LOG NO: 0417 RD.
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GEOLOGICAL AND GEOCHEMICAL REPORT
ON THE
GINNY AND CUDS CLAIMS

Located in the Galore Creek Area
Liard Mining Division
NTS 104B/13E
104G/4E
56° 59' North Latitude
131° 36' West Longitude

-prepared for-
PASS LAKE RESOURCES LTD.

-prepared by-
Bruno Kasper

March, 1990

GEOLOGICAL AND GEOCHEMICAL REPORT ON THE GINNY AND CUDS CLAIMS

TABLE OF CONTENTS

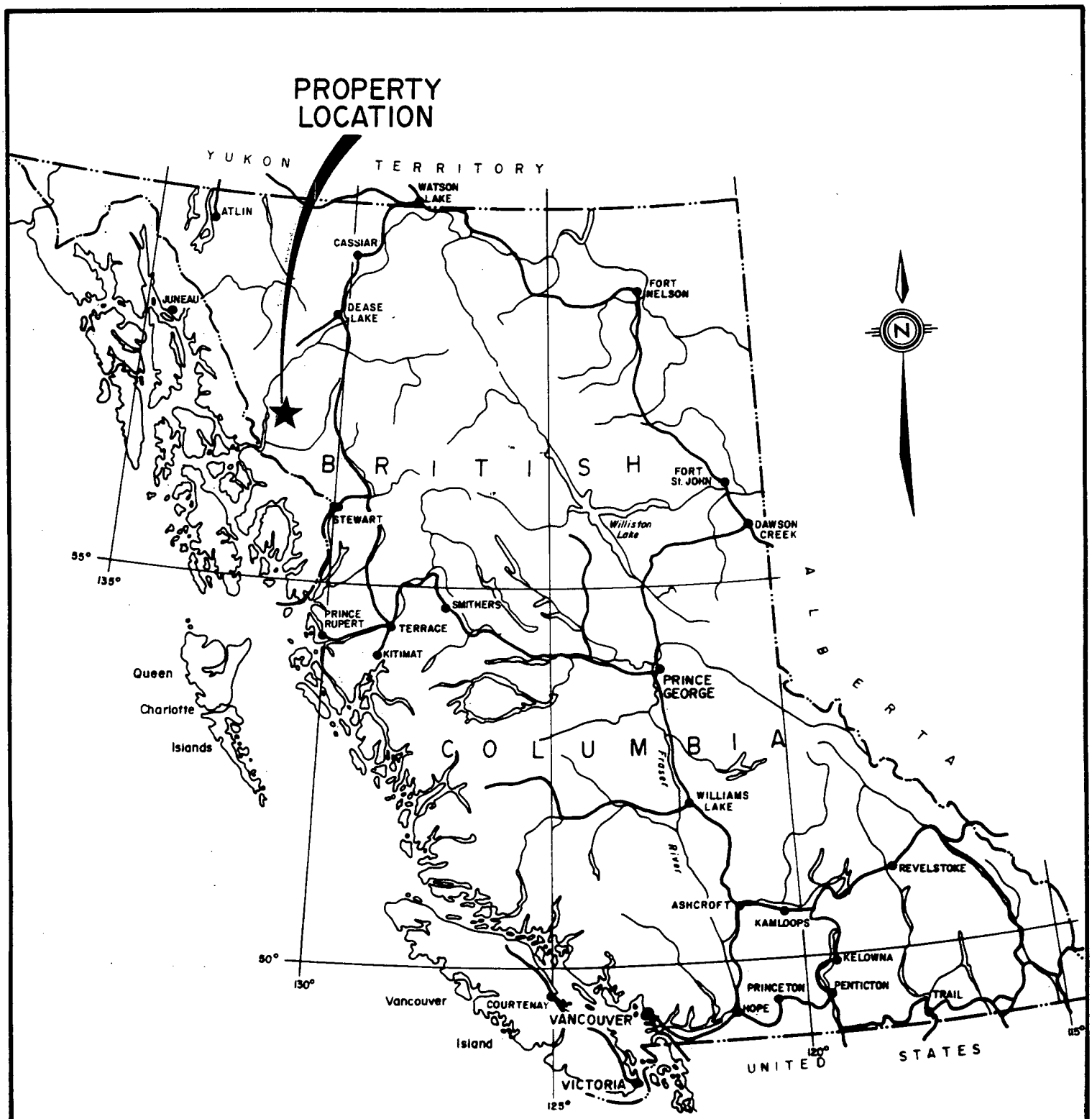
1.0 INTRODUCTION

The Ginny and Cuds claims, consisting of the Ginny 1 to 8 and Cuds 1 to 8 claims, were staked in March 1989 to cover favourable geology south of the Porcupine River, approximately 155 kilometers northwest of Stewart in northwestern British Columbia (Figure 1). The geological similarity to the Iskut River, Sulphurets and Stewart mining camps to the south, and the discovery in 1987 and 1988 of several major precious metals occurrences elsewhere in the Galore Creek district, has sparked renewed exploration interest throughout the area.

Reconnaissance exploration, consisting of geological mapping, prospecting and geochemical sampling, was carried out over the Ginny and Cuds property during September of 1989. Equity Engineering Ltd. conducted this program for Pass Lake Resources Ltd. and has been retained to report on the results of the fieldwork.

2.0 LIST OF CLAIMS

Records of the British Columbia Ministry of Energy, Mines and Petroleum Resources indicate that the Ginny 1-8 and Cuds 1-8 claims (Figure 2), which comprise the Ginny West, Ginny East, Cuds West and Cuds East claim groups, are owned by Pass Lake Resources Ltd.. Claim data for the Ginny and Cuds property is summarized in Table 2.0.1.



PASS LAKE RESOURCES LTD.

CUDS & GINNY PROJECT
LOCATION MAP

BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

DRAWN: J.W.	MINING DIV. LIARD	FIGURE
N.T.S.: 104B/13E, G/3E	SCALE: AS SHOWN	1
DATE: MARCH, 1990	REVISED:	

TABLE 2.0.1
CLAIM DATA

Ginny West Claim Group

Claim Name	Record Number	No. of Units	Record Date	Expiry Year
Ginny 1	5847	20	March 2, 1989	1991*
Ginny 2	5848	20	March 2, 1989	1991*
Ginny 3	5839	20	March 2, 1989	1991*
Ginny 4	5840	20	March 2, 1989	1991*
		80		

Ginny East Claim Group

Claim Name	Record Number	No. of Units	Record Date	Expiry Year
Ginny 5	5841	20	March 2, 1989	1991*
Ginny 6	5842	20	March 2, 1989	1991*
Ginny 7	5843	20	March 2, 1989	1991*
Ginny 8	5844	20	March 2, 1989	1991*
		80		

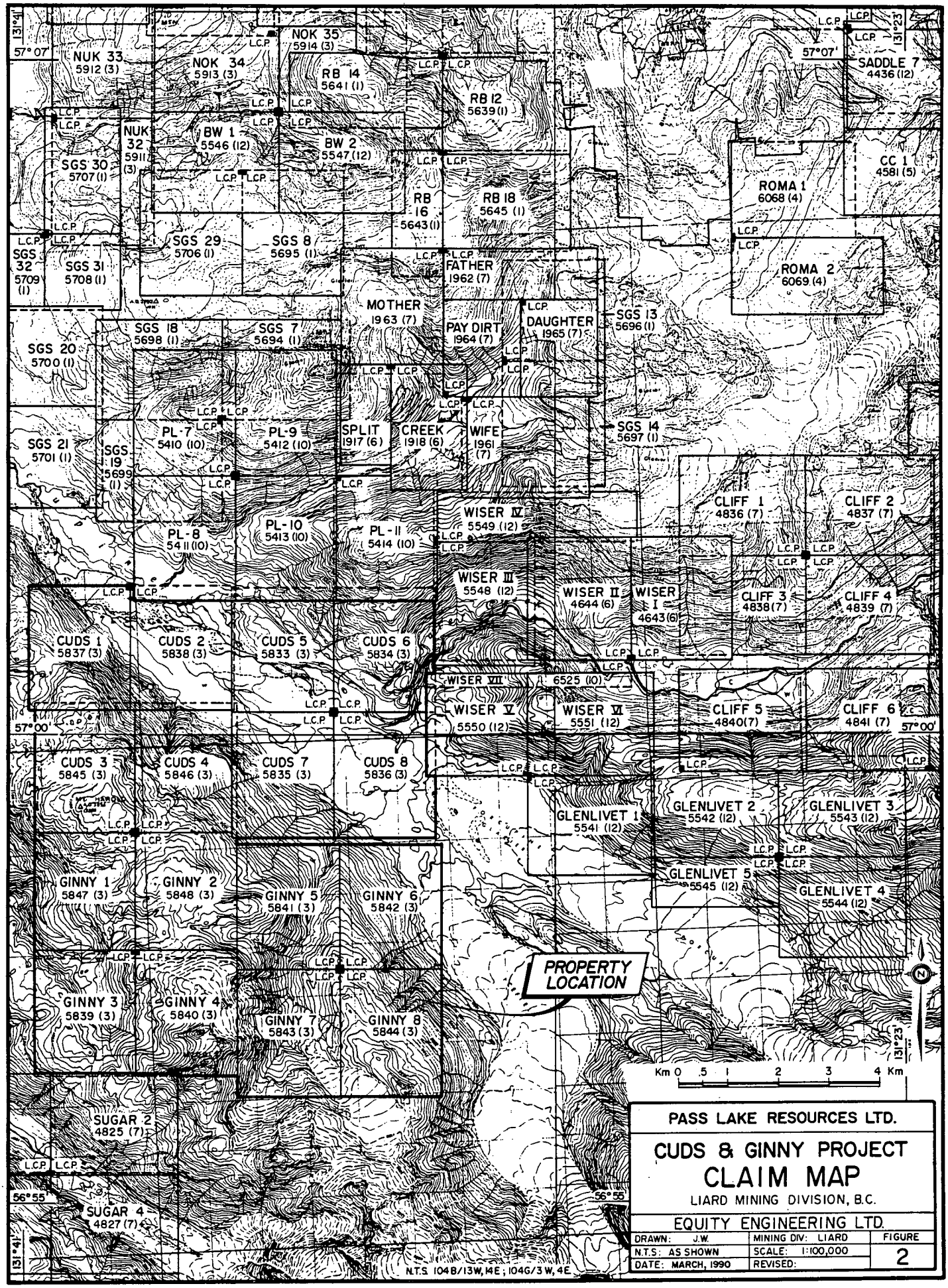
Cuds West Claim Group

Claim Name	Record Number	No. of Units	Record Date	Expiry Year
Cuds 1	5837	20	March 2, 1989	1991*
Cuds 2	5838	20	March 2, 1989	1991*
Cuds 3	5845	20	March 2, 1989	1991*
Cuds 4	5846	20	March 2, 1989	1991*
		80		

Cuds East Claim Group

Claim Name	Record Number	No. of Units	Record Date	Expiry Year
Cuds 5	5833	20	March 2, 1989	1991*
Cuds 6	5834	20	March 2, 1989	1991*
Cuds 7	5835	20	March 2, 1989	1991*
Cuds 8	5836	20	March 2, 1989	1991*
		80		

* Subject to approval of assessment work filed on February 28, 1990



N.T.S. 104B/13W, 14E ; 104G/3W, 4E.

PASS LAKE RESOURCES LTD.

CUDS & GINNY PROJECT
CLAIM MAP

LIARD MINING DIVISION, B.C.

EQUITY ENGINEERING LTD.

DRAWN: J.W.	MINING DIV: LIARD	FIGURE
N.T.S: AS SHOWN	SCALE: 1:100,000	2
DATE: MARCH, 1990	REVISED:	

The claims overlap previously staked ground of the PL 8, 10 and 11 claims to the north and the Wiser III and V claims to the east, reducing the actual ground coverage of the claim groups from 320 units to approximately 316 units. The positions of the legal corner posts for Ginny 1 to 4 and Cuds 3 and 4 claims have been verified by the author, while the locations of the other legal corner posts have yet to be confirmed.

3.0 LOCATION, ACCESS AND GEOGRAPHY

The Ginny 1-8 and Cuds 1-8 claims are located within the Coast Range Mountains approximately 160 kilometers northwest of Stewart and 100 kilometers south of Telegraph Creek in northwestern British Columbia (Figure 1). These claims lie within the Liard Mining Division, centered at 56° 59' north latitude and 131° 36' west longitude.

Access to the Ginny and Cuds property during the 1989 field season was provided by fly camp setouts with helicopter support from the Galore Creek airstrip, which is located fourteen kilometers to the north-northeast of the Cuds 6 claim. During the field season, fixed-wing aircraft up to the size of a Turbo Otter, fly charters to the Galore Creek airstrip directly from Smithers or via the Bronson airstrip; this airstrip is located approximately fifty kilometers to the southeast. The Galore Creek airstrip is 425 meters in length, limiting the size of aircraft that can safely land there. The Scud River airstrip, located 32 kilometers north-northwest of the Ginny and Cuds claims, is suitable for DC-3 aircraft.

The Porcupine airstrip, located on the south side of the Porcupine River near the common legal corner post for the Cuds 5 to 8 claims, has not been used since the 1960's. Examination of

the Porcupine airstrip in 1989 found approximately 350 meters, a distance suitable for a single Otter, to be in good shape. The remainder of the 670 meter airstrip could be used after repairing a minor wash near it's middle. The Porcupine airstrip has excellent open approaches from both ends, which would greatly reduce hazardous approaches during poor weather conditions.

On the Alaskan side of the border, Wrangell lies approximately 80 kilometers to the southwest, and provides a full range of services and supplies, including a major commercial airport. The Stikine River has been navigated by 100-ton barges upriver as far as Telegraph Creek in the past, allowing economical transportation of heavy machinery and fuel to the confluence of the Porcupine and Stikine Rivers, located approximately six kilometers northwest of the property. In the 1960's, Julian Mining Co. Ltd. had constructed a cat road from the Porcupine airstrip up Split Creek to their Sue copper porphyry prospect.

The Ginny and Cuds claims straddle the Porcupine River from six kilometers above its confluence with the Stikine River, to the river's headwaters east of Middle Mountain. The Cuds 1 to 2 and 5 to 8 claims straddle the lower Porcupine River flood plain downstream from the Porcupine Glacier, while the Ginny 5 to 8 claims cover the Porcupine's upper drainage and the northern ridge of a low lying peak (termed Red Peak in this report) to the east. The Cuds 3 and 4 plus Ginny 1 to 4 claims cover Mount Harold and the headwaters of Andismiin Creek. Topography is rugged, typical of mountainous and glaciated terrain, with elevations ranging from 115 meters on the Porcupine River floodplain to over 1870 meters on a peak of Middle Mountain. Approximately eight units on the Ginny 1 to 8 claims are covered by permanent snowfields and glaciers while approximately 45 units of the Cuds claims cover a thick sequence of fluvial and glacial sediments on the Porcupine River flood plain.

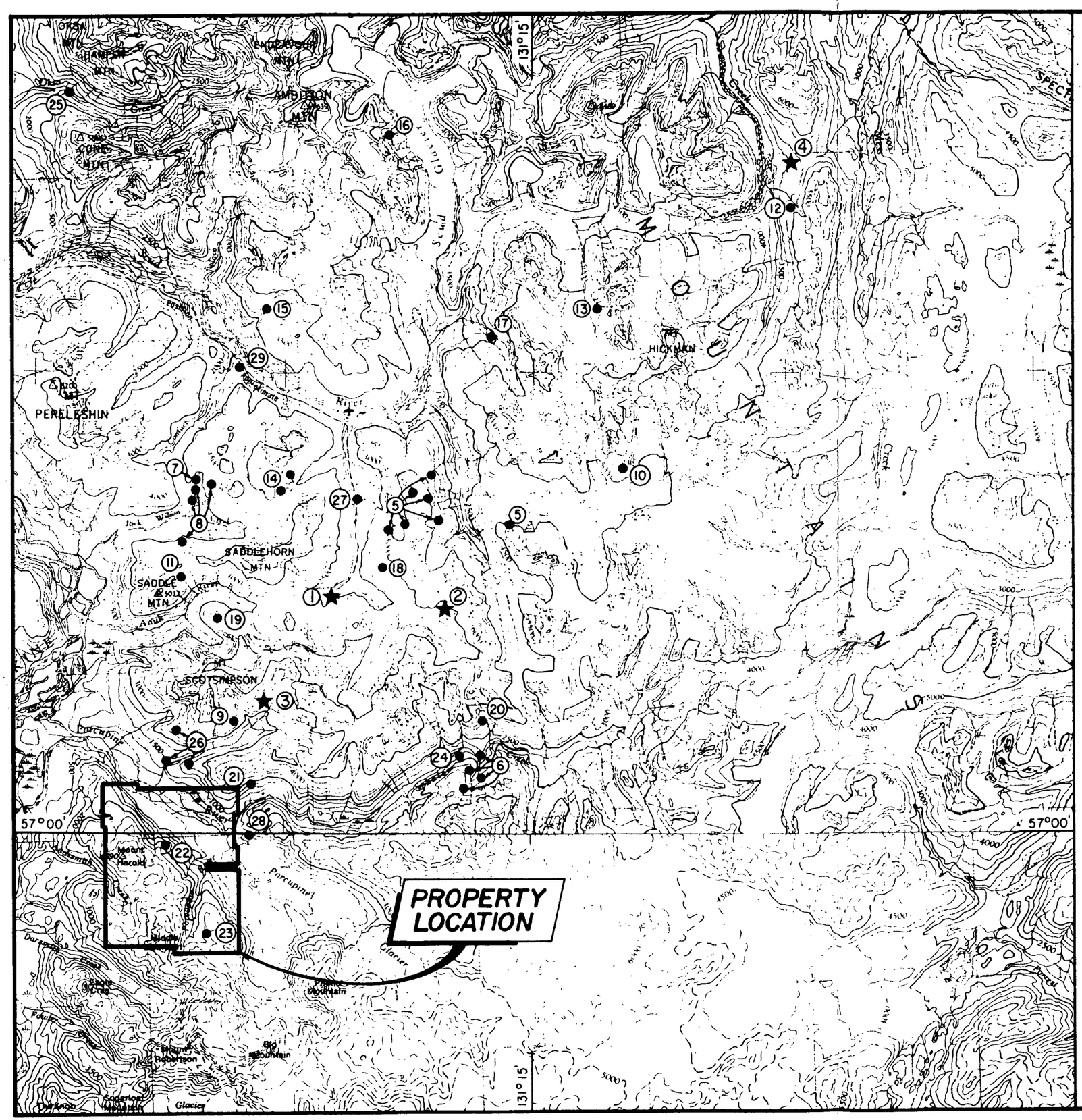
The Ginny and Cuds property lies in the wet belt of the Coast Range Mountains, with annual precipitation between 190 and 380 centimeters (Kerr, 1948). Except during July, August and September, precipitation at higher elevations falls mainly as snow, with accumulations reaching three meters or more. Both 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 fourteen kilometers north-northeast of the Cuds claims. Several major mining companies conducted regional mapping and silt sampling programs over the entire Galore Creek area, and the Copper Canyon copper-gold porphyry, estimated by Grant (1964) to contain 28 million tonnes at a grade of 0.64% copper, was discovered eight kilometers east of the Central Zone in 1957.

In the mid-1950's, prospecting crews for K. J. Springer noted abundant low-grade chalcopyrite mineralization on the north side of Split Creek approximately four kilometers north of the Cuds 6 claim (Figure 3). In 1965, Julian Mining Co. Ltd. conducted geological mapping, induced polarization surveys, bulldozer trenching and 2,190 meters of diamond drilling on these showings, known as the Ann or Sue prospect, intersecting extensive mineralization grading around 0.1% to 0.2% copper. Limited



NAME OF OCCURRENCE		MINERAL RESERVES AND/OR ELEMENTS	
1.	Galore Creek	125,000,000 tonnes	1.06% Cu 0.40 gm/tonne Au 7.70 gm/tonne Ag
2.	Copper Canyon	28,000,000 tonnes	0.64% Cu
3.	Paydirt	185,000 tonnes	4.11 gm/tonne Au
4.	Schaft Creek	330,000,000 tonnes	0.32 gm/tonne Au 1.50 gm/tonne Ag 0.40% Cu 0.036% MoS_2
5.	Trophy	Au, Cu, Pb, Zn, Ag	
6.	Trek	Au, Cu, Pb, Zn, Ag, Mo	
7.	Icy	Au, Cu, Ag	
8.	Jack Wilson	Au, Cu	
9.	Ann/Su	Cu	
10.	Jay	Cu, Au, Ag	
11.	Devil's Club	Cu, Ag, Au	
12.	Hicks	Cu, Mo	
13.	Alberta	Cu	
14.	Pup	Cu, Au, Pb, Zn	
15.	JD	Cu, Au, Pb, Zn	
16.	North Scud	Cu	
17.	Middle Scud	Cu, Ag	
18.	Stikine East	Cu	
19.	Joan, MB	Cu, Au, Ag	
20.	Kim	Cu, Au, Ag	
21.	Wiser	Au, Ag	
22.	Cuds	Au, Ag, Pb, Cu	
23.	Ginny	Au	
24.	Sphal	Cu, Au	
25.	Oksa Creek	Cu, Pb, Zn, Au, Ag	
26.	PL 7-11	Au, Ag, Cu, Zn	
27.	Bik	Cu	
28.	Wiser	Au	
29.	Bell	Au	

● MINERAL OCCURRENCE

★ MINERAL DEPOSIT

Km 0 5 10 15 Km

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REGIONAL MINERAL OCCURRENCE MAP

BRITISH COLUMBIA

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Drawn: J.W.	MINING DIV: LIARD	FIGURE
N.T.S.: 104 B,G	SCALE: AS SHOWN	3
DATE: MARCH, 1990	REVISED:	

bulldozer trenching and diamond drilling was conducted on the south side of Split Creek to test magnetic anomalies (BCDM, 1966). Throughout the 1960's and 1970's, the Sue prospect was evaluated by several other operators for its copper porphyry potential. In 1981, Teck Corp. staked the Sue prospect and conducted a reconnaissance silt sampling program for base and precious metals over the immediate area. Follow-up of geochemical anomalies led to the discovery of the Paydirt gold deposit approximately one kilometer northeast of the center of the Sue copper porphyry deposit. Soil geochemistry, rock sampling, trenching and 760 meters of diamond drilling on the Paydirt deposit delineated 185,000 tonnes of indicated reserves grading 4.11 grams gold per tonne (Holtby, 1985). Longreach Resources Limited initiated underground exploration on the Paydirt deposit in 1987 without conclusive results.

