0.9	168	6	25
	FOR COMMONLY DA		52.0	SJ.Z	1	8234	,	1-2	132	6	11
	THERETURES .	1	55.6	59,4	1-2	8235	(6	1.5	218	1	19
			SH.H	65.9	1.5	8236	2	1.4	240	3	20
			500	_	1.1				and the second second	-	
	and a second	N	55.7	57.3	1.4	8237	17	1.4	229	9	31
		1	57.3	58.3	1.0	8238	6	1-2	200	7	21
		1	56.3	58.9	0.6	6239	23	1.2	154	10	45
Ī		N	58.9	60.4	1.5	8240	2	1.5	294	11	29
	SO.U: TRACE.CP	1	60.4	61.9	1.5	8241	22	1.2	402	7	31
		>	61.9	63.4	1.5	6242	19	1-2	371	7	32
	63.3: 1-21. FINE-LIZAINED	2		al and	1.2				_		6
į	POLUE-LIZEY OX, CINSTINUT.	2	63.4	64.9	1.5	8243	13	1.3	186	4	34
	BOH-60.7: BRASS PROM	2	64.9	66.4	1.5	8244	21	1.2	158	3	24 -
	DRILL STEEL ON CORE	1	66.4	67.9	1.5	8245	26	1.2	277	4	22
	67.1-67.5: 11. cp, mm.		67.9	69.4	1.5	8246	17	1.2	179	9	27
		2						-			
		1					11.1				21
_	69.2-75.C; TR CP		69.4	20.9	1.5	8247	8	1-1	267	16	39
		1	20.9	72.4	1.5	8248	1	1.2	310	6	22
		2	72.4	73.7	1.3	8249	14	1.3	488	5	21
			737	75.0	1.3	8250	13	1.8	513	6	22
		1									11.
		1	-						p		S
	75.0-78.8: 2-5% FIRELY	5	75.0	765	1.5	8251	21	1.3	412	5	24
	DISS SULPHIDES ; PM	N	76.5	780	1.5	8252	(1.4	196	7	35
	PT = PO >> CP	N	780	79.5	1.5	8253	19	1.5	462	5	32
ļ	TRACE, FINE-GRAINED	X	795	81.0	1.5	8254	16	1.4	434	6	29
	STEELY BUG-LAZEY MINERAL	1	1.07	N						n.	
	18.00 - 30.8 - 5-10%. Finely		-							5	
	DISS SULPHIDEL	N	81.0	92.5	1.5	3255	6	16	513	5	29
	PYZPOZZCP	1	875	940	1.5	8256	12	1.3	287	12	34
	74.5-78.6: BRAN ERA		940	855	1.5	8257	4	1.1	360	3	30
	DRULL STEEL INT INT	1	0.00	000						-	
and		1	QSE	870	1.5	8200	19	1.1	2.44	13	41
	80,8-90,4 . 3-7%		020	01.0		0250			-14		41
)	80.8-90.4: 3-71. Finen		270	0.0 -	10	9000	7	1 1	201-	1-	74
2	80.8-90.4: 3-7-1. Finden Diss Pri & 2 PO 22 CP. 24	\sum	87.0	88.5	1.5	8259	2	1-1	297	6	24
	80.8-90.4: 3-7-1. FINGUN DISS PY & SPOSS CP. PY NOW A COMMONW ASSOCI NITH	11	87.0 88.5	88.5 90.0	1.5	8259	1	1-1	297 226	5 5	33
	BO.B-90.4: 3-71. FINGLA DISS PY & > PO >> CP. PY NOW A COMMONW ASSOCIANTH CHLORITIC PRACTURES	111	87.0 88.5	88.5 90.0	1.5	8259	1-	1-1	297	5 5	33

AGE (>	OF	9	PROJECT	YUP KUL PU				3	HOLE	NO.	91-	0
	CORE REC	ногоду	RUCTURE		GEOLOGICAL DESCRIPTION	SE	ALT		ON EP	CL	ACTURE	VEIN QTZ.	
	%	LIT	ST	and the second		A	B	C	D	E	ELZ.	%	-
		V			* / / / / / / / / / / / / / / / / /								Ħ
	0	V		1	de grande and	DN:				N			Ħ
	3	V	/	ROCIC	·/					-		5	Ħ
	-	~		10' 10 C.A.		HU.					N	S -	Ŧ
95	5	++	1	15. J. 20.	94.3 - 95.3: MONZONITE					3			+
	õ	V	1	BANDING;	DYKE ; SIMILAR TO PREVIOUS	120	W				N		Ħ
	-	r	1	~20' 10(2)	STROMOLY ALTERED, INDISTINCT						1		Ħ
	0	V			UDDER CONTACT. LOWER CONTACT :								#
	H	+	-	FLOW	60' TO C.A.					N	1	2	Ħ
100	-	+		120 10 2.0	98.7 - 100.2: MONZONITE	nut	The			X		1	#
	-	V			DAILE; S.A.P. , PARALLEL	X				X	N		=
	0	v		OTZALL	FELDSPAR PIXEND'S, FLOW BANDW				1	8	N.	1	#
	-	Ser.	4	VALTS,	40 TO C.A., LOWER CONTACT!	1	NJ.		1				#
	-	v		50 TOLA.	30° TO C.A.	1			0	1	\$		
105	00	V		1211	102.6-103.4 : LOCALLI BREN					5			#
		V		distant dates	BU QTZICE VALTS.	N	1X			3	5		
	-	v		1. 280 J. 199. 1	109.5-119.8 . commonum	X				1			#
	00	L	1	RIZ VALTS	BIZXX' BY DIZACC VALTA	X	H.			Ster	N.	1	#
		v	1	30' TO L.A.	112.7 -119.5 · STRENGUN	X	H-S				N		
110		~	/	1.2.1.1.25	FOLIATED 60" TO C.D.					2	X		
	Q	v		1.1 1. 1. 1. 1.	award 178 I Ard Mean I a sure				4	*	N		
	0			den al tra			The second secon			5	\$		
40	-	V		FOLIATES				N	-	N			
1	0	1		60 TO 2.0.			SAT.		-	-	N ER	X	+
115	1			2		A LO				Z		7 T	
115	A	v			116.8 -117.6: MONZOWITE	X	4	N	-	1.1		-	
	Ľ	V		1.4541	DIKE, SIMILAR TO PREVIDUS.					A		N	
		+++		1. 6. 1. 2.	SPECIED CONTACTS	AL.				1			+
		V		-						1		1	
120	10	~		FABRIC:		1				No.		11	+
	Q	L	X	50 00 0.0.	and the second second	A COL		X	-	1	- Card	1	
		+		121-1-1326	MONZOWINE DYIKE	11	X					K	+
	10	+	-	di Sendi Kak	- 1-ITTRUSIVE SIMILAR TO PREVIOUS		1					>	+
	Q	+		1 5.1 21	SUB- TO EVITEDRAL PELDAPAR							£1	
175		+			PHENOLANTY (50%) THAT	1						-	+
105	10	++			AFLE COMMONIA ALTA TO SPALLE	No.	1					1	H
	0	-		CALCITE	- MARILS LOCALLY PRESENT (S'I)					13		N.	H
	-	+	1	VHUTS .	- MOD SERLITE ALT'S	The second	X	10		2		N. C.	F
	0	+		CHUDRINE	- RARE EPIDORE		1	-				X.	H
12.4	0	+		FRACTURES	10 2 2 104		T	2	-			2	H
1.20	-	+		1111	as all and that share I had some	14	X	240				1	H
	10	+		517.012	Page 17 La salar a faith as	N	1						Ħ
	0	-		132-6-1398	SERVICE PLAERED MODIL						190		H
	-	V			YOLCANIC.	Part of the second seco	X			XX		1	T
	0	- v.v		1	- STRONGLY SEQUETIZED &							2	Ħ
100	0	1.11		and the factors	SULLIEURD DR. I	TH	TT	1	1		P		T

_	The P.	UP	,									NO11-
		S		S	AMPLES				ASS	SAYS		
	MINERALIZATION DESCRIPTION	TOTAL		FROM	то	WIDTH	SAMPLE NUMBER	An	Ag	Cu	Pb	Zn
4	20.4-94.3: 2-10% Friday	11	T,	a0.0	91.5	1.5	82.61	1	1.4	189	14	29
	DISSEMINATED SULPHIDE	1	H	91.5	93.0	1.5	8262	5	13	218	7	5
	Pus Poss CP	1	H	93.0	943	1.3	8263	2	1.4	448	8	35
7		1	H	943	953	10	8264	4	2-0	345	8	27
-	94-3-100 9: 3-71/ FINELY		Ħ	953	96.2	15	82.65	2	2.0	234	8	27
	DUDD SW: PY > PO >>00	1	Ħ	96.8	98.7	1.9	8260	1	2.1	1411	9	30
	- Py title in Po in	1	Ħ				0000			. 19		
ī	ERAFTINEL	1	H									
	TR STREW & C & Q	1		00 7	993	11	8217	7	1.7	144	q	11-
	242-	1		992	100.9	1.1	821.0	-	1.9	707	10	79
1	100-91-1037: 1-2"	2	Ħ	1029	1073	1.4	0200	\uparrow	10	200	u	20
-		N	-	102 7	1007	1.11	0220		1-0	191	3	24
	C D. D. D.	2	-	1025	1050	1.4	12220	7	1.0	775		20
1	2 7 1 2 7 1 L	>	-	105.1	100,2	1.5	0211		1.0	200	4	51
-	03. (-(U.1 . 3-11. D.65 34)	1		1032	106.]	1.5	0212	T	1.5	261	10	29
-	BUSD FRACTURE CONTROLICO	2		106.1	108.2	1.5	0213	8	1-3	195	90	29
	PTREPOSEP, CP Command	1		1062	104.7	1.5	8214	10	1.5	119	1	23
+	DIFIL TO , UP TO 101. 34	1	$\left \right $	Contract of			- 3.04000					
	WHERE PY IS ABUNDANT	1	H	- Charles	1000		the second second					
)-	- CP Commons UP TO 1182	1	H	A BARRA				-				
-		1	H	- mile	1.00 3.10		and and a second			-		
-		1	H	109.7	111.2	1.5	8275	2	1.4	125	7	28
-	· · · · · · · · · · · · · · · · · · ·	1	H	111.2	112,7	1.5	8276	4	1.7	401	9	42
-		1		112.7	114.2	1.5	8277	2	1.2	412	10	28
	and the second se	1		114.2	1157	1.5	8278	10	1-4	462	. 11	35
_		1		1157	116.8	1.1	8279	2	1.8	750	7	50
		1		116.8	117.6	0.8	8280	1	1.9	99	7	31
		1	H	117.6	119.1	1.5	8281	7	1.6	297	64	70
	· · · · · · · · · · · · · · · · · · ·	2	H	119.1	1201	1.0	8282	2	1.8	280	12	22
4		1		120.1	121.1	1.0	8283	17	1.8	528	8	29
		1	-	Sec. 1	-	-	and and a	2.0	1.42		6.5	
1	121.1-132.6: 1-3%. 0155	1		-			Institution of the		1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			
	AND FRAL CONTROLLED	1		121.1	122.6	1.5	8284	4	1-7	212	41	64
1	SULPHIDES . L'I. PH, 11. PO,	1		122.6	124.1	1.5	8285	2	1.8	291	13	35
	TR LP	E	-	1241	1256	1.5	8286	15	1.9	116	15	103
		1		1256	127.1	1.5	8287	1	1.6	129	16	43
		1		1221	128.6	1.5	8288	2	1.6	137	S	38
				128.6	130.1	1.5	8289	4	1.5	167	5	39
		N	-	130-1	131.6	1.5	8290	119	1-6	155	5	42
		N	-	131,6	132.6	1.0	8291	80	1.9	167	127	84,
1		5	-		1							
5		1		13.5	A	-	100 - 100 V					
-	132-6-1411: 5-12-1	1	1	1326	1341	1.5	8292	2	1-1	267	10	51
-	Dian Qu. Puspo.	1		1341	1351	1.5	8267	2	1.0	114	10	61
1		4		1974			0015					
	THE CV.	12		and a second	and a street	6	California da la	1.1			in and	and a second

AGE G	3	OF	0	PROJECT	Pup					HOLE	NO.	91-1	01
	U L	×	щ	0.255	The second se		ALT	ERA	TION			N	
	% CORE R	LITHOLOG	STRUCTUF		GEOLOGICAL DESCRIPTION	SEA	Sī B	CAC	C.	EP	FRACTURE	% VEIN QT	
		2			TEXTURES UBLITERATED	XU			2	1		1	+
			-	2.101.20	- CUL ON FRACTURES	X			2				-
	6	V		er son Sa	- CC STRUMUERS ARE WHITE	X			1		8		-
	õ	V	-	1 H		X			8		1		-
			-	139.8-142.9	MONZOLUTE DAIKE	N	X		E		No.	24	T
140	-	+	-		- CUMULAR TO RECYLOUS	N		5		8	N		-
	00	+	_		DITERSE PULSE TO DESCUE	X			100		No.		
