1991 GEOLOGICAL AND GEOCHEMICAL REPORT ON THE CUDS 5-8 CLAIMS

Located in the Galore Creek Area
Liard Mining Division
NTS 104B/13E, 104G/4E

57° 00′ North Latitude
131° 34′ West Longitude

-prepared for-
HOME VENTURES INC.

-prepared by-
Bruno J. Kasper, Geologist

December, 1991

1991 GEOLOGICAL AND GEOCHEMICAL REPORT ON THE CUDS 5-8 CLAIMS

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1.0 INTRODUCTION

The Cuds 5-8 claims were staked in March of 1989 to cover favourable geology along the Porcupine River, approximately 155 kilometres northwest of Stewart in northwestern British Columbia (Figure 1). The property is generally underlain by Upper Triassic Stuhini Group rocks which have been intruded by Eocene quartz-monzonite stocks and plugs, a geological setting similar to that of the Paydirt gold deposit, located five kilometres to the north. Limited mapping and geochemical sampling before 1991 led to the discovery of narrow quartz-sulphide veins on the Cuds 7 claim assaying up to 4.32 g/tonne (0.126 oz/ton) gold. The geological similarity to the Iskut River, Sulphurets and Stewart mining camps to the south, and the discovery in the past few years of several major precious metals occurrences elsewhere in the Galore Creek district, have sparked renewed exploration interest throughout the area.

Reconnaissance exploration, consisting of geological mapping, prospecting and geochemical sampling, was carried out over the Cuds 5-8 property during September of 1991. Equity Engineering Ltd. conducted this program for Home Ventures Inc. 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 show that the Cuds 5-8 claims (Figure 2), located in the Liard Mining Division, are owned by Pass Lake Resources Ltd.. Separate documents indicate that they are under option to Home Ventures Inc.. Claim data for the Cuds 5-8 property are summarized in Table 2.0.1.

TABLE 2.0.1
CLAIM DATA

Claim Name	Record Number	Tenure Number	No. of Units	Record Date	Expiry Year
Cuds 5	5833	223774	20	March 2, 1989	1991
Cuds 6	5834	223775	20	March 2, 1989	1991
Cuds 7	5835	223776	20	March 2, 1989	1991
Cuds 8	5836	223777	20	March 2, 1989	1991
			80		

The claims overlap previously staked ground of the PL 10 and 11 claims to the north and the Wiser III and V claims to the east, reducing the actual ground coverage of the claims to approximately

Km 0 100 200 300 400 500 Km

MILES 0 50 100 200 300 MILES

HOME VENTURES INC.		
CUDS 5-8 CLAIMS **LOCATION MAP** BRITISH COLUMBIA		
EQUITY ENGINEERING LTD.		
DRAWN: J.J.E.	MINING DIV. LIARD	FIGURE
N.T.S.: 104 B/13E,G/4E	SCALE: AS SHOWN	1
DATE: DEC., 1991	REVISED:	

76 units. The position of the legal corner posts for the Cuds 5-8, PL 10-11 and Wiser III-V claims have been verified by field crews of Equity Engineering Ltd..

3.0 LOCATION, ACCESS AND PHYSIOGRAPHY

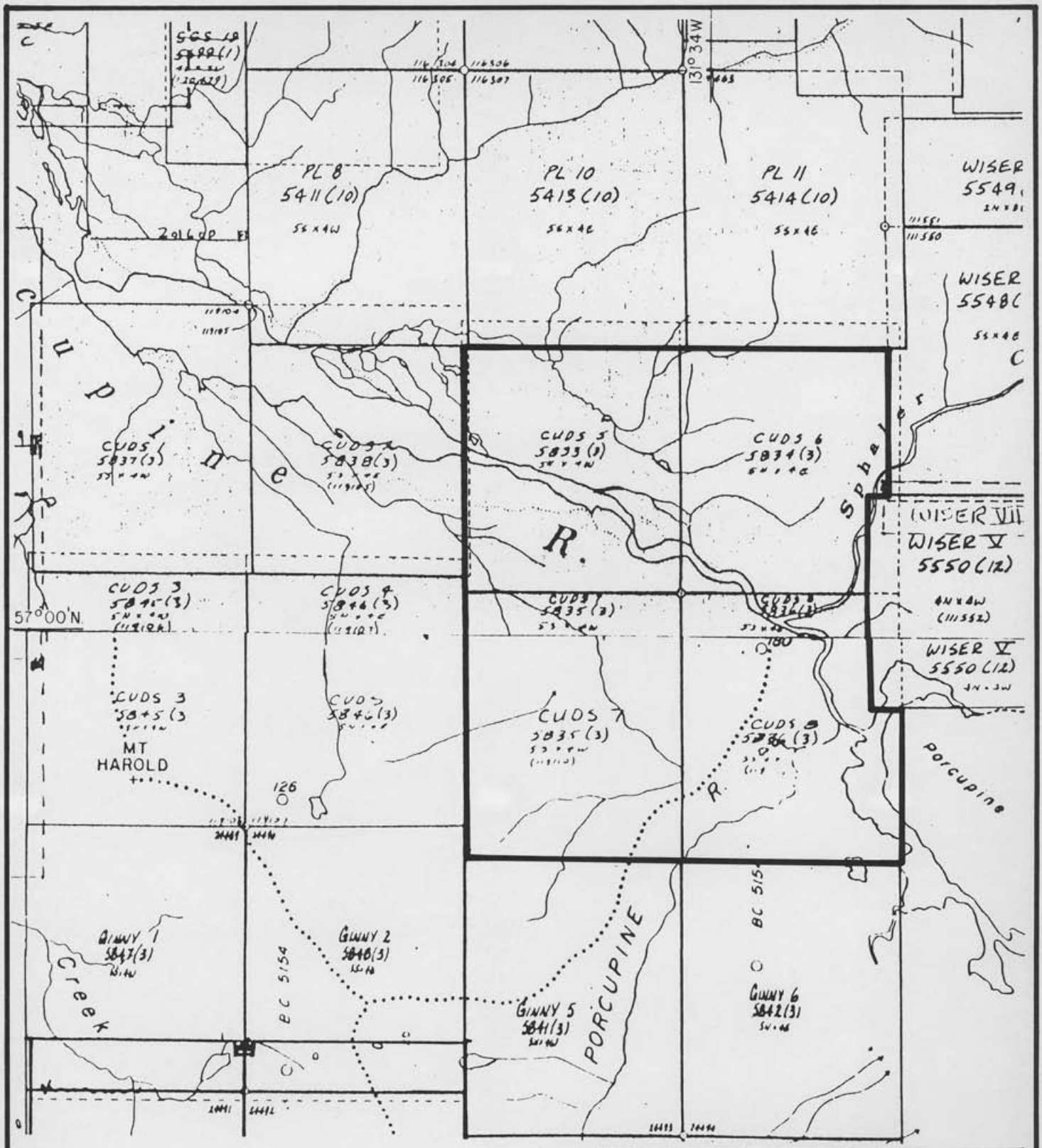
The Cuds 5-8 claims are located within the Coast Range Mountains approximately 160 kilometres northwest of Stewart and 100 kilometres south of Telegraph Creek in northwestern British Columbia (Figure 1). These claims lie within the Liard Mining Division, centred at 57° 00′ north latitude and 131° 34′ west longitude.