In 1987, several precious metal occurrences were discovered on the Trophy project located approximately 23 kilometers to the northeast of the Cuds claims. Continental Gold Corp., which acquired the Trophy project in 1988, reported trench samples averaging 2.40 grams per tonne (0.07 oz/ton) gold and 164.5 grams per tonne (4.80 oz/ton) silver across 56.4 meters from their Ptarmigan A zone (Continental, 1988a). During the 1988 field season, Continental drilled 2,834 meters in 16 holes, with intersections up to 11.1 meters grading 5.48 grams gold and 30.2 grams silver per tonne (Continental, 1988b).

In 1987, the federal and provincial geological surveys conducted a joint regional silt sampling program, the National Geochemical Reconnaissance Survey, over the entire Telegraph Creek-Sumdum and Iskut River map sheets, taking a total of 1291 and 698 samples, respectively (GSC, 1988a,b). All four silt samples taken from major drainages on the property, contained background values of gold and base metals. No other work has been recorded on the

ground currently covered by the Ginny and Cuds claims.

Elsewhere in the Galore Creek district, several significant precious metals occurrences were discovered on each of the Trek, Icy and Jack Wilson properties during the 1988 field season (Figure 3). In each case, these properties had been explored for copper during the 1960's, but had never received due attention for their gold potential. Further work was carried out on each of these properties during 1989 and reconnaissance mapping, prospecting and geochemical sampling were conducted over an additional 25,000 hectares of the Galore Creek district which had received essentially no previous exploration for precious metals. Several significant gold-silver occurrences were discovered throughout the district, including several zones on the PL 7-11 and Wiser III to V claims, which adjoin the Cuds claims to the north and northeast.

4.2 1989 Work Program

During September of 1989, Pass Lake Resources Ltd. carried out reconnaissance exploration on the Ginny and Cuds claims, consisting of geological mapping, prospecting and stream sediment sampling. This program was targeted at gold-rich mesothermal base metal veins and gossanous areas similar to those occurring elsewhere in the Galore Creek district and within a similar geological environment which stretches south through the Iskut River, Sulphurets and Stewart mining districts.

During the course of this program, 26 field-sieved stream sediment samples, 37 silt samples and 118 rock samples were taken. Field-sieved stream sediment samples were taken from the active parts of major drainages, screened underwater in the field to minus 40 mesh, then dried and ring pulverized to minus 150 mesh in the laboratory before being analyzed geochemically for gold and 32-elements by ICP. Silt samples were taken from the backwaters or

dry beds of other drainages, screened to minus 80 mesh in the laboratory and also analyzed geochemically for gold and 32-elements by ICP. Silt samples with insufficient fines were screened through a minus 35 mesh and then pulverized to minus 150 mesh before being analyzed (Figure 5).

Prospecting and reconnaissance geology were carried out, using a 1:20,000 enlargement of a 1:50,000 topographic map as a base. Field data was later transferred to a 1:10,000 enlargement of the topographic map for the purpose of this report (Figure 5). Rock samples, described in Appendix C, were taken from zones of alteration and mineralization and analyzed geochemically for gold and 32-elements by ICP. Samples with results equivalent to or greater than 1000 parts per billion gold, 100 parts per million silver or above detection limit for the base metals, were assayed for the respective element or elements. Analytical certificates are attached in Appendix D.

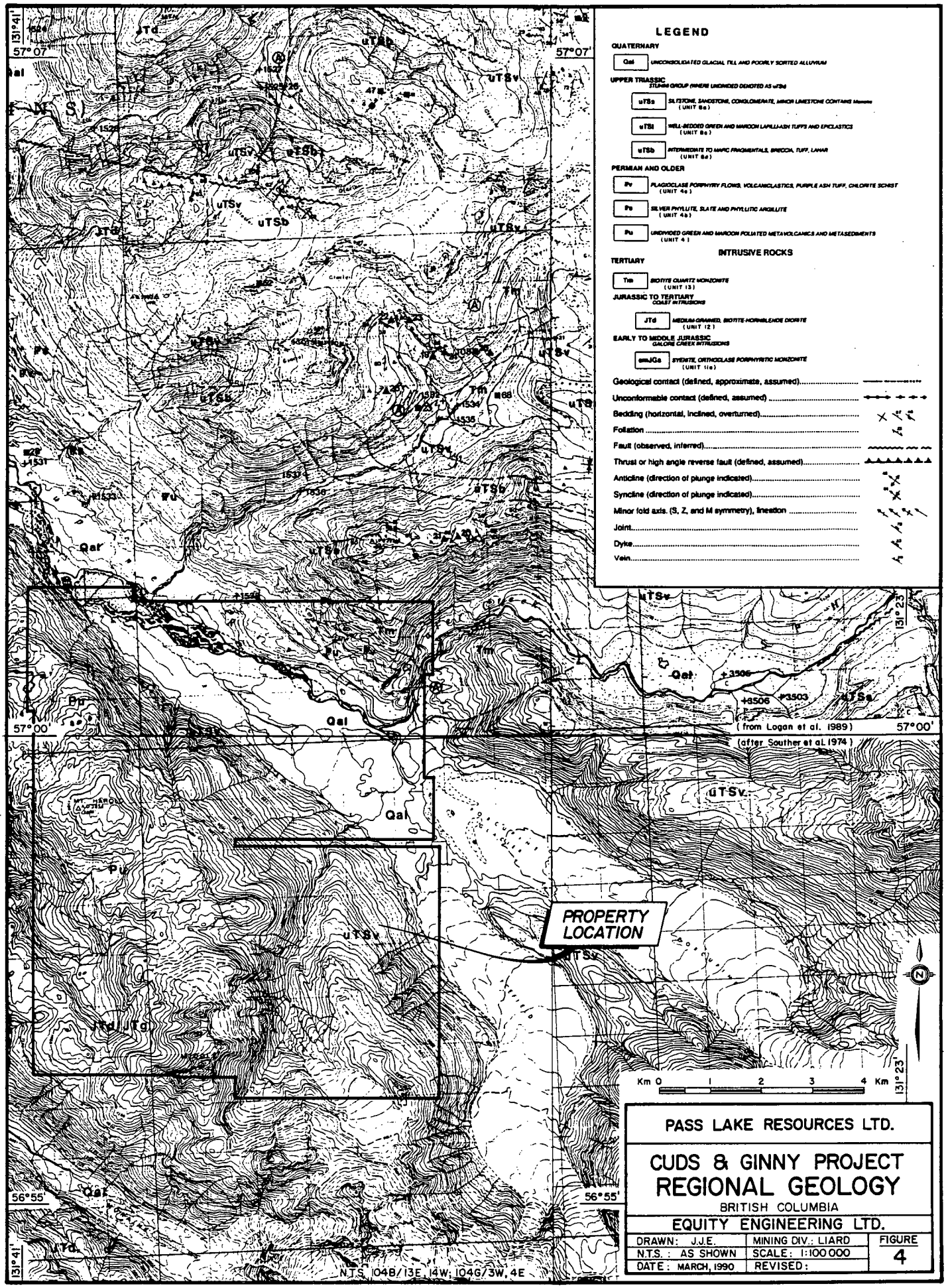
5.0 REGIONAL GEOLOGY

The first geological investigations of the Stikine River in northwestern British Columbia began over a century ago when Russian geologists came to Russian North America assessing the area's mineral potential (Alaskan Geographic Society, 1979, in Brown and Gunning, 1989a), and was followed by the first Geological Survey of Canada foray of G.M. Dawson and R. McConnel in 1887. Several more generations of federal and provincial geologists have been sent to the Stikine, including Kerr (1948), the crew of Operation Stikine (GSC, 1957), Panteleyev (1976), Souther (1972), Souther and Symons (1974), Monger (1977), and Anderson (1989). The British Columbia Geological Survey has recently completed regional mapping of the area at a scale of 1:50,000 by Brown and Gunning (1989a,b), Logan and Koyanagi (1989) and Logan et al (1989).

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 northeast-trending 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., 1979).

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 (Map Units 4a and 4c) with associated clastic sediments and carbonate lenses (Map Unit 4b). These are capped by up to 700 meters of Mississippian limestone with a diverse fossil fauna (Map Unit 4d). 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, 1989). Permian limestones (Map Unit 6), also about 700 meters 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 (Map Unit 7) are overlain by Upper Triassic Stuhini Group siliciclastic (Map Unit 8a) and volcanic (Map Unit 8b, 8c and 8d) 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



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CUDS & GINNY PROJECT
REGIONAL GEOLOGY

BRITISH COLUMBIA

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DRAWN: J.J.E.	MINING DIV.: LIARD	FIGURE 4
N.T.S.: AS SHOWN	SCALE: 1:100 000	
DATE: MARCH, 1990	REVISED:	

center with numerous sub-volcanic plutons of syenitic composition. Jurassic Bowser Basin strata onlap the Stuhini Group strata to the southeast of 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, 1989). 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 (Map Unit 9) and the syenitic porphyries of the Galore Creek Complex (Map Unit 11). Jura-Cretaceous Coast Plutonic Complex intrusions (Map 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 (Map Unit 13), felsic and mafic sills and dykes (Map Unit 14), and biotite lamprophyre (minette) dykes (Map Unit 14).

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; biotite 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 north-striking faults, but locally pre-date them. East-west trending faults are vertical or steeply dipping to the north and have normal-type motion on them (i.e., north-side down), 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 ± molybdenum ± gold deposits, structurally-controlled, epigenetic precious metal vein/shear deposits, skarns and breccia deposits (Figure 3). Porphyry copper deposits of this area include both the alkalic Galore Creek copper-gold and calc-alkalic Schaft Creek copper-molybdenum deposits. Galore Creek, which is associated with syenitic stocks and dikes 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.

The Sue porphyry copper prospect, centered approximately 1,800 meters north of the extreme northwestern corner of the Sphaler Creek property, consists of disseminated pyrite and chalcopyrite in Stuhini Group andesitic tuffs, flows and subvolcanic diorite. Diamond drilling and bulldozer trenching were carried out over an area one kilometer in diameter, with the best hole returning grades in the order of 0.10% to 0.20% copper over its entire 230 meter length (BCDM, 1966). Other porphyry copper occurrences in the Galore Creek area include the Copper Canyon, Bik and Jack Wilson Creek deposits (Figure 3).

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 (less than 2.0 meters) 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 is comprised of 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 most fully explored example of the Tertiary mineralization type is the Paydirt gold deposit, located three kilometers north of the Wiser IV claim, which is a zone of silicification, sericitization and pyritization of andesitic volcaniclastics (Holtby, 1985). The zone, which is exposed on surface over an area of 100 meters by 25

meters, strikes northerly and dips moderately to the west. Gold mineralization occurs preferentially in intensely silicified and heavily pyritic material rather than with more sericitic alteration. The best diamond drill intersections averaged 5.86 grams gold per tonne over 12.0 meters in hole 85-1 and 10.59 grams gold per tonne over 4.95 meters in hole 85-4 (Holtby, 1985).

Skarns represent a minor percentage of the precious metal-bearing occurrences in the Galore Creek camp. The mineralogy of these deposits could be influenced by the composition of the intrusion driving the hydrothermal fluids, in much the same way as described above for the structurally-controlled deposits. If the invading intrusives are alkalic, the skarn assemblage will be 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 precious metal deposits discovered in the Galore Creek camp 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.

6.0 PROPERTY GEOLOGY AND MINERALIZATION

6.1 Property Geology

Geological mapping on the Ginny and Cuds claims has indicated fourteen rock units ranging in age from Mississippian or older to

Tertiary (Figure 5). North of the Porcupine River, Mississippian or older metasedimentary and metavolcanic rocks of the "Stikine Assemblage", are in fault contact with Upper Triassic Stuhini Group volcanic and sedimentary rocks. South of the Porcupine River, the contact between the two rock Groups is unknown with the exception of Camp Creek, where a fault is thought to separate them. Jurassic to Cretaceous stocks of the Coast Plutonic Complex and Tertiary (?) dykes intrude the pre-Permian strata south of the Porcupine River, while Eocene stocks intrude the pre-Jurassic stratigraphy north of the Porcupine River. Greenschist facies metamorphism, consisting of weak to moderate chlorite, calcite and epidote alteration, is pervasive throughout the pre-Tertiary rock units and, in places is overprinted by biotite metasomatism as a result of the emplacement of the intrusive stocks. Faults offsetting all rock units are highlighted by drainage patterns and gullies in the area. Geology in Figure 5 has been modified from Souther et al (1979) and Logan and Koyanagi (1989) by reconnaissance mapping during the current program, and adapted in part from Caulfield and Kasper (1989) and Kasper (1989).

Mississippian and older metasedimentary and metavolcanic rocks (Unit 4) are the dominant rock unit on the property. South of the Porcupine River, these rocks form a broad belt extending southwest from the Porcupine River northwest of Mount Harold, to south of Middle Mountain and Red Peak. Fine-grained siliciclastics (Unit 4b) consisting of interbedded argillites, siltstone, fine grained greywacke and black cherts, were the main rock units encountered. These thinly bedded sediments are moderately foliated and exhibit at least two episodes of folding in most areas. On Red Peak, microcrystalline quartz veinlets and sweats, found within the strongly foliated metasedimentary rocks along foliation planes, are also folded. Locally, limonite blebs and disseminated pyrite give the rocks a characteristic rusty-red appearance. This is especially evident on Red Peak.

Interlayered with the siliciclastics are crystal tuffs and metavolcanics (Unit 4c). The greenish-grey tuffs consist of a crystal hash with crystal fragments up to 2 millimeters in length within an aphanitic groundmass. In places, the groundmass is potassium feldspar altered. The metavolcanic rock contains intermediate volcanic flows with feldspar phenocrysts up to one millimeter in length within a grey, aphanitic matrix. In places, these volcanic rocks were observed in sharp contact with the metasedimentary rocks, exhibiting the same strong deformation. Logan et al (1989) mapped a thick sequence of this unit outcropping along the Porcupine River on the Cuds 1 claim. Logan and Koyanagi (1989) describe this unit as "comprising greenstones and chlorite schists derived from intermediate flows, sills and tuffs at the base, followed by a thick section of purple-green ash lapilli tuff, in turn overlain by plagioclase-phyric flows, sills and volcaniclastics.".

A skarnified limestone (Unit 4d) outcrops southeast of the common legal corner post for the Cuds 3-4 and Ginny 1-2 claims within the metavolcanics. Skarn mineralization consists of epidote and diopside with grossularite garnets up to one centimeter in size.

North of the Porcupine River, Mississippian or older thinly bedded argillites and siltstones (Unit 4b) outcrop along the lower elevations and to the west of Felsic Creek. East of Felsic Creek, Logan et al (1989) indicates the area is underlain by metavolcanics of Unit 4c, while further up slope, a silver phyllite, slate and phyllitic argillite unit (Unit 4e) is exposed. Logan and Koyanagi (1989) believe Unit 4e is stratigraphically older than Units 4b and 4c, therefore indicating that this rock sequence is overturned.

Undivided Upper Triassic Stuhini Group sedimentary and volcanic rocks (Unit 8) have been mapped by Souther et al (1979)

outcropping along the lower slopes on the south side of the Porcupine River, east of Camp Creek. This map unit is subdivided by Caulfield and Kasper (1989) north of the Porcupine River and is thought to be in fault contact with the Mississippian or older strata. The sedimentary rocks (Unit 8a) are "composed of thin bedded, medium to dark grey siltstones, wackes, argillites and carbonaceous argillites" whose bedding strikes west to northwest with a shallow, southwest dip (Caulfield and Kasper, 1989). In fault contact with the sedimentary rocks to the east, a medium to dark green, massive to pyroxene-phyric flow unit (Unit 8b) outcrops.

Jurassic to Cretaceous stocks of the Coast Plutonic Complex intrude the Mississippian or older strata in a broad belt centered along Andismiin Creek. Souther et al (1979) indicates the composition of these stocks to range from a quartz diorite to granodiorite (Unit 12b). Where observed, the diorite was found to be medium-grained with up to 2% magnetite. Quartz monzonitic (Unit 12a) and granitic (Unit 12c) phases were also located within this broad belt. The quartz monzonite forms a prominent north facing escarpment at the toe of Middle Glacier. This greyish-white unit consists of equigranular, medium-grained plagioclase (45%), potassium feldspar (35%) and quartz (20%). The medium-grained granite of Unit 12c outcrops at the headwaters of Andismin Creek and contains xenoliths of dioritic composition. This relationship dates the granitic intrusives as a later stage intrusive event after the emplacement of the larger diorite to granodiorite stocks.

An elliptical, Eocene biotite monzonite to biotite quartz monzonite stock (Unit 13a) has been mapped by Kasper (1989) along Sphaler Creek, north of its confluence with the Porcupine River. Smaller stocks of quartz monzonite to quartz syenite thought to be of similar age were encountered along Felsic Creek to the west. These fine- to coarse-grained stocks differ from the Sphaler Creek

intrusive, in that biotite is not as common. A granophyric texture was visible on the cut surfaces of the quartz syenite intrusive.

Tertiary age (?) dykes intrude the Mississippian or older rock units in a number of localities. Two dioritic dykes (Unit 14a) are in sharp contact with pre-Permian metasediments just west of Camp Creek. The medium grey to black dykes are fine-grained and eguigranular, ranging in width between 2 to 2.5 meters. A black, very fine-grained to aphanitic gabbroic dyke (Unit 14b) intrudes the metasediments north of Red Peak. This dyke is approximately 1.25 meters in true width, recessive weathering and magnetic. A 50 centimeter wide, biotite lamprophyre dyke (Unit 14e) intrudes the metavolcanics further to the northwest of the gabbroic dyke.

Three fault trends, observed or inferred from airphoto interpretation by Caulfield and Kasper (1989) and Kasper (1989), cross the property north of the Porcupine River. The most prominent fault, which is highlighted by the flow direction of Sphaler Creek, trends northeast to southwest, crosscutting all other faults and rock units. South of the Porcupine River, the only fault with a similar trend, was located northwest of Red Peak and is distinguished by a strong graphitic and clay altered zone.

A northwest- west trending fault separates the Mississippian or older strata from the Upper Triassic Stuhini Group north of the Porcupine River, but the nature of this contact to the south is still unknown. Smaller faults with a similar trend, offset the interlayered metavolcanic and metasedimentary rocks west and south of Camp Creek on the Cuds 4 and Ginny 2 claims. A strong quartz and carbonate altered zone accompanies these faults and drag folds were observed adjacent to some of the faults west of Camp Creek.

Camp Creek and the upper drainage of the Porcupine River are thought to be controlled by north-south faults. The rocks adjacent

to the Camp Creek fault are foliated along the direction of this fault. Locally, these faults are also highlighted by gossans with strong quartz and clay alteration. The Deluxe Zone on the Wiser III claims to the north, occurs along a similar northerly trending shear zone.

The pre-Permian stratigraphy south of the Porcupine River has experienced at least two periods of folding. Contorted foliation and bedding within outcrops at the toe of Middle Glacier and along Red Peak, support the presence of at least two fold events. Fold axis lineations from the second fold event were found to gently plunge to the south. Logan and Koyanagi (1989) indicate at least two deformational events for the area around the Porcupine River which correspond with these folds.

6.2 Mineralization

Several precious metal occurrences were discovered during the 1989 field season on the Ginny and Cuds property. Two of these can be considered significant: a strongly altered chlorite-quartz zone outcropping along the north side of Red Glacier and the Duc Zone, a series of narrow quartz veins hosted within a strong silicified and clay altered zone, located between Bud and Camp Creeks. Grab sample #459125, collected from a two meter wide chlorite-quartz altered zone above Red Glacier, assayed 18.55 grams per tonne (0.541 oz/ton) gold with 4.2 parts per million silver and 2420 parts per million copper. This vertical dipping zone strikes 130° and contains up to 20% pyrite with a trace of chalcopyrite. A parallel zone two meters away, returned 280 parts per billion gold and 2420 parts per million copper (grab sample #459126). Numerous other quartz-chlorite veins, with similar orientations and containing greater than 10% pyrite, were also sampled in the surrounding area. These veins contained low gold and copper values up to 80 parts per billion gold and 1030 parts per million copper.

It should also be noted that elevated cobalt values, up to 980 parts per million, were recovered from these samples. These elevated cobalt values may signify cobalt enrichment within the pyrite.