	_	++	-	En en el	SUGUERA SERVICE HND SILICA	2			1				
	-	230	/	SHEAR / FAUT	SUSHEDILAL SERVICITE AUT	X	2403	Ht.			REE		+
	8	77,		00 00 00 00	142 2-142 / · RISONG - POR		THU		2	m	3.30		+
145	ľ	+	-	C.A.	192.3-192.6: DUEALHED TO BOILE	N	NA.		1	84- 194-	N.		
		+			when conversion with	Y	h	1	1		A.Y		-
	0	+	1		DROP IN SILLIFICATION, EPIDOTE				100		NV.		-
	0	+	-		ALTM, INCREASE IN CALLITE ALTH	X	M	X	1		X		1
		+		142.9-1440	SHEAR FAUT ZONE			X	X	N	22	N	-
150	-	*			- UT GREY / BRIGE ; BRING , WITH	X	S	X	N	-	S :		
	õ		-	FABRIC	SUBROUNDED FRAGMENTS; GREY	X	D		X	1	Π		
		+	/	65 10 4.4.	LOUGE IS COMMON : ABUN CALLITE	X	1	E.	1	No.			
	-	+	_	144.0-159.7	MONZONITE INTRUSIVE	N		NT-			+++-	2	-
	0	+		-	- LADWORD FELOSPAR PORPHYRLI	X		8		Sec		N N	Ŧ
155	V	+	-	-	- LOCALLA BLEALINED WITH ALL	X	X					*	-
122	-			14 M A 1 1 10	TEXTURES OBLITERATED					IN			T
	0	+	_		- MODERAGE BERLINE	U	The second		ST.				1
	0	+	_	1	1440-1484: BIGAMMEN 1 200	X				N			+
		+	_		DEVENS LUXAR ABREA DO RE	X	N		N	X			+
	0	4	1		Contract 2 To have a 71	X			S	2			
160	0	N	-		CLASIS . HEACHITE FLOW				0	N			
		V			- MERK VOLCANIC CLASTS	X			-		+++		-
	6	V	-	CONTACT :	ARE COMMON IN THIS	14	H	-	X	22			Ŧ
	Ğ	v	-	85° TOLA.	UNIT, SUB ANGULAR CLASTS							alia	-
		++			- FINEDRAL, ZONED PELOSPARS	1			N	-			-
165	5	Vv	-	159.7-179.2	CRYSTAL LAPILLI TUPF	1				100			-
	0	++	-		- SUBROUNDED MAFIL VOLLANIL	JA.		8	X				1
	-		_		CLASTS, ALSO INTRUSIE	X			S	M			Ŧ
	-	2			CLASTS.	HL.	$\langle \rangle$		1	B			t
	0	V	_	167131	- STRONG SERICITE AUT "		R		-	N		T	
170	0	V			- MOD POTASSIL ALT' , DUE		X					++-	\pm
	-	V	1	ROCK	TO INSTRUSIVE LLASTS?		11	X	1	12			-
	0	V	-	60' TO C.A.	18:5 311.0214 24.4	1			1	-			
	0		-	1.1.1.1.1.1.1.1	163.3-164.3: MONZONIC DYKC	4		N	1	1			-
		V	-	1.1.1.1.09	SIMILAR TO PREVIOUS . SOLUTION	X	Y				11		-
1	0	V	_	-	INDISTURIE CONTRACTOR SECTION				2				1
175	0	v		Roca	1/52-1067	N	S		14	-			-
		V	4	FABRIC :	A MU AD THE DALE,	X	X	R	1				
	6			00 TO C.A.	L. 7	1 Ale			N				
	õ	v	-		IC-SPAR ALT"	4	17		10				
		Y				NI	1	國語	N				T

	0,0		_					_	1.	
	DES	S	AMPLES				ASS	SAYS	2	
MINERIZATION DESCRIPTION	TOTAI	FROM	то	MIDTH	SAMPLE	An	As	Cu	Рb	Zn
				-	2-04	Ppp	PPm	PPm	PPm	PPm
	N	135.6	137.1	1.5	8294		1.4	437	5	43
		137.1	188.6	1.5	0275	1	1.0	200	18	46
	R	139.6	139.9	1.2	6296	42	1-2	201	13	42
	X	1351.8	141.1	1.3	8297	1	0.8	106	11	49
	X	-								
41.1-142.9:2-5%. 0.35 54		141.1	1423	1.2	8298	16	0.6	124	11	56
Pus Poss CP	N	1423	144.0	1.7	8299	2	0.5	163	24	40
142-9-144.0 1 TR TO 3%	1	144.0	1455	1.5	4300	6	0.4	304	13	27
DISS Py	X	145.5	147.0	1.5	8301	5	1.0	254	11	34
44.0-179.2: 5-10% 0105	X	147.0	148.5	1.5	0302	2	1.4	249	90	36
PY, LOCALLY UP TO 12%.		148.5	150.0	1.5	9303	1	1.6	282	10	37
TR PD, CP	X	-								
165.3-166.7: ~12%. 21	X	-								
Commensury Massive BLEBS +	X						1.1.1			
VEINLETS.	X	1500	151.5	1.5	8304	912	1.3	157	B	39
	X	151.5	153.0	1.5	8305	47	1.7	217	44	84
		153.0	1545	1.5	3306	20	1.4	407	11	25
	1	154.5	1560	1.5	8307	40	1.2	213	00	28
	K	-								
	X	-								
	N	-1560	157.5	1.5	8308	17	1.2	159	13	21
	5	151.5	158.6	1.1	8309	2	1-2	-136	10	33
	X	-158.6	159.7	1-1	8310	41	1.3	134	13	55
- MOST SULPHIDGS ALONG	N	159.7	161.2	1.5	8311	60	1.9	239	18	35
FRACTURES.	N	161.2	162.3	1-1	8312	44	2.6	498	6	41
1	N	-162.3	1633	1.0	8313	143	2.2	319	6	26
	N	163.3	164.3	1.0	8314	4	1-9	243	6	34
		1643	165.3	1.0	8315	148	0.9	263	17	36
	X	165.3	166.7	1.4	8316	6	0.9	167	16	27
	N	166,7	168.1	1.4	830	40	2.4	281	32	90
		1							-	
	X	-							-	
		168.1	169.6	1.5	8318	2	1.8	302	14	49
	N	-169.6	171.1	1.5	8319	4	1.7	317	49	108
	T	1.1.1	172-6	1.5	8320	2	1-6	178	12	39
	1	172.6	1741	1.5	8321	1	1.9	173	8	51
		-174.1	175.6	1.5	8322	2	1.9	255	20	55
	N	1756	1.77.1	1.5	8323	12	1.7	280	19	42
	1	1.77.1	178.1	1.0	8324	2	2.1	241	15	47
	-	1781	1792	1.1	8325	36	1.8	213	15	46
	1	-	11110							
1781-1784: 151 2.000	2	-								-
PICITE Actor di Lint	1	2	· · ·		8			111	192	
A THE MESSOC WITH MOO	-						-	1	-	

EQUITY ENGINEERING LTD.

in f

GROUND ELEV.
12299
BEARING
090
- 45
TOTAL LENGTH
127.1 m
HORIZONTAL PROJECT
94.5m
VERTICAL PROJECT
84.2m
ALTERATION SCALE
0123
absent
slight
moderate
induction of the second s
Intense
TOTAL SULPHIDE SCALE
01234
traces only
—
1% - 3%
3% - 10%
> 10%
LEGEND
SPALLE ALTERS
- STUHINI CITOUP
VOLCANILLAS DI
SERVICITE ALTERED
-E STUHING CITOUR TUFES
+ MONZONITE DYKE
PO STUHINI CIRCUP
CRYSTAL TUPP
and the second se

AGE	2	OF		PROJEC	r Pup					HOLE	NO.	91-1
	0	>	щ		professional and an and an and an and		AL	TERA	TION			N
Ê	B	DOG	TUR					T			Ĩ₩È	OT
E.	- HO	QL	-S	1.0	GEOLOGICAL DESCRIPTION	5	KS:	KA	K-	EP	CTI	EIN
Ъ.	0	E	STR	1 1 2 2		A	в	C	D	F	NTE	N %
-		-			· Michael ·			11		11		
	-			0.0-2 3	Over Burney							
	2		-	0.0-2.0	DOLLE							
	0	9		2001	Er and Based				1	THE		
	6	1		2.0-8.1	FELDSPAR PORTHURY				1	X		
5	1	0			- FELDOPARS CROWNED SUB-				1111	1		
	5	D		FLOW	PARALLEL, CRYGTAL TUFF! DAKE?						2	
	0	0		SS'TOLA	-FELOSPARS PLTERED TO EPIDORE				N.	5	X	
	Ŭ	P		FOLIATION	- PATCHN KF ALTN .		P.S.		1	N		
	1.32	~		70' TO C.A	- CITL, HEMATINE ON FRACS.							
10	90	2×		6.1-48.8	SERILINE ALTERED	K		1				
	0	1~		- Andrew Street	- MAFIL VOLLANIL			11			No.	_
		2	1	CHOLIATION	- WELL FOLIATED			34.9			1	
	0	1-2		OU TO CA	- BERG-GREY-GREEN			X			1	
	1-	VC-		-	9-1-13.3: RUNTY STORY	S	1 41 (B) 8 84 98				1	-
1-	-	V		FOLIATION	FRACTURED SUB Para	N					N	
15	-	5		65 TOCA	WEATLAND LA LA		N	251				
	0	V			C							
	0	v		FOLIATION:	JUEAR		D					
	-	V	1	50 10 00	•	1		11				
	i ci	v			0.0.0.112./							
20		K		CLAPE ASTON	22.6-43.6 CHANGE IN		目間	23		1		
20					TEXTURE, APPEARS CINEISSOSE,	3						
	0	Y .		And party of	PERMAPS INTRUSIVE?	13				3		
	0			FOLIATION	23.2 - 48.6 : WEAK TO MODERATE					1		
		V		IT TO C.A.	M KF ALT"	2	Fill			1		
75	- 0	-		111-22	30.0-31.5 : FELD-SPAR	1	1	S - H		77		
20	0	v		100 C	PORPHAR MONZONICK		1			New Y		
	-	v		_	DHILE · COARSE SVANEDRA	10	14			12		
	15	V		FOLIDTION	FELDEPAR (14504LD		1			S		
	0	v		65 10 0.0						2		
	Ľ	v				1	1	1				
20	-	+		-								2
	0	+			222: - 7	No. of Lot	-			1		
	V	10			BL.L. MINIOR FLUORITE.	X	ALL N			-		
	-	-V			FILESENT.		5					
	0	-		TOUATION:	in the second					8		
35	5 0	V		TO DCA.	· · ·	1						
				PARALLEL		100	N.	1				N
	0	-		SO'TO CA			N	1				
	0	V		Lower			1	AL.		1		8
	-	~		CONTRAT		N.				No.	1	
11-	5 10	+	X	40' TO CA	39.0-40.5: PELOSPAR							
40	lõ	+	Í		PORPHURY, MUMIZONITE	N.C.						*
		V		-	DAKE SIMILAR TO			1.11				
	-			_	PREVIOLS LOWER CONTRACT		-	8				
	0	F		ERIDA	40° TO LA	1						
	0	V		4 K-SPAR	45.0: 16-5800 5146 000	1				No.		
45		1	1	40'TO CA	TO THE CAVELOVE INTZOUND	-	A BAR	d ba		19		

	S		S	AMPLES	2			ASS	AYS		1. L.