Access to the Cuds 5-8 property during the 1991 field season was through the Porcupine River base camp and airstrip, which are located on the Cuds 5 claim. During the field season, the Porcupine camp can be serviced by fixed-wing aircraft up to the size of a Turbo Otter, based out of Smithers, Wrangell or Telegraph Creek. However, erosion of the middle part of the airstrip by the Porcupine River will severely limit its potential for future use.

On the Alaskan side of the border, Wrangell lies approximately 80 kilometres 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 ten kilometres northwest of the property.

The Cuds 5-8 claims straddle the Porcupine River floodplain from ten to fifteen kilometres above its confluence with the Stikine River. The Cuds 5 and 6 claims cover the southern slopes of Split Ridge and the mouth of Sphaler Creek, on the north side of the Porcupine River. The Cuds 7 claim rises south from the Porcupine River up the northeastern flank of Mount Harold. Topography is rugged, typical of mountainous and glaciated terrain, with elevations ranging from 90 metres on the Porcupine River floodplain to over 975 metres on the southwestern corner of Cuds 7. Approximately half of the Cuds 5-8 claims covers a thick sequence of fluvial and glacial sediments on the Porcupine River flood plain.

Slopes are covered by a mature forest of hemlock, spruce and balsam fir with a dense undergrowth of devil's club, alder and huckleberry. Willow and alder cover the Porcupine River floodplain.



HOME VENTURES INC.

CUDS 5-8 CLAIMS

CLAIM MAP

BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

DRAWN: J.J.E.	MINING DIV.: LIARD	FIGURE
N.T.S.: 104B/13E,G/4E	SCALE: 1:50000	2
DATE: DEC., 1991	REVISED:	

The Cuds 5-8 property lies in the wet belt of the Coast Range Mountains, with annual precipitation between 190 and 380 centimetres (Kerr, 1948). Except during July, August and September, precipitation at higher elevations falls mainly as snow, with accumulations reaching three metres or more. Both summer and winter temperatures are moderate, ranging from -5°C in the winter to 20°C in the summer months.