The Duc Zone is a series of quartz veins ranging in width from 5 to 40 centimeters which strike in an east-west or southeast-northwest direction. Sulphide mineralization consists of pyrite, arsenopyrite and pyrrhotite with or without sphalerite, galena, chalcopyrite and molybdenite. The mineralization occurs along hairline fractures within the crackled quartz veins. These veins are hosted within a strong silicified and clay altered zone containing blebs and stringers of pyrite and arsenopyrite and mineralized quartz veinlets. Float sample #459636 collected below the Duc Zone, at the bottom of a talus slope, assayed 5.49 grams per tonne (0.160 oz/ton) gold, 370.3 grams per tonne (10.80 oz/tonne) silver, 2.95% zinc, 1,885 parts per million copper, 4,190 parts per million lead and greater than 10,000 parts per million arsenic. Grab sample #459632, collected from a 20 to 40 centimeter wide quartz vein at the top of the talus slope, returned values of 750 parts per billion gold, 5.8 parts per million silver and greater than 10,000 parts per million arsenic, significantly lower than float sample #459636's results. This vein is exposed within a steep gully for over 20 meters and further sampling will be needed to determine if this vein is the source of the anomalous float. Grab samples of the surrounding wall rock (#459633 to #459635) were also collected, but no significant values were recovered. Another 30 centimeter quartz vein, outcropping 750 meters to the east along the west side of Bud Creek, assayed 4.32 grams per tonne (0.126 oz/ton) gold, 153.3 grams per tonne (4.47 oz/ton) silver, 8480 parts per million lead and 5730 parts per million arsenic (grab sample #172491). Although this vein strikes in a more southeasterly direction, the similarity in mineralogy and trace element geochemistry (ie. antimony, bismuth, cadmium and

tungsten) to the Duc Zone veins, may indicate that these two occurrences are from a single gold-bearing structure. Table 6.2.1 summarizes significant results from the Duc Zone.

TABLE 6.2.1

DUC ZONE: SIGNIFICANT SAMPLING RESULTS

SAMPLE	WIDTH meters	GOLD (ppb)	SILVER (ppm)	LEAD (ppm)	ZINC (ppm)	ARSENIC (ppm)
172488e	float	235	45.0	1480	88	6140
172490e	0.2	220	9.2	90	118	330
172491e	0.3	*4.32	*153.3	8480	854	5730
172496e	0.05	*2.19	81.4	1.29%	3010	235
172499d	0.1	*3.91	26.0	1885	5870	>10000
459628d	float	120	8.4	226	1.40%	7270
459632d	0.2	750	5.8	198	86	>10000
459636d	float	*5.49	*370.3	4190	2.95%	>10000

* denotes assay in grams per tonne

sample locations: d Duc Zone
e East showing from the Duc Zone

A 50 centimeter wide shear zone with disseminated pyrite and chalcopyrite mineralization was sampled in a creek approximately two kilometers east of the Duc Zone (Figure 5). Grab sample #463075 returned 2.95 grams per tonne (0.086 oz/ton) gold and 1.06% copper from a 10 centimeter wide zone of the fault gouge. The fault strikes 150° and dips 60° to the northeast. This measurement was taken from a limited exposure within the creek bank.

Subcrop of strong quartz and chlorite altered metasedimentary rocks, located approximately 1500 meters southeast of the legal corner post for the Ginny 1 and 2 claims, contained up to 2% pyrite and chalcopyrite. Sample #172482 taken of this float assayed 1.51 grams per tonne (0.044 oz/ton) gold and 2890 parts per million copper. This particular zone, as well as other zones containing a similar alteration assemblage, strike in a southwesterly direction. Grab samples collected from these other zones contained

low gold and copper values with maximum values of only 50 parts per billion gold and 347 parts per million copper.

Angular quartz vein float containing minor pyrite was collected at the headwaters of Andismiin Creek on the Ginny 3 claim. Sample #459621 of this float returned an elevated gold value of 225 parts per billion and arsenic value of 135 parts per million. Only a few pieces of this float were found along a creek and its source is believed to be upstream on the northwest slope of Middle Mountain. A 70 centimeter wide shear zone is exposed for 50 meters along a tributary of Andismiin Creek approximately 400 meters downstream from the quartz float. The shear zone contains a 10 centimeter wide quartz vein with up to 10% bleby pyrite. Although samples (#463067 to #463069) taken from the quartz vein or the surrounding altered rock contained elevated copper values up to 7830 parts per million, gold values were low.

Numerous occurrences of altered metasedimentary rocks containing disseminated pyrite or pyrite stringers and blebs, were sampled throughout the property. While these samples did not contain significant precious metal values, some returned anomalous base metal values such as float sample #459617 (1295 ppm zinc) and float sample #463088 (3900 ppm copper). Whereas the source for sample #459617 was not found, the source of sample #463088 is believed to be an area of malachite staining observed on an escarpment above the float sample location, just north of Mount Harold.

7.0 GEOCHEMISTRY

Four silt samples were taken from streams which drain the Ginny and Cuds property during the course of regional geochemical sampling conducted by the federal government surveys (GSC, 1988a,b)

(Figure 5). While all four samples contained elevated values of gold with a high of 11 parts per billion, none of the samples can be considered anomalous (ie. >90th percentile) when compared statistically with all samples taken from the Iskut River map sheet. These samples also contained background levels of silver and base metal values.

During the course of the 1989 exploration program, 26 field-sieved stream sediment samples and 37 stream silt samples were taken from drainages on the Ginny and Cuds claims (Figure 5). The silt samples are directly comparable to the government results listed in Figure 5, and anomalous results can be defined in the same way. Field-sieved stream sediment samples, whose geochemical values have been variably enhanced during the sieving process, cannot be directly compared to the silt samples.

Two silt samples exceeded the 90th percentile in gold for the government survey (GSC, 1988a) with silt sample #459648 being extremely anomalous with 3660 parts per billion gold. Silt sample #459648 was also anomalous in arsenic (145 ppm) and lead (30 ppm) while the other anomalous silt sample, #459649, contained 145 parts per billion gold and 50 parts per million arsenic. Both samples came from parallel drainages approximately 100 meters apart and located 400 meters east of the Ginny 3 and 4 legal corner post. The drainage covers an area underlain by Mississippian or older metasedimentary and metavolcanic rocks. The source of these anomalies has yet to be found, although gossanous areas were observed upstream.

An elevated gold value of 50 parts per billion was recovered from field-screened stream sediment sample #459475 at the headwaters of the Porcupine River, just east of Middle Mountain. The source of the gold anomaly is not known.

Two drainage areas were anomalous in copper, zinc and arsenic. Silt samples #459467 to #459671, taken from streams draining the eastern exposure of a ridge north of Red Peak and above the South Porcupine Glacier, returned values up to 151 parts per million copper, 232 parts per million zinc and 70 parts per million arsenic. Each of these elements are greater than the government 90th percentile for the respective elements. These streams drain Upper Triassic Stuhini Group strata. The second area drains undivided Mississippian or older strata located on the Cuds 1 claim. Field-screened stream sediment sample #459492 contained elevated copper, zinc and arsenic values of 145, 128, and 275 parts per million, respectively, while silt samples #459494 and #459495 returned anomalous copper (120 and 139 ppm) and arsenic (85 and 130 ppm) values greater than the government 90th percentile for copper and 95th percentile for arsenic. Prospecting or geological mapping has yet to be done within the two areas, but a gossanous outcrop was noted above the South Porcupine Glacier.

Anomalous arsenic values were recovered from several other streams on the Ginny and Cuds property. Silt sample #172489 contained 110 parts per million arsenic from Bud Creek, reflecting the high arsenic content of the auriferous samples taken upstream. Camp Creek, located west of the Duc Zone, returned elevated arsenic (195 ppm) and copper (142 ppm) (field-screened sample #463413). It is expected that mineralization similar to that of the Duc Zone is the source of the high values. Elevated molybdenum values were recovered from streams draining the Eocene quartz monzonite intrusives on the Cuds 5 and 6 claims. These values reflect molybdenite mineralization found within these intrusives during this field program and by Caulfield and Kasper (1989).

8.0 DISCUSSION AND CONCLUSIONS

The Ginny and Cuds claims are still at an early stage of exploration; however, the preliminary data are very encouraging. The 1989 program was very successful in outlining four areas of gold-bearing mineralization: Red Peak, Duc Zone, float found on the Ginny 2 claim and an unnamed creek just west of the Porcupine River. Each area is distinctive in the type of associated sulphide minerals and host rocks. Stream geochemistry also outlined four areas thought to reflect precious and base metal mineralization.

Mississippian or older metasedimentary and metavolcanic rocks on Red Peak host a two meter wide chlorite-quartz altered zone overlooking Red Glacier. A grab sample of this zone assaying 18.55 grams per tonne (0.541 oz/ton) gold, contained up to 20% pyrite with a trace of chalcopyrite. Samples collected from similar alteration zones and parallel trending quartz-chlorite veins in the same area returned low gold and copper values.

Quartz-chlorite altered float, within metasedimentary rocks 1500 meters southeast of the Ginny 1-2 legal corner post, assayed 1.51 grams per tonne (0.044 oz/ton) gold. Although other alteration and shear zones were sampled in the area, none contained anomalous gold values. Anomalous silt samples of 145 and 3660 parts per billion gold, were taken from parallel streams 1500 meters southeast of the auriferous float. To date, the sources of the gold-bearing float or the high stream geochemistry have not been found. The potential of these pre-Permian-hosted occurrences is not clear as most of the exploration in the Galore Creek area has been directed at Upper Triassic Stuhini Group rock units.

The Duc Zone is hosted within Upper Triassic Stuhini Group sedimentary and volcanic rocks between Bud and Camp Creeks, on the south side of the Porcupine River. This silicified and clay

altered zone contains a number of narrow, gold-bearing quartz-sulphide veins. Float and grab samples of these veins contained gold values up to 5.49 grams per tonne gold (0.160 oz/ton) with significant silver and base metal values. Approximately 750 meters to the east, a similar quartz-sulphide vein outcropping by Bud Creek assayed 4.32 grams per tonne (0.126 oz/ton) with significant silver and base metal results, indicating a possible eastward extension of the Duc Zone.

A narrow auriferous shear zone was found 2 kilometers east of the Duc Zone. A 10 centimeter grab from this pyritic shear returned 2.95 grams per tonne (0.086 oz/ton) gold. This shear is also located within undivided Upper Triassic Stuhini Group strata.

Stream geochemistry has outlined potential precious and base metal mineralization through two distinct geochemical signatures: single element gold anomalies and areas of anomalous copper-zinc-arsenic. To date, the source or significance of these anomalies has yet to be determined.

The Ginny and Cuds property has demonstrated favourable underlying geology and alteration, similar to that hosting other precious metals occurrences in the Galore Creek district. The discovery of gold-bearing occurrences and highly encouraging stream geochemical results from the property, coupled with the exploration successes achieved throughout Galore Creek in the past year, provide abundant incentive to conduct further exploration work on the Ginny and Cuds claims.

Respectfully submitted,
EQUITY ENGINEERING LTD.

Bruno Kasper, Geologist

Vancouver, B.C.
March, 1990

APPENDIX A

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BIBLIOGRAPHY

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APPENDIX B

STATEMENTS OF EXPENDITURES

STATEMENT OF EXPENDITURES
Ginny West Claim Group

PROFESSIONAL FEES AND WAGES:		
Bruno Kasper, Geologist		
3 days @ $350/day	1,050.00	
Tom Bell, Prospector		
2.5 days @ $250/day	625.00	
Ray Cournoyer, Prospector		
1.5 days @ $250/day	375.00	
Ian Anderson, Sampler		
2 days @ $175/day	350.00	
		$ 2,400.00
JOINT MOBILIZATION, SUPERVISION AND SUPPORT COSTS:		
Prorated in accordance with number of mandays worked on each of several claim groups in the Galore Creek area		3,471.98
CHEMICAL ANALYSES:		
Silt Samples		
26 @ $15.05	$ 391.30	
Rock Geochemical Samples		
26 @ $16.45	427.70	
Assays	8.12	
		827.12
EXPENSES:		
Camp Rental	$ 146.96	
Radio Rental	22.05	
Geochemical Supplies	12.71	
Materials and Supplies	35.11	
Printing and Reproductions	28.93	
Camp Food	230.41	
Accommodation	211.26	
Helicopter Charters	1,042.74	
Freight	57.48	
Expediting	24.80	
		1,812.45
REPORT PREPARATION:		
(Estimated)		1,000.00
MANAGEMENT FEE:		336.24
		$ 9,847.79

STATEMENT OF EXPENDITURES
Ginny East Claim Group

PROFESSIONAL FEES AND WAGES:		
Bruno Kasper, Geologist		
2 days @ $350/day	$ 700.00	
Tom Bell, Prospector		
2 days @ $250/day	500.00	
David Ridley, Prospector		
2 days @ $250/day	500.00	
Ian Anderson, Sampler		
2 days @ $175/day	350.00	
		$ 2,050.00
JOINT MOBILIZATION, SUPERVISION AND SUPPORT COSTS:		
Prorated in accordance with number of mandays worked on each of several claim groups in the Galore Creek area		3,085.90
CHEMICAL ANALYSES:		
Silt Samples		
14 @ $15.05	$ 210.70	
Rock Geochemical Samples		
41 @ $16.45	674.45	
Assays	8.12	
		893.27
EXPENSES:		
Camp Rental	$ 130.64	
Radio Rental	19.60	
Geochemical Supplies	13.45	
Materials and Supplies	31.21	
Printing and Reproductions	25.75	
Camp Food	204.83	
Accommodation	187.80	
Helicopter Charters	926.24	
Freight	51.10	
Expediting	22.05	
		1,612.67
REPORT PREPARATION:		
(Estimated)		1,000.00
MANAGEMENT FEE:		298.90
		$ 8,940.74

STATEMENT OF EXPENDITURES
Cuds West Claim Group

PROFESSIONAL FEES AND WAGES:		
Bruno Kasper, Geologist		
1.5 days @ $350/day	$ 525.00	
Tom Bell, Prospector		
1.5 days @ $250/day	375.00	
David Ridley, Prospector		
1 days @ $250/day	250.00	
Ray Cournoyer, Prospector		
2 days @ $250/day	500.00	
Ian Anderson, Sampler		
3 days @ $175/day	525.00	
		$ 2,175.00
JOINT MOBILIZATION, SUPERVISION AND SUPPORT COSTS:		
Prorated in accordance with number of mandays worked on each of several claim groups in the Galore Creek area		3,471.98
CHEMICAL ANALYSES:		
Silt Samples		
9 @ $15.05	$ 135.45	
Rock Samples		
29 @ $16.45	477.05	
Assays	24.36	
		636.86
EXPENSES:		
Camp Rental	$ 146.96	
Radio Rental	22.05	
Geochemical Supplies	9.29	
Materials and Supplies	35.11	
Printing and Reproductions	28.93	
Camp Food	230.41	
Accommodation	211.26	
Helicopter Charters	1,042.74	
Freight	57.48	
Expediting	24.80	
		1,809.03
REPORT PREPARATION:		
(Estimated)		1,000.00
MANAGEMENT FEE:		336.24
		$ 9,429.11

STATEMENT OF EXPENDITURES
Cuds East Claim Group

PROFESSIONAL FEES AND WAGES:		
Bruno Kasper, Geologist		
1.5 days @ $350/day	$ 525.00	
Tom Bell, Prospector		
2 days @ $250/day	500.00	
David Ridley, Prospector		
1.5 days @ $250/day	375.00	
Ian Anderson, Sampler		
1 days @ $175/day	175.00	
		$ 1,575.00
JOINT MOBILIZATION, SUPERVISION AND SUPPORT COSTS:		
Prorated in accordance with number of mandays worked on each of several claim groups in the Galore Creek area		2,315.82
CHEMICAL ANALYSES:		
Silt Samples		
14 @ $15.05	$ 210.70	
Rock Samples		
22 @ $16.45	361.90	
Assays	48.72	
		621.32
EXPENSES:		
Camp Rental	$ 97.92	
Radio Rental	14.69	
Geochemical Supplies	8.80	
Materials and Supplies	23.39	
Printing and Reproductions	19.27	
Camp Food	153.53	
Accommodation	140.76	
Helicopter Charters	694.78	
Freight	38.38	
Expediting	16.52	
		1,208.04
REPORT PREPARATION:		
(Estimated)		1,000.00
MANAGEMENT FEE:		224.06
		$ 6,944.24

APPENDIX C

ROCK DESCRIPTIONS

Description Abbreviations:

AS	Arsenopyrite	KF	Potassium Feldspar
AZ	Azurite	LI	Limonite
BI	Biotite	MC	Malachite
CA	Calcite	MG	Magnetite
CB	Carbonate	MO	Molybdenite
CL	Chlorite	MS	Sericite
CP	Chalcopyrite	MU	Muscovite
CY	Clay	PR	Pyrrhotite
DO	Dolomite	PY	Pyrite
EP	Epidote	QZ	Quartz
FE	Iron	SI	Silica
GL	Galena	SP	Sphalerite

EQUITY ENGINEERING LTD.

Geochemical Data Sheet - ROCK SAMPLING

NTS 104G/4E 104B/13E

Sampler Tom Bell | Project PHJ89-08 | Location Ref Porcupine Glacier

Date Sept. 17-19, 1989 | Property GINNY 1-8 & CLODS 1-8 | Air Photo No

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width / True Width	DESCRIPTION: Rock Type	Alteration	Mineralization	ADDITIONAL OBSERVATIONS	ASSAYS: Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
172456	6318[illegible]N 342[illegible]E	Grab o/c	10.0m / ?	CL shist?	QZ > CA	PY (1%) CP (TR)	Elev. 970m - zone runs for 50m in o/c - zone orientation strike 170° dip 65°SW	15	<0.2	94	<2	70	<5
172457	631386N 343000E	"	20.0m / 2.0m	"	"	PY (diss) >> CP HE, SP (2%)	taken 50 m south of 172456 zone orientation strike 160 dip 75°SW	10		159		38	<5
458	631580N 343000E	"	2.0m / 20.0m?	"	QZ	PY >> CP, HE, SP? (5%)	Elev. 960m, schist highly fractured zone strikes 160° dips 50°SW	<5		88		76	10
459	631370N 342940E	Float	— / —	"	QZ	PY > CP (1-2%)	- source not found, but, local due to abundance of float	<5		263		98	30
460	631380N 342980E	Grab o/c	2.0m / 25.0m?	"	QZ	PY (<2%)	Elev. 960m, highly fractured zone strikes 160° dips 50°SW	10		81		48	5
461	631390N 342930E	"	10.0m / 10m?	"	QZ	PY (<2%)	Elev. 975m, possible shear? zone strikes 010° dip vertical	<5		79		76	15
462	631398ON 342930E	"	5.0m / 0.5m	Shear?	QZ > CL, CA	PY (1%)	Elev. 970m, zone strikes 125° exposed for 10m, dip 45°NE	<5		13		26	15
463	631400ON 342910E	"	0.5m / 0.5m	"	CL > CA	PY (<1%)	Elev. 970m, zone strikes 030° dip vertical	5		6		10	20
464	631410N 342710E	"	2.0m / 2.0m	Shear?	CB	(diss) PY (2-3%)	Zone adjoins 1m gabbroic? dyke - possible alteration zone?	30		8		56	70
							Zone strikes 140° dips 70° SW Elev. 850m						
466	631345ON 342750E	Grab o/c	100m ? / 20.0-25.0m	Schistose Banded Sed?	QZ, CL > CA	PY, HE (1%)	Banding trends 140°, vertical dip Elev. 1100m	<5		24		38	40
							spotty mineralization, diss. when present						
467	631870ON 340570E	Grab o/c	10.0m / ?	Sed. rx.	CB, QZ	diss PY (1-2%)	Elev. 1070m - exposed for 10m in a creek bank, orientation?	5		47		122	<5
468	631874ON 340700E	Grab o/c	2.0m / 2.0m?	Sed. rx	CB	diss PY (<2%)	Elev. 1075m - zone trends 155°	<5		35		74	30
469	631875ON 340820E	Grab Sub o/c	0.2m / ?	"	CL	PY, PR, LI Products (<5%)	Elev. 1095m - mineralization is diss. or in fine stringers	80		162		56	20
470	631870ON 340840E	Float	— / —	QZ vein	QZ > CY	PY (<1%)	Elev. 1100m - source found, see 459471	<5	↓	99		76	<5
471	631880N 340870E	Grab o/c	2.0m / 0.15-0.2m	"	QZ > MS?	PY (5%)	Elev. 1100m zone // to gulley within, zone oriented strike 115° dip 60°SW - exposed along gulley wall	10	0.8	175	↓	152	<5

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EQUITY ENGINEERING LTD.