MINERIZATION DESCRIPTION	TOTAL		FROM	TO	MIDTH	SAMPLE NUMBER	Am	Ag	Cm	Pb	Zn
		-					PPD	PPm	PP~	Ppn	PPm
		1									
		1									11.1
	K										
-8-81: 1-3% Diss	X	Ľ	2.2	4.3	1.5	8326	5	2.2	387	9	66
AND FRACTURE- CONTROLLED	X		4.3	5.8	1.5	8327	8	2.1	22	8	69
PY, TR CP	X	1	5.8	7.0	1.2	8328	6	2.1	230	5	55
	N	Ħ	7.0	8.1	1-1	8329	2	1.8	288	5	54
	1		8.1	9.3	1-2	8330	19	0.5	358	10	31
	V	H	9.3	10.8	1.5	8331	20	1.5	1537	15	54
8.1-14.2: 3-7%. Diss DY	Y		10,0	12-3	1.5	8332	65	1-1	490	32	143
9.1-13.3: TR CP+MLIN	1	H	12-3	13.8	1.5	8333	102	1-1	1155	11	48
-HEAR ZONE	1	-									
	1	Ħ									
	11	H									
4.2-22.8: 7-10% DISS PT.	1	H	13.8	153	1.5	8334	280	1.5	1878	14	30
COMMONIN PPARALLES TO	1	Ħ	15.3	16.9	1.5	8335	114	1.2	975	15	43
FOLIATION	1	Ħ	16.9	193	1.5	63330	63	1.7	1053	15	23
		Ħ	19.3	198	1.5	8337	102	2.1	1401	16	167
	1	Ħ	19.8	21.3	1.5	4334	37	2.0	793	6	32
		Ħ	712	22.8	1.5	(2329	27	21	755	q	16
		Ħ	27.0	243	15	020	7.8	20	845	1	13
		Ħ	211.2	250	15	0241	1.41	2.6	574	34	75
		Ħ	24.3	-3.0	1-0	0511				00	
22-218 . 5-7-1		H					-				
0.1	1	H									1
22	1	\mathbb{H}			15	42.12		2.1		a	24
SU.S. CF UN FRAKTURE			25.00	27:5	1.0	82.00	116	2-4	310	211	29
WITHIN INTRUSIVE	1		21.5	28.8	1.5	0545	40	1.9	284	24	42
		H	28.3	30.3	1.5	40544	5	1.5	221	15	-LL
and the second	X	H	30.3	31.8	1.5	8345	20	1.2	317	13	29
	X	Ħ	51.8	33.3	1.5	8346	41	1.5	479	15	37
	N	Ħ	55.3	34.8	1.5	10 8347	8	1.9	515	26	43
31.00-50.0. 51-10%. 0155	N	Ħ	24.8	36.3	1.5	6348	57	1.7	439	19	32
PY	X	Ħ	and the		-						
	X	Ħ			1.00		-				
	X	Ħ		1		-	-	-			120
	X	Ħ	36.3	37.8	1.5	8349	15	1.9	763	רי	39
	1	Ħ	37.8	39.3	1.5	8350	3	1.5	1410	41	33
and the second			39.3	40.5	1.2	8351	1	1.7	487	8	19
	1		40.5	42.0	1.5	8352	13	2.2	919	11	19
40.2-41.2: TR CP	N		42:0	43.6	1-6	8353	3	1.9	671	7	17
	X	+	43.6	45.1	1.5	8354	51	1.8	599	12	24
	X									-	-
	X	+									
	1	+					Sec.				14
		1									mal 1

AGE -	t	OF		PROJECT			HOLE	NO. 91-	- 07
(III) III JAA	% CORE REC	ПТНОГОВУ	STRUCTURE		GEOLOGICAL DESCRIPTION		LEP	FRACTURE INTENSITY % VEIN QTZ.	
	0	~						3	
	0	~	_	-					
	-	24	-	-		NINS	1		
	0	v	-	40.0-53.5	FELDERAG PORPHYLL MISSION		N	3	
	0	+	-		TE DUVE		1		
50	-	+		and a set of the	- WARSE - WRANNED 20060	D PRIX N	N	2	
	0	+		CILL ON	PELOSPACE LUNES CALLES		1		
	0	+		ERNARA	- UPBER CONTRACT A DEAL		1	1	
	-	*		- I I DIAC (OTCES	OFFEIZ CONTACT MILLER 19	X HAK	2		
-		V			- PURSORAL PRISO CT CLARK		M		
55	0	×	-	3 PLON	- COMEDICAL, EELDSPARS		5		
	-	V		TO TO LA	- FLAG IN POTASSIC GIZOUNDROASS		-		
		V		0.5	4		10		
	0	K	-	59.5-	DERICITE ALTERED LAPILLI		-		
	0			127.1	JUPP / ACCLOPICATE	THE K	1		
60		~			- CLASS VISIBLE @ 58.0m	The NU	N		
	0	V			- STRUMALLI SERILITE +		S		
	0	L	-	TI ON	SILICA ALTERED ; POTASSIC G-MAN	H C C N	X		
	-	~	-	I a Drives:	- BLESSH EPO ALT " LESS				
		~~	-	- 70' TO C.A.	ABUN IN INTRUSIVES.		-		
15	m	~ 22	-	FALLT ROME,	61-3-66.8: 20ME DE		-		
65	6	v	1	40 TOLA.	(SAWASA ESIALOA PORDININ				
		v		a street	(MINDES FEEDSPIRE HOTEFING		1	1	
	0		_	-	bez = 1.0 m with				
	2	V			AN BALLER FOR				
		~	-		CHISTON, S. FRANCE ZONE SHEARED		8		
70	0	~	1		BRAY WITH COULIE, BO TO C.A.				-
	0	V	/	CAJENL	CUPPER CONTACT	PARA S	1		
	-	V		35 TO CA	10.3: FLUORINE PRESENT				
		v			58.8-59.6 : VISIBLE KEALT'N	NXX Z			
	0	~			(LIRDUNDMASS THROUGHOUT				
75	-	-	/	FUCILATION	15 POTASSIL)	The to			
	0	Y	4	35 TOCA.	72.2-79.7: VISIDLE KF ALTN				
	0	V			78.4: 79.8: 81.9: 6cm				
	-	V		-	ZONES OF GOUGET BRXX' DOCK				
		~~~		-	87.5-89.7: FAUL- /SINGAR POLIC		577	10	
00	0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		-	STRONGLY FRACTURED MINOR				
60	0	v		din huéi	Covers and an art at which				
	-	4	_		area the		1		
	0		_		in the second second second		6		
	0	V	_	-			X		
		V			A State of the second sec		R		
85	0	~		CHL CLOTS				2	
	0	~							
	-		-		•				Th
		22		Carrie				XX	
	0	2	1	SHEPR PORE					
	0	rr	A	55° TOLA					1

	S	S	AMPLES				ASS	SAYS		
MINERIZATION DESCRIPTION	SULPHIDE	FROM	то	WIDTH	SAMPLE NUMBER	An	Ag	cu	Pb	Zn
15.5: FIRES ABOCH ANDE	N	451	466	1.5	8255	10	1.7	yzu	10	20
DE DUCRUGTIE	N	46 1	421	1.5	9356	7	17	803	12	21
	X	-(0.6				<u>`</u>			12	
		421	488	07	9357	56	1.9	854	10	32
50-0-991 : 2-7% 2104	X	48.9	503	15	8358	2	1.3	324	13	21
Superiore Ry ~ Po TE LP	VI	50.3	518	1.5	3359	1	1.6	267	10	20
LUTA PO	X	51.8	534	1.6	8360		1.4	2.7	17	20
71.0-950: MUNOR PO	X	53.4	549	1.5	8361	ÿ	1.4	383	21	31
NO CP	XI	54.9	56.4	1.5	9.362	3	1.4	269	20	22
		56.4	57.9	1.5	8362	1	1.7	135	8	22
	X									
		57.9	59.4	1.5	8364	2	1.5	178	8	17
		59.4	60.9	1.5	8365	5	1.7	437	8	20
	N	60.9	62.4	1.5	8366	3	1.7	182	10	21
		62.4	63.9	1.5	8367	1	1.5	123	16	33
		63.9	65.4	1.5	8368	19	1-6	282	59	283
and the second second second		- 65.4	66.9	1.5	8369	21	1.9	546	50	33
		66.9	68.4	1.5	8370	9	2.3	713	12	39
	1	68.4	69.9	1.5	8371	1.263/	2.0	398	78	52
	V	- 69.9	71.4	1.5	8372	8	1.8	443	10	29
	X	-								
	1	-								
	1									
	N					19		1.5		
	X	-71.4	72.9	1.5	8373	16	1.7	383	18	70
73.1 : MOLYBOENUN?	-	-72.9	74.4	1.5	8374	17	1-1	312	18	47
VEINLET. LEWE-COST,	1	74.4	75.9	1.5	8375	3	0.3	169	18	43
SOFT SULPHIDE)	1	75.9	77.4	1.5	8376	2	0.6	166	32	30
	1	77.4	78.9	1.5	8379	2	1.2	175	15	13
and the second state of the second second	X	78.9	80.4	1.5	8378	4	1-7	200	28	42
	1	80.4	81.9	1.5	8379	2	1.4	488	16	37
	N	81.9	83.4	1.5	6380	6	1.7	390	21	40
		-		-		-		les la		
	1		-							-
		-		-	-		-	-	-	-
		- 83.4	849	1.5	8381	11	1-6	252	18	40
	X	84.9	86.4	1.5	8382	3	1.5	59	9	32
	X	-86.4	87.5	1.1	8383	57	1.5	59	18	51
85-0-9911: 1-2% PD, NO CP	X	87.5	88.6	1-1	8384	13	1.5	122	12	28
	N	88.6	89.7	1-1	8385	7	2.5	185	19	20
	1	-		-		-		-	_	
	1	in the	-		E.		-	1		
	V	1 · · · 1	11. 34	2	185			1	-	

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GE (	2	OF	7	PROJECT	Pup					HOLE	NO.	91-	02
	% CORE REC	ГІТНОГОĞY	STRUCTURE		GEOLOGICAL DESCRIPTION	Se F	ALT			EP E	FRACTURE	% VEIN QTZ.	
	-	V	-						1				
	00	V	/	FOLIPTION, BEDDING	911.5-100,6: common TUPFALGOUS				114				
	-	V		HADELEDEN	14012 120145	1II		1					
	~	44		67 10 6 4				1	1				
95	0	11	1.1.1.1.1		acc. 1001.1				N				
	-	44	-		43.5-10LI . FISS CALLITE -		H		100				
	~	V	-		ALT OF GOULD MANS AND	+			R				
	0	1			IN STRINGERS		1		N				
	-	11	_		98.9-104.3: POTASSIL AUTO	-		1	2				
00		1/2		FOLIATION	(VIDIOLE)		110	1	1				
	00	shi	/	IN TUFFACED	. 100.3 - 101.8: CLASS VISIBLE,					105			
	-			- more 120m	CHLORITE OFTER AUGUTE			10	T				
	-	V		- 25 AV -4.					1	R.			