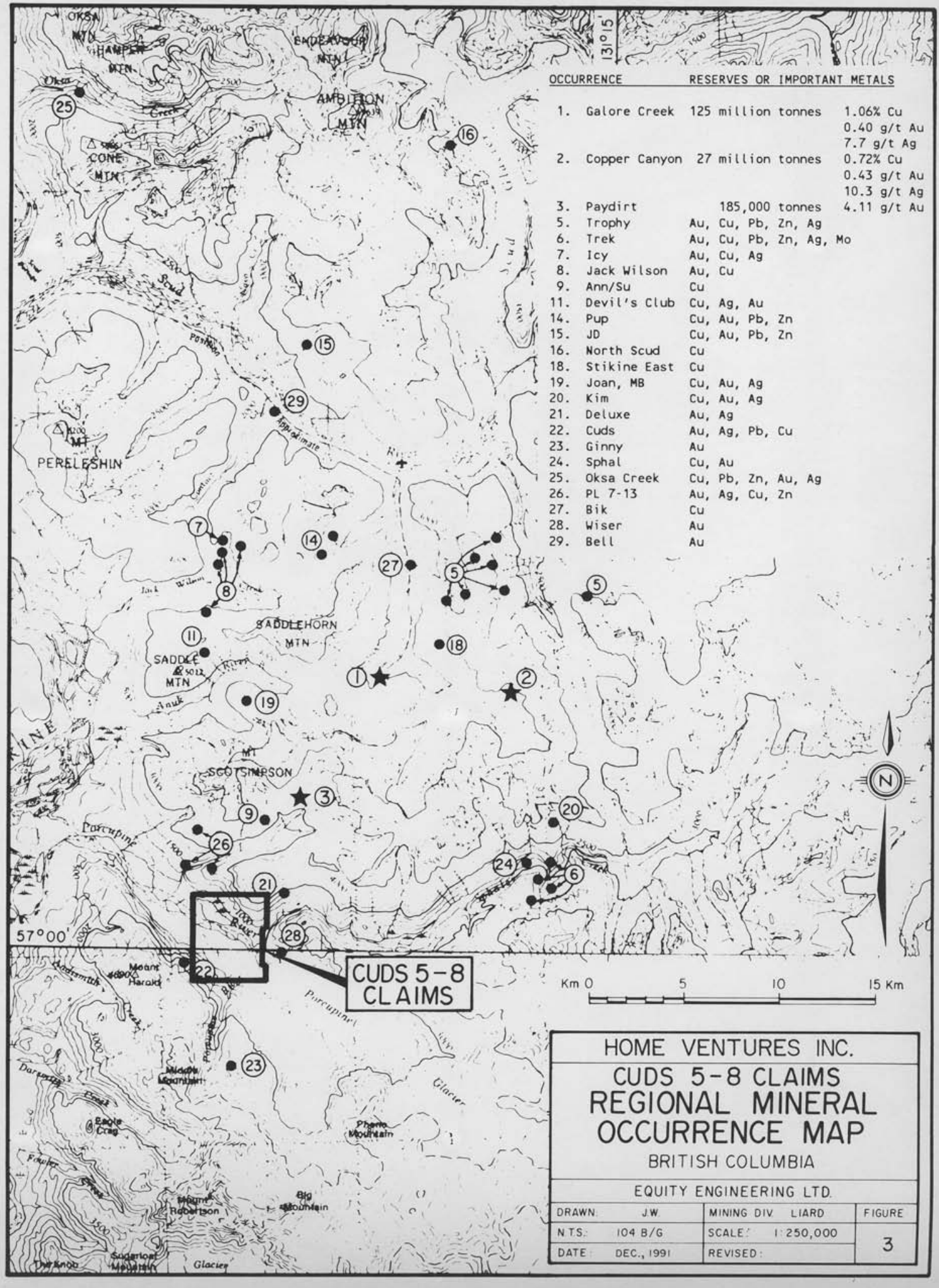
4.0 PROPERTY MINING HISTORY

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 sixteen kilometres northeast of the centre of the Cuds 5-8 claims. Several major mining companies conducted regional mapping and silt sampling programs in the 1950's and 1960's over the entire Galore Creek area and in 1957 the Copper Canyon copper-gold porphyry deposit was discovered eight kilometres east of the Central Zone. The Copper Canyon deposit, with reserves of 35.7 million tonnes at a grade of 0.75% copper and 1.17 g/tonne (0.034 oz/ton) gold (Cons. Rhodes, 1991), was actively explored in 1990 after a hiatus of 33 years.

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 kilometres 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 metres of diamond drilling on these showings, known as the Ann or Su prospect, intersecting extensive mineralization grading around 0.1% to 0.2% copper (BCDM, 1966). In 1981, Teck Corp. staked the Ann/Su prospect and discovered the Paydirt gold deposit approximately one kilometre northeast of the centre of the Ann/Su copper porphyry deposit. Soil geochemistry, rock sampling, trenching and 760 metres of diamond drilling on the Paydirt deposit delineated 185,000 tonnes of indicated reserves grading 4.11 g/tonne gold (Holtby, 1985).

Several significant precious metal occurrences were discovered on each of the Trek, Trophy, Icy and JW properties during the 1988 field seasons (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.



OCCURRENCE		RESERVES OR IMPORTANT METALS	
1.	Galore Creek	125 million tonnes	1.06% Cu 0.40 g/t Au 7.7 g/t Ag
2.	Copper Canyon	27 million tonnes	0.72% Cu 0.43 g/t Au 10.3 g/t Ag
3.	Paydirt	185,000 tonnes	4.11 g/t Au
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	
11.	Devil's Club	Cu, Ag, Au	
14.	Pup	Cu, Au, Pb, Zn	
15.	JD	Cu, Au, Pb, Zn	
16.	North Scud	Cu	
18.	Stikine East	Cu	
19.	Joan, MB	Cu, Au, Ag	
20.	Kim	Cu, Au, Ag	
21.	Deluxe	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 7-13	Au, Ag, Cu, Zn	
27.	Bik	Cu	
28.	Wiser	Au	
29.	Bell	Au	

HOME VENTURES INC.

CUDS 5-8 CLAIMS
REGIONAL MINERAL OCCURRENCE MAP
BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

DRAWN: J.W.	MINING DIV. LIARD	FIGURE
N.T.S.: 104 B/G	SCALE: 1:250,000	3
DATE: DEC., 1991	REVISED:	

Immediately northeast of the Cuds 6 claim, Consolidated Goldwest Resources Ltd. discovered significant gold-silver mineralization in the Deluxe Zone on the Wiser IV claim in 1989. Grab samples from silicified and pyritic bands within a broader sericitized alteration zone assayed up to 10.5 g/tonne (0.306 oz/ton) gold. One float sample of quartz-sulphide vein material was reported to assay 282 g/tonne (8.25 oz/ton) gold and 704 g/tonne (20.5 oz/ton) silver (Kasper, 1989). In 1990, Consolidated Goldwest conducted an advanced exploration program over the Deluxe Zone which included the establishment of a soil grid, geophysical surveys and diamond drilling. Although a number of coincident geochemical and geophysical trends were identified, diamond drilling failed to intersect any significant precious and/or base metal mineralization (Prime Equities, 1990).

To the north on the PL 11 claims, Royce Industries Inc. noted a gold-arsenic relationship along a contour soil line located approximately 400 metres north of the Cuds 6 claim boundary in 1989. In 1990, a soil grid was established to the north of this contour soil line. Detailed prospecting and follow-up of soil geochemical anomalies located the Jefe Zone, a sulphide-rich silicified zone located approximately 1370 metres north of the Cuds 6 claim. Chip samples from the Jefe Zone assayed up to 3.81 g/tonne (0.111 oz/ton) gold with high zinc (up to 2900 ppm) and arsenic (>10000 ppm) values (Yamamura and Awmack, 1990). Float samples from the same area assayed up to 769.2 g/tonne (22.44 oz/ton) and 498.9 g/tonne (14.55 oz/ton) silver along with high zinc (2900 ppm) and arsenic (79412 ppm). Further west in the Pre-Permian stratigraphy, contour soil sampling revealed a close association between anomalous gold, arsenic and zinc soil geochemical values. Quartz veins found in Split Creek canyon during the 1989 field program, assayed up to 18.4 g/tonne (0.536 oz/ton) gold with 896 ppm zinc while a foliated float boulder with significant sphalerite mineralization, assayed up to 6.24% zinc with 660 ppb gold (Caulfield and Kasper, 1989).

During the fall of 1989 and 1990, Pass Lake Resources Ltd. carried out limited exploration on the Cuds 5-8 claims, consisting of geological mapping, prospecting, stream sediment and soil sampling; taking a total of 3 field-sieved stream sediment samples, 18 silt samples, 11 soil samples and 29 rock samples during the two field programs. The Bud Creek Showing, a system of narrow quartz-sulphide veins assaying up to 4.32 g/tonne (0.126 oz/ton) gold, were found between the western edge of the Cuds 7 claim and Bud Creek. Similar auriferous quartz veining located 750 metres to the northwest of the Bud Creek Showing was discovered at the same time and is referred to as the Duc Zone. A 50 centimetre shear zone found in 1989 a further 1300 metres to the east of Bud Creek, assayed 2.95 g/tonne (0.086 oz/ton) gold (Kasper, 1990). Silt and soil sampling in 1990 along contour soil line CL100 on the west

side of a low lying ridge located on the north side of the Porcupine River, named "Misty Ridge" in this report, revealed a number of coincident arsenic, zinc and lead geochemical anomalies. A grab sample of highly chloritic volcanics along the northern extension of this contour soil line in the Cuds 2 claim to the west, assayed 1.23 g/tonne gold with elevated silver, copper and zinc values (Doyle, 1991).