Geochemical Data Sheet - ROCK SAMPLING

104BG/4E
NTS 104B/13E

Sampler Tom Bell
Date Sept. 19 - 21, 1989

Project PLJ89-08
Property GINNY 1-8 + CLIDS 1-8

Location Ref Porcupine Glacier
Air Photo No

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width / True Width	DESCRIPTION: Rock Type	DESCRIPTION: Alteration	DESCRIPTION: Mineralization	ADDITIONAL OBSERVATIONS	*oz/ton ASSAYS: Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
172472	6317940N 341720E	Grab o/c	10.0m / 3.0-4.0m?	QZ vein	QZ>CL	PY, ↓ products (<1%)	Elev. 1020m vein strikes 150° dips 50°NE	<5	0.2	56	<2	28	<5
							vein exposed for 15.0m in o/c Spotty mineralization associated w/ alt'n						
473	6316510N 339820E	Grab o/c	3.0m / 1.0m	QZ vein	QZ>CL	PY diss (1-2%)	Elev. 1140m strongly folded QZ veins + stringers	<5	<0.2	38	<2	72	5
							-exposed for 15.0-20.0m.						
474	6316975N 340490E	Grab o/c	10.0m / ?	QZ vein ?	QZ	PY (<1%)	Elev. 1325m, fracture filling mineralization; exposed over a large area (20m high by 50 m across) orientation ?	<5	<0.2	8	4	8	<5
475	6316980N 340460E	Grab o/c	10.0m / ?	"	QZ	PY (<1%)	-same as 454474	<5	0.2	9	6	8	<5
476	6317140N 340925E	Grab o/c	2.0m / 3.0-4.0m?	QZ rich Dyke?	QZ	PY (<1%)	Elev. 1325m, exposed for 5.0m in o/c orientation ?	<5	<0.2	10	<2	12	<5
477	6317610N 341110E	Grab o/c	3.0m / 20.0m ?	Banded Sed. rx.	QZ	PY (1%)	Elev. 1307m, zone strikes 140° dips 60°SW PY stringers + fg. euhedral crystals	10	<0.2	86	6	16	5
							parallel w/ banding.						
478	6317570N 341180E	Grab o/c	5.0m / 20.0m ?	Schistose rx.	QZ, CL	PY (5%)	Elev. 1340m, same zone as 454477 -follows a lineament w/ trend 120°	10	<0.2	168	<2	30	20
							-found on side of the lineament						
479	6317575N 341220E	Grab o/c	1.0m / 1.0m?	Banded Sed. rx.	QZ	PY (5-10%)	Elev. 1330m. -ppl of mineralization within the banded sed. rx.	45	1.0	113	48	10	5
							banded seds. strike 140° dip 90° -pod has radius of 1.0m						
480	6317610N 341200E	Grab o/c	0.5m / 0.5m	Shear Zone?	QZ>CL	PY (<2%)	Elev. 1330m zone strikes 140° dips 90° visible for 5.0m in o/c	50	0.2	347	<2	16	40
							-fracture filling mineralization						
481	6317550N 341250E	Grab o/c	1.0m / 0.25m	Fracture Zone ?	QZ>>CL	PY (<2%)	Elev. 1330m, zone exposed for 5.0m zone strikes 160° dip 60°SW	<5	<0.2	90	<2	24	10
482	6317600N 341250E	sub o/c? Float?	2.0m / ?	Intrusive?	QZ>CL	PY≥CP (<2%)	Elev. 1330m ; o/c ? in talus slope orientation ?	*0.044	2.8	2890	<2	84	180
483	6317310N 341120E	Grab o/c	0.1-0.15m	Banded Sed.	QZ>CL	PY (≥10%)	Elev. 1330m, alt'n zone on edge of 3.0m wide QZ veins which strikes 030° dip 90°	35	<0.2	220	<2	30	15

EQUITY ENGINEERING LTD.

Geochemical Data Sheet - ROCK SAMPLING

NTS 104G/14E 104B/13E

Sampler Tom Bell | Project PJ89-08 | Location Ref Porcupine Glacier

Date Sept. 21-24, 1989 | Property GIDDY 1-8 + CUDS 1-8 | Air Photo No

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width / True Width	DESCRIPTION: Rock Type	Alteration	Mineralization	ADDITIONAL OBSERVATIONS	* oz/ton ASSAYS: Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
172484	6317375N 341125E	Grab o/c	0.5m / 1.0m	Schistose Rx.	QZ>CL	PY (2%)	Elev. 1330m, exposed for ≈20m zone trends 150°, possibly v. altered	<5	0.4	159	4	16	<5
							banded sed. rx.						
485	6319475N 342550E	Float	— / —	QZ vein	QZ	GL, SP, PY (<2%)	Elev. 170m, probable source found?	135	33.8	53	5700	4600	<5
486	6319425N 342525E	"	— / —	Banded Sed?	QZ	PY (2%)	Elev. 210m - schistose altered?	30	<0.2	8	10	98	5
487	6319415N 342480E	"	— / —	Sed rx?	Strong CY slight CA	PY stringers (<1%)	Elev. 220m - source not found.	<5	<0.2	201	16	130	15
488	6319400N 342410E	"	— / —	QZ vein	QZ	PY>AS, GL CP (2-3%)	Elev. 295m - float is very abundant for 100m along the creek	235	45.0	47	1480	88	6140
490	6319410N 342275E	Grab o/c	2.0m / 0.2m	QZ vein	QZ	PY>PR (1-2%)	Elev. 390m, vein exposed for 2.0m vein strikes 100° dips 45°SW	220	9.2	291	90	118	330
							- vein found in banded sed. rx? - blebby to spotty mineralization						
491	6319380N 342290E	Grab o/c	3.0m / 0.3m	"	QZ	PY>AS>GL,SP (10-15%)	Elev. 380m, mineralization found in large stringers + clusters	* 0.126	* 4.47	64	8480	854	5730
							vein strikes 150° dip 35°NE - exposed for 5.0m						
492	6319425N 342300E	Grab sub o/c	1.0m / ?	QZ vein?	QZ>CB	PY>AS? (1-2%)	Elev. 380m, may be extension of 172491, moss covered boulder	160	6.6	20	378	82	190
493	6319400N 342225E	Float?	— / —	"	QZ	PY>>MG>AS? (≈30%)	Elev. 405m, very local float - found within tree roots	130	5.6	773	130	62	600
494	6319375N 342175E	Grab o/c	3.0m / ?	Sed. rx.	QZ	PY>GA, SP (5%)	Elev. 430m, shattered rock w/ QZ veinlets, mineralization	70	1.8	84	260	232	170
							associated w/ QZ, orientation?						
495	6319015N 342015E	Grab o/c	1.0m / 0.1m	QZ vein	QZ, minor CL	GA≥PY>SP (5%)	Elev. 490m, vein strikes 165° dips 65°NE	55	17.8	66	4780	572	280
							- exposed for 3.0m under tree roots						
496	6319500N 341680E	Grab o/c	1.0m / 0.05m-0.1m	"	QZ	PY>GL (5%)	Elev. 615m, vein orientation strike 170° dips 45°NE, mineralization	* 0.064	21.4	166	1.29%	3010	235
							infilling large vugs.						
497	6319675N 341600E	Grab o/c	0.5m / 0.2m	Shear zone?	CY>CL,QZ	MnO2, PY (3-5%)	Elev. 620m, alteration zone extends pass shear zone, zone strike 020° dip 60°SW	25	1.2	219	118	76	35

EQUITY ENGINEERING LTD.

Geochemical Data Sheet - ROCK SAMPLING

1046/4E
NTS 104B/13E

Sampler Tom Bell
Date Sept. 24, 1989

Project PLJ89-08
Property GIANT 1-8 + CLUB 1-8

Location Ref Porcupine Glacier
Air Photo No

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width / True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	* oz/ton ASSAYS					
				Rock Type	Alteration	Mineralization		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
172498	6319750N 341525E	Grab o/c	1.0m / 0.1-0.15m	Qz vein	Qz	PY>>GL, AS? (5%)	Elev. 610m, vein strikes 090° dip 70°N -vein exposed for 1.0m, mineralization appears to infill secondary? fractures in vein	178	66.0	284	434	46	1295
499	6319775N 341500E	Grab o/c	1.0m / 0.1-0.15m	Qz vein	Qz	PY≥AS>GL (5-7%)	Elev. 610m, vein strikes 100° dip 50°SW -vein exposed for 2.0m, mineralization occurs as blebs or large stringers	* 0.114	26.8	315	1885	5873	[illegible]

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Geochemical Data Sheet - ROCK SAMPLING

104G/4E
NTS 104B/13E

Sampler Ray Cournoyer
Date Sept. 17 - 18, 1989

Project PLJ89-08
Property GINNY 1-8 & CUDS 1-8

Location Ref Porcupine Glacier
Air Photo No

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width / True Width	DESCRIPTION: Rock Type	DESCRIPTION: Alteration	DESCRIPTION: Mineralization	ADDITIONAL OBSERVATIONS	ASSAYS: Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
								* oz/ton					
459120	6313150 N 344800 E	Grab o/c	0.1m / ?	Interbedded mudst/siltst	Q2, CY	PY (tr.)	- PY infilling fractures - no orientation distinguished	90	1.0	61	46	132	170
121	6313050 N 344800 E	"	0.1m / 2-4cm?	"	Q2 > CA	Covelite? (tr.)	vein orientation strike 160° dip vertical	20	0.4	119	16	44	120
122	6313190 N 344710 E	"	0.5m / 1.0m?	Mudstone → Schist?	minor Q2 CL	PY (1%)	disseminated mineralization: possible foliation? orientation: strike 158° dip vertical	<5	0.4	52	14	86	320
123	6313250 N 344670 E	"	/ 0.2m?	Mudstone/ Siltstone	Q2	PY (<1%)	- siliceous gossan - gossan orientation: strike 140° dip vertical - PY mineralization associated w/ Q2	10	0.8	524	16	32	45
124	6313320 N 344670 E	"	0.2m / ?	"	Q2, CA	PY (2%)	- PY mineralization // to bedding - bedding orientation strike 148° dip vertical	<5	0.4	130	<2	54	25
125	6313350N 344550 E	"	2.0m / 2.0m	"	Q2, CL	PY (<20%) CP (tr.), SP?	- CL altered zone w/ minor Q2 - zone orientation strike 130° dip vertical	* 0.541	4.2	687	40	62	30
126	6313350N 344550 E	"	0.5m / 2.0m	"	CL > Q2	PY (<20%) CP(tr.), SP?	- same as 459125 except another zone 2.0 m away	340	2.0	2420	14	32	70
127	6313600 N 344300 E	"	0.15m / 0.4m	"	Q2 >> CL	PY (≈30%)	- 10 cm band of massive PY within Q2 vein, located within CL altered zone - vein orientation: strike 152°, dip vertical	60	<0.2	135	<2	-	10
128	6313670 N 344280 E	"	0.2m / 0.4m	"	Q2 >> CL	PY (<15%)	same zone as 459127 but 10m away	60	0.4	367	<2	12	15
129	6313790 N 344230 E	"	0.1m / 0.15-1.0m	"	Q2 >> CL	PY (10%)	- PY more disseminated within Q2 vein vein orientation: strike 164° dip Vertical	75	0.6	1030		34	20
130	6313930N 344320 E	"	0.1m / 2.0m	Chert?	Q2	PY (2%)	- PY found within fractures - zone orientation: strike 176° dip Vertical	135	0.6	77			<5
131	"	"	0.25m / 0.25m	CL schist?	Q2	PY (<10%)	PY stringers & blebs Elev. 1250m zone strikes 360° dip vertical	5	0.2	292		24	10
132	"	"	0.3m / 0.25m	"	Q2	PY (1-2%)	Q2 vein, Elev. 1250m vein strikes 360° dip vertical	<5	0.6	150		30	35
133	"	"	0.1m / 0.1m	"	Q2 sweats?	PY (<2%)	Elev 1280m, PY stringers associated w/ Q2 banding, zone strikes 110° dip vertical	<5	0.4	362	↓	14	10

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Geochemical Data Sheet - ROCK SAMPLING

NTS 104G/14E 104B/13E

Sampler Ray Cournoyer
Date Sept. 18 -19, 1989

Project PLJ89-08
Property GINNY 1-8 & CUDS 1-8

Location Ref Porcupine Glacier
Air Photo No

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width / True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Rock Type	Alteration	Mineralization		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
459134	6315730N 344320E	Grab c/c	0.1m / 1.0m	CL porphyry intrusive	CL, CA?	diss PY (<2%)	Elev. 1280m, CL phenos probably altered HBL?, no distinct orientation	10	<0.2	18	42	30	30
135	6318600N 340300E	"	0.1m / 0.10m	Argillite? w/Chert?	QZ?	PY (Tr.)	Banding oriented strike 030° Elev. 1175m dip Vertical	<5	1.2	332	42	18	<5

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Geochemical Data Sheet - ROCK SAMPLING

NTS 1046/4E 1043/13E

Sampler BRUNO KASPER | Project PLJ 89-08 | Location Ref Porcupine Glacier

Date SEPT. 17-18, 1989 | Property CUDS 1-8 + GINNY 1-8 | Air Photo No

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width / True Width	DESCRIPTION: Rock Type	DESCRIPTION: Alteration	DESCRIPTION: Mineralization	ADDITIONAL OBSERVATIONS	ASSAYS: Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
459449	6313340N 344615E	Grab o/c	5.0m / ≈10m?	Interbedded Mudst/Siltst.?	Mod CY Weak CB	LI (JAR, GEO) PY (<1%)	Elev. 1350m ASL, paddy mineralization, mineralization // w/ sediment laminae strike 161° dip 82° NE	<5	<0.2	44	<2	76	<5
450	6313235N 344720E	"	1.0m / ≈10m?	"	Qz + CL (weak to mod)	PY, LI (JAR, GEO) MnO_2 (<2%)	Elev. 1380m ASL, PY occurs as either fine blebs or diss., mineralization is	<5	0.6	114	<2	78	<5
							streaky + appears to have preferred horizons, Qz vein (possibly zone) strike 178° dip 70°W						
459601	6313220N 344700E	Grab o/c	0.5m / 0.1m	Qz vein	strong Qz > CL	PY>PR (blebs) LI (JAR, GEO) (3-5%)	Elev. 1382m ASL, found within strong CL+qz mod. CL altered mudst/siltst.	<5	<0.2	84	<2	58	5
							very paddy mineralization within vein vein strike 016° dip 44°E						
602	6313210N 344740E	"	0.5m / 1.0m?	Shear Zone?	Mod CY, CB, QZ	HE (2%), sp (tr) LI (JAR, GED)	Elev. 1385m ASL, strongly fractured + contains CA>Qz veins + veinlets		<0.2	79	10	104	30
							Probable zone strike 179°? dip 90°						
603	6313260N 344740E	"	0.6m / 0.5m?	Schistose Rx.	Qz, CL	PY>PR (5-10%)	Elev. 1380m ASL, contains Qz/CL veins + veinlets that pinch and swell		<0.2	207	<2	368	10
							from 1cm to 10cm, mineralization is paddy + found within Qz/CL veins. vein strike 176° dip 54°E						
604	6313380N 344670E	Float	- / -	Foliated Mudst/Siltst?	Qz>CL vein?	PR + PY blebs diss PY (2-3%)	Elev. 1360m ASL, blebs associated w/ Qz and diss PY found in CL altered areas, -source appears to be mineralized pods in surrounding o/c		<0.2	69	<2	44	<5
605	6313415N 344595E	Grab o/c	0.4m / 0.3m	Schistose intrusive?	CL > Qz	PY (1-2%) LI (JAR, GEO)	Elev. 1340m ASL, paddy mineralization w/ PY blebs + diss PY probable orientation? strike 192° dip 76°W		1.0	65	<2	54	145
606	6313580N 344555E	"	0.2 / ≈3.0m?	Sed. rx.?	Strong CB>Qz	PY (½-2%)	Elev. 1305m ASL -no distinct orientation		1.0	<1	<2	<2	<5
607	6313750N 344595E	"	1.0m / ?	Feldspar Porphyry	Mod to strong Qz+CL+CY	PY (small blebs + sweats) (<1%)	Elev. 1300m ASL, no distinct orientation or thickness viewed but occurs beside a		1.4	4	<2	14	20
							CA>Qz veinlet						
608	6313820N 344700E	Float	- / -	CL Schist?	MS + Qz, minor CA	PY blebs (1-2%)	Elev. 1235m ASL -source appears to be escarpment above containing mineralized pods		<0.2	183	2	38	10
609	6313900N 344670E	Grab o/c	1.0m / 20m?	"	Qz, minor CA	PY (diss + blebs) (2-4%)	Elev. 1215m ASL, PY mineralization associated w/ Qz rich areas, mineralization		<0.2	61	<2	88	<5
							Trend // w/foliation which strikes 041° dips 56° NW -sporadic mineralization in places						
610	6313980N 344580E	Float	- / -	CL Schist?	Qz	PR (blebs + stringers) (1-3%)	Elev. 1210m ASL, mineralization associated w/Qz, source is escarpment overhead		1.8	8	<2	12	30

EQUITY ENGINEERING LTD.

Geochemical Data Sheet - ROCK SAMPLING

104G/14E
NTS 104B/13E

Sampler BRUNO KASPER
Date SEPT. 18 - 22, 1989

Project PLJ89-08
Property CUDS 1-8 + GINNY 1-8

Location Ref Porcupine Glacier
Air Photo No

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width / True Width	DESCRIPTION: Rock Type	DESCRIPTION: Alteration	DESCRIPTION: Mineralization	ADDITIONAL OBSERVATIONS	ASSAYS: Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
459611	6314240N 344085E	Grab o/c	0.5m / 10m?	Ch schist?	QZ	PY>PR (blebs) diss PY (3-4%)	Elev. 1190 m ASL, Bleby mineralization associated w/QZ, diss PY found within Ch schist?	<5	1.2	<1	<2	<2	5
							2-3cm QZ veinlets present w/mineralization oriented // to foliation which strikes 350° dips 81°E						
612	6314650N 344070E	Float	- / -	QZ vein?	QZ	PY/PR? blebs (1-2%)	Elev. 1135m ASL source not found but located on a talus slope beneath an escarpment		0.2	3	<2	6	<5
613	6314815N 344100E	"	- / -	Ch schist?	QZ	PY blebs + stringers (3-5%)	Elev. 1125m ASL - source not located but float found among abundant mineralized talluss		1.6	7	<2	8	20
614	6314950N 343970E	Grab o/c	1.0 / 3.0m	Fault zone	QZ, CY	Graphite (80%) HE (1-2%)	Elev. 1135m ASL fault trends ± 060°?		0.2	34	16	108	30
615	6319035N 340550E	"	0.6m / 0.5m	Ch schist?	QZ	PY (diss + blebs) (<5%)	Elev. 1075m ASL, mineralization associated w/QZ and // foliation, zone strikes 154° dip 77°SW		<0.2	227	<2	48	<5
616	6319050N 340500E	"	0.3m / 5.0m?	QZ pebble Ch schist	CB>QZ	PY (<1-2%) diss + sweats	Elev. 1075m ASL, zone trends // to foliation which strike 130° dip 48°SW		<0.2	40	<2	50	10
617	6319550N 339980E	Float	- / -	Ch schist?	strong MS>QZ	LI (JAR, GEO) (<3%) PY>CP, MC (<1%)	Elev. 1085m, LI products infilling boxwork texture, source not found		1.0	356	<2	1295	<5
618	6319035N 340400E	Grab o/c	4.0m / 3.0m	Schist?	QZ>CB	PY (stringers + blebs) (<1%)	Elev. 1055m ASL Sproadic PY found within fractures, zone trends ≈ 116°		<0.2	43	<2	118	10
619	6319630N 339890E	"	3.0m / 1.5m?	Breccia Zone?	CB>QZ	PY>>CP (<1%) stringers + blebs	Elev. 1080m ASL, mineralization found in fractures and QZ rich areas zone trend: ≈ 174°		<0.2	24	12	98	<5
620	6314355N 339460E	Float	- / -	Diorite or Granodiorite	CA?	PY (blebs, diss) (1-2%)	Elev. 1070 m ASL - source not found	↓	<0.2	22	4	88	<5
621	6314435N 339445E	"	- / -	QZ vein	QZ > CY minor CA	PY blebs (1-2%)	Elev. 1000 m ASL - source not found	225	2.0	33	30	34	135
459624	6315670N 340060E	Grab o/c	3.0m / ?	Banded Cherts	QZ?	HE>PY>CP (1-2%)	Elev. 1275m ASL, mineralization very poddy - no true width or orientation seen pods general trend ≈ 166°	<5	<0.2	100	2	32	10
625	6317060N 339495E	Float	/	Ch Schist?	CY (mod. to strong)	LI (JAR, GEO), PY (20% LI - 5% PY)	Elev. 1160m ASL, contains large blebs of boxwork LI products w/ PY within - source not found	<5	<0.2	7	4	34	<5
626	6318390N 340140E	Grab o/c	4.0m / 1.5m	Ch schist? / dacite?	QZ	PY (blebs + diss) (2-4%)	Elev. 1175m ASL, mineralized zone at contact w/ feldspar porphyry, both units are folded	<5	<0.2	38	6	26	10
							zone strike 141° dip 84°SW						
627	6318125N 339900E	Float	- / -	Chert		PY (tr.-2%) (blebs)	Elev. 1230m ASL, found beside pyritized chert unit 5.0m - 6.0m width	30	0.6	497	<2	48	<5
							- float contains stronger mineralization than rx. in place						
628	6320100N 341930E	Float	- / -	QZ>CA vein		SP>PY>AS> GL>CP (2-3%)	Elev. 107m ASL. source is escarpment above.	120	8.4	197	226	1.40%	7270

EQUITY ENGINEERING LTD.