	0	V		-					N				
INE	0	v	1	WEAK FOUT		THAN !			1	10 K			
00		1	-					1	N	-			
	0	V	-			1		1	1				T
	õ		-	-		1		1	1		-		
	-	V			Posterie and set of the little	1000		-	100				
	6	~		RYACHE				1	3				
110	0	~	X	STRINGERS				1	N		1		
	-	V	É	55 TO 4A	STORE AND MATCH IN THE SECOND		1	1	2				
	1	V						1	1		4		
	13	V					1		*		-		
	-	V					1	1	È				11
115				CORRECTE		1	1	2	-		1		
	0	V	V	UC" +0 6.4.				1	N				
	12	V				-		2	14		12		
	-					110	-	1	11		1		-
	0	Y				*		17	11		1		
120	0					X		Z	10		1		
	-	V					2	12	X		14		
	0	r		FOLIATION	122.0-122.5: FAULT / SHEAR ZONE			1	-		1	0	
	0	~		HOME,	FRACTURED, MINOR LOULE,						8	-	-
	-	V		-75° TO CA.	75° to LA.		and a	X			1		
17~				-				1					
120	0			- 1°		X	*	X	1		-		++
	12	V			E.O.H. 127.1m	1000		1	K				
	-	-	F					T	H				
		-				++-							
			$\square$										
130							-						
						H		+					
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		_	-				1 1		1.1.1				

				_						
	ES	5	SAMPLES				ASS	SAYS		1
MINERALIZATION DESCRIPTION	TOTAL	FROM	то	WIDTH	SAMPLE NUMBER	Au PPb	.Ag PPm	Cu PPm	Pb	Zn
		89.7	911.2	1.5	8386	3	1-6	76	14	266
	1	91.2	92.7	1.5	8387	14	2.3	285	12	140
		927	94.2	1.5	3392	62	2-1	334	14	90
93.5: TZ CP	1	-								
95.0 : TR CP	2	94.2	957	1.5	8389	1D	1-6	251	23	83
	>	957	97.2	1.5	8390	5	0.9	27	9	11
	2	97.2	99-1	1.9	8391	4	1-1	28	24	18
		99.1	100.3	1.2	8392	9	2.5	345	9	195
		100.3	101.5	1.2	8393	4	1.7	251	9	40
99.1-102.8: 7-10% 0155		101.5	102.8	1.3	8394	14	1.7	260	15	39
Sk, LOCALLY UP TO 12%.	/	1028	104.3	1.5	8395	43	1.4	142	16	33
(assoit with ERACTURES)		1043	105.8	1.5	6396	3	2.2	188	19	48
PTO PO ST CP						-				
1027: FINE-KIRAINED BLUE-										
GREA SX (GALENA ?) WITH		_	1							
Py, PO, LP		-							1000	
102.00-107.8: 7-10%	2	105.8	106.8	1.0	8397	2	2.4	427	21	33
DISS PY, COMMUNICY COARSE	~	106.8	107.8	1.0	8398	37	5.0	781	72	1703
107.8-114.9: 3-7%. 0135	~	107,8	109.3	1.5	8399	1	29	(0%	22	107
SX, PHOPO, TR CP	1	1093	110.8	1.5	8400	2	1.6	217	13	22
WIFH PO	~	110.8	112.3	1.5	3401	15	1.4	290	20	28
106.01-107.6: SPHALERIE	1	112.3	113.6	1.3	8402	3	1.2	223	16	37
VEINLETS PRESENT		113.6	1149	1.3	8403	1	1.1	129	18	84
		114.9	116.4	1.5	8404	4	1.0	142	12	67
114.9 - 127.1: 3-87. 7.45		116.4	1179	1.5	8405	2	0-6	89	13	35
Py minor PD		-								
3		-								
		-	1							
	-	117.9	119.4	1.5	9404		07	43	14	23
		1194	120.9	1.5	9407	5	0.6	0.	17	1.0
		1201	1224	1.5	Sune	3	0.5	76	14	41
	1	1224	1739	1.5	9409	i	0.3	57	12	111
		123.9	1254	1.5	8410	2	0.4	-	13	110
		1254	127.1	17	8411	1	0.2	D'		33
	>	-			0 111					
		-								
	2		1	-						
		1							12.74	
							-			
Y							-			
	-	1. 10	1	-			11		100 - 710	
		1					-		Interior	
and the second	-		-					1011 - 154	Red Star	
	200	1000	The second	100-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0			-	aconge	25 372	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ALC: NOT THE REPORT OF	100 million (1990)				2019	1000 million - 100	AL 101	

### APPENDIX D

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### ANALYTICAL PROCEDURES AND CERTIFICATES OF ANALYSIS

![](_page_50_Picture_1.jpeg)

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK: PROCEDURE FOR 31 ELEMENT TRACE ICP

> Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni P, Pb, Sb, Sr, Th, Ti, V, Zn Ga, Sn, W, Cr

Samples are processed by Min-En Laboratories, at 705 West 15th Street, North Vancouver, employing the followint procedures.

After drying the samples at 95 C, soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized by ceramic plated pulverizer or ring mill pulverizer.

0.5 gram of the sample is digested for 2 hours with an aqua regia mixture.

After cooling samples are diluted to standard volume. The solutions are analysed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers. Reports are formatted and printed using a dot-matrix printer.

![](_page_51_Picture_1.jpeg)

GOLD ASSAY PROCEDURE:

Samples are dried @ 95 C and when dry are crushed on a jaw crusher. The 1/4 inch output of the jaw crusher is put through a secondary roll crusher to reduce it to - 15 mesh. The whole sample is then riffled on a Jones Riffle down to a statistically representative 500 gram sub-sample (in accordance with Gy's statistical rules.) This sub-sample is then pulverized on a ring pulverizer to 95% minus 120 mesh, rolled and bagged for analysis. The remaining reject from the Jones Riffle is bagged and stored.

Samples are fire assayed using one assay ton sample weight. The samples are fluxed, a silver inquart added and mixed. The assays are fused in batches of 24 assays along with a natural standard and a blank. This batch of 26 assays is carried through the whole procedure as a set. After cupellation the precious metal beads are transferred into new glassware, dissolved, diluted to volume and mixed.

These aqua regia solutions are analyzed on an atomic absorption spectrometer using a suitable standard set. The natural standard fused along with this set must be within 2 standard deviations of its known or the whole set is re-assayed. Likewise the blank must be less than 0.015 g/tonne.

The top 10% of all assays per page are rechecked and reported in duplicate along with the standard and blank.

![](_page_52_Picture_1.jpeg)

### AG, CU, PB, ZN, NI, AND CO ASSAY PROCEDURE

Samples are dried 0.95 C and when dry are crushed on a jaw crusher. The -1/4 inch output of the jaw crusher is put through a secondary roll crusher to reduce it to -1/8 inch. The whole sample is then riffled on a Jones Riffle down to a statistically representative 300-400 gram sub-sample (in accordance with Gy's statistical rules.) This sub-sample is then pulverized in a ring pulverizer to 95% minus 120 mesh, rolled and bagged for analysis. The remaining reject from the Jones Riffle is bagged and stored.

A sub-sample is weighed from the pulp bag for analysis, usually 0.200 to 2.000 gram, depending upon estimated range. Each batch of 70 assays has a natural standard and a reagent blank included. The assays are digested using a HNO3 - KCLO4 mixture and when reaction subsides, HCL is added to assay before it is placed on a hotplate to digest. After digestion is complete the assays are cooled, diluted to volume and mixed.

The assays are analyzed on atomic absorption spectrometers using the appropriate standard sets. The natural standard digested along with this set must be within 2 standard deviations of its known or the whole set is re-assayed. If any of the assays are >1% they are re-assayed at a lower weight.

![](_page_53_Picture_1.jpeg)

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK

PROCEDURE FOR AU, PT OR PD FIRE GEOCHEM

Geochemical samples for Au Pt Pd are processed by Min-En Laboratories, at 705 West 15th St., North Vancouver, B.C., laboratory employing the following procedures:

After drying the samples at 95 C, soil and stream sediment Samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer or ring mill pulverizer.

A suitable sample weight; 15.00 or 30.00 grams is fire assay preconcentrated. The precious metal beads are taken into solution with aqua regia and made to volume.

For Au only, samples are aspirated on an atomic absorption spectrometer with a suitable set of standard solutions. If samples are for Au plus Pt or Pd, the sample solution is analyzed in an inductively coupled plasma spectrometer with reference to a suitable standard set. COMP: EQUITY ENGRG., CON.GOLDWEST

#### MIN-EN LABS - ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 (604)980-5814 OR (604)988-4524

PROJ: OP AND PUP P.O. KGGPU ATTN. D. CALLESTELD /D. LOUCHEED

FILE NO: 15-0287-RJ1 DATE: 91/08/12

* ROCK * (ACT:F31)

ATTN: D.LAULFI	ELD/P.	LOOGHE	EU									(0047		14 0	(001)											_					
SAMPLE NUMBER	AG PPM	AL PPN	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	f PP	E I M PPI	C L I PPI	MG I PPM	MN PPM	MO NA PPM PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM F	TH PM F	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM F	W PM P	CR AL	PPB
52751 52752	2.1 1.6	20390 17690	1	15 9	69 125	.1	21 18	17740 12930	.1	27 17	158 63	6211	0 4030	1	15260	869 667	3 230 3 300	1	2820 2320	995	1	166 166 138	1 50	003 359 722	169.9 118.2	53 38 11	1	432	452	36 67 24	46 37 20
52753 52754 52755	1.2	7660 16690 8300	1 2 1	5 6 5	51 129 103	.1 .1 .1	12 13 11	9070 12740 9180	.1 .1	14 9	35 46 29	3512 3405	0 2300		8700 3860	818 505	3 280 3 280	1	1850 1390	8	i	187 74	2 2	598 246	73.5	48 24	2	Ž	42	46 32	24 18
\$2756 52757	1.1 1.7	9660 11360	43	5	68 43	.1	14 11	11660 17290	.1	15 11	118 398	4549	0 2100		4510 6290	337 612	7 350	1	1390 1420	8 19	1	74 108	1 29	904 405 408	68.0 69.1	16 47 65	1 2 3	2	445	47 35 48	39 78
52758 52759 52760	1.2 1.6 1.2	13260 10940 10120	18 22 4	554	92 89 139	.1 .1 .2	8 10 9	22940 19380 18440	_1 _1	13 13 9	151 469 36	4150	0 4471 0 3860 0 3500		5410 5410 4750	655 525	2 330 1 270 6 450	1	1360 1130	20 7	1	60 64	2 18	833 745	44.8 33.0	67 21	1 3	2 1	33	30 43	44 5