4.2 1991 Work Program

During September of 1991, Home Ventures Inc. carried out a property-wide exploration program on the Cuds 5-8 claims, consisting of geological mapping, prospecting and geochemical sampling. This program was designed to extend geological and geochemical coverage and to further evaluate areas of interest defined in 1989 and 1990.

During the course of this program, 20 silt samples, 178 soil samples and 74 rock samples were taken. The silt samples were taken from the backwaters of small creeks and analyzed geochemically for gold and 32 elements by ICP (Figures 5 and 6). Samples with insufficient fines were screened through a minus 35 mesh and then pulverized to minus 150 mesh before being analyzed.

Three lines of contour soils were taken in untested areas of favourable geology. Contour soil lines CL180 and CL100 were taken at the 100 and 180 metre elevations on the Cuds 5 claim (Figure 5) while contour soil line CL230 was run along the 230 metre elevation on the Cuds 7 claim (Figure 6). Contour soil line CL100 is an extension of the contour soil line established during the 1990 field program. Wherever possible, soil samples were taken from the red-brown B horizon and then analyzed geochemically for gold and 32 elements by ICP.

Prospecting and reconnaissance geology were carried out over the property, using a 1:5,000 topographic orthophoto as a base (Figures 5 and 6). 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 returning geochemical values in excess of 1000 ppb gold were assayed. Analytical certificates are attached in Appendix D.

5.0 REGIONAL GEOLOGY

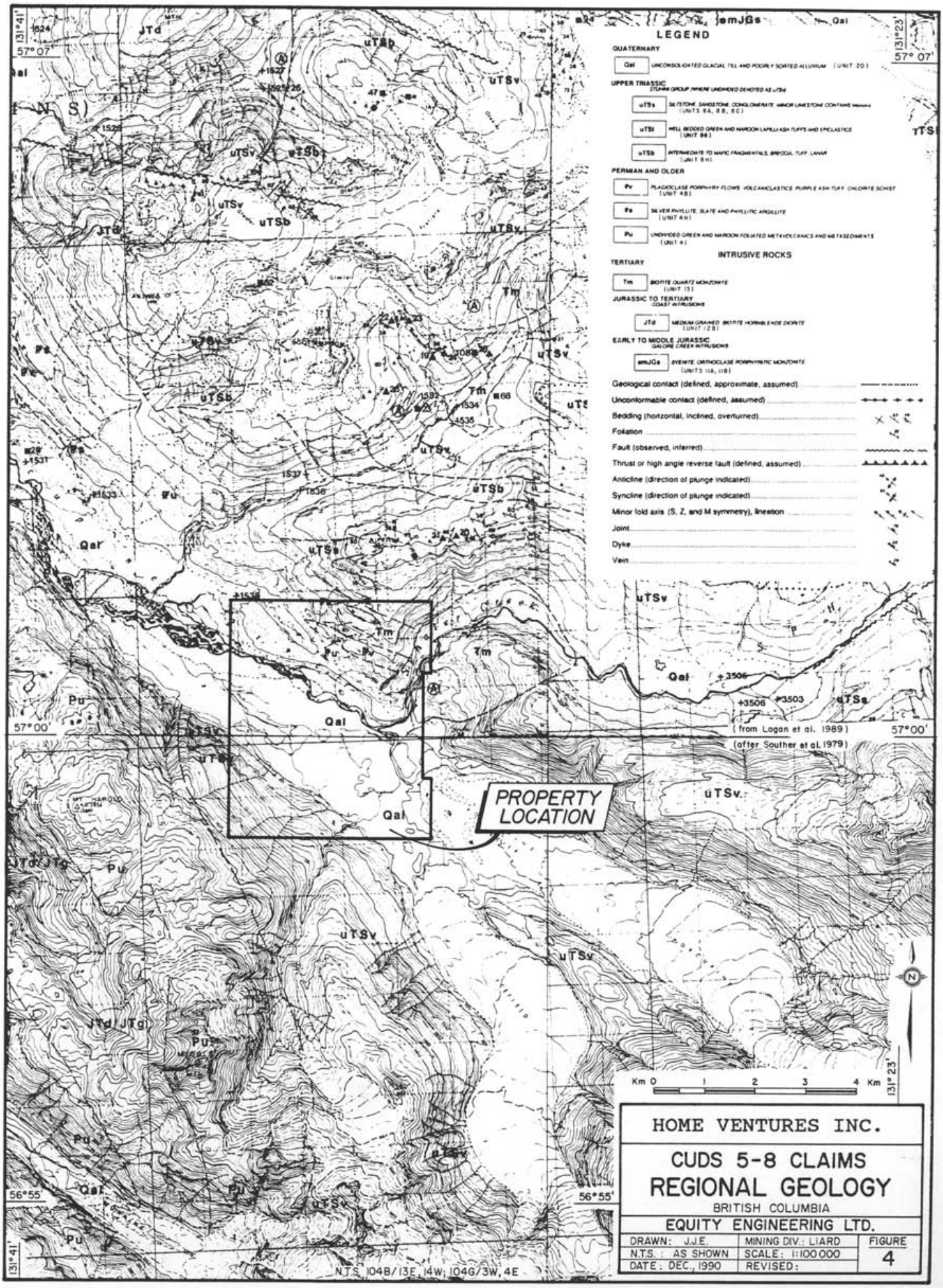
The basis for regional geological mapping in the Stikine River area was set out by Kerr (1948), the crew of Operation Stikine (GSC, 1957) and Souther (1972). Their work has been refined in the Galore Creek area by Brown and Gunning (1989b) and Logan et al (1989) at a scale of 1:50,000.

The Galore Creek Camp lies within the Intermontane Belt, a geological and physiographic province of the Canadian Cordillera, and flanks the Coast Plutonic Complex to the west (Figure 4). At Galore Creek, the generally northwest-trending structure of the Intermontane Belt is discordantly cut across by the 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 and Symons, 1974).