Geochemical Data Sheet - ROCK SAMPLING

NTS 104G/14E 104B/13E

Sampler BRUNO KASPER

Project PLJ89-08

Location Ref Porcupine Glacier

Date SEPT 22 - 23, 1989

Property CUDS 1-8 + GINNY 1-8

Air Photo No

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width / True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	* oz/ton ASSAYS					
				Rock Type	Alteration	Mineralization		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
459629	6320100N 341930E	Float	- / -	QZ vein?	Mod. CY + minor CA, CL	PR, PY > CP, MO (3-5%)	Elev. 107m - found near 459628 - same source as 459628	<5	<0.2	139	8	186	145
630	6320100N 341930E	"	- / -	"	minor CL, CA	PR (5-10%) PY≥CP>MO? (<1%)	Elev. 107m - float is QZ boulder of 0.5 m in dia., found near	<5	4.2	657	14	82	70
							and probably same source area as 459628						
631	6319980N 341840E	Float	- / -	QZ vein?	CY w/minor CA	PY+LI products (20-25%)	Elev. 230m ASL - found in avalanche chute above 459628	<5	3.2	538	62	70	20
632	6319825N 341640E	Grab o/c	1.5m / 0.2-0.4m	QZ vein		AS>PY (3-5%)	Elev. 465m ASL - blebs + stringer mineralization - o/c for 40m, strike 093° dip 65°S	750	5.8	48	198	86	>10,000
633	6319825N 341640E	"	1.0m / 1.0m	"Sed. ? Rx. ?	Strong CY >> QZ > CB	CP > PY + AS? (1-2%)	Elev. 465m ASL - tiny blebs or crystals for mineralization, comprises hanging wall	15	<0.2	123	20	62	525
							for 459632						
634	6319835N 341650E	Grab o/c	0.5m / 2.0-3.0m?	Sed. Rx. ?	Strong CY + QZ, minor CA	PR ≥ PY >> CP (3-15%)	Elev. 435m ASL, wall rock in footwall for 459632, stronger mineralization	<5	0.4	284	6	30	135
							is poddy, parallels 459632						
635	6319840N 341670E	Grab o/c	0.2m / 0.1m	QZ veinlets		PY + CP? blebs (3-5%)	Elev. 400m ASL, 2 QZ veinlets found in footwall, no distinct orientation	170	3.2	129	19	34	765
							but appear to be flat lying						
636	6320060N 341980E	Float	- / -	QZ vein		AS ≥ PY > SP (10-15%)	Elev. 107m ASL - mineralizations forms bands or large blebs, probable	*0.160	*10.80	1885	4190	2.95%	>10,000
							source near 459632						
459638	6322045N 343490E	Float	- / -	QZ vein	minor CY	PY ± SP (1-2%)	Elev. 170m ASL, contains large blebs (≤2cm) of sulfides, found near	100	4.8	135	90	474	725
							silt sample 459637						
639	6322110N 343500E	Grab o/c	0.1m / 0.05?	QZ vein		PY ± SP? blebs (<1%)	Elev. 180m ASL, QZ vein hosted within a felsic? intrusive	10	3.0	23	56	192	265
							vein strikes 165° dips 70°W						
640	6322130N 343530E	Grab o/c	0.4m / 1.0m?	QZ vein	QZ	PY > SP > MG (3-5%) CP, MO (tr.)	Elev. 185m ASL, mineralized zone is only 0.7m? wide and contains large blebs	10	0.2	275	<2	32	75
							* stringers of sulfides vein strikes? 230° dip 88°NW?						

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Geochemical Data Sheet - ROCK SAMPLING

NTS 104G/14E 1043/13E

Sampler BRUNO KASPER Project PLJ89-08 Location Ref Porcupine Glacier

Date SEPT. 24, 1989 Property CUDS 1-8 + GINNY 1-8 Air Photo No

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width / True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Rock Type	Alteration	Mineralization		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
459641	6316260 N 340055 E	Grab o/c	2.0m / 0.05 - 0.3m	Carbonaceous Argillites?	Strong CY, Mod. CL, QZ	PY, LI products (PY<5%, LI<10%)	Elev. 1205m ASL, mineralized zone is very poddy and appears to infill a joint which strikes 023° dip 80°SE	<5	<0.2	19	2	46	5
642	6316240 N 339995 E	Grab o/c	3.0m / 0.05 - 0.2m?	Chloritic Argillite?	"	PY, AS? (1% to 40%)	Elev. 1210m ASL, Weaker mineralization diss and found in clay alt'n while pods contain stronger mineralization - series of mineralized joints? over a 3-4m wide area and can be followed for 150m in o/c - sampled vein trends ≈ 288°, other veins have different orientations	<5	<0.2	13	<2	54	10
643	6316100 N 340070 E	Grab o/c	3.0m / 0.9 - 1.0m	Banded Argillite? / chert?	Mod. to strong QZ	PY (diss + blebs) (1-2%)	Elev. 1245m ASL - general trend of zone is 173°	<5	<0.2	74	<2	44	10
644	6316165N 339740 E	Float	— / —	Hornfels?	MS?	PY (diss + blebs) (1-2%)	Elev. 1225m ASL, mineralization occurs as large pods in escarpment above - host rx. is intruded by a granodiorite intrusive, pods range in size from 0.2m to 3.0m	<5	<0.2	78	<2	46	<5

EQUITY ENGINEERING LTD.

Geochemical Data Sheet - ROCK SAMPLING

NTS 104G/14E 104B/13E

Sampler Ian Anderson | Project PLJ89-08 | Location Ref Porcupine Glacier

Date Sept. 19 - 24, 1989 | Property GIANT 1-8 & CUDS 1-8 | Air Photo No

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width / True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Rock Type	Alteration	Mineralization		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
459484	6319280N 339980E	Grab o/c	0.1m / 0.1m?	Phyllite? Ch?	QZ	PY (3-4%)	- zone trends ± 124°? - same zone observed across the creek valley.	30	<0.2	147	<2	84	<5
459443	6322475N 339150E	Grab o/c	0.4m / ?	Altered Mudst/Si. Ilst.	CY	PY (1-2%)	- parallel banding present oriented w/ trend 210°	<5		177	<2	140	30
459496	6322200N 339350E	"	0.4m / ?	Altered Argillite?	"	PY (<1%)	- PY stringers // w/ cleavage	<5		178	2	66	20
459497	6321210N 345010E	Flo t	0.3m / ?	Biotite Granite		PY (tr.)	- source is escarpment above	<5	↓	37	<2	76	<5
463412	6316725N 337920E	Float	— / —	Schist	minor CA QZ>EPCL	PY (1%)	- PY associated w/ QZ alt'n	<5	0.6	501	<2	56	80

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EQUITY ENGINEERING LTD.

Geochemical Data Sheet - ROCK SAMPLING

NTS 104B/13E, 104G/4E

Sampler D. Ridley | Project PLJ 89-08 | Location Ref Porcupine Glacier

Date Sept. 20-24, 1989 | Property CUDS 1-8 + GINNY 1-8 | Air Photo No

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width / True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	* oz/ton ASSAYS					
				Rock Type	Alteration	Mineralization		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
463067	6314640 N 339050 E	Grab o/c	0.4m / 0.7m?	Shear Zone	QZ, CY	Py (1-3%)	elev. 1018 m, zone strikes 154°/dips 90°, disseminated pyrite, trace malachite exposed for 50m in creek	<5	2.2	3420	<2	26	<5
463068	6314640 N 339050 E	Grab o/c	0.5m / 0.7m?	Shear zone	Qz, CY	Py (1-3%)	taken 35m from 067 in same shear, shearing is stronger, malachite	<5	1.4	2870	<2	46	10
463069	6314640 N 339050 E	Grab o/c	0.1m / 0.1m	Quartz vein	QZ	Py (5-10%)	taken between 068 & 067, vein in shear, blebby pyrite	20	4.0	7830	<2	156	<5
463073	6319225 N 339250 E	Grab o/c	1.0m / <1.0m	Banded Sediments	CY	Py > CP, MC (1-2%)	elev. , mineralization strikes 150°, follows banding, cp infills thin fractures, o.c. for 5.0m.	50	<0.2	165	<2	98	<5
463075	6318700 N 343475 E	Grab o/c	0.5m / 0.1m	Fault Gouge	CL > QZ minor CA	Py (1%) diss.	elev. m, Fault strikes 150° dips 60° NE, sampled wall rx on side of fault	*0.086	13.6	1.06%	14	620	<5
463082	6322580 N 343720 E	Grab o/c	2.0m / ?	Argillite	-	Py <1% stringers	elev. m, mineralization occurs along slaty cleavage	10	<0.2	169	4	182	25
463083	6322625 N 343710 E	Grab o/c	1.0m / 1.0m	Felsic Dyke.	QZ	Mo <1%	elev. m, MoS_2 occurs as tiny blebs in dyke, strike 110°/90°	<5		60	<2	16	<5
463085	6319540 N 338200 E	Float.	- / -	Sedimentary Rock	CY	Py (2%) diss.	elev. m, found below a snow field.	<5		67	6	90	5
463086	6319450 N 338430 E	Grab o/c	2.5m / 2.5m?	Sedimentary Rock	CA >> QZ	Py (5%) diss.	elev. m, carbonate-quartz altered zone striking 180°	<5		12	<2	28	<5
463087	6319620 N 338750 E	Float.	- / -	Schist	MS, EP	Py, CP (1-2%) MC diss.	elev. m, outcrop 20m upon escarpment	<5	↓	651	<2	174	5
463088	6319575 N 338710 E	Float.	- / -	Chlorite Schist.	EP > QZ, minor CA.	Py > CP (1-2%)	elev. m, strong epidote alteration, tiny blebs of sulphides	30	2.8	3900	<2	96	<5
463089	6319820 N 338650 E	Float	- / -	Sedimentary Rock-?	MS?	Py (1%) diss.	possibly hornfelsed, source upslope.	50	<0.2	122	10	112	135

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APPENDIX D

CERTIFICATES OF ANALYSIS

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.

207 – 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A8927664

Comments: ATTN: DAVID A. CAULFIELD

CERTIFICATE A8927664

EQUITY ENGINEERING LTD.
PROJECT : GINNY + CUDS
P.O # : PLJ89-08

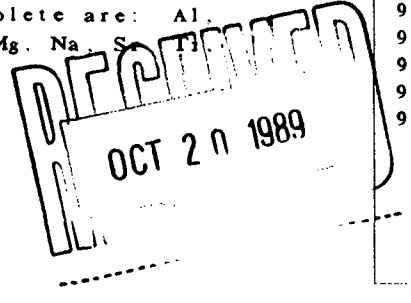
Samples submitted to our lab in Vancouver, BC.
This report was printed on 19-OCT-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	36	Dry, sieve -80 mesh; soil, sed.
217	1	Geochem:Ring only,no crush/split
238	37	ICP: Aqua regia digestion

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, S, Ti, Tl, W.



ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	37	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
921	37	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	37	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	37	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	37	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	37	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	37	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	37	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	37	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	37	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	37	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	37	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	37	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	37	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	37	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	37	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	37	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	37	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	37	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	37	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	37	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	37	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	37	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	37	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	37	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	37	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	37	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	37	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	37	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	37	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	37	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	37	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	37	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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Project : GINNY + CUDS
Comments: ATTN: DAVID A. CAULFIELD

Page No. : 1-A
Tot. Pages: 1
Date : 19-OCT-89
Invoice # : I-8927664
P.O. # : PLJ89-08

CERTIFICATE OF ANALYSIS A8927664

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
172465	201	238	< 5	1.68	< 0.2	10	80	< 0.5	4	0.58	< 0.5	20	36	51	4.50	< 10	< 1	0.07	10	1.22	820
172489	201	238	< 5	2.85	< 0.2	110	220	0.5	2	0.90	1.0	31	209	107	5.58	< 10	< 1	0.23	10	2.54	1155
459467	201	238	< 5	2.30	< 0.2	5	300	0.5	2	0.92	< 0.5	22	86	128	4.83	< 10	< 1	0.18	10	1.72	965
459468	217	238	< 5	2.29	< 0.2	< 5	110	< 0.5	< 2	1.25	< 0.5	19	121	43	4.30	< 10	< 1	0.14	10	1.75	710
459469	201	238	< 5	2.37	< 0.2	60	200	< 0.5	6	0.92	< 0.5	30	56	118	5.56	< 10	< 1	0.13	10	1.84	895
459470	201	238	< 5	2.09	< 0.2	70	220	< 0.5	2	1.10	0.5	22	57	151	4.49	< 10	< 1	0.12	10	1.26	1665
459471	201	238	< 5	2.14	< 0.2	55	200	< 0.5	2	0.70	1.0	23	56	126	4.81	< 10	< 1	0.11	10	1.45	960
459472	201	238	< 5	2.46	< 0.2	20	110	< 0.5	2	0.53	< 0.5	14	74	53	4.94	< 10	< 1	0.27	10	1.46	795
459473	201	238	< 5	2.30	< 0.2	5	110	< 0.5	2	0.76	< 0.5	17	85	43	4.66	< 10	< 1	0.16	10	1.47	735
459489	201	238	< 5	2.62	< 0.2	5	150	< 0.5	2	1.18	< 0.5	9	70	23	3.74	< 10	< 1	0.21	10	1.02	585
459494	201	238	< 5	3.73	< 0.2	130	70	< 0.5	4	1.01	< 0.5	30	93	139	7.76	< 10	< 1	0.07	10	2.65	915
459495	201	238	< 5	3.24	< 0.2	85	110	< 0.5	4	0.69	0.5	26	152	120	6.21	< 10	< 1	0.07	10	2.42	885
459498	201	238	< 5	2.43	< 0.2	20	340	0.5	< 2	1.08	< 0.5	17	7	29	4.30	< 10	< 1	0.24	20	0.67	2710
459622	201	238	< 5	1.73	< 0.2	10	160	0.5	4	0.48	< 0.5	14	19	30	3.36	< 10	< 1	0.07	10	0.99	720
459623	201	238	< 5	2.06	< 0.2	< 5	130	< 0.5	2	0.79	< 0.5	14	91	15	3.50	< 10	< 1	0.08	10	1.42	635
459637	201	238	< 5	1.48	< 0.2	5	160	< 0.5	< 2	0.72	< 0.5	11	123	35	3.14	< 10	< 1	0.37	10	0.80	580
459645	201	238	< 5	3.13	< 0.2	25	50	< 0.5	6	0.67	< 0.5	33	110	61	8.37	< 10	< 1	0.12	10	3.35	1245
456646	201	238	< 5	2.83	< 0.2	< 5	20	< 0.5	4	1.27	< 0.5	23	76	53	5.28	< 10	< 1	0.07	< 10	2.65	710
459647	201	238	< 5	2.83	< 0.2	< 5	30	0.5	< 2	0.92	< 0.5	23	71	78	5.51	< 10	< 1	0.07	< 10	2.64	855
459648	201	238	3660	2.36	< 0.2	145	80	< 0.5	< 2	0.99	< 0.5	19	58	53	4.56	< 10	< 1	0.14	10	1.73	1120
459649	201	238	145	2.47	< 0.2	50	110	0.5	< 2	0.88	< 0.5	21	114	58	4.23	< 10	< 1	0.12	10	1.93	780
463070	201	238	< 5	1.61	< 0.2	< 5	80	< 0.5	< 2	0.61	< 0.5	19	32	33	5.08	< 10	< 1	0.03	10	1.21	570
463071	201	238	< 5	2.69	< 0.2	20	100	< 0.5	< 2	1.09	< 0.5	17	181	34	4.04	< 10	< 1	0.11	10	1.57	765
463072	201	238	< 5	2.86	< 0.2	10	190	0.5	< 2	0.55	< 0.5	30	200	30	4.19	< 10	< 1	0.12	10	1.70	2100
463074	201	238	< 5	2.50	< 0.2	20	190	< 0.5	< 2	0.83	< 0.5	18	106	55	4.65	< 10	< 1	0.20	10	1.56	805
463076	201	238	< 5	1.92	< 0.2	65	240	0.5	< 2	1.61	0.5	14	40	51	3.27	< 10	< 1	0.09	20	0.94	1375
463077	201	238	< 5	2.47	< 0.2	60	200	< 0.5	2	0.85	< 0.5	19	45	87	4.79	< 10	< 1	0.15	10	1.40	1000
463078	201	238	< 5	2.86	< 0.2	30	170	< 0.5	2	0.62	< 0.5	18	103	51	5.20	< 10	< 1	0.18	10	1.92	825
463079	201	238	< 5	2.55	< 0.2	35	230	0.5	< 2	0.79	< 0.5	18	151	67	4.74	< 10	< 1	0.23	10	1.49	755
463080	201	238	< 5	2.50	< 0.2	50	120	< 0.5	< 2	0.71	< 0.5	19	66	40	4.41	< 10	< 1	0.09	10	1.31	980
463081	201	238	< 5	1.81	< 0.2	35	250	< 0.5	2	0.82	1.0	15	46	67	3.60	< 10	< 1	0.46	10	1.03	795
463084	201	238	< 5	2.18	< 0.2	85	170	< 0.5	< 2	0.49	< 0.5	17	88	71	4.27	< 10	< 1	0.15	10	1.26	895
463402	201	238	< 5	2.28	< 0.2	10	280	< 0.5	4	0.58	< 0.5	13	86	51	4.08	< 10	< 1	0.72	10	1.34	700
463408	201	238	< 5	2.83	< 0.2	15	130	< 0.5	2	0.83	< 0.5	18	99	75	4.70	< 10	< 1	0.13	10	1.88	800
463409	201	238	< 5	2.54	< 0.2	30	130	< 0.5	4	0.79	< 0.5	13	132	60	4.19	< 10	< 1	0.21	10	1.51	675
463410	201	238	< 5	3.35	< 0.2	10	80	< 0.5	6	0.70	< 0.5	30	59	127	7.25	< 10	< 1	0.06	10	2.51	1065
463411	201	238	< 5	3.23	< 0.2	< 5	100	< 0.5	< 2	1.07	< 0.5	20	152	69	5.89	< 10	< 1	0.16	10	2.30	830

CERTIFICATION : B. Caglioni

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
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SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
172465	201	238	< 1	< 0.01	31	1610	< 2	< 5	5	32	0.08	< 10	< 10	47	< 10	92
172489	201	238	3	0.01	94	1130	2	< 5	10	35	0.14	< 10	< 10	128	< 10	124
459467	201	238	< 1	0.01	49	1130	< 2	< 5	7	49	0.16	< 10	< 10	110	< 10	114
459468	217	238	1	0.05	30	910	< 2	< 5	9	52	0.22	< 10	< 10	102	< 10	72
459469	201	238	2	0.01	40	1020	< 2	< 5	7	41	0.15	< 10	< 10	98	< 10	118
459470	201	238	2	0.01	45	960	4	< 5	7	37	0.10	< 10	< 10	104	< 10	230
459471	201	238	3	0.01	49	1180	8	< 5	7	33	0.11	< 10	< 10	109	< 10	232
459472	201	238	1	0.03	23	790	8	< 5	8	22	0.16	< 10	< 10	104	< 10	134
459473	201	238	1	0.04	27	780	< 2	< 5	9	39	0.20	< 10	< 10	94	< 10	90
459489	201	238	< 1	0.12	12	1000	2	< 5	6	124	0.20	< 10	< 10	77	< 10	72
459494	201	238	1	0.04	44	590	4	< 5	23	27	0.48	< 10	< 10	278	< 10	144
459495	201	238	3	0.03	57	590	2	< 5	16	19	0.24	< 10	< 10	190	< 10	134
459498	201	238	15	0.02	7	2960	10	< 5	4	59	0.13	< 10	10	61	< 10	230
459622	201	238	1	0.03	16	830	8	< 5	4	50	0.14	< 10	< 10	54	< 10	82
459623	201	238	< 1	0.04	14	1040	< 2	< 5	5	68	0.16	< 10	< 10	72	< 10	72
459637	201	238	7	0.05	14	840	< 2	< 5	6	64	0.14	< 10	< 10	84	< 10	82
459645	201	238	2	0.01	46	1270	< 2	< 5	15	27	0.29	< 10	< 10	195	< 10	112
456646	201	238	< 1	0.03	35	830	< 2	< 5	7	46	0.27	< 10	< 10	129	< 10	74
459647	201	238	< 1	0.03	35	900	< 2	< 5	9	34	0.28	< 10	< 10	137	< 10	92
459648	201	238	2	0.04	21	860	30	< 5	7	84	0.21	< 10	< 10	116	< 10	86
459649	201	238	< 1	0.05	40	840	2	< 5	8	110	0.23	< 10	< 10	107	< 10	88
463070	201	238	< 1	0.01	17	1220	< 2	< 5	4	45	0.15	< 10	< 10	118	< 10	62
463071	201	238	1	0.06	29	1070	< 2	< 5	7	90	0.23	< 10	20	101	< 10	90
463072	201	238	5	0.06	48	890	4	< 5	8	41	0.20	< 10	< 10	97	< 10	106
463074	201	238	< 1	0.05	35	830	< 2	< 5	10	48	0.17	< 10	< 10	106	< 10	112
463076	201	238	3	0.02	30	1420	< 2	< 5	5	162	0.10	< 10	< 10	67	< 10	174
463077	201	238	1	0.03	33	900	< 2	< 5	11	49	0.18	< 10	< 10	114	< 10	130
463078	201	238	1	0.04	39	850	2	< 5	11	40	0.15	< 10	< 10	122	< 10	112
463079	201	238	3	0.07	54	740	4	< 5	11	42	0.20	< 10	< 10	115	< 10	114
463080	201	238	3	0.02	30	740	< 2	< 5	7	44	0.13	< 10	< 10	95	< 10	116
463081	201	238	4	0.03	32	880	16	< 5	7	67	0.14	< 10	10	96	< 10	218
463084	201	238	1	0.05	31	790	2	< 5	8	38	0.10	< 10	< 10	88	< 10	112
463402	201	238	7	0.02	38	1140	< 2	< 5	10	45	0.22	< 10	< 10	142	< 10	134
463408	201	238	3	0.06	37	740	< 2	< 5	10	53	0.25	< 10	< 10	132	< 10	126
463409	201	238	3	0.07	36	620	< 2	< 5	9	43	0.22	< 10	< 10	110	< 10	130
463410	201	238	2	< 0.01	40	960	2	< 5	13	34	0.14	< 10	< 10	133	< 10	112
463411	201	238	2	0.04	47	870	< 2	< 5	14	37	0.29	< 10	< 10	138	< 10	92