52761 52762	.7 1.8	12500 24700	4	4	134 57	.1	8 21	14080 17720	.1	17 27	158 105	3799	0 4630	) : ) 1	5480 21140	345 1184	3 300 1 450	1	970 1610	8	1 1	24 28 87	2 1	537 543	52.6 134.5	18 56 27	224	132	243	32 29 34	40 18 34
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PROJ: OP AND PUP P.O. KGGPU

#### MIN-EN LABS - ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 (604)980-5814 OR (604)988-4524

ATTN: P.LOUGHEED

FILE NO: 15-0333-RJ1 DATE: 91/08/12

* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	L I PPM	MG PPM	MN PPM	MO NA PPM PPM	NI PPM	P PP <b>N</b>	PB PPM F	SB S PPM PP	R TH M PPM	T1 PPM	V PP <b>n</b>	ZN P <b>PM</b>	GA PPM	SN PPM I	W PPM P	CR AU PM	-FIRE PPB
52801 52802 52765 52766 52767	1.6 .2 1.1 .4	10990 11410 10890 8990 11650	8 1 11 22 7	25 16 8 7 6	45 39 59 34 51	.1 .1 .1 .1	12 13 11 11 12	9230 3790 19990 9000 5710	.1 .1 .1 .1 .1	12 13 12 16 11	68 88 144 135 118	40340 80020 41820 74980 67640	1390 1930 2800 1890 2470	12 8 4 3 3	7560 11590 7710 6330 6510	431 340 667 479 446	11 250 4 260 3 260 1 230 1 210	11111	1170 1290 1770 1520 1680	16 12 16 127 15	1 4 1 1 1 8 1 5 1 6	7 1 2 1 4 1 2 1 2 1	2854 3283 2464 2813 2779	63.6 106.5 72.5 98.1 89.1	29 24 46 51 18	1 1 1 1	22222	4 2 11 7	50 25 29 22 20	32 6 28 187 119
52768 52769 52770 52771 52772	1.8 1.1 .1 1.8 2.8	12120 11280 21520 11340 12340	3 9 1 2 1	3 2 5 2 2	25 40 7 103 47	.1 .1 .1 .1 .1	16 11 13 7 12	12620 11240 13690 17600 16090	.1 .1 .1 .1 .1	13 12 15 16 26	50 81 86 1229 1637	41280 39860 104500 39100 41300	1160 1200 220 2850 2190	33244	7090 6460 16340 9700 9460	509 489 729 791 627	1 280 3 370 1 180 3 270 16 250	1 1 9 13	1900 1060 940 1760 1420	13 10 8 19 12	1 13 1 10 1 7 1 4 1 11	3 1 4 1 7 1 9 1 1 1	3782 2545 3257 1174 2699	101.5 63.5 113.9 91.9 79.7	20 18 27 45 40	3 2 1 4 3	3 1 1 2	34333	23 55 48 38 35	6 8 49 24 123
52773 52774 52775 52776 52777	1.7 1.8 .1 .5	6750 22280 7240 6380 13430	1 9 45 8	1 1 1 3	10 20 103 342 79	.1 .1 .1 .3	14 19 2 19	16370 16150 7230 17780 8480	.1 .1 .1 .1	17 23 8 8 19	234 268 194 296 65	35520 51890 24610 24830 76330	590 1570 3910 3970 4200	1 9 1 1 3	2500 23940 1780 1500 6250	182 740 467 943 486	3 350 1 300 3 280 2 220 4 200	8 1 3 1	4240 2120 1080 1450 2310	5 3 18 18 12	1 10 1 11 1 1 1 3 1 3	3 1 8 1 8 2 8 1 2 1	3465 4407 146 66 4502	97.9 141.3 19.4 20.5 81.1	9 47 42 82 21	1 2 1 1	3 4 1 3	4 3 1 3	60 20 29 25 11	67 3 4 11 130
52778	3.7	9560	3	1	36	.1	10	9610	.1	13	3556	32350	2430	3	4600	535	1 330	1	1060	17	1 3	5 1	2393	77.4	165	2	2	3	2 <del>9</del>	820
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MIN-EN LABS - ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7H 1T2

COMP; EQUITY ENGRG./CON. GOLDWEST PROJ: OP & PUP

ATTN: D.CAULFIELD/P.LOUGHEED

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462 38760 2410 434 35470 2230

513 37690 2800

287 35910 1580

368 38380 2440

244 40150 1790

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#### (604)980-5814 OR (604)988-4524

FILE NO: 1S-0322-RJ1+2

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DATE: 91/08/12 * ROCK * (ACT:F31)

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NUMBER	PPM PF	M PP	PPN	PPM	PPM	РРМ РРМ	PPM	PPM	PPM	PPM	PPM	PPN PPN	<u>PPN</u>	PPM PPM	PPM I	100	0 1	56	1 2411	62 7	33 1	2	3 50	10
8201 8202 8203 8204 8205	1.3 1960 1.0 1484 1.0 1241 1.1 1683 1.3 1525		12 8 6 7 5	23 55 85 86 54	.1 .1 .1 .1 .1	10 21190 10 15140 10 14220 13 11260 12 16200	.1 .1 .1 .1	22 12 11 12 18	421 109 88 138 167	41270 34220 31630 47810 40530	920 2060 2550 3500 2250	6 16620 5 10260 3 5300 4 9120 3 8560	617 411 350 408 346	8 280 6 300 3 440 12 440 8 400		180 170 180 310	7 1 8 1 8 1 5 1	53 72 63 59	1 2495 1 2586 1 3282 1 3002	56.8 67.0 81.4 60.5	22 1 13 1 25 1 14 1	2222	4 56 4 53 5 72 3 41	4
8206 8207 8208 8209 8210	1.5 2393 1.1 1379 .9 1191 .9 1584 9 1150		6 3 4 4	50 51 40 72 64	.1 .1 .1 .1 .1	16 23660 10 14920 10 15110 11 16010 10 17360	.1 .1 .1 .1	21 19 17 17 16	209 223 189 147 313	45870 37140 37220 37600 37640	1970 1920 1500 2170 2030	4 11730 2 6220 2 6230 2 7260 2 5260	430 240 268 348 307	9 690 3 430 5 370 6 470 13 330	1 1 1 1 1 1 1 1 1 1	350 200 340 150 240 1	4 1 6 1 3 1 6 1 10 1	130 62 54 86 71	1 3686 1 2812 1 2487 1 2835 1 2392	84.1 54.4 46.4 58.4 43.4	21 2 14 1 20 1 28 1 44 1	3	4 60 3 52 4 73 3 41	2
8211 8212 8213 8214 8214	1.3 768 1.0 1579 .7 1818 .6 910		45433	72 150 87 110 87	.1 .1 .1 .2	9 18290 11 12110 13 7850 6 15800 6 26440	.1 .1 .1 .1	17 14 16 8 8	465 298 217 36 90	38800 51510 53150 22930 24480	2860 5600 3400 4140 3930	1 2840 3 6780 4 12750 2 2680 1 3090	243 526 921 498 663	28 300 23 420 15 220 3 450 1 270	1 1 1 1 1 1 1 1 1	280 1 150 1 190 1 770 920	16 1 12 1 15 1 8 1 7 1	50 63 71 54 74	1 2053 1 2535 1 2910 3 1325 2 1350	35.8 52.4 66.9 23.6 28.5	38 24 37 18 21	1 2 1 1	2 39 4 56 3 30 2 44 2 38	44 28 1 9 5
8216 8217 8218 8219 8219	.5 77 .4 598 .9 876 .7 663		3	92 64 81 73 86	.3 .2 .1 .1	4 24490 4 19180 7 20210 6 16590 14 22800	.1 .1 .1 .1	7 6 8 6 20	17 20 16 44 315	21990 22070 24360 20850 44660	4200 2800 3560 3050 3030	2 2150 1 2530 2 2840 1 1760 3 5780	607 610 517 384 527	2 400 2 330 3 610 2 510 15 270	1 1 1 1 1	780 730 1 700 1 550 770	8 1 11 1 12 1 8 1 7 1	63 49 79 57 85	2 888 2 802 4 1603 3 1244 1 3577	18.4 18.4 38.2 25.4 87.5	16 18 17 19 26	1 1 3	2 44 2 55 4 75 3 84 3 32	1 2 10 4 43
8221 8222 8223 8223 8224 8224	1.8 202 1.8 153 1.2 1239 1.2 1300 1.1 174		5	98 105 85 93 133	.1 .1 .1 .2 .1	18 12720 15 18800 9 19380 9 22820 9 14210	.1 .1 .1 .1	21 24 11 12 14	256 400 45 82 129	52960 50790 32000 32070 35640	3550 3760 4000 4930 6770	4 11800 3 8010 3 5930 3 5570 4 6070	949 749 754 854 946	11 430 11 290 2 380 2 310 1 340	1 1 1 1 1 1 1 1 1 1	770 1 780 1 290 1 380 1 410 1	16 1 12 1 10 1 14 1 12 1	94 90 77 64 71	1 4196 1 3592 2 2164 3 1856 3 2135	114.5 87.9 57.4 50.6 59.8	25 26 22 22 30	3 3 2 1 2 1 2 1 2 1 2	6 88 3 31 3 56 3 56 3 36	8 29 1 17 25
8226 8227 8228 8229 8330	.7 968 .8 1099 1.5 1233 1.3 1380	30 50 20 00	5 3 5 3 5 2	54 61 72 50 53	.2 .1 .1 .1	7 22850 7 23250 12 22760 11 19500 9 15830	.1 .1 .1 .1	10 10 19 16 16	30 30 322 138 154	28430 29440 37720 32860 28670	3160 3690 3520 2160 1920	3 5460 3 5710 3 5480 2 6050 2 5570	690 709 472 538 415	1 300 2 320 9 350 2 420 5 400	1 1 1 1 1 1 1 1 1 1	280 1 280 1 880 370 200	11 1 10 1 6 1 6 1 5 1	62 68 85 98 85	2 1578 3 1712 1 2823 1 2607 1 2397	42.5 47.9 73.5 64.3 46.9	24 22 17 17 17 15	1 1 2 2 2 1 2	3 69 4 74 5 85 4 59 5 91	4 15 2 1 6
8231 8232 8233 8234 8234 8235	1.2 122 1.0 116 9 144 1.2 116 1.2 116	50 50 50 50	21 12 11 5 8	40 45 46 56 56	.1 .1 .1 .1	9 15880 8 15900 11 15900 8 14190 11 22880	.1 .1 .1 .1	16 16 17 13 15	180 182 168 132 218	29080 27650 34340 23020 33190	1460 1750 2080 1910 2500	8 4960 4 4160 4 6490 3 3660 3 5380	311 292 401 282 503	5 280 4 270 5 290 5 320 4 270	1 1 1 1 1 1 6 1 1	160 1 250 220 900 220	11 1 8 1 6 1 6 1 7 1	63 68 77 102 84	1 2258 1 2053 1 2583 1 1809 1 2510	44.2 36.9 49.5 37.3 61.2	18 15 25 11 19	1 2 1 2 1 2 1 2	3 41 2 29 3 45 2 41 2 32	25 18 14 1 16
8236 8237 8238 8239 8240	1.4 116 1.4 189 1.2 189 1.2 200 1.2 200 1.5 218	10 30 20 30 30	1 7 1 5 1 5 1 7	59 42 54 73 82	.1 .1 .1 .1 .1	12 24510 15 24010 12 19380 12 26230 12 26080	.1 .1 .1 .1	16 20 18 20 17	240 229 200 154 294	35850 46680 36010 47250 38440	2670 1610 1920 3210 3260	3 5850 4 13080 3 9550 5 15150 4 13510	543 894 633 1059 910	4 280 2 340 3 300 1 280 1 210	1 1 1 1 1 1 1 2 1 1	310 370 140 160 1 230 1	8 1 9 1 7 1 10 1 11 1	86 101 121 91 103	1 2661 1 3380 1 2886 1 2659 1 2753	64.9 83.9 63.9 93.9 64.5	20 31 21 45 29	1 2 2 2 1 2 1 2 2 2	2 54 3 26 3 32 3 28 2 20	2 17 6 23 2
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#### MIN-EN LABS - ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

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> FILE NO: 1S-0322-RJ3 DATE: 91/08/12

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PROJ: OP & PUP ATTN: D.CAULFIELD/P.LOUGHEED

(604)980-5814 OR (604)988-4524

٠	ROCK	٠	(ACT:F31)
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SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	81 PPM	CA PPN	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO NA PPM PPM	NI PPM	P PPM	PB PPM {	SB PPN	SR T PPM PP	H TI M PPN	I PPI	V ZN PPM	GA PPM	SN PPM	₩ PPM	CR PPM	AU-FIRE PPB
8261 8262 8263 8264 8265	1.4 1.3 1.4 2.0 2.0	12150 12800 15120 19120 19070	3 1 1 4	15 5 3 3	54 35 67 35 31	.1 .1 .1	9 9 10 19 17	23860 22130 24700 25610 19890	.1 .1 .1 .1 .1	14 15 16 18 19	189 218 448 345 236	33730 32620 37010 40560 35250	2510 1750 3160 900 1550	10 5 4 4	7070 8710 10670 12700 9240	623 675 709 733 627	4 290 3 330 4 280 3 280 17 390	1 1 1 8	1380 1430 1520 2510 1220	14 7 8 8 8	1 1 1 1	65 64 50 129 124	1 2176 1 2291 1 2490 1 3928 1 3456	51. 59. 75. 120. 89.	8 29 5 51 7 35 1 37 5 27	22344	21233	23345	34 40 35 42 72	1 5 2 4 3