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

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

The plutonic rocks follow a three-fold division (Logan and Koyanagi, 1989; Logan et al, 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 (**Unit 9**) and the syenites of the Galore Creek Complex (**Unit 11**). Jura-Cretaceous Coast Plutonic Complex intrusions (**Unit 12**) occur on the west side of the Galore Creek Camp, along the Stikine River, with the youngest of these intrusions occupying more axial positions along the trend of the Coast Plutonic Complex flanked by older intrusions. The youngest


LEGEND
QUATERNARY
Qal UNCONSOLIDATED GLACIAL TILL AND POORLY SORTED ALLUVIUM (UNIT 20)
UPPER TRIASSIC
TSUPPER GROUP (WHERE UNDIVIDED DENOTED AS uTSv)
uTSs SILTSTONE, SANDSTONE, CONGLOMERATE, MINOR LIMESTONE CONTAINS Monotis (UNITS 8A, 8B, 8C)
uTSl WELL BEDDED GREEN AND MAROON LAPILLI ASH TUFFS AND EPICLASTICS (UNIT 8B)
uTSb INTERMEDIATE TO MAFIC FRAGMENTALS, BRECCIA, TUFF, LAHAR (UNIT 8A)
PERMIAN AND OLDER
Pv PLAGIOCLASE PORPHYRY FLOWS, VOLCANICLASTICS, PURPLE ASH TUFF, CHLORITE SCHIST (UNIT 4B)
Ps SILVER PHYLLITE, SLATE AND PHYLLITIC ARGILLITE (UNIT 4A)
Pu UNDIVIDED GREEN AND MAROON FOLIATED METAVOLCANICS AND METASEDIMENTS (UNIT 4)
INTRUSIVE ROCKS
TERTIARY
Tm BIOTITE QUARTZ MONZONITE (UNIT 13)
JURASSIC TO TERTIARY COAST INTRUSIONS
JTd MEDIUM GRAINED BIOTITE HORNBLENDE DIORITE (UNIT 12B)
EARLY TO MIDDLE JURASSIC GALORE CREEK INTRUSIONS
emJGs SYENITE, ORTHOCLASE PORPHYRITIC MONZONITE (UNITS 11A, 11B)
Geological contact (defined, approximate, assumed)
Unconformable contact (defined, assumed)
Bedding (horizontal, inclined, overturned)
Foliation
Fault (observed, inferred)
Thrust or high angle reverse fault (defined, assumed)
Anticline (direction of plunge indicated)
Syncline (direction of plunge indicated)
Minor fold axis (S, Z, and M symmetry), lineation
Joint
Dyke
Vein
PROPERTY LOCATION
(from Logan et al. 1989)
(after Souther et al. 1979)
Km 0 1 2 3 4 Km
HOME VENTURES INC.
CUDS 5-8 CLAIMS
REGIONAL GEOLOGY
BRITISH COLUMBIA
EQUITY ENGINEERING LTD.
DRAWN: J.J.E.
MINING DIV.: LIARD
FIGURE 4
N.T.S.: AS SHOWN
SCALE: 1:100 000
DATE: DEC., 1990
REVISED:
N.T.S. 104B/13E, 14W; 104G/3W, 4E

intrusives in the Galore Creek Camp are Eocene (quartz-) monzonitic plugs (**Unit 13**), felsic and mafic sills and dykes (**Unit 14**), and biotite lamprophyre (minette) dykes (**Unit 14C**).

The dominant style of deformation in the Galore Creek area consists of upright north-trending, open to tight folds and northwest-trending, southwest-verging, folding and reverse faulting in the greenschist facies of regional metamorphism. Localized contact metamorphism ranges as high as pyroxene hornfels grade; 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 display north-side down dip slip kinematics, whereas northeast-striking faults are the loci of sinistral, strike-slip motion (Brown and Gunning, 1989a).

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

Structurally-controlled gold-silver deposits have been the focus of exploration in recent years. The vein/shear occurrences are similar throughout the Galore Creek camp in that they are mesothermal in nature, containing base metal sulphides with strong silica veining and alteration. However, it appears that the intrusive bodies associated with this mineralization fall into two classes on the basis of age and composition. These two classes are reflected in differences in the style of structures, sulphide

mineralogy and associated alteration products. The intrusive types are: 1) Lower Jurassic alkaline "Galore Creek" stocks; and 2) Eocene quartz monzonite to porphyritic granodiorite intrusions. Lead isotope data from the Stewart mining camp (Alldrick et al., 1987) further supports the proposition that separate Jurassic and Tertiary mineralizing events were "brief regional-scale phenomena".

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

The Tertiary mineralization comprises discrete quartz veins and larger shear zones characterized by pervasive silicification, sericitization and pyritization whose total sulphide content is commonly quite low. The quartz veins contain a larger spectrum of sulphide minerals including pyrite, chalcopyrite, pyrrhotite, arsenopyrite, galena and sphalerite. Unlike the Jurassic mineralization, silver grades may be very high. The Paydirt deposit appears to fall into this category, however, staining indicates strong potassium feldspar alteration. This potassium feldspar alteration is typical of Jurassic-aged mineralization throughout the Galore Creek area.

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

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

Kuroko-type volcanogenic massive sulphide mineralization has not yet been reported from the Galore Creek area, but significant deposits occur in similar stratigraphy to the northwest and southeast. Volcanogenic massive sulphide deposits have long been known in the Tulsequah area, hosted by felsic and sedimentary units

of a Paleozoic island arc complex (Nelson and Payne, 1984), which appears to correlate with the pre-Permian metamorphic rocks of the Galore Creek district. The Tulsequah Chief deposit, located 180 kilometres northwest of the Cuds 5-8 property, has reported reserves of 4.7 million tonnes at a grade of 1.6% copper, 1.3% lead, 7% zinc, 2.7 g/tonne gold and 101 g/tonne silver (Northern Miner, Dec. 10/90). On the Rock and Roll property, located 27 kilometres southeast of the Cuds 5-8 claims in the Iskut River area, Thios Resources reports a new VMS discovery in Stuhini sediments with drill intersections up to 881 g/tonne silver, 5.35% zinc, 2.07% lead, 2.74 g/tonne gold and 0.58% copper over 9.7 metres (Thios, 1990).

6.0 PROPERTY GEOLOGY AND MINERALIZATION

6.1 Property Geology

The Cuds 5-8 property is underlain by strata and intrusions ranging in age from Mississippian or older, to Tertiary (Figures 5 and 6). Mississippian or older metasedimentary and metavolcanic rocks of the Stikine Assemblage are in fault contact with Upper Triassic Stuhini Group volcanic and sedimentary rocks on both sides of the Porcupine River. Eocene stocks intrude the pre-Jurassic stratigraphy north of the Porcupine River at the Sphaler Creek confluence and near the Duc Zone on the south side of the Porcupine River. Greenschist facies metamorphism is pervasive throughout the pre-Tertiary rock units and in places is overprinted by biotite metasomatism. Faults offsetting all rock units are highlighted by drainage patterns and gullies in the area. The property geology in Figures 5 and 6 is a compilation of geological mapping during the 1989, 1990 and 1991 programs, mapping on adjoining properties by Equity Engineering Ltd. (Doyle, 1991; Kasper, 1991; and Yamamura and Awmack, 1990), the Geological Survey of Canada (Souther et al, 1979) and provincial government geologists (Logan et al, 1989).