CERTIFICATION : B. Caughlin

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A8927665

Comments: ATTN: DAVID A. CAULFIELD

CERTIFICATE A8927665

EQUITY ENGINEERING LTD.
PROJECT : GINNY + CUDS
P.O.# : PLJ89-08

Samples submitted to our lab in Vancouver, BC.
This report was printed on 22-OCT-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
235	26	Pan concentrate: Ring pulverize
238	26	ICP: Aqua regia digestion

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	26	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
921	26	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	26	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	26	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	26	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	26	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	26	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	26	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	26	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	26	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	26	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	26	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	26	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	26	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	26	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	26	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	26	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	26	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	26	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	26	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	26	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	26	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	26	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	26	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	26	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	26	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	26	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	26	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	26	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	26	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	26	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	26	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	26	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
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To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : GINNY + CUDS
Comments: ATTN: DAVID A. CAULFIELD

Page No. : 1-A
Tot. Pages: 1
Date : 22-OCT-89
Invoice # : I-8927665
P.O. # : PLJ89-08

CERTIFICATE OF ANALYSIS A8927665

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
459474	235 238	10	2.26	< 0.2	< 5	110	< 0.5	< 2	0.79	< 0.5	16	80	61	4.87	< 10	< 1	0.14	10	1.63	685
459475	235 238	50	1.66	< 0.2	30	190	< 0.5	2	2.25	< 0.5	16	64	82	4.10	< 10	< 1	0.14	< 10	1.61	590
459476	235 238	20	2.49	< 0.2	20	120	< 0.5	< 2	0.89	< 0.5	14	60	43	4.65	< 10	< 1	0.20	10	1.42	725
459477	235 238	5	2.08	< 0.2	< 5	150	< 0.5	< 2	0.71	< 0.5	17	110	54	4.88	< 10	< 1	0.14	10	1.51	640
459478	235 238	< 5	2.70	< 0.2	< 5	60	< 0.5	2	0.71	< 0.5	31	128	66	5.85	< 10	< 1	0.08	< 10	2.76	830
459479	235 238	< 5	2.04	< 0.2	25	260	< 0.5	< 2	0.94	< 0.5	41	108	73	7.80	< 10	< 1	0.13	10	1.48	685
459480	235 238	< 5	2.59	< 0.2	40	140	< 0.5	< 2	0.57	< 0.5	17	72	76	4.75	< 10	< 1	0.22	10	1.32	790
459481	235 238	< 5	2.52	< 0.2	55	130	< 0.5	< 2	0.64	< 0.5	18	79	63	4.53	< 10	< 1	0.21	10	1.38	745
459482	235 238	5	2.18	0.2	30	110	< 0.5	< 2	0.67	< 0.5	15	71	50	4.20	< 10	< 1	0.20	10	1.50	695
459483	235 238	5	2.41	< 0.2	20	120	< 0.5	< 2	0.34	< 0.5	17	54	96	4.92	< 10	< 1	0.13	10	1.47	1035
459485	235 238	20	1.88	< 0.2	10	180	< 0.5	< 2	0.79	< 0.5	10	56	25	2.84	< 10	< 1	0.10	10	0.94	620
459486	235 238	< 5	1.68	< 0.2	< 5	130	< 0.5	< 2	0.81	< 0.5	10	49	22	2.95	< 10	< 1	0.10	10	0.85	560
459487	235 238	< 5	2.17	< 0.2	10	230	< 0.5	< 2	0.60	< 0.5	12	76	72	3.49	< 10	< 1	0.10	10	1.11	820
459488	235 238	< 5	1.92	< 0.2	30	140	< 0.5	< 2	0.58	< 0.5	17	73	53	3.61	< 10	< 1	0.08	10	1.26	665
459490	235 238	< 5	1.76	< 0.2	15	150	< 0.5	2	0.53	< 0.5	12	74	24	3.29	< 10	< 1	0.09	10	1.05	640
459491	235 238	< 5	1.67	< 0.2	< 5	70	< 0.5	< 2	0.46	< 0.5	12	94	15	2.88	< 10	< 1	0.05	10	0.96	565
459492	235 238	< 5	2.53	< 0.2	275	140	< 0.5	2	0.71	< 0.5	26	100	145	6.12	< 10	< 1	0.09	10	1.66	925
459499	235 238	< 5	1.99	< 0.2	20	180	< 0.5	< 2	0.91	< 0.5	10	78	21	3.35	< 10	< 1	0.20	20	0.59	1305
459500	235 238	< 5	1.76	< 0.2	20	190	< 0.5	< 2	0.71	< 0.5	9	86	18	3.08	< 10	< 1	0.18	10	0.60	965
463401	235 238	5	1.90	< 0.2	< 5	150	< 0.5	4	1.08	< 0.5	14	115	38	4.03	< 10	< 1	0.27	10	1.00	710
463403	235 238	< 5	1.90	< 0.2	5	130	< 0.5	< 2	0.84	< 0.5	16	103	45	3.91	< 10	< 1	0.13	10	1.40	620
463404	235 238	< 5	2.03	< 0.2	< 5	150	< 0.5	< 2	0.98	< 0.5	16	128	49	4.19	< 10	< 1	0.15	10	1.24	755
463405	235 238	< 5	1.92	< 0.2	< 5	120	< 0.5	< 2	0.75	< 0.5	14	83	48	4.09	< 10	< 1	0.11	10	1.20	615
463406	235 238	< 5	1.57	< 0.2	15	70	< 0.5	< 2	0.62	< 0.5	11	64	29	2.94	< 10	< 1	0.07	10	0.99	660
463407	235 238	< 5	2.09	< 0.2	110	80	< 0.5	< 2	0.88	< 0.5	11	126	48	3.18	< 10	< 1	0.08	10	1.04	550
463413	235 238	< 5	3.36	< 0.2	195	190	< 0.5	< 2	0.91	< 0.5	37	247	142	6.44	< 10	< 1	0.20	10	3.04	1005

CERTIFICATION : B. Caufield

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To : EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : GINNY + CUDS
Comments: ATTN: DAVID A CAULFIELD

Date : 22-OCT-89
Invoice # : I-8927665
P.O. # : PLJ89-08

CERTIFICATE OF ANALYSIS A8927665

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
459474	235	238	1	0.04	25	1330	4	< 5	7	48	0.22	< 10	< 10	92	< 10	92
459475	235	238	3	0.03	27	890	20	< 5	5	45	0.14	< 10	< 10	64	< 10	102
459476	235	238	1	0.07	24	1190	< 2	< 5	7	51	0.26	< 10	< 10	83	< 10	76
459477	235	238	1	0.05	25	1050	8	< 5	7	48	0.22	< 10	< 10	98	< 10	88
459478	235	238	1	0.03	61	1150	< 2	< 5	10	25	0.25	< 10	< 10	134	< 10	86
459479	235	238	3	0.04	35	1070	< 2	< 5	6	38	0.23	< 10	< 10	123	< 10	86
459480	235	238	1	0.05	23	690	< 2	< 5	11	23	0.25	< 10	< 10	114	< 10	106
459481	235	238	2	0.05	26	670	2	< 5	10	36	0.24	< 10	< 10	115	< 10	100
459482	235	238	3	0.04	26	870	6	< 5	8	32	0.21	< 10	< 10	100	< 10	96
459483	235	238	2	0.02	27	700	< 2	< 5	7	14	0.13	< 10	< 10	76	< 10	100
459485	235	238	2	0.04	10	850	2	< 5	3	88	0.15	< 10	< 10	46	< 10	90
459486	235	238	1	0.05	10	860	< 2	< 5	4	78	0.17	< 10	< 10	57	< 10	62
459487	235	238	2	0.05	14	980	4	< 5	4	54	0.10	< 10	< 10	60	< 10	108
459488	235	238	1	0.03	19	930	2	< 5	4	46	0.14	< 10	< 10	69	< 10	74
459490	235	238	2	0.05	13	830	< 2	< 5	3	56	0.13	< 10	< 10	59	< 10	74
459491	235	238	1	0.03	15	800	< 2	< 5	3	37	0.14	< 10	< 10	59	< 10	60
459492	235	238	7	0.03	61	760	8	< 5	9	32	0.20	< 10	< 10	145	< 10	128
459499	235	238	12	0.06	6	2090	2	< 5	3	48	0.14	< 10	< 10	57	< 10	160
459500	235	238	9	0.05	16	1350	16	< 5	4	55	0.14	< 10	< 10	66	< 10	148
463401	235	238	6	0.05	14	1550	< 2	< 5	6	88	0.23	< 10	< 10	114	< 10	100
463403	235	238	2	0.06	26	980	< 2	< 5	7	64	0.24	< 10	< 10	102	< 10	74
463404	235	238	2	0.08	24	960	< 2	< 5	7	96	0.26	< 10	< 10	112	< 10	82
463405	235	238	1	0.05	21	870	< 2	< 5	7	58	0.24	< 10	< 10	117	< 10	76
463406	235	238	2	0.05	18	600	< 2	< 5	4	56	0.18	< 10	< 10	81	< 10	76
463407	235	238	5	0.06	34	710	< 2	< 5	5	72	0.17	< 10	< 10	98	< 10	170
463413	235	238	4	0.04	116	1150	2	< 5	13	39	0.24	< 10	< 10	163	< 10	148

CERTIFICATION : B. Caughlin

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A8927666

Comments: ATTN: DAVID A. CAULFIELD

CERTIFICATE A8927666

EQUITY ENGINEERING LTD.
PROJECT : GINNY 4 CUDS
P.O. # : PI189-08

Samples submitted to our lab in Vancouver, BC.
This report was printed on 26-OCT-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	118	Rock Geochem: Crush,split,ring.
238	118	ICP: Aqua regia digestion

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	118	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
921	118	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	118	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	118	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	118	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	118	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	118	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	118	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	118	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	118	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	118	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	118	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	118	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	118	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	118	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	118	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	118	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	118	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	118	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	118	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	118	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	118	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	118	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	118	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	118	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	118	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	118	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	118	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	118	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	118	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	118	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	118	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	118	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: EQUITY ENGINEERING LTD.

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VANCOUVER, BC
V6B 1N2

Project : GINNY + CUBS
Comments: ATTN: DAVID A CAULFIELD

Page No. : 1-A
Tot. Pages: 3
Date : 22-OCT-89
Invoice # : I-8927666
P.O. # : PLJ89-08

**** NOTE: CORRECTED COPY FOR SAMPLES 172498 + 172499 ****

CERTIFICATE OF ANALYSIS A8927666

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
172456	205	238	15	2.68	< 0.2	< 5	100	< 0.5	< 2	3.98	< 0.5	23	14	94	5.78	< 10	< 1	0.16	< 10	2.89	900
172457	205	238	10	1.71	< 0.2	< 5	120	< 0.5	2	9.03	< 0.5	13	21	159	3.35	< 10	< 1	0.09	< 10	2.01	1155
172458	205	238	< 5	2.59	< 0.2	10	110	< 0.5	6	5.68	< 0.5	22	21	88	5.24	< 10	< 1	0.06	< 10	2.69	1235
172459	205	238	< 5	3.03	< 0.2	30	260	< 0.5	2	3.36	< 0.5	29	72	263	6.61	< 10	< 1	0.06	< 10	1.98	1215
172460	205	238	10	1.82	< 0.2	5	100	< 0.5	2	8.09	< 0.5	24	59	81	4.79	< 10	< 1	0.20	< 10	1.68	910
172461	205	238	< 5	2.52	< 0.2	15	180	< 0.5	6	7.39	< 0.5	26	76	79	4.65	< 10	< 1	0.08	< 10	2.80	1115
172462	205	238	65	0.41	< 0.2	15	310	< 0.5	2	1.91	< 0.5	8	48	13	2.13	< 10	< 1	0.07	< 10	0.61	360
172463	205	238	5	0.65	< 0.2	20	190	< 0.5	< 2	6.19	< 0.5	8	39	6	2.12	< 10	< 1	0.03	< 10	0.38	1045
172464	205	238	30	0.63	< 0.2	70	360	< 0.5	4	10.05	< 0.5	21	40	8	5.54	< 10	< 1	0.15	< 10	4.18	1795
172466	205	238	< 5	0.74	< 0.2	40	180	< 0.5	2	3.22	< 0.5	8	71	24	2.05	< 10	< 1	0.04	< 10	0.85	1110
172467	205	238	5	1.06	< 0.2	< 5	190	< 0.5	6	1.81	0.5	20	36	47	6.37	< 10	< 1	0.15	10	1.41	1565
172468	205	238	< 5	0.78	< 0.2	30	130	< 0.5	8	4.70	< 0.5	32	9	35	7.88	< 10	< 1	0.19	< 10	1.89	1180
172469	205	238	80	1.92	< 0.2	20	60	< 0.5	8	1.07	< 0.5	33	38	162	4.58	< 10	< 1	0.01	< 10	1.20	360
172470	205	238	< 5	1.38	< 0.2	< 5	100	< 0.5	4	0.13	< 0.5	9	44	99	6.21	< 10	< 1	0.07	< 10	0.98	555
172471	205	238	10	0.40	0.8	< 5	60	< 0.5	< 2	0.03	0.5	10	143	175	5.55	< 10	< 1	0.02	< 10	0.17	210
172472	205	238	< 5	0.45	0.2	< 5	50	< 0.5	4	0.12	< 0.5	10	215	56	2.30	< 10	< 1	0.07	< 10	0.31	230
172473	205	238	< 5	2.12	< 0.2	5	20	< 0.5	6	2.04	< 0.5	20	74	38	4.71	< 10	< 1	< 0.01	< 10	2.18	800
172474	205	238	< 5	0.29	< 0.2	< 5	590	< 0.5	< 2	0.16	< 0.5	6	81	8	1.86	< 10	< 1	0.16	20	0.02	80
172475	205	238	< 5	0.18	0.2	< 5	540	< 0.5	< 2	0.32	< 0.5	3	24	9	1.47	< 10	< 1	0.08	10	0.04	145
172476	205	238	< 5	0.31	< 0.2	< 5	20	< 0.5	< 2	0.04	< 0.5	23	24	10	4.04	< 10	< 1	0.01	< 10	0.20	75
172477	205	238	10	0.61	< 0.2	5	80	< 0.5	2	1.60	< 0.5	22	137	86	3.01	< 10	< 1	0.06	< 10	0.53	675
172478	205	238	10	1.72	< 0.2	20	180	< 0.5	4	0.29	< 0.5	30	422	168	5.99	< 10	< 1	0.44	< 10	1.72	460
172479	205	238	45	0.32	1.0	5	50	< 0.5	2	0.15	< 0.5	35	20	113	5.09	< 10	< 1	0.10	< 10	0.04	35
172480	205	238	50	0.48	0.2	40	10	< 0.5	2	0.06	< 0.5	25	87	347	3.59	< 10	< 1	0.03	< 10	0.16	245
172481	205	238	< 5	1.42	< 0.2	10	50	< 0.5	4	0.17	< 0.5	9	99	90	5.32	< 10	< 1	0.06	< 10	0.74	280
172482	205	238	1000	1.55	2.8	180	60	< 0.5	6	1.71	< 0.5	106	70	2890	5.06	< 10	< 1	0.06	< 10	0.31	1065
172483	205	238	35	0.97	< 0.2	15	10	< 0.5	6	0.89	< 0.5	158	114	220	11.50	< 10	< 1	0.06	10	0.72	175
172484	205	238	< 5	0.50	0.4	< 5	90	< 0.5	4	0.06	< 0.5	21	156	159	2.82	< 10	< 1	0.08	< 10	0.35	100
172485	205	238	135	0.03	33.8	< 5	30	< 0.5	38	0.99	>100.0	8	215	53	1.43	< 10	< 1	< 0.01	< 10	0.01	230
172486	205	238	30	1.50	< 0.2	5	90	< 0.5	2	3.59	1.0	18	19	8	5.07	< 10	< 1	0.12	< 10	0.81	1230
172487	205	238	< 5	2.78	< 0.2	15	250	< 0.5	4	6.75	2.5	34	94	201	7.23	< 10	< 1	0.30	< 10	2.47	1290
172488	205	238	235	0.07	45.0	6140	70	< 0.5	92	0.03	1.0	13	99	47	5.59	< 10	< 1	< 0.01	< 10	0.01	65
172490	205	238	220	0.20	9.2	330	40	< 0.5	14	1.20	3.0	28	105	291	4.93	< 10	< 1	0.06	< 10	0.37	560
172491	205	238	3690	0.10	152.0	5730	10	< 0.5	252	0.01	46.0	74	75	64	>15.00	< 10	< 1	< 0.01	< 10	0.01	80
172492	205	238	160	0.25	6.6	190	300	< 0.5	20	6.39	2.0	34	88	20	4.84	< 10	< 1	0.12	< 10	1.40	1470
172493	205	238	130	0.42	5.6	600	20	< 0.5	16	0.04	0.5	104	58	773	>15.00	< 10	< 1	< 0.01	< 10	0.11	260
172494	205	238	70	1.52	1.8	170	120	< 0.5	12	1.98	9.5	31	66	84	6.84	10	< 1	0.31	< 10	1.08	1100
172495	205	238	55	0.10	17.8	280	20	< 0.5	14	0.03	35.5	26	253	66	5.21	< 10	< 1	< 0.01	< 10	0.03	320
172496	205	238	1600	0.06	81.4	235	30	< 0.5	114	0.19	>100.0	18	149	166	2.85	< 10	< 1	< 0.01	< 10	0.04	230
172497	205	238	25	3.06	1.2	35	300	< 0.5	8	1.69	1.0	28	45	219	7.72	10	< 1	0.29	< 10	0.96	340

CERTIFICATION : B. Caufield

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE. NORTH VANCOUVER.
BRITISH COLUMBIA. CANADA V7J-2C1
PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.
207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2
Project : GINNY + CUDS
Comments: ATTN: DAVID A CAULFIELD

Date : 22-OCT-89
Invoice # : I-8927666
P.O. # : PLJ89-08

CERTIFICATE OF ANALYSIS A8927666

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
172456	205 238	1	0.01	3	1530	< 2	< 5	6	62	0.06	< 10	< 10	95	< 10	70
172457	205 238	4	0.02	4	1440	< 2	< 5	4	148	0.01	< 10	< 10	70	< 10	38
172458	205 238	1	0.02	7	680	< 2	< 5	12	59	0.03	< 10	< 10	137	< 10	76
172459	205 238	< 1	0.02	9	660	< 2	5	7	102	< 0.01	< 10	< 10	68	< 10	98
172460	205 238	19	0.01	9	4790	< 2	5	4	88	0.01	< 10	< 10	85	< 10	48
172461	205 238	1	0.01	7	1660	< 2	5	7	116	< 0.01	< 10	< 10	87	< 10	76
172462	205 238	< 1	0.01	4	150	< 2	< 5	1	21	< 0.01	< 10	< 10	5	< 10	26
172463	205 238	< 1	0.03	2	50	< 2	5	2	58	< 0.01	< 10	< 10	3	< 10	10
172464	205 238	2	0.02	10	680	< 2	5	9	191	< 0.01	< 10	< 10	45	< 10	56
172466	205 238	< 1	< 0.01	14	580	< 2	5	2	101	< 0.01	< 10	< 10	12	< 10	38
172467	205 238	1	0.02	17	1540	< 2	< 5	16	77	< 0.01	< 10	< 10	70	< 10	122
172468	205 238	1	0.01	7	1450	< 2	5	27	185	< 0.01	< 10	< 10	131	< 10	74
172469	205 238	< 1	0.14	59	590	< 2	< 5	4	53	0.25	< 10	< 10	66	< 10	56
172470	205 238	< 1	0.01	8	520	< 2	< 5	3	6	0.01	< 10	< 10	78	< 10	76
172471	205 238	1	< 0.01	6	90	< 2	< 5	1	2	< 0.01	< 10	< 10	17	< 10	152
172472	205 238	< 1	< 0.01	7	300	< 2	< 5	4	3	0.08	< 10	< 10	42	< 10	28
172473	205 238	< 1	0.01	20	650	< 2	< 5	11	15	0.22	< 10	< 10	85	< 10	72
172474	205 238	< 1	0.05	2	90	4	< 5	< 1	27	< 0.01	< 10	< 10	8	< 10	8
172475	205 238	< 1	0.02	< 1	140	6	< 5	< 1	38	< 0.01	< 10	< 10	7	< 10	8
172476	205 238	33	0.03	10	110	< 2	< 5	< 1	6	0.04	< 10	< 10	19	< 10	12
172477	205 238	13	0.03	28	270	6	< 5	4	16	0.16	< 10	< 10	51	< 10	16
172478	205 238	4	0.05	114	480	< 2	< 5	18	6	0.28	< 10	< 10	96	< 10	30
172479	205 238	4	0.03	4	330	48	< 5	< 1	33	0.18	< 10	< 10	9	< 10	10
172480	205 238	1	< 0.01	30	180	< 2	< 5	1	2	0.03	< 10	< 10	16	< 10	16
172481	205 238	24	0.04	11	920	< 2	< 5	5	7	0.09	< 10	< 10	99	< 10	24
172482	205 238	2	0.04	4	1070	< 2	< 5	2	72	0.09	< 10	< 10	26	< 10	84
172483	205 238	68	0.02	54	5110	< 2	< 5	8	11	0.07	< 10	< 10	231	< 10	30
172484	205 238	27	0.02	24	80	4	< 5	2	2	0.05	< 10	< 10	25	< 10	16
172485	205 238	< 1	< 0.01	5	30	5700	< 5	< 1	34	< 0.01	< 10	< 10	2	< 10	4600
172486	205 238	< 1	0.01	5	1010	10	< 5	5	51	< 0.01	< 10	< 10	30	< 10	98
172487	205 238	< 1	0.02	61	710	16	< 5	23	117	< 0.01	< 10	< 10	154	< 10	130
172488	205 238	2	< 0.01	10	20	1480	< 5	< 1	5	< 0.01	< 10	< 10	2	< 10	88
172490	205 238	17	< 0.01	15	150	90	5	1	46	< 0.01	< 10	< 10	9	< 10	118
172491	205 238	5	< 0.01	12	< 10	8480	< 5	1	2	< 0.01	< 10	< 10	4	< 10	854
172492	205 238	< 1	< 0.01	15	330	378	< 5	2	264	< 0.01	< 10	< 10	12	< 10	82
172493	205 238	77	< 0.01	21	60	130	< 5	2	4	< 0.01	< 10	< 10	15	< 10	62
172494	205 238	3	0.01	17	1100	260	< 5	6	58	0.03	< 10	< 10	63	< 10	232
172495	205 238	1	< 0.01	9	40	4780	5	< 1	3	< 0.01	< 10	< 10	4	< 10	572
172496	205 238	1	< 0.01	5	20	>10000	10	< 1	7	< 0.01	< 10	< 10	2	< 10	3010
172497	205 238	7	0.35	11	1200	118	< 5	12	208	0.07	< 10	< 10	122	< 10	76