8266 8267 8268 8269 8270	2.1 1.7 1.9 1.8 1.6	19210 18690 18800 19310 17960	6 3 1 1	1 1 1	42 68 23 42 21	.1 .1 .1	17 12 15 16 13	26380 27690 26170 21090 22990	.1 .1 .1 .1	18 17 17 20 13	144 164 289 218 186	37340 38240 33450 34630 27890	2030 2970 1010 1630 840	5 5 4 3	11890 11950 9780 10540 10760	882 956 679 654 678	4 290 3 260 8 240 2 440 4 220	4 1 6 10 2	1070 1290 1400 1160 1190	99648	1 1 1 1	97 110 141 93 93	1 3642 1 2718 1 3321 1 3769 1 2960	112.1 78.4 95.1 108.1 78.4	3 30 4 45 3 28 5 24 3 26	54333	32322	43554	42 29 79 65 64	1 2 1 1 6
8271 8272 8273 8274 8274	1.6 1.3 1.3 1.5	19210 14730 16670 14540	1 1 1 2	1 1 1 1	45 46 54 48 48	.1 .1 .1 .1	16 11 12 11 13	20380 17940 22840 20950 18750	.1 .1 .1 .1	19 20 16 19 17	235 267 193 179 125	39330 34770 32710 32850 36160	2100 1740 1690 1870 1860	4 3 5 4	11680 7980 8570 6300 11840	748 572 692 526 739	5 310 5 310 3 340 4 370 3 350	8 3 4 3 1	1020 1170 1270 1330 1290	4 10 8 7 7	1 1 1 1	78 62 81 81 90	1 3614 1 2500 1 2458 1 2571 1 2885	109. 59. 61. 58. 74.	7 31 9 29 3 29 4 23 0 28	22323	2 1 2 2 2	43344	60 53 51 52 44	7 4 8 10 2
8276 8277 8278 8279 8280	1.7 1.2 1.4 1.8	20300 13840 15170 10700	1 6 5 3 1	1 1 1 1	63 69 51 32	.1 .1 .1 .1	12 8 11 8	24650 28010 26640 22730	.1 .1 .1 .1	19 13 16 15	401 412 452 750	40390 31690 38030 31210 36100	2610 3940 2470 1770	5 4 4 3 4	13430 8510 10750 7620 12650	900 706 760 574 852	10 330 9 290 12 300 17 340 8 360	1 1 1 1	1380 1120 1630 1650	9 10 11 7 7	1 1 1 1	97 51 95 92 215	1 3055 1 1461 1 2347 1 1802 1 3320	80.0 55.3 85.0 75.5	) 42 2 28 5 35 5 50 5 31	44435	2 1 2 1 2	32334	38 30 37 48 48	4 2 10 2 1
8281 8282 8283 8284 8285	1.6 1.8 1.8 1.7	16780 15840 18990 16220	7 7 1	1 1 1 1	46 36 62 39	.1	13 14 14 13	21100 19180 27670 24400	.1 .1 .1 .1	17 18 23 14	297 280 528 212 291	36640 32620 42440 34630 38690	2420 1900 3960 1770 1280	43634	10120 9610 11810 8830 11370	572 494 682 717 816	5 440 5 370 2 320 2 390 3 420	1 1 1 1	1350 1330 1320 1190 1130	64 12 8 41 13	1 1 1 1	91 85 94 138 187	1 2760 1 2974 1 3142 1 2738 1 2990	68. 71. 80. 81. 96.	2 70 0 22 1 29 0 64	3 3 3 4 6	22222	33344	44 39 25 57 54	7 2 17 4 2
8286	1.8	17220	1	7	33	.1	15	21840	_1	14	116	35250	1350	4	8560	778	3 380	1	1230	15	1	166	1 3248	92.3	5 103	4	2	4	55	15
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### MIN-EN LABS --- ICP REPORT

#### 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 (604)980-5814 OR (604)988-4524

FILE NO: 1S-0334-RJ1+2 DATE: 91/08/13

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* ROCK * (ACT:F31)

PROJ: OP & PUP P.O. KGGPU ATTN: P.LOUGHEED

SAMPLE	AG A PPM PP	L A M PP	S E M PPI	B BA	BE PPM	BI PPM	CA PPM	CD PP <del>M</del>	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO NA PPM PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM PI	TH TI PM PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE
8287 8288 8289 8290 8291	1.6 1434 1.6 1771 1.5 1582 1.6 1876 1.9 1989	0 0 0 0	1 1 1	26 25 31 40 37	.1 .1 .1 .1	11 14 14 14 14	17890 21030 23050 24330 24300	-1 -1 -1 -1 -1	13 15 14 14 15	129 137 167 155 167	32330 36220 37800 37810 38350	850 710 1140 1610 1540	4 1 1 1	8500 10280 10190 10390 11210	722 793 853 925 1038	1 360 2 370 1 360 2 370 1 390	1 1 1 1	1420 1360 1450 1470 1320	16 8 5 127	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	145 171 121 194 203	2 2751 1 3426 1 3293 1 3353 1 3474	74.8 85.3 90.4 92.3 96.9	43 38 39 42 84	12333	22222	35454	51 81 45 77 53	1 2 4 119 <u>80</u>
8292 8293 8294 8295 8296	1.1 1917 1.0 1872 1.4 1825 1.0 2018 1.2 2216	0 0 0 0 0	1 1 1	25 35 24 27 30	.1 .1 .1 .1	11 11 11 11 12	24780 21300 21300 24760 22170	.1 .1 .1 .1	17 16 18 18 18	267 214 437 280 201	39520 44250 35760 40020 38730	2100 1980 1650 1880 540	1 1 1 1	13140 15470 12100 13640 13190	1013 1031 840 1044 933	1 350 1 330 4 350 1 340 3 340	1 1 1 1	1390 1230 1180 1270 1170	10 10 5 18 13	1 1 1 1	129 88 122 125 147	1 2709 1 2568 1 2731 1 2784 1 2853	64.8 69.0 69.1 83.5 79.8	57 61 43 46 42	2 1 2 2 2	2222	3 5 3 5	52 33 70 51 73	2 3 1 1 42
8297 8298 8299 8300 8301	_8 1401 _6 1789 _5 574 _4 1088 1_0 1057	0 0 0 1 0	1 1 2 7	39 124 782 197 60	.1 .1 .9 .1	9 7 2 3 9	24530 28170 50600 40450 26940	.1 .1 .1 .1 .1	11 12 8 10 12	106 124 163 304 254	33070 37810 27230 35740 36870	1370 1950 3640 4680 2550	1 1 1	8220 11270 6960 6280 7310	914 1377 1100 1066 785	1 290 2 330 2 210 2 330 1 220	1 1 1 1	1290 1560 550 1530 1550	11 11 24 13 11	1 1 4 1 1	127 257 155 141 136	1 1895 1 1326 1 41 1 364 1 2051	80.0 96.9 28.7 59.4 70.7	49 56 40 27 34	3 4 2 3 1	1 1 1 1	3 4 2 3 3	47 62 52 50 34	1 16 2 6 5
8302 8303 8304 8305 8306	1.4 1186 1.6 1293 1.3 1560 1.7 1351 1.4 928	0 0 0 0 0	8 6 1 2 1	76 31 29 46 50	.1 .1 .1 .1	9 11 11 13 11	28000 25150 28090 34010 26280	.1 .1 .1 .1	11 13 12 12 16	249 282 157 217 407	39810 35260 37220 40490 46140	3260 1420 1230 2510 1960	1 1 1 1	7620 8060 8940 8400 6520	796 778 953 890 654	3 260 5 280 2 310 7 320 4 240	1 1 1 1	1420 1570 1500 1510 1940	90 10 8 44 11	1 1 1 1	148 158 222 146 97	1 1810 1 2425 1 2372 1 2742 1 2539	66.9 83.5 96.8 72.8 68.1	36 37 39 84 25	1 3 4 2 1	1 2 2 2	4 4 5 4 4	63 53 71 67 36	2 1 92 47 20
8307 8308 8309 8310 8311	1.2 1338 1.2 1071 1.2 859 1.3 1316 1 9 1350	0 0 0 0 0 0	2 1 1 1 3 1 1 1	56 38 51 60 71	.1 .1 .1 .1 .1	11 12 10 10 13	24770 27090 26460 28170 26750	.1 .1 .1 .1	16 13 13 12 14	213 159 186 134 239	44110 45300 37370 34240 38720	2400 1300 2300 3090 2420	1 1 1 1	9410 6760 3780 7020 7740	757 612 549 849 773	4 260 3 330 4 290 2 260 3 310	1 1 1 1	1550 1710 1550 1380 1520	8 13 10 13 18	1 1 1 1	104 125 106 130 128	1 2723 1 2998 1 2442 1 2246 1 3028	66.8 70.2 58.6 64.6 82.2	28 21 33 55 35	2 1 1 2 2	2 2 1 1 2	34346	50 60 53 50 50	40 17 2 41 60
8312 8313 8314 8315 8316	2.6 1785 2.2 1919 1.9 1655 .9 1114	0 0 0 0 0	1 1 1 1 6 1	35 28 35 18 27	.1 .1 .1 .1	18 18 15 11	26170 26270 22780 26440 26690	.1 .1 .1 .1	21 23 14 25 18	498 319 243 263 167	41350 42870 40190 69490 50600	1230 810 870 530 810	1 1 1 1	9530 9500 9790 8100 7910	765 820 770 764 704	2 510 3 460 1 400 1 230 1 310	1 1 1 1	1490 1550 1670 2670 1590	6 6 17 16	1 1 1 1	162 189 161 107 103	1 4067 1 4233 1 3555 1 2495 1 2149	105.1 110.7 94.5 82.8 66.6	41 26 34 36 27	1 1 1 1	3 3 2 1 1	5 7 4 33 8	74 92 63 51 45	44 143 4 148 6
8317 8318 8319 8320 8321	2.4 1155 1.8 1307 1.7 1347 1.6 1500 1.9 1886	0 1 0 0 0	4 20 7 12 4 8 5 1	46 51 73 37 29	.1 .1 .1 .1	11 11 10 12 13	30940 22760 52550 26650 33450	.1 .1 .1 .1	14 18 13 18 17	281 302 317 178 173	38740 42900 37100 43390 43050	1580 1870 4230 1220 1190	19 8 6 5 5	8440 8530 7200 10010 13530	896 760 983 880 1067	1 260 1 290 2 200 1 360 1 400	1 1 1 1	1520 1290 1310 1220 1190	32 14 49 12 8	1 1 1 1	101 94 79 114 143	4 2615 1 2825 1 2018 1 2712 1 3026	77.7 68.8 44.5 73.8 88.2	90 49 108 39 51	1 1 2 3	2 2 1 1 2	43244	57 39 40 52 44	40 2 4 2 1
8322 8323 8324 8325 8326	1.9 1539 1.7 1218 2.1 1355 1.8 1730 2 2 2375	0 0 0 0 0	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	48 47 42 65 38	.1 .1 .1 .1	13 10 14 14 18	31900 28300 71480 50980 25790	.1 .1 .1 .1	15 15 14 23 21	255 280 241 213 387	39370 37570 36950 55500 43730	2750 3010 2490 3660 4110	44556	9240 7920 10260 11190 15550	923 857 2056 1239 1077	2 340 10 260 11 280 13 210 1 340	1 1 1 1	1250 1380 1610 1620 2370	20 19 15 15 9	1 1 1 1	112 77 306 125 396	1 2870 1 2432 1 2811 1 3060 1 4177	72.1 67.6 92.6 93.7 136.8	55 42 47 46 66	32532	22223	33354	47 38 28 65 55	2 12 2 36 5
8327 8328 8329 8330 8331	2.1 2110 2.1 1925 1.8 1860 .5 763 1.5 785	0 0 0 0 0 0 5	1 1 5 6	41 45 73 103 416	.1 .1 .1 .4 1.0	16 15 15 2	24850 24700 23360 25840 28090	.1 .1 .1 .1	20 19 18 8 10	322 230 288 358 1537	43860 39790 38340 25670 30310	4210 3400 3000 3980 4800	7 5 2 1	17390 13920 13170 5010 3110	1180 979 908 718 991	1 280 1 290 1 270 2 230 5 220	1 1 1 2	2400 2290 2220 1160 1960	8 5 5 10 15	1 1 1 34	266 288 292 80 69	1 3862 1 3564 1 3620 3 178 2 58	121.2 117.7 123.7 34.3 28.6	69 55 54 31 54	2 3 3 2 1	3 3 2 1 1	4 4 2 3	36 49 46 29 46	8 6 2 19 70
8332 8333 8334 8335 8336	1.1 672 1.1 534 1.5 668 1.2 1475 1.7 639	0 3 0 2 0 7 0 1	0 8 0 8 1	231 77 88 72 118	.4 .3 .2 .1	1 2 2 4 2	29650 26180 27970 58090 52560	.1 .1 .1 .1	9 9 8 15 15	490 1155 1878 975 1053	31030 27400 26650 41890 36420	4550 2600 4010 2740 3780	1 1 2 4 1	3050 4220 4560 12880 4940	770 692 672 1411 873	2 200 3 230 4 170 3 200 12 230	1 1 26 22	1410 1160 960 1540 1100	32 11 14 15 15	425 1	63 53 54 84 63	2 52 2 109 3 52 1 608 1 85	23.1 26.2 24.7 82.3 43.2	143 48 30 43 23	1 2 2 3 2	1 1 1 1	22243	37 28 40 73 45	65 102 280 114 63
8337 8338 8339 8340 8341	2.1 944 2.0 1007 2.1 744 2.0 704 2.6 736	0 1 0 0 0	9 4 1 3 3	95 72 44 40 38	.1 .1 .1 .1	4 12 13 13 10	33450 26910 25020 25680 29770	.1 .1 .1 .1	16 19 21 22 17	1401 793 755 845 574	34830 41560 43280 43120 36890	4130 3360 2410 2380 2110	3 3 1 1 3	6100 6730 3370 2750 7070	642 518 347 359 731	4 210 2 280 2 300 3 340 54 290	1 1 20 25	1960 2450 2120 1340 1150	16 6 9 7 36	1 1 1 1	67 98 85 74 54	1 641 1 2763 1 3330 1 3106 1 2324	70.1 93.3 91.4 83.4 81.8	167 32 16 13 75	2 1 1 2	1 2 2 2	3 4 3 4 5	45 45 60 85	102 37 27 28 141