Mississippian and older metamorphic rocks (**Unit 4**) are the oldest rock unit on the property. North of the Porcupine River, subdivisions of this rock unit form distinct southeast-northwest trending bands (Figure 5). Silver phyllite and slate (**Unit 4H**), thought by Logan and Koyanagi (1989) to be the oldest lithology, is overlain by a metasedimentary sequence of thinly bedded argillites and siltstones (**Unit 4C**). The interbedded argillites and siltstones vary in colour from light grey to dark greenish black with the more coarse-grained layers being the lighter colour. The argillites display a moderately developed slaty cleavage, but where biotite-rich, a well developed foliation is present. Along Misty Ridge, relic bedding parallels the foliation, generally striking 120° and dipping moderately to the southwest. In places, the argillite contains up to 3% pyrite and pyrrhotite, giving

exposed outcrops a gossanous appearance. On the west side of Misty Ridge, thick beds of medium-grained greywacke (**Unit 4D**) are interbedded with the semi-pelitic sediments.

Metavolcanics with minor intercalated sedimentary units underlie Misty Ridge. The metavolcanics are dominated by a tuffaceous unit (**Unit 4A**) and a chlorite-feldspar-quartz schist (**Unit 4I**). The tuffs are weakly foliated with flattened lapilli fragments. In the western part of Misty Ridge, biotite alteration masks the matrix and the lapilli fragments. In places the tuffs appear to grade into chlorite-feldspar-quartz schist, which locally displays a gneissic texture with biotite-rich segregations. Foliation attitude within the schist is similar to that viewed in the fine-grained sedimentary rocks. Localized outcrops of intermediate volcanic flows (**Unit 4B**) outcrop within or grade into the schist along the Porcupine River side of Misty Ridge. Chlorite-feldspar-quartz schists form escarpments above the Duc Zone to the west of the southwestern corner of the Cuds 7 claim and are believed to trend onto the Cuds 7 claim (Figure 6). Doyle (1991) states that further work "... is necessary in order to determine whether this is an extensive unit or due to a local deformation event.".

Volcanic rocks outcrop along the lower slopes on the south side of the Porcupine River (Figure 6) and have been mapped as part of the Upper Triassic Stuhini Group (**Unit 8**) by Souther et al (1979). These volcanic rocks have been subdivided into two main categories: andesitic flows (**Unit 8E**) and coarse-grained pyroclastics (**Unit 8H**). The andesitic flows underlie the western portion of the Cuds 7 claim centred around Bud Creek and consist of small subhedral feldspar phenocrysts within a dark green matrix. Extensive biotite metasomatism in the vicinity of the Bud Creek Showing makes identification of these flows difficult. Massive andesite flows which have been mapped by Yamamura and Awmack (1990) and Kasper (1991) to the west of and along Deluxe Creek, are believed to underlie the northeast corner of the Cuds 6 claim (Figure 5). Coarse-grained pyroclastics (Unit 8H) consisting of lapilli tuffs and agglomerates outcrop along the lower part of Bud Creek and border the andesitic flows to the east. The lapilli tuffs consist of subrounded volcanic clasts up to three centimetres in size within a crystal hash matrix composed of angular feldspar and pyroxene crystals. Exposures of agglomerates along Gache Creek contain rounded boulders consisting of augite-phyric volcanics and argillites. These boulders measure up to 1.5 metres along their exposed long axes.

Sedimentary rocks, augite-phyric flows and crystal ash tuffs form minor units within the Upper Triassic stratigraphic package. Massive black argillite (**Unit 8A**) forms recessive beds within the resistant lapilli tuffs at approximately the 300 metre elevation

along Gache Creek (Figure 6). The gentle topography along Gache Creek at this elevation may be due to this recessive unit, giving an indication of its lateral extent. Augite-phyric flows (**Unit 8E**), which are locally amygdaloidal and composed of subhedral augite phenocrysts within an aphanitic matrix, are exposed in an escarpment along the lower part of 960 Creek. In places, chlorite has replaced the original augite phenocrysts and infills the amygdules. Crystal ash tuffs (**Unit 8G**) outcrop along the base of the slope at 960 Creek and form minor distinct outcrops within the andesitic flows and lapilli tuffs. Because of this tuff's similarity to the andesitic flow and to the matrix of the lapilli tuff, this unit may be more extensive then is presently noted. Similar, but strongly deformed, tuffs bounded by two northwest trending faults, were identified south of the Duc Zone. Doyle (1991) notes that "...a question exists as to whether the well laminated nature of the tuff is due to deformation along the faults or whether the tuff is actually of Mississippian or older age.".

Eocene monzonite to quartz monzonite stocks and dykes intrude the stratigraphic units on both sides of the Porcupine River. An elliptical biotite monzonite to biotite quartz monzonite stock (**Unit 13A**) outcrops along Sphaler Creek, north of its confluence with the Porcupine River (Figure 5). Texturally, the stock is equigranular and consists of medium- to coarse-grained crystals including up to 30% biotite. Large, rounded xenoliths of feldspar-porphyry intrusive occur within this stock along Hidden Creek. Panteleyev (1975) reports a potassium-argon age of 53.5 $\pm$ 1.6 million years for this stock. Dykes and plugs of the same composition outcrop along the steep slope northwest of the Bud Creek Showing within the western boundary of the Cuds 7 claim (Figure 6). A biotite granite phase (**Unit 13B**) of this intrusive outcrops along Felsic Creek at approximately the 400 metre elevation (Figure 5). Smaller stocks of biotite-poor, fine- to coarse-grained quartz monzonite to quartz syenite (**Unit 13C**) are exposed along Felsic Creek to the west. Similar dykes and sills crosscut the biotite-rich monzonite intrusives indicating that the biotite-poor monzonites are at least a later, mafic poor phase of the magmatic event. The host rocks around all of these stocks and dykes have been strongly biotite hornfelsed. A feldspar-hornblende porphyritic diorite (**Unit 13E**) outcrops at the east end of Misty Ridge. This coarse-grained intrusive is comprised of up to 60% mafics and is relatively unaltered. Plugs of similar composition are exposed within the Deluxe Zone along Deluxe Creek and are thought to be of Eocene age due to their relatively unaltered state (Kasper, 1991).