CERTIFICATION : B. Caufield

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE. NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.
207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2
Project : GINNY + CUDS
Comments: ATTN: DAVID A. CAULFIELD

Date : 22-OCT-89
Invoice # : I-8927666
P.O. # : PLJ89-08

CERTIFICATE OF ANALYSIS A8927666

*** NOTE: CORRECTED COPY FOR SAMPLES 172498 + 172499

	SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
***	172498	205 238	175	0.10	66.0	1295	10	< 0.5	436	0.04	4.0	15	147	284	4.82	< 10	< 1	0.01	< 10	0.02	165
***	172499	205 238	3550	0.15	26.0	>10000	30	< 0.5	80	0.01	>100.0	6	69	315	7.68	< 10	< 1	0.04	< 10	0.01	185
	459120	205 238	90	2.08	1.0	170	180	< 0.5	22	0.71	3.0	11	173	61	3.28	< 10	< 1	0.17	< 10	1.21	415
	459121	205 238	20	0.65	0.4	120	110	< 0.5	6	0.61	1.0	8	205	119	1.37	< 10	< 1	0.12	10	0.22	1120
	459122	205 238	< 5	2.10	0.4	200	10	< 0.5	22	0.30	< 0.5	14	79	52	4.11	< 10	< 1	0.01	< 10	1.86	580
	459123	205 238	10	0.52	0.8	45	10	< 0.5	12	0.86	0.5	47	51	524	3.89	< 10	< 1	0.01	< 10	0.09	185
	459124	205 238	< 5	1.58	0.4	25	20	< 0.5	20	0.60	< 0.5	23	20	130	4.33	< 10	< 1	0.02	< 10	1.29	510
	459125	205 238	>10000	1.65	4.2	20	10	< 0.5	52	0.63	< 0.5	498	42	687	>15.00	10	< 1	0.01	< 10	0.65	380
	459126	205 238	280	1.59	2.0	45	50	< 0.5	30	0.66	< 0.5	18	55	2420	8.59	< 10	< 1	0.05	< 10	0.67	295
	459127	205 238	80	0.31	< 0.2	10	< 10	< 0.5	48	0.41	< 0.5	908	44	155	>15.00	< 10	< 1	< 0.01	< 10	0.03	75
	459128	205 238	60	0.56	0.4	15	< 10	< 0.5	2	0.52	< 0.5	95	57	267	3.31	< 10	< 1	< 0.01	< 10	0.27	130
	459129	205 238	75	1.53	0.6	20	< 10	< 0.5	< 2	1.41	< 0.5	216	139	1030	5.39	< 10	< 1	0.02	< 10	0.27	265
	459130	205 238	35	1.19	0.6	< 5	30	< 0.5	8	0.27	< 0.5	14	236	77	3.43	< 10	< 1	0.04	< 10	1.23	200
	459131	205 238	5	0.79	0.2	10	20	< 0.5	< 2	1.40	< 0.5	20	54	292	4.28	< 10	< 1	0.03	< 10	0.20	330
	459132	205 238	< 5	1.46	0.6	< 2	< 10	< 0.5	4	1.21	0.5	14	116	150	3.46	< 10	< 1	< 0.01	< 10	0.49	285
	459133	205 238	< 5	1.23	0.4	10	< 10	< 0.5	< 2	1.88	< 0.5	33	87	362	4.41	< 10	< 1	0.05	< 10	0.38	410
	459134	205 238	10	1.83	< 0.2	20	10	< 0.5	4	1.02	< 0.5	29	43	456	5.29	< 10	< 1	0.10	< 10	1.00	240
	459135	205 238	< 5	0.45	1.2	< 5	40	< 0.5	6	0.35	< 0.5	11	196	222	1.06	< 10	< 1	0.02	< 10	0.39	130
	459449	205 238	< 5	2.08	< 0.2	< 5	10	< 0.5	2	1.53	< 0.5	22	74	44	5.08	< 10	< 1	0.03	< 10	1.38	525
	459450	205 238	< 5	2.74	0.6	< 5	40	< 0.5	4	1.10	< 0.5	19	41	114	6.43	< 10	< 1	0.08	< 10	1.88	800
	459484	205 238	30	2.85	< 0.2	< 5	90	0.5	4	0.90	< 0.5	229	56	147	8.82	10	< 1	0.11	10	1.91	775
	459493	205 238	< 5	3.20	< 0.2	30	80	< 0.5	< 2	3.25	< 0.5	37	67	177	8.06	10	< 1	0.06	< 10	2.83	1195
	459496	205 238	< 5	1.99	< 0.2	20	10	< 0.5	< 2	1.55	< 0.5	31	27	178	5.21	< 10	< 1	0.04	< 10	1.05	595
	459497	205 238	< 5	1.32	< 0.2	< 5	510	< 0.5	< 2	0.70	< 0.5	9	67	37	3.18	< 10	< 1	0.62	10	0.82	795
	459601	205 238	< 5	1.68	< 0.2	5	< 10	< 0.5	< 2	0.25	< 0.5	26	185	84	5.67	< 10	< 1	< 0.01	< 10	1.03	440
	459602	205 238	< 5	0.92	< 0.2	30	80	< 0.5	< 2	0.12	< 0.5	18	57	79	4.79	< 10	< 1	0.12	10	0.28	685
	459603	205 238	< 5	2.27	< 0.2	10	10	< 0.5	< 2	1.45	< 0.5	69	29	207	10.60	10	< 1	0.01	10	1.23	650
	459604	205 238	< 5	1.37	< 0.2	< 5	10	< 0.5	2	1.42	< 0.5	22	54	69	3.95	< 10	< 1	0.05	10	0.90	365
	459605	205 238	< 5	1.49	1.0	145	10	2.5	< 2	0.62	< 0.5	10	19	65	6.40	20	< 1	0.06	10	0.96	355
	459606	205 238	< 5	< 0.01	1.0	< 5	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	< 1	< 1	< 0.01	10	< 1	< 0.01	< 10	< 0.01	< 5
	459607	205 238	< 5	0.25	1.4	20	10	< 0.5	< 2	0.10	< 0.5	2	3	4	0.48	10	< 1	0.02	< 10	0.16	75
	459608	205 238	< 5	2.06	< 0.2	10	60	< 0.5	< 2	0.72	< 0.5	21	25	183	5.19	< 10	< 1	0.14	< 10	1.06	470
	459609	205 238	< 5	2.75	< 0.2	< 5	60	0.5	< 2	1.00	< 0.5	13	87	61	4.45	10	< 1	0.12	< 10	1.23	530
	459610	205 238	< 5	0.34	1.8	30	< 10	< 0.5	< 2	0.17	< 0.5	3	8	8	0.56	10	< 1	0.01	< 10	0.17	75
	459611	205 238	< 5	0.05	1.2	5	< 10	< 0.5	< 2	0.02	< 0.5	< 1	1	< 1	0.07	10	< 1	< 0.01	< 10	0.01	5
	459612	205 238	< 5	0.37	0.2	< 5	40	< 0.5	< 2	0.05	< 0.5	3	38	3	0.92	< 10	< 1	0.14	10	0.06	115
	459613	205 238	< 5	0.22	1.6	20	< 10	< 0.5	< 2	0.04	< 0.5	3	6	7	0.49	10	< 1	< 0.01	< 10	0.21	60
	459614	205 238	< 5	0.38	0.2	30	100	< 0.5	< 2	0.09	< 0.5	5	154	34	2.06	< 10	< 1	0.13	< 10	0.06	205
	459615	205 238	< 5	2.22	< 0.2	< 5	30	< 0.5	< 2	0.31	< 0.5	20	51	227	7.10	< 10	< 1	0.03	< 10	1.89	600
	459616	205 238	< 5	1.08	< 0.2	10	70	< 0.5	< 2	1.67	< 0.5	11	60	40	4.01	< 10	< 1	0.14	10	0.92	960

CERTIFICATION : B. Caufield

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PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
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Project : GINNY + CUDS
Comments: ATTN: DAVID A. CAULFIELD

Page No. : 2-B
Tot. Pages: 3
Date : 22-OCT-89
Invoice # : I-8927666
P.O. # : PLJ89-08

CERTIFICATE OF ANALYSIS A8927666

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
172498	205	238	< 1	< 0.01	5	50	434	200	< 1	3	< 0.01	< 10	< 10	< 1	50	46
172499	205	238	57	< 0.01	6	170	1885	595	1	4	< 0.01	< 10	< 10	< 1	110	5870
459120	205	238	1	0.12	2	850	46	10	8	31	0.15	< 10	< 10	100	< 10	132
459121	205	238	1	0.01	16	140	16	5	5	19	< 0.01	< 10	< 10	20	< 10	44
459122	205	238	4	0.06	14	730	14	5	14	4	0.15	< 10	< 10	128	< 10	86
459123	205	238	14	0.04	58	1140	16	< 5	4	54	0.16	< 10	< 10	54	< 10	32
459124	205	238	2	0.02	6	1310	< 2	< 5	2	39	0.13	< 10	< 10	43	< 10	54
459125	205	238	14	0.01	40	890	40	5	4	42	0.09	10	< 10	36	< 10	62
459126	205	238	1	0.01	127	1270	14	5	2	81	0.08	< 10	< 10	73	< 10	42
459127	205	238	4	< 0.01	17	40	20	5	1	2	< 0.01	10	< 10	< 1	< 10	24
459128	205	238	7	0.04	4	950	< 2	5	1	33	0.07	< 10	< 10	12	< 10	12
459129	205	238	1	0.04	8	770	< 2	5	1	137	0.10	< 10	< 10	10	< 10	28
459130	205	238	4	0.03	35	550	< 2	< 5	6	12	0.16	< 10	< 10	59	< 10	22
459131	205	238	73	0.03	15	1530	< 2	< 5	2	73	0.08	< 10	< 10	41	< 10	24
459132	205	238	4	0.09	9	920	< 2	< 5	2	151	0.15	< 10	< 10	27	< 10	24
459133	205	238	20	0.11	42	1280	< 2	5	6	112	0.28	< 10	< 10	101	< 10	24
459134	205	238	5	0.08	8	1220	< 2	5	7	48	0.24	< 10	< 10	81	< 10	20
459135	205	238	2	0.05	35	790	< 2	< 5	2	3	0.09	< 10	< 10	85	< 10	18
459449	205	238	2	0.12	14	2580	< 2	< 5	11	28	0.25	< 10	< 10	94	< 10	76
459450	205	238	< 1	0.05	14	1700	< 2	5	18	26	0.24	< 10	< 10	209	< 10	78
459484	205	238	4	0.02	22	590	< 2	< 5	3	40	0.18	< 10	< 10	59	< 10	84
459493	205	238	7	0.02	55	590	< 2	< 5	11	71	< 0.01	< 10	< 10	188	< 10	140
459496	205	238	< 1	0.11	16	1070	2	< 5	10	17	0.42	< 10	< 10	202	< 10	66
459497	205	238	< 1	0.08	3	1250	< 2	< 5	3	33	0.21	< 10	< 10	57	< 10	76
459601	205	238	1	0.02	11	570	< 2	< 5	5	6	0.14	< 10	< 10	137	< 10	58
459602	205	238	2	0.04	15	550	10	< 5	10	6	< 0.01	< 10	< 10	60	< 10	104
459603	205	238	1	0.04	11	3600	< 2	< 5	5	16	0.20	< 10	< 10	97	< 10	368
459604	205	238	2	0.11	5	2170	< 2	< 5	9	21	0.26	< 10	< 10	115	< 10	44
459605	205	238	< 1	0.02	9	2930	< 2	45	11	10	0.11	< 10	10	92	< 10	54
459606	205	238	< 1	< 0.01	< 1	< 10	< 2	< 5	< 1	< 1	< 0.01	< 10	< 10	< 1	< 10	< 2
459607	205	238	< 1	< 0.01	2	180	< 2	5	< 1	1	0.02	< 10	< 10	6	< 10	14
459608	205	238	3	0.02	7	1060	2	< 5	2	58	0.16	< 10	< 10	36	< 10	38
459609	205	238	1	0.19	21	320	< 2	< 5	10	79	0.24	< 10	< 10	97	< 10	88
459610	205	238	< 1	0.01	4	40	< 2	10	1	10	0.02	< 10	< 10	12	< 10	12
459611	205	238	< 1	< 0.01	< 1	< 10	< 2	< 5	< 1	1	< 0.01	< 10	< 10	1	< 10	< 2
459612	205	238	< 1	0.08	3	40	< 2	< 5	< 1	10	< 0.01	< 10	< 10	16	< 10	6
459613	205	238	< 1	< 0.01	2	60	< 2	5	1	1	0.02	< 10	< 10	14	< 10	8
459614	205	238	21	< 0.01	18	520	16	< 5	2	10	< 0.01	< 10	< 10	49	< 10	108
459615	205	238	3	0.06	15	710	< 2	< 5	12	8	0.12	< 10	< 10	141	< 10	48
459616	205	238	2	0.03	9	730	< 2	< 5	10	73	< 0.01	< 10	< 10	50	< 10	50

CERTIFICATION : B. Caughlin

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : GINNY + CUDS
Comments: ATTN: DAVID A CAULFIELD

Date : 22-OCT-89
Invoice # : I-8927666
P.O. # : PLJ89-08

CERTIFICATE OF ANALYSIS A8927666

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
459617	205 238	< 5	2.29	1.0	< 5	180	< 0.5	< 2	0.69	9.5	23	34	356	5.03	< 10	< 1	0.14	10	1.42	965
459618	205 238	< 5	0.90	< 0.2	10	80	< 0.5	< 2	2.39	< 0.5	10	37	43	4.38	< 10	< 1	0.23	< 10	0.89	1265
459619	205 238	< 5	0.83	< 0.2	< 5	120	0.5	2	3.81	< 0.5	10	27	24	4.35	< 10	< 1	0.15	< 10	1.27	925
459620	205 238	< 5	1.93	< 0.2	< 5	30	< 0.5	< 2	0.70	< 0.5	13	60	22	4.36	< 10	< 1	0.01	10	1.87	695
459621	205 238	225	0.28	2.0	135	40	< 0.5	< 2	0.06	0.5	19	97	33	3.88	< 10	< 1	0.08	< 10	0.07	290
459624	205 238	< 5	0.90	< 0.2	10	10	< 0.5	< 2	0.41	< 0.5	7	30	100	3.90	10	< 1	< 0.01	20	0.59	330
459625	205 238	< 5	0.90	< 0.2	< 5	20	< 0.5	< 2	0.04	< 0.5	6	29	7	10.15	< 10	< 1	0.02	< 10	0.96	145
459626	205 238	< 5	0.89	< 0.2	10	20	< 0.5	2	0.25	< 0.5	24	40	38	3.77	< 10	< 1	0.05	< 10	0.81	260
459627	205 238	30	1.59	0.6	< 5	50	< 0.5	< 2	0.24	< 0.5	46	30	497	6.79	< 10	< 1	0.08	< 10	0.83	470
459628	205 238	120	0.21	8.4	7270	40	< 0.5	30	5.71	>100.0	9	79	197	2.81	< 10	< 1	0.14	< 10	0.55	2630
459629	205 238	< 5	0.67	< 0.2	145	100	< 0.5	8	5.23	5.0	11	58	139	3.17	< 10	< 1	0.28	< 10	1.24	1310
459630	205 238	< 5	0.57	4.2	70	40	< 0.5	< 2	2.14	1.0	86	75	657	14.55	< 10	< 1	0.11	< 10	0.38	680
459631	205 238	< 5	1.71	3.2	20	60	< 0.5	< 2	1.34	< 0.5	38	50	538	>15.00	< 10	< 1	0.19	< 10	0.89	835
459632	205 238	750	0.06	5.8	>10000	10	< 0.5	2	0.07	52.5	9	92	48	5.10	< 10	< 1	0.01	< 10	0.03	90
459633	205 238	15	0.54	< 0.2	525	110	< 0.5	4	6.83	2.0	16	29	123	4.62	< 10	< 1	0.26	< 10	1.52	1575
459634	205 238	< 5	0.98	0.4	135	40	< 0.5	< 2	1.61	< 0.5	36	86	284	5.30	< 10	< 1	0.12	< 10	0.51	465
459635	205 238	170	0.15	3.2	765	30	< 0.5	< 2	0.19	2.0	16	133	129	4.52	< 10	< 1	0.05	< 10	0.04	260
459636	205 238	5900	0.10	>200	>10000	10	< 0.5	260	0.05	>100.0	6	43	1885	>15.00	< 10	< 1	0.01	< 10	0.01	45
459638	205 238	100	0.09	4.8	725	10	< 0.5	96	0.02	16.0	7	123	135	3.15	< 10	< 1	0.02	< 10	< 0.01	105
459639	205 238	10	0.14	3.0	265	10	< 0.5	4	0.02	6.5	< 1	90	23	0.49	< 10	< 1	0.08	< 10	< 0.01	75
459640	205 238	70	0.19	0.2	75	40	< 0.5	12	0.02	< 0.5	8	91	275	9.52	< 10	< 1	0.10	< 10	0.01	100
459641	205 238	< 5	0.92	< 0.2	5	40	< 0.5	< 2	0.20	< 0.5	18	45	19	12.90	< 10	< 1	0.02	< 10	0.83	415
459642	205 238	< 5	1.04	< 0.2	10	10	< 0.5	< 2	0.39	< 0.5	30	44	13	>15.00	< 10	< 1	0.01	< 10	1.08	280
459643	205 238	< 5	1.73	< 0.2	10	90	< 0.5	2	0.57	< 0.5	16	48	74	4.73	< 10	< 1	0.03	10	1.01	670
459644	205 238	< 5	1.72	< 0.2	< 5	80	< 0.5	< 2	0.54	< 0.5	15	44	78	5.26	< 10	< 1	0.03	10	1.02	670
463067	205 238	< 5	0.27	2.2	< 5	120	< 0.5	< 2	0.32	< 0.5	26	79	3420	3.63	< 10	< 1	0.05	< 10	0.03	135
463068	205 238	< 5	0.85	1.4	10	180	< 0.5	< 2	0.27	< 0.5	26	59	2870	3.52	< 10	< 1	0.05	< 10	0.37	270
463069	205 238	20	0.12	4.0	< 5	20	< 0.5	< 2	0.02	6.0	101	119	7830	10.60	< 10	< 1	< 0.01	< 10	0.02	70
463073	205 238	50	2.18	< 0.2	< 5	210	< 0.5	< 2	1.65	0.5	26	40	165	6.15	< 10	< 1	0.17	< 10	1.47	760
463075	205 238	4020	2.60	13.6	< 5	40	< 0.5	< 2	0.57	4.0	17	99	>10000	7.36	< 10	< 1	0.03	< 10	2.16	815
463082	205 238	10	1.49	< 0.2	25	60	< 0.5	< 2	1.04	2.0	16	90	169	4.90	< 10	< 1	0.90	10	1.36	370
463083	205 238	< 5	0.31	< 0.2	< 5	40	< 0.5	< 2	0.04	< 0.5	2	114	60	0.57	< 10	< 1	0.12	< 10	0.05	140
463085	205 238	< 5	2.67	< 0.2	5	140	< 0.5	< 2	0.21	< 0.5	20	64	67	5.26	< 10	< 1	0.15	10	2.77	640
463086	205 238	< 5	1.25	< 0.2	< 5	220	< 0.5	4	8.02	< 0.5	10	45	12	3.34	< 10	< 1	0.07	< 10	1.78	780
463087	205 238	< 5	2.30	< 0.2	5	10	< 0.5	2	2.41	0.5	33	80	651	5.20	< 10	< 1	0.01	< 10	1.85	630
463088	205 238	30	2.24	2.8	< 5	10	< 0.5	< 2	0.61	< 0.5	17	107	3900	3.65	< 10	< 1	< 0.01	< 10	2.41	840
463089	205 238	50	2.74	< 0.2	135	20	< 0.5	4	0.75	< 0.5	23	84	122	5.50	< 10	< 1	0.03	10	2.08	580
463412	205 238	< 5	1.90	0.6	80	10	< 0.5	4	0.66	0.5	74	60	501	4.76	< 10	< 1	0.02	< 10	1.34	600

CERTIFICATION : B. Caufield

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE. NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.
207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2
Project : GINNY + CUDS
Comments: ATTN: DAVID A. CAULFIELD