8342 8343 8344 8345 8346	2.4 546 1.9 469 1.3 1021 1.2 792 1.5 771		7 5 2 4	24 24 47 41 33	.1 .1 .1 .1	13 12 7 8 10	26440 25620 31640 23020 34920	-1 -1 -1 -1 -1	17 18 12 11 15	310 384 227 317 479	32820 32060 26370 28330 34370	1600 1730 1950 2490 2270	1 1 3 2 2	3370 2070 6840 5040 5640	441 333 672 532 749	31 410 10 280 10 220 3 320 5 230	32 21 8 1 6	1230 1560 920 1060 1420	8 24 13 13 15	1 1 1 1	52 49 122 69 102	1 3171 1 2958 1 1583 1 1969 1 2190	85.0 69.1 56.6 38.1 46.3	29 42 22 29 39	1 1 3 1 1	2 2 1 1	4433	74 73 63 45 60	116 40 5 20 41

#### MIN-EN LABS - ICP REPORT

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705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

ATTN: P.LOUGREED

PROJ: OP & PUP P.O. KGGPU

### (604)980-5814 OR (604)988-4524

FILE NO: 1S-0334-RJ3+4

DATE: 91/08/13 * ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	8 PPM	BA PPM	BE PP <del>M</del>	BT PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	L1 PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPN	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB
8347 8348 8349 8350 8351	1.9 1.7 1.9 1.5 1.7	9570 8440 10850 10330 8540	11 8 4 3 4	19 10 6 3 1	72 25 46 245 33	.1 .1 .1 .1 .1	11 10 12 9 10	55820 31800 28110 24450 21350	.1 .1 .1 .1	17 19 18 13 11	373 439 763 410 487	40460 40280 41620 34170 25370	1620 1730 3030 2880 1610	11 76 53	7780 9080 9010 7610 6620	834 869 709 548 372	5 2 3 5 6	230 240 260 230 310	17 26 1 1 1	2780 1170 1820 1360 1230	26 19 17 41 8	1 1 1 1	116 60 78 71 62	1 1 2 2	2238 2204 2775 1955 2343	64.6 67.8 84.2 74.2 77.5	43 32 39 33 19	22233	2 1 2 1 2	4 3 3 3 3	54 46 44 34 40	8 57 15 3 1
8352 8353 8354 8355 8355 8356	2.2 1.9 1.8 1.7 1.7	11000 12580 14110 14290 11790	1 1 1 1 8	1 1 1 1	29 47 41 65 36	.1 .1 .1 .1	14 14 13 15 12	26590 24660 24140 24220 24740	1 1 1 .1	19 21 17 20 24	919 671 599 434 803	36910 42150 38800 44590 42690	1890 3310 2590 2860 2390	44454	9040 8450 11310 11620 10670	455 412 522 585 562	4 6 2 1 8	270 230 250 210 210	1 1 1 15	2210 2280 2010 1650 1310	11 7 12 10 12	1 1 1 1	90 82 82 79 68	1 1 1 1	3140 3362 3034 3456 2698	106.5 105.4 97.0 105.7 87.5	19 17 24 22 21	3 2 3 2 3 2	2 3 2 3 2	43344	36 33 27 40 41	13 3 51 10 7
8357 8358 8359 8360 8361	1.9 1.3 1.6 1.4 1.4	12250 9760 11200 9630 12120	7 2 1 3 12	1 1 1 1	38 35 48 39 62	.1 .1 .1 .1 .1	11 4 11 1 12 1 9 1	49880 25670 26440 23090 28040	.1 .1 .1 .1	16 13 12 12 15	854 324 267 217 383	39250 33590 32240 31200 35270	2360 1910 2370 2230 3370	4 2 3 3 4	10000 7040 8350 7110 8670	813 544 586 455 556	4 3 1 1	190 260 300 230 190	1 1 1 1	1350 1300 1300 1160 2140	18 13 10 12 21	1 1 1 1	132 81 94 76 67	1 1 1 1	2300 2364 2643 2079 2031	81.1 67.1 76.5 56.6 66.4	32 21 20 21 31	3 3 3 3 3	1 1 2 1 1	4 3 3 2	42 42 33 36 20	56 2 1 1
8362 8363 8364 8365 8366	1.4 1.2 1.5 1.7 1.7	12020 11710 12790 11360 11500	6 2 1 17 1	1 1 1 1	59 67 60 51 49	.1 .1 .1 .1 .1	10 11 13 11 11 13	30040 32520 29820 46740 34420	.1 .1 .1 .1	15 16 16 16 13	269 135 178 437 182	36610 38480 39250 35440 32660	3540 3290 3750 3200 2490	3 3 3 3 2	8620 8460 9480 7570 6390	570 649 585 660 704	1 2 1 7 2	200 260 240 240 330	1 1 5 1	1860 1550 1660 1520 1120	20 8 8 8 10	1 1 1 1	78 65 76 83 128	1 1 1 1	2150 2413 2784 2395 2896	66.0 53.3 68.1 64.7 75.0	22 22 17 20 21	3 2 2 3 2 3 2	22222	3 2 3 3 3 3	27 27 31 28 36	3 1 2 5 3
8367 8368 8369 8370 8371	1.5 1.6 1.9 2.3 2.0	11660 11890 10940 17400 14560	1 6 1 1	1 1 1 1	53 100 51 67 70	.1 .1 .1 .1 .1	14 2 9 2 11 3 16 2 13 2	24350 28190 30360 26460 26400	.1 .1 .1 .1	12 11 16 21 19	123 282 546 713 398	33930 28760 35120 46480 41860	2270 4230 2990 2850 3090	2 3 2 4 3	6380 6260 5440 11850 8820	580 761 619 620 549	4 30 25 1 2	380 230 260 310 320	1 1 1 1	1050 1110 1280 2590 2170	16 59 50 12 78	1 1 1 1	135 87 108 119 115	2 2 1 1 1	2993 1864 2509 3676 3173	84.3 52.6 64.8 112.6 93.0	33 283 33 39 52	3 4 2 2 2	2 1 2 3	3 2 3 3 3	36 28 36 27 23	1 19 21 9 1050
8372 8373 8374 8375 8376	1.8 1.7 1.1 .8 .6	10450 10730 6640 6210 6910	5 7 6 1	1 1 1 1	55 28 35 24 43	.1 .1 .1 .1	12 2 12 2 9 1 9 1	24680 23310 17720 14290 15820	.1 .1 .1 .1	14 17 20 17 19	443 383 312 169 166	32210 32290 33810 32430 36790	2940 1480 1490 1070 1470	2 2 1 1	6840 9350 5500 5200 5690	482 517 316 299 302	30 11 13 2 1	320 300 370 350 5100	1 14 20 19 15	1380 1270 1260 1260 1240	10 18 18 18 32	1 1 1 1	70 62 40 29 31	1 1 1 1	2652 2585 2055 1907 1844	70.5 69.8 55.5 49.1 45.6	29 70 47 43 30	2 2 1 1	2 2 1 1	3 4 3 2 2	35 43 41 35 37	8 16 17 3 2
8377 8378 8379 8380 8381	1.2 1.7 1.4 1.7 1.6	6540 9200 11490 11450 11210	21 22 24 23 17	12 7 8 6 4	39 38 36 47 59	.1 .1 .1 .1	968	20020 54790 29670 26100 24480	.1 .1 .1 .1	23 16 18 17 13	175 200 488 390 252	36260 34200 38960 35470 29680	1220 1640 1430 1860 1860	3 3 6 4 4	6060 8800 12300 11290 10490	338 753 724 545 520	8 5 10 9 6	1310 1610 970 1000 360	19 18 12 8 5	1280 1270 1280 1230 1340	15 28 16 21 18	1 1 1 1	39 50 58 64 59	1 1 1 1 1	1829 1924 1183 1697 1616	49.4 51.4 43.9 47.5 42.3	18 42 37 40 40	2 3 3 4 4	2 2 1 1	3 4 3 4 3 3	47 55 53 59 58	2 4 2 6 11
8382 8383 8384 8385 8386	1.5 1.5 1.5 2.5 1.6	10600 10650 11950 4930 7340	15 10 30 24 24	44543	118 119 178 101 158	.1 .1 .1 .1 .2	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	29060 29380 33150 50400 51550	.1 .1 .1 .1 4.9	11 8 14 12 9	59 59 122 185 76	24920 20570 30920 26750 24610	3090 3400 4270 3620 4010	4 3 4 2 1	7230 5320 6720 940 3300	872 1002 748 856 618	4 1 5 13 3	200 1310 1010 860 1410	2 1 11 4 1	1130 970 1360 1270 1200	9 18 12 19 16	1 1 1 1	100 84 94 158 95	1 1 1 1	1178 1159 650 1048 682	27.3 21.3 32.5 12.9 23.5	32 51 28 20 266	4 4 4 3 3	1 1 1 1	2 2 3 2 2	33 38 57 43 35	8 57 13 7 3
8387 8388 8389 8390 8390 8391	2.3 2.1 1.6 .9 1.1	10460 11590 10010 5110 6770	27 15 19 18 17	43333	67 51 68 91 94	.1 .1 .1 .1	87756	25950 24050 25710 30880 32650	.1 .1 .1 .1	16 13 12 7 9	285 334 251 27 28	30680 28650 28950 19890 23120	2730 1750 2130 2940 3080	5 3 3 2 2	7640 10350 7910 1530 3110	518 613 619 551 711	7 8 8 1 2	350 1680 2500 1070 1370	13 13 4 1	1610 1410 1360 1090 1140	12 14 23 9 24	1 1 1	72 59 60 87 81	1 1 1	1658 1316 1286 674 825	49.6 46.5 39.1 13.3 15.3	140 90 83 11 18	3 4 5 3 4	2 1 1 1	3 3 3 2 2	44 54 45 32 38	16 62 10 5 4
8392 8393 8394 8395 8396	2.5 1.7 1.7 1.4 2.2	19220 16180 15990 8010 10160	13 14 21 14 11	3 3 4 3 3	41 53 62 61 86	.1 .1 .1 .1 .1	11 5 12 2 10 3 8 2 11 3	2930 25620 35910 25530 32560	.1 .1 .1 .1 .1	24 26 25 11 14	345 251 260 182 188	46980 49290 48440 29100 36620	1440 1980 2390 2430 3450	6 5 5 2 2	20270 15750 15100 5500 5440	1281 830 1055 568 735	17 3 8 4 2	380 380 1830 1890 1400	26 19 17 1	1050 1180 1240 1250 1560	9 9 15 16 19	1 1 1 1	86 63 79 81 116	1 1 1 1	2241 2507 2270 1513 2447	89.2 78.5 73.6 36.4 50.7	195 40 39 33 48	3 3 3 3 4	1 2 2 1 2	5 4 4 3 3	87 77 59 46 44	9 4 14 43 3
8397 8398 8399 8400 8401	2.4 5.0 2.9 1.6 1.4	6440 7140 6850 7110 7240	11 13 13 12 18	23222	89 125 100 95 107	.1 .1 .1 .1	10 8 6 6 5	50300 52480 27160 25810 41620	.1 33.0 .2 .1	10 11 9 9 10	427 781 608 217 290	26300 28180 21820 23830 27080	3260 4290 3450 3010 3030	2 2 1 1 2	2000 1610 2580 3520 3280	526 568 555 553 635	2 2 1 2 2	2740 1340 1230 1290 1180	1 1 1 1	1220 1350 1100 1070 1180	21 72 22 13 20	1 1 1	96 108 89 81 111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2213 1874 1085 1069 796	32.8 26.0 18.3 18.7 20.2	33 1203 107 22 28	2 1 3 3 3	2 1 1 1	33222	59 55 35 47 43	2 37 1 2 15
8402 8403 8404 8405 8406	1.2 1.1 1.0 .6 7	9500 6660 5730 4080 5230	17 16 22 74 22	2 2 1 2 1	93 101 57 102 60	.1 .1 .1 .1 .1	5442	28930 30560 27150 33900 28830	.1 .1 .1 .1	9 8 7 7 7	223 129 142 89 43	26350 23620 21730 22370 22750	2360 2060 1910 1820 1790	22222	6720 4390 4030 3780 3690	786 721 630 628 556	2 2 2 2	1430 1380 250 180 230	1 1 1 1	1090 1070 1080 1110 1050	16 18 12 13 14	1 1 1 1	90 98 106 189 147	1 1 1 1	969 693 534 37 296	28.5 16.8 13.3 8.2 9.5	37 84 67 35 23	4 3 3 3 2	1 1 1 1	3 2 2 1	61 29 44 27 44	3 1 4 2 1

## MIN-EN LABS - ICP REPORT

FILE NO: 18-0334-RJ5

DATE: 91/08/13

ATTN: P.LOUGHEED

PROJ: OP & PUP P.O. KGGPU

(604)980-5814 OR (604)988-4524

					* 1	ROCK	*	(ACT:F31)
I	ΤI	۷	ZN	GA	SN	Ŵ	CR	AU-FIRE
L	DDM	DDM	DDM	DDM	DDM	DOM	DDM	000

SAMPLE NUMBER	AG AL PPM PPN	AS PPM	B PPM	BA PPM	BE PPM	BI ( PPM PF	A CD M PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO	NA PPM	N I PPM	P PPM	PB PPM	S8 PPM Pi	SR 1 Pm pi	TH 1 PM PF	FI Pm Pf	V : PM PI	ZN ( Pm Pf	GA S PM Pi	SN PM Pi	W C PM PP	R AU- M	FIRE PPB
8407 8408 8409 8410 8411	.6 5910 .5 3810 .3 4140 .4 6330 .2 6170	36 55 33 17 9	20 11 6 4 3	78 73 61 65 66	.2 .3 .1 .2 .1	2 2667 2 2745 2 3271 2 3359 1 3308	0 .1 0 .1 0 .1 0 .1 0 .1	8 7 7 6 7	81 76 52 51 16	25470 22860 23100 22660 22540	2050 2180 2190 2110 2280	94 34 23 35 24	160 060 790 780 110	524 495 642 707 700	42221	220 210 230 220 240	1 1 1 1	1010 930 1090 <b>990</b> 1100	17 16 12 13 11	1 1 2 1 1 2 1 2 1 2	57 87 56 91 69	42222	21 11. 27 8. 24 8. 27 10. 27 10.	23395	41 40 41 48 33	1 1 2 2 2	1 1 1 1	1 2 2 4 1 2 1 3 1 2	8 1 6 0 7	5 3 1 2 1
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 • IN
 VANCOUVER OFFICE:

 • OBSIGN OF ASSAYERS CORP.