A 1.5 metre wide gabbroic dyke (**Unit 14B**) crosscuts the Stikinian schists exposed along the north side of the Porcupine River, directly across from the Porcupine Airstrip (Figure 6). This black, fine-grained dyke contains approximately 5% magnetite

and resembles the mafic dykes that are exposed along Deluxe Creek to the northeast.

Three fault sets with distinct orientations have been observed on the property or inferred from air photo interpretation. The surface trace of the most prominent of these fault sets is highlighted by Sphaler Creek north of the Porcupine River and Bud and Gache Creeks on the south side. This set has a northeast to easterly trend, crosscutting all other faults and rock units. Extensive iron-carbonate alteration characterized by calcite stockwork and ankerite mineralization, appears to be associated with these faults along 960 and Gache Creeks. Northwest trending faults separate the Mississippian or older strata from the Upper Triassic Stuhini Group on both sides of the Porcupine River. A parallel fault along Misty Creek, divides argillites and siliceous siltstones from the metavolcanic units within the Mississippian or older strata. Foliation within the Paleozoic strata parallels these northwest trending faults. North-south faults control the lower drainage of 960 Creek and are believed to control the upper drainage of the Porcupine River. The Deluxe Zone on the Wiser III claims to the northeast, occurs along a similar northerly trending shear zone.

6.2 Mineralization

A new gold occurrence, the Hidden Creek Showing, was discovered during the 1991 exploration, adding to those identified during the 1989 and 1990 programs. These occurrences can be divided into two main categories: quartz-sulphide vein mineralization and shear zone mineralization. The following is a description of the two styles of mineralization:

Quartz-Sulphide Vein Mineralization

The quartz-sulphide vein mineralization consists of wispy veinlets of pyrite and arsenopyrite with or without minor galena and sphalerite, localized along hairline fractures within crackled quartz veins. With the exceptions of the showings found along Bud Creek, all auriferous veins are found proximal to Eocene stocks and within stratigraphic rocks that have undergone moderate to intense biotite metasomatism. These veins have been found in two areas of the property; the Bud Creek Showing/Duc Zone located along the western edge of the Cuds 7 claim and the Hidden Creek Showing on the Cuds 6 claim.

The **Bud Creek Showing/Duc Zone** are located on the west side of Bud Creek (Figure 6). The Bud Creek Showing is located between the 400 and 500 metre elevations on the west bank of Bud Creek while the Duc Zone is located approximately 750 metres to the

northwest, along a northwesterly trending escarpment. Both occurrences consist of easterly and/or southeasterly striking quartz-sulphide veins as described above ranging in width from 5 to 40 centimetres. The alteration zone surrounding the quartz veins is generally strongly silicified and chloritized. Sulphide mineralization within this alteration zone consists mainly of pyrite and pyrrhotite with trace amounts of molybdenite, galena, sphalerite and arsenopyrite. Galena, sphalerite and molybdenite are usually found in the numerous millimetre scale quartz sweats which crosscut the alteration zone. Grab samples from the Bud Creek Showing quartz veins assayed up to 4.32 g/tonne (0.126 oz/ton) gold and 153.3 g/tonne (4.47 oz/ton) silver with 8480 parts per million lead and 5730 parts per million arsenic (sample 172491; Kasper, 1990). Similar results were also returned from the Duc Zone. Precious and base metal results from the alteration zone surrounding the veins were low, returning up to 85 ppb gold, 31.4 ppm silver, 1070 ppm lead, 1505 ppm zinc, 540 ppm arsenic and 386 ppm molybdenite. The Bud Creek Showing is believed to be a southeastern extension of the Duc Zone due to the similarity in vein and sulphide mineralization, vein widths and orientation, as well as the presence of elevated levels of antimony, bismuth, cadmium and tungsten which are the same for both areas.

Auriferous quartz vein float was also found during the 1991 field program in Bud Creek and along the base of the talus slope to the west of Bud Creek. Float sample 465901, which assayed 1.51 g/tonne (0.044 oz/ton) gold with 69.4 ppm silver and 6485 ppm arsenic, was found at the 175 metre elevation in Bud Creek. The source of this float is probably undiscovered sulphide-quartz veins similar to those of the Bud Creek Showing. Float samples 465910 and 465917, found 600 metres to the northwest of Bud Creek, assayed up to 11.93 g/tonne (0.348 oz/ton) gold, 76.2 ppm silver, 3120 ppm lead, 2578 ppm zinc and >10000 ppm arsenic. These two samples are located at the base of a talus slope in which float sample 484731 was found in 1990. The source of these float samples is probably quartz veins similar to the Duc Zone and located close to the Cuds 7 claim boundary. It should be noted that float sample 465910, which returned the highest gold and silver values (11.93 g/tonne gold and 76.2 g/tonne silver) contained only minor amounts of arsenic and lead (645 and 904 ppm, respectively). Table 6.0.2 summarizes the significant samples found to date from the Bud Creek Showing and the sampling in between Bud Creek and the Duc Zone.

TABLE 6.2.1
BUD CREEK SHOWING: SIGNIFICANT SAMPLING RESULTS

SAMPLE	WIDTH metres	GOLD (ppb)	SILVER (ppm)	LEAD (ppm)	ZINC (ppm)	ARSENIC (ppm)
172485B	float	135	33.8	5700	4602	<5
172488B	float	235	45.0	1480	88	6140
172491B	0.3	4.32 g/t	153.3 g/t	8480	854	5730
172496B	0.05	2.19 g/t	81.4	1.29%	3010	235
465901B*	float	1.51 g/t	69.4	878	8	6485
465910N*	float	11.93 g/t	76.2	904	220	645
465917N*	float	1.78 g/t	31.4	3120	2578	>10000
484731N	float	770	14.6	1050	2680	>10000

sample locations: B Bud Creek Showing, 1989 samples
N Northwest of Bud Creek, 1990 samples
* 1991 samples

The **Hidden Creek Showing** consists of a three to seven centimetre wide quartz vein containing up to 10% arsenopyrite and 5% pyrite hosted within strongly hornfelsed metasedimentary rocks (Figure 5). This vein appears to form the hanging wall of a 1.4 metre wide, tabular brecciated zone containing a quartz matrix with traces of arsenopyrite. A felsic intrusive appears to form the footwall of this brecciated zone. Select grab samples 465927 and 465928 assayed up to 10.49 g/tonne (0.306 oz/ton) gold with >10000 ppm arsenic; while a 1.4 metre grab sample of the brecciated zone contained 705 ppm arsenic with no detectable gold (sample 465929). The low silver and lead values associated with this vein (up to 1.6 ppm silver and 10 ppm lead), differentiates it from those found in the Bud Creek Showing and Duc Zone.