Date : 22-OCT-89
Invoice # : I-8927666
P.O. # : PLJ89-08

CERTIFICATE OF ANALYSIS A8927666

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
459617	205	238	1	0.01	11	780	< 2	< 5	5	15	< 0.01	< 10	< 10	52	< 10	1295
459618	205	238	2	0.02	4	860	< 2	< 5	8	83	< 0.01	< 10	< 10	31	< 10	118
459619	205	238	1	0.02	11	470	12	< 5	6	98	< 0.01	< 10	< 10	25	< 10	98
459620	205	238	1	0.04	6	1290	4	< 5	3	34	0.18	< 10	< 10	64	< 10	88
459621	205	238	3	< 0.01	10	210	30	< 5	1	2	< 0.01	< 10	< 10	4	< 10	34
459624	205	238	11	0.04	3	1360	2	< 5	6	7	0.20	< 10	< 10	23	< 10	32
459625	205	238	6	0.03	< 1	1140	4	< 5	3	3	< 0.01	< 10	< 10	50	< 10	34
459626	205	238	8	0.04	10	830	6	< 5	4	6	0.12	< 10	< 10	74	< 10	26
459627	205	238	37	0.03	11	840	< 2	< 5	1	25	0.11	< 10	< 10	62	< 10	48
459628	205	238	5	< 0.01	4	240	226	40	3	245	< 0.01	< 10	< 10	3	2140	>10000
459629	205	238	191	0.03	31	670	8	10	5	201	< 0.01	< 10	< 10	21	80	186
459630	205	238	573	< 0.01	26	210	14	< 5	2	85	< 0.01	< 10	< 10	9	< 10	82
459631	205	238	30	0.01	16	680	62	< 5	4	12	0.01	< 10	< 10	61	570	70
459632	205	238	16	< 0.01	17	10	198	75	< 1	6	< 0.01	< 10	< 10	< 1	< 10	86
459633	205	238	27	0.01	43	2000	20	10	12	311	< 0.01	< 10	< 10	28	< 10	62
459634	205	238	22	0.08	23	860	6	< 5	4	65	0.02	< 10	< 10	28	< 10	30
459635	205	238	169	< 0.01	16	100	18	< 5	1	6	< 0.01	< 10	< 10	2	< 10	34
459636	205	238	40	< 0.01	< 1	< 10	4190	2820	1	9	< 0.01	< 10	< 10	< 1	1450	>10000
459638	205	238	51	0.01	4	< 10	90	20	< 1	2	< 0.01	< 10	< 10	4	< 10	474
459639	205	238	1	0.03	< 1	20	56	20	< 1	3	< 0.01	< 10	< 10	1	< 10	192
459640	205	238	141	0.02	13	< 10	< 2	< 5	< 1	3	< 0.01	< 10	< 10	8	< 10	32
459641	205	238	6	0.02	6	1510	2	< 5	15	2	0.47	< 10	< 10	77	< 10	46
459642	205	238	7	0.02	6	1590	< 2	< 5	9	5	0.32	< 10	< 10	78	< 10	54
459643	205	238	4	0.05	9	1110	< 2	< 5	4	27	0.12	< 10	< 10	52	< 10	44
459644	205	238	5	0.04	10	1090	< 2	< 5	4	25	0.11	< 10	< 10	53	< 10	46
463067	205	238	10	< 0.01	3	200	< 2	< 5	< 1	14	< 0.01	< 10	< 10	8	< 10	26
463068	205	238	7	< 0.01	4	460	< 2	< 5	1	21	0.01	< 10	< 10	13	< 10	46
463069	205	238	9	< 0.01	11	< 10	< 2	< 5	< 1	2	< 0.01	< 10	< 10	< 1	< 10	156
463073	205	238	3	0.01	19	870	< 2	< 5	6	48	< 0.01	< 10	< 10	45	< 10	98
463075	205	238	7	0.01	23	540	14	< 5	11	4	0.30	< 10	< 10	177	< 10	620
463082	205	238	7	0.04	16	1080	4	< 5	12	47	0.14	< 10	< 10	179	< 10	182
463083	205	238	490	0.04	3	20	< 2	< 5	< 1	4	< 0.01	< 10	< 10	< 1	< 10	16
463085	205	238	23	0.02	28	810	6	< 5	5	9	0.01	< 10	< 10	59	< 10	90
463086	205	238	4	0.01	13	670	< 2	< 5	4	98	0.17	< 10	< 10	32	< 10	28
463087	205	238	1	0.04	55	630	< 2	< 5	5	11	0.26	< 10	< 10	111	< 10	174
463088	205	238	< 1	0.01	39	580	< 2	< 5	2	40	0.14	< 10	< 10	57	< 10	96
463089	205	238	1	0.08	13	910	10	< 5	5	32	0.25	< 10	< 10	196	< 10	112
463412	205	238	1	0.03	33	780	< 2	< 5	3	27	0.28	< 10	< 10	89	< 10	56

CERTIFICATION : B. Caughlin

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.

207 – 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A8928305

Comments: ATTN: DAVID A. CAULFIELD

CERTIFICATE A8928305

EQUITY ENGINEERING LTD.
PROJECT : GINNY + CUDS
P.O.# : PLJ89-08

Samples submitted to our lab in Vancouver, BC.
This report was printed on 22-OCT-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	1	Received sample as pulp

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
396	1	Au oz/T: 1/2 assay ton	FA-GRAVIMETRIC	0.003	20.000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : GINNY + CUDS
Comments: ATTN: DAVID A CAULFIELD

Date : 22-OCT-89
Invoice # : I-8928305
P.O. # : PLJ89-08

CERTIFICATE OF ANALYSIS A8928305

SAMPLE DESCRIPTION	PREP CODE		Au FA oz/T
459125	214	--	0.541

CERTIFICATION : W. Stan Armanini

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE . NORTH VANCOUVER.
BRITISH COLUMBIA. CANADA V7J-2C1
PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A8929198

Comments: ATTN: BRUNO KASPER

CERTIFICATE A8929198

EQUITY ENGINEERING LTD.
PROJECT : GINNY & CUDS
P.O.# : NONE

Samples submitted to our lab in Vancouver, BC.
This report was printed on 6-NOV-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	4	Received sample as pulp

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
301	1	Cu %: HClO4-HNO3 digestion	AAS	0.01	100.0
312	1	Pb %: HClO4-HNO3 digestion	AAS	0.01	100.0
316	2	Zn %: HClO4-HNO3 digestion	AAS	0.01	100.0

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.
207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2
Project : GINNY & CUDS
Comments: ATTN: BRUNO KASPER

Page No. : 1
Tot. Pages: 1
Date : 6-NOV-89
Invoice # : I-8929198
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8929198

SAMPLE DESCRIPTION	PREP CODE		Cu %	Pb %	Zn %
172496	214	--	-----	1.29	-----
459628	214	--	-----	-----	1.40
459636	214	--	-----	-----	2.95
463075	214	--	1.06	-----	-----

CERTIFICATION : W. Kon Armenini

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A8931829

Comments: ATTN: DAVID CAULFIELD

CERTIFICATE A8931829

EQUITY ENGINEERING LTD.
PROJECT : GINNY + CUDS
P.O.# : PLJ89-08

Samples submitted to our lab in Vancouver, BC.
This report was printed on 17-DEC-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	6	Received sample as pulp

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
396	6	Au oz/T: 1/2 assay ton	FA-GRAVIMETRIC	0.003	20.000
383	2	Ag oz/T	FA-GRAVIMETRIC	0.01	20.00

Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
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To : EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : GINNY + CUDS
Comments: ATTN: DAVID CAULFIELD

Page No. : 1
Tot. Pages: 1
Date : 17-DEC-89
Invoice # : I-8931829
P.O. # : PLJ89-08

CERTIFICATE OF ANALYSIS A8931829

SAMPLE DESCRIPTION	PREP CODE		Au FA oz/T	Ag FA oz/T
172482	214	--	0.044	-----
172491	214	--	0.126	4.47
172496	214	--	0.064	-----
172499	214	--	0.114	-----
459636	214	--	0.160	10.80
463075	214	--	0.086	-----

CERTIFICATION : A Chrétien

APPENDIX E

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, BRUNO KASPER, of 101-1990 West 6th Avenue, Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY:

1. 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 Alberta with a Bachelor of Science degree in Geology.

3. THAT my primary employment since June, 1988 has been in the field of mineral exploration.

4. THAT this report is based on fieldwork carried out under my direction.

5. THAT I directly and indirectly own 1000 shares of Pass Lake Resources Ltd..

DATED at Vancouver, British Columbia, this 4th day of April, 1992.

Bruno Kasper, Geologist

CUDS 1
5837 (3)

CUDS 2
5838 (3)

CUDS 3
5845 (3)

CUDS 4
5846 (3)

CUDS 5
5833 (3)

CUDS 6
5834 (3)

CUDS 7
5835 (3)

CUDS 8
5836 (3)

GINNY 1
5847 (3)

GINNY 2
5848 (3)

GINNY 3
5839 (3)

GINNY 4
5840 (3)

GINNY 5
5841 (3)

GINNY 6
5842 (3)

GINNY 7
5843 (3)

GINNY 8
5844 (3)

PORCUPINE AIRSTRIP
(Approx. Location)

L.C.P.

DUC ZONE
QZ & CY Alteration

1969 CAMP LOCATION

CB & QZ Alteration

MS Alteration

DELUXE ZONE

MT. HAROLD
ΔA.D. 3854
4990'

MIDDLE GLACIER

PORCUPINE GLACIER

SOUTH PORCUPINE GLACIER

RED GLACIER

RED PEAK

SPLIT CK.

PORCUPINE RIVER

Bud Creek

Comp Creek

Andesite Creek

PHALEN CREEK

Porcupine River

6 323 000 N
6 322 000 N
6 321 000 N
6 320 000 N
6 319 000 N
6 318 000 N
6 317 000 N
6 316 000 N
6 315 000 N
6 314 000 N
6 313 000 N

345 000 E
346 000 E

FIELD SCREENED STREAM SEDIMENT GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
459474	10	<0.2	61	4	92	<5
459475	50	<0.2	82	20	102	30
459476	20	<0.2	43	<2	76	20
459477	5	<0.2	54	8	88	<5
459478	<5	<0.2	66	<2	86	<5
459479	<5	<0.2	73	<2	86	25
459480	<5	<0.2	76	<2	106	40
459481	<5	<0.2	66	2	100	50
459482	5	0.2	50	6	96	30
459483	5	<0.2	96	<2	100	20
459485	20	<0.2	25	2	90	10
459486	<5	<0.2	22	<2	62	<5
459487	<5	<0.2	72	4	108	10
459488	<5	<0.2	53	4	74	30
459490	<5	<0.2	24	<2	74	15
459491	<5	<0.2	15	<2	60	<5
459492	<5	<0.2	145	8	128	275
459499	<5	<0.2	21	2	160	20
459500	<5	<0.2	18	16	148	20
463401	5	<0.2	38	<2	100	<5
463403	<5	<0.2	45	<2	74	5
463404	<5	<0.2	49	<2	82	<5
463405	<5	<0.2	48	<2	76	<5
463406	<5	<0.2	48	<2	76	15
463407	<5	<0.2	48	<2	170	110
463413	<5	<0.2	142	2	148	195

GOVERNMENT REGIONAL GEOCHEMICAL SAMPLES

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
871538	6	0.2	55	8	62	4
873007	11	0.1	83	4	68	25
873008	10	0.1	83	7	70	23
873009	6	0.1	43	7	110	9

STATISTICAL ANALYSIS FOR GOVERNMENT REGIONAL GEOCHEMICAL SAMPLES

Percentile	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
90th	58	0.6	117	28	220	65
95th	168	1.0	169	48	328	78
99th	493	2.1	372	134	570	310

ROCK GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
172456	15	<0.2	94	<2	70	<5
172457	10	<0.2	159	<2	38	<5
172458	<5	<0.2	88	<2	76	10
172459	<5	<0.2	263	<2	98	30
172460	10	<0.2	81	<2	48	5
172461	<5	<0.2	79	<2	76	15
172462	65	<0.2	13	<2	26	15
172463	5	<0.2	7	<2	10	20
172464	30	<0.2	8	<2	56	70
172466	<5	<0.2	24	<2	38	40
172467	5	<0.2	47	<2	122	<5
172468	<5	<0.2	35	<2	74	30
172469	80	<0.2	162	<2	56	20
172470	<5	<0.2	99	<2	76	<5
172471	10	0.8	175	<2	152	<5
172472	<5	0.2	56	<2	28	<5
172473	<5	<0.2	38	<2	72	5
172474	<5	<0.2	8	4	8	<5
172475	<5	0.2	9	6	8	<5
172476	<5	<0.2	10	<2	12	<5
172477	10	<0.2	86	6	16	5
172478	10	<0.2	168	<2	30	20
172479	45	1.0	113	48	10	5
172480	50	0.2	347	<2	16	40
172481	<5	<0.2	90	<2	24	10
172482	*0.044	2.8	2890	<2	84	180
172483	35	<0.2	220	<2	30	15
172484	<5	0.4	159	<2	16	<5
172485	135	33.8	53	5700	4600	<5
172486	30	<0.2	8	10	98	5
172487	10	<0.2	201	16	130	15
172488	235	45.0	47	1480	88	6140
172490	220	9.2	291	36	118	330
172491	*0.126	*4.47	64	8480	854	5730
172492	160	6.6	20	378	82	190
172493	130	5.6	773	130	62	600
172494	90	1.8	84	260	232	170
172495	55	17.8	66	4780	572	280
172496	*0.064	81.4	166	1.29%	3010	235
172497	25	1.2	213	118	76	35
172498	175	66.0	284	424	46	1295
172499	*0.114	26.0	315	1885	5870	>10000
459120	90	1.0	61	46	132	170
459121	20	0.4	119	16	44	120
459122	<5	0.4	52	14	86	200
459123	10	0.8	524	16	32	45
459124	<5	0.4	130	<2	54	25
459125	*0.541	4.2	687	40	62	20
459126	280	2.0	2420	14	42	45
459127	80	<0.2	155	20	24	10

* Denotes oz/ton

ROCK GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
459128	60	0.4	267	<2	12	15
459129	95	0.6	1030	<2	28	20
459130	35	0.6	77	<2	22	<5
459131	5	0.2	292	<2	24	10
459132	<5	0.2	150	<2	24	10
459133	<5	0.4	362	<2	24	10
459134	10	<0.2	456	<2	20	20
459135	<5	1.2	222	<2	18	<5
459449	<5	<0.2	44	<2	76	<5
459450	<5	0.6	114	<2	84	<5
459484	30	<0.2	147	<2	84	10
459493	<5	<0.2	177	2	140	30
459496	<5	<0.2	178	2	66	20
459497	<5	<0.2	37	<2	76	<5
459601	<5	<0.2	84	<2	58	5
459602	<5	<0.2	79	10	104	30
459603	<5	<0.2	207	<2	368	10
459604	<5	<0.2	69	<2	44	<5
459605	<5	1.0	65	<2	54	145
459606	<5	1.0	<1	<2	<2	<5
459607	<5	1.4	4	<2	14	20
459608	<5	<0.2	183	2	38	10
459609	<5	<0.2	61	<2	88	<5
459610	<5	1.8	8	<2	12	30
459611	<5	1.2	<1	<2	<2	5
459612	<5	0.2	3	<2	6	<5
459613	<5	1.6	7	<2	8	30
459614	<5	0.2	34	<2	108	30
459615	<5	<0.2	227	<2	48	<5
459616	<5	<0.2	40	<2	50	10
459617	<5	1.0	356	<2	1295	<5
459618	<5	<0.2	43	<2	118	10
459619	<5	<0.2	24	<2	98	<5
459620	<5	<0.2	22	4	88	<5
459621	225	2.0	33	30	34	135
459624	<5	<0.2	100	2	32	10
459625	<5	<0.2	7	4	34	<5
459626	<5	<0.2	38	6	26	10
459627	30	0.6	497	<2	68	40
459628	120	8.4	197	226	1.40%	7270
459629	<5	<0.2	139	8	186	145
459630	<5	4.2	657	14	82	70
459631	<5	3.2	538	62	70	60
459632	750	5.8	8	198	86	>10000
459633	15	<0.2	123	20	62	525
459634	<5	0.4	264	6	30	135
459635	170	3.2	129	18	34	765
459636	*0.160	*10.80	1885	4190	2.95%	>10000
459638	100	4.8	135	90	474	725
459639	10	3.0	23	56	192	265
459640	70	0.2	275	<2	32	75
459641	<5	<0.2	19	2	46	5
459642	<5	<0.2	13	<2	54	10
459643	<5	<0.2	74	<2	44	10
459644	<5	<0.2	78	<2	46	<5
463067	<5	2.2	3420	<2	26	<5
463068	<5	1.4	2870	<2	46	10
463069	20	4.0	7830	<2	156	<5
463073	50	<0.2	165	<2	98	<5
463075	*0.086	13.6	1.06%	<2	620	<5
463082	10	<0.2	169	4	182	25
463083	<5	<0.2	60	<2	16	<5
463085	<5	<0.2	67	6	90	5
463086	<5	<0.2	12	<2	28	<5
463087	<5	<0.2	651	<2	174	5
463088	30	2.8	3900	<2	96	<5
463089	50	<0.2	122	10	112	135
463412	<5	0.6	501	<2	56	80

* Denotes oz/ton

SILT GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
172465	<5	<0.2	51	<2	92	10
172489	<5	<0.2	107	2	124	110
459467	<5	<0.2	128	<2	114	5
459468	<5	<0.2	43	<2	72	<5
459469	<5	<0.2	118	<2	118	60
459470	<5	<0.2	151	4	230	70
459471	<5	<0.2	126	8	232	55
459472	<5	<0.2	53	8	134	20
459473	<5	<0.2	43	<2	90	5
459489	<5	<0.2	23	2	72	5
459494	<5	<0.2	139	4	144	130
459495	<5	<0.2	120	2	134	85
459498	<5	<0.2	29	10	230	20
459622	<5	<0.2	30	8	92	10
459623	<5	<0.2	15	<2	72	<5
459637	<5	<0.2	35	<2	82	5
459645	<5	<0.2	61	<2	112	25
459646	<5	<0.2	53	<2	74	<5
459647	<5	<0.2	78	<2	92	<5
459648	3660	<0.2	53	30	86	145
459649	145	<0.2	58	2	88	50
463070	<5	<0.2	33	<2	62	<5
463071	<5	<0.2	34	<2	90	20
463072	<5	<0.2	30	4	106	10
463074	<5	<0.2	55	<2	112	20
463076	<5	<0.2	51	<2	174	65
463077	<5	<0.2	87	<2	130	60
463078	<5	<0.2	51	2	112	30
463079	<5	<0.2	67	4	114	35
463080	<5	<0.2	40	<2	116	50
463081	<5	<0.2	67	16	218	35
463084	<5	<0.2	71	2	112	85
463402	<5	<0.2	51	<2	134	10
463408	<5	<0.2	75	<2	126	15
463409	<5	<0.2	60	<2	130	30
463410	<5	<0.2	127	2	112	10
463411	<5	<0.2	69	<2	92	<5

LEGEND

TERTIARY
DYKES AND SILLS

- 14a Dioritic
- 14b Gabbroic
- 14e Biotite Lamprophyre

EOCENE STOCKS

- 13a Biotite to Biotite-Quartz Monzonite

JURASSIC TO CRETACEOUS
COAST PLUTONIC COMPLEX

- 12a Quartz Monzonite
- 12b Quartz Diorite to Granodiorite
- 12c Granite

UPPER TRIASSIC
STUHINI GROUP

- 8 Undivided Volcanics, Volcaniclastics and Sedimentary Rock
- 8a Siltstones, Wackes, Argillites and Carbonaceous Argillites
- 8b Pyroxene - Phyric Flow

STIKINE ASSEMBLAGE
MISSISSIPPIAN OR OLDER

- 4a Undivided Metasediments and Metavolcanics
- 4b Fine-Grained Siliciclastics
- 4c Intermediate Flows and Pyroclastics
- 4d Limestone Horizons
- 4e Silver Phyllite, Slate and Phyllitic Argillite

SYMBOLS

- Rock Outcrop
- Geological Boundary, Approximate
- 50 Bedding with Dip
- Foliation - Vertical, Inclined
- 60 Fault with Dip - Defined, Inferred
- 65 Dyke with Dip
- V 70 (0.2) Vein with Dip - Known, Vertical, Unknown - with True Width in Meters
- 75 Joint with Dip
- 40 Lineation with Plunge - Known, Unknown
- X Δ Rock Sample - Grab Outcrop, Float
- 463070 Silt Sample
- 459485 Field Screened Stream Sediment Sample
- Legal Corner Post - Located, Unlocated
- X PY Mineral Occurence

Abbreviations

AS	Arsenopyrite	MG	Magnetite
CB	Carbonate	MO	Molybdenite
CP	Chalcopyrite	MS	Sericite
CY	Clay	PR	Pyrrhotite
GL	Galena	PY	Pyrite
HE	Hematite	QZ	Quartz
MC	Malachite	SP	Sphalerite

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,890

Government Geochemical Data from GSC OPEN FILE 1645 (1988a) and 1646 (1988b)

Geology adapted in part from SOUTHER ET AL (1979), LOGAN ET AL (1989), CAULFIELD AND KASPER (1989) and KASPER (1989).

0 500 1000 1500
METRES

PASS LAKE RESOUCES LTD.

CUDS & GINNY CLAIMS
GEOLOGY & GEOCHEMISTRY

BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

DRAWN: J.J.E.	MINING DIV.: LIARD	FIGURE 5
N.T.S.: 104B/13E, G/4E	SCALE: AS SHOWN	
DATE: MARCH, 1990	REVISED:	