 705 WEST 15TH STREET

 • DVISION OF ASSAYERS CORP.
 NORTH VANCOUVER B.C. CANADA V7M 1T2

 • SPECIALISTS IN MINERAL ENVIRONMENTS
 SMITHERS LAB::

 • OF ASSAYERS • ANALYSTS • GEOCHEME IS
 SMITHERS LAB::

 • SPECIALISTS IN MINERAL ENVIRONMENTS
 SMITHERS LAB::

 • OF ASSAYERS • ANALYSTS • GEOCHEME IS
 SMITHERS B.C. CANADA VOU 2NO

 • DELEPHONE (604) 847-3004
 FAX (604) 847-3004

 • FAX (604) 847-3005
 FAX (604) 847-3005

 • DELEPHONE (604) 847-3005
 IS-0334-RA1

 • DEQUITY ENGRG./CON.GOLDWEST RES.
 Date: AUG-13-91

 • OF & FUP P.O. KGGPU
 Copy 1. CONSOLIDATED GOLDWEST, VANCOUVER, B.C.

 • LOUGHEED
 2. EQUITY ENGRG., C/O MIN-EN LABS.

He hereby certify the following Assay of 1 ROCK samples submitted AUG-06-91 by D.CAULFIELD.

Company:

Project:

Attn:

and the second second

1. 1. A. 1. 1.

Sample	AU	AU	
Number	g/tonne	oz/ton	
8371	1.26	.037	

Certified by____

MIN-EN LABORATORIES

APPENDIX E

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### STATEMENT OF EXPENDITURES

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OP AND PUP CLAIMS (July 10 - August 5, 1991) PROFESSIONAL FEES AND WAGES: L.J.J. uays @ \$400/day \$ 550.00 David Caulfield, F.G.A.C. 5.625 days @ \$400/day Henry Awmack, P. Eng. Ann Doyle, Geologist 0.375 days @ \$350/day 131.25 Stewart Harris, Project Geologist 12.975 days @ \$400/day 5,190.00 David Hicks, Prospector 6.5 days @ \$300/day 1,950.00 Bruno Kasper, Geologist 0.5 days @ \$300/day 150.00 Donald McInnes, Project Manager 6.875 days @ \$300/day _____2,062.50 \$ 12,283.75 MOBILIZATION AND SUPPORT COSTS: Pro rata according to mandays on each of several properties operated out of 7,953.70 the Galore Creek/Porcupine River Camps CHEMICAL ANALYSES: Rock Geochemical Analyses \$ 480.00 30 @ \$16.00 each Core Geochemical Analyses 211 @ \$16.00 each 3,376.00 8 50 8.50 Assays 3,864.50 EQUIPMENT RENTAL: Core Splitter 10 days @ \$5/day \$ 50.00 4x4 Truck 80.00 1 day @ \$80/day 4x4 Truck Standby 1.8 days @ \$10/day 18.00 Handheld Radios 16.75 mandays @ \$5/day 83.75 Porcupine Camp 47.375 mandays @ \$125/day _____5,921.88

6,153.63

EXPENSES:		
Aircraft Charters	\$ 2,740.31	
Automotive Fuel 💡	14.53	
Courier and Telefax	64.84	
Drafting	37.50	
Drilling	28,565.77	
Expediting	72.80	
Freight	320.39	
Fuel	616.92	
Helicopter Charters	12,755.98	
Materials and Supplies	97.29	
Printing and Reproductions	428.32	
Telephone Distance Charges	70.66	
		\$4
OVERHEAD CHARGE @ 5%		
		\$7

REPORT (estimated)

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45,785.31

<u>2,482.49</u> 78,523.38

<u>4,000.00</u> <u>\$82,523.38</u> APPENDIX F

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## STATEMENTS OF QUALIFICATIONS

#### STATEMENT OF QUALIFICATIONS

I, A. STEWART HARRIS, of 13319 67 B Avenue, Surrey, in the Province of British Columbia, DO HEREBY CERTIFY:

- THAT I am a Consulting Geologist with offices at Suite 207, 675 West Hastings Street, Vancouver, British Columbia.
- 2. THAT I am a graduate of the University of British Columbia with a Bachelor of Science degree in Geology.
- 3. THAT my primary employment since June, 1987 has been in the field of mineral exploration.
- 4. THAT this report is based on fieldwork carried out by personnel of Equity Engineering Ltd. in July 1991 under my direction.
- 5. THAT I have no interest, directly or indirectly, in the property or securities of Consolidated Goldwest Resources Ltd., nor do I expect to acquire such interest.
- 6. THAT I consent to the use by Consolidated Goldwest Resources Ltd. of this report in a Statement of Material Facts or any such document as may be required by the Vancouver Stock Exchange or the Office of the Superintendent of Brokers.

DATED at Vancouver, British Columbia, this  $12^{12}$  day of 5277, 1991.

a. Stewart Hamis A. Stewart Harris, Geologist

#### STATEMENT OF QUALIFICATIONS

I, DAVID A. CAULFIELD, of 3142 Gambier Street, Coquitlam, in the Province of British Columbia, DO HEREBY CERTIFY:

- THAT I am a Consulting Geologist with offices at Suite 207, 675 West Hastings Street, Vancouver, British Columbia.
- 2. THAT I am a graduate of the University of British Columbia with a Bachelor of Science degree in Geology.
- THAT I am a Fellow of the Geological Association of Canada.
- 4. THAT this report is based on fieldwork carried out by myself and personnel of Equity Engineering Ltd. in July, 1991, government publications and assessment reports filed with the Province of British Columbia. I have examined the property in the field and I have extensive experience in the Galore Creek district.
- 5. THAT I consent to the use by Consolidated Goldwest Resources Ltd. of this report in a Statement of Material Facts or any such document as may be required by the Vancouver Stock Exchange or the Office of the Superintendent of Brokers.

DATED at Vancouver, British Columbia, this  $13^{44}$  day of <u>September</u>, 1991.

s٥ A. Caulfield f\i/e] A.C. .G. FELLON

![](_page_68_Figure_0.jpeg)

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MS     sericite     PO     pyrtheite     PY     pyrite       02     guartz     SI     Silica       SYMBOLS       Rock outcrop       6     Geological boundary (defined, approximate, inferred)       75, 90, X, Y     Bedding with dip (horizontal, inclined, vertical, overturned, dip unknown)       55, 90, Y     Foliation with dip (inclined, vertical, dip unknown)       56, 90, Y     Foliation with dip (inclined, vertical, unknown) and true width in metres       60,20 (02) (02)     Vain with dip (inclined, vertical, unknown) and true width in metres       61, X     Rock sample (float, grab from outcrop)       1     Diamond drill hole       1     A, X       Solution with dip (inclined, vertical, unknown) and true width in metres       A vicipit As(pps)       A solution dip (inclined, vertical, unknown)       A vicipit As(pps)       A solution dip (inclined, vertical, unknown)       A solution dip (inclined, vertical, dip (inclined, vertical, unknown) <td co<="" td=""><td>1</td><td>AZ a CP o GL o</td><td>azurite chalcopyr galena</td><td>ite</td><td>CA EP MC</td><td>calcite epidote malachite</td><td></td><td>CL C GE C MG</td><td>chlorite goethite magnetite</td></td>	<td>1</td> <td>AZ a CP o GL o</td> <td>azurite chalcopyr galena</td> <td>ite</td> <td>CA EP MC</td> <td>calcite epidote malachite</td> <td></td> <td>CL C GE C MG</td> <td>chlorite goethite magnetite</td>	1	AZ a CP o GL o	azurite chalcopyr galena	ite	CA EP MC	calcite epidote malachite		CL C GE C MG	chlorite goethite magnetite
SYMEDIS         Rock outcrop         Geological boundary (defined, approximate, inferred)         Fault with dip (approximate, inferred)         Fault with dip (inclined, vertical, dip unknown)         Solution with dip (inclined, vertical, dip unknown)         Solution with dip (inclined, vertical, unknown) and true with in metres         Operation with dip (inclined, vertical, unknown) and true with in metres         A, ×       Rock sample (float, grab from outcrop)         Diamond drill hole         A wigebb Nacy Exposes         Suppose To the pain outcome to the second to	1	MS s QZ c	sericite quartz		PO SI	pyrrhotit	e	PY F	oyrite	
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![](_page_69_Figure_0.jpeg)

![](_page_70_Figure_0.jpeg)

CA	calcite	CL	chlorite	CP	chal
EP	epidote	KF	K-feldspar	MS	seri
PO	pyrrhotite	PY	pyrite	SI	sili