Numerous other narrow quartz veins have been found proximal to and crosscutting the Eocene intrusives during the 1991 and earlier field programs. These quartz veins differ from the ones mentioned above in that pyrite is the main sulphide, they contain only trace amounts of arsenopyrite, galena and/or molybdenite and they contain low precious and base metal values. Grab samples of these veins returned maximum values of 220 ppb gold, 32.0 ppm silver, 156 ppm lead, 474 ppm zinc, 206 ppm molybdenum and 765 ppm arsenic.

Shear zone mineralization

A 50 centimetre wide shear zone with disseminated pyrite and chalcopyrite mineralization was sampled during the 1989 field season on the west side of Gache creek at approximately the 250 metre elevation (Figure 6). Grab sample 463075 returned 2.95

g/tonne (0.086 oz/ton) gold and 1.06% copper from a 10 centimetre wide zone of fault gouge (Kasper, 1990). The fault strikes 150° and dips 60° to the northeast. This measurement was taken from a limited exposure along the creek bank. Mapping and prospecting along Gache Creek during the 1991 field program failed to locate the sample or similar mineralization.

A number of grab and float samples were taken from iron-carbonate alteration zones located along Bud, 960 and Gache creeks (Figure 6). All samples contained no detectable gold and low silver and base metal values with the exception of grab sample 508613, which was slightly enriched in silver (7.2 ppm) and lead (422 ppm). This grab sample was a sample of the alteration halo surrounding the quartz vein of grab sample 172490, which was taken in 1989 and was enriched in gold (220 ppb), silver (9.2 ppm) and arsenic (330 ppm).

Abundant samples were taken of the pyrite- and pyrrhotite-bearing Paleozoic stratigraphy on the north side of the Porcupine River (Figure 5). Grab sample 465909, collected from a silicified zone within biotitic volcanics, was the only sample that contained any elevated precious (3.2 ppm silver) and base metal values (3880 ppm lead).

7.0 GEOCHEMISTRY

Several silt samples were taken on the Cuds 5-8 Property during the 1991 field program. The sampling results have been compared with the results of the 1987 government regional geochemical surveys (GSC, 1988a & b) and the percentiles referred to below are those of the government surveys. A sample is considered to be anomalous if it exceeds the 90th percentile in one or more of the base or precious metals. Significant silt sample results for the 1989 to 1991 field programs are summarized in Table 7.0.1. It should be noted that silt samples considered geochemically anomalous north of the Porcupine River may not be anomalous on the south side due to percentile differences between the Iskut River (GSC, 1988a) and Sumdum - Telegraph Creek (GSC, 1988b) government surveys. None of the significant silt samples were anomalous in gold, silver or copper, but all were anomalous in at least one of the other base metals. While the source of a few of these anomalies may be related to known sulphide mineralization, the source for most is unknown.

TABLE 7.0.1
ANOMALOUS STREAM SEDIMENT SAMPLES

For Telegraph Map Sheet (104G):

Sample Number	Sample Type	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Mo ppm
91BK-10	S	<5	<0.2	61	14	216**	60**	3
91BK-11	S	<5	<0.2	27	6	154*	15	8*
91DM-05	S	<5	<0.2	51	4	294**	40**	<1
91DM-06	S	<5	0.2	79	10	400**	10	1
91DM-08	S	<5	<0.2	73	4	122	30**	3
91DM-09	S	<5	<0.2	54	8	106	35**	6*
91DM-10	S	<5	<0.2	57	4	164*	25*	2
91DM-11	S	<5	<0.2	69	<2	108	20*	1
91SH-01	S	<5	<0.2	95	2	116	30**	4
91SH-02	S	<5	<0.2	67	<2	122	50**	6*
DM90-01	S	<5	<0.2	53	22*	212**	20*	4
DM90-02	S	<5	<0.2	63	28**	250**	<5	5*
DM90-03	S	<5	<0.2	86	24**	338**	15	2
DM90-04	S	15	<0.2	69	98***	560***	90***	3
DM90-05	S	5	<0.2	99	28**	390**	35**	2
DM90-06	S	<5	<0.2	56	8	146*	5	1
DM90-07	S	5	<0.2	44	14	150*	<5	2
DM90-08	S	<5	<0.2	56	8	268**	5	1
459498	S	<5	<0.2	29	10	230**	20*	15**
459499	H	<5	<0.2	21	2	160*	20*	12**
459500	H	<5	<0.2	18	16	148*	20*	9**
459637	S	<5	<0.2	35	<2	82	5	7*
463081	S	<5	<0.2	67	16	218**	35**	4
463401	H	5	<0.2	38	<2	100	<5	6*
463402	S	<5	<0.2	51	<2	134	10	7*
90th percentile		30	0.3	103	16	133	17	4
95th percentile		65	0.4	132	22	181	29	7
99th percentile		237	1.0	272	55	478	81	16

TABLE 7.0.1 (continued)
ANOMALOUS STREAM SEDIMENT SAMPLES

For Iskut Map Sheet (NTS 104B):

Sample Number	Sample Type	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Mo ppm
91BK-15	S	<5	<0.2	48	10	168	55*	3
91BK-16	S	<5	<0.2	65	6	142	50*	1
91DM-01	S	<5	<0.2	93	12	114	80**	<1
91DM-02	S	<5	<0.2	62	14	174	70*	<1
91DM-04	S	<5	<0.2	43	8	198	50*	<1
172489	S	<5	<0.2	107	2	124	110**	3
463076	S	<5	<0.2	51	<2	174	65*	3
463077	S	<5	<0.2	87	<2	130	60*	1
463080	S	<5	<0.2	40	<2	116	50*	3
90th percentile		58	0.6	117	28	220	45	5
95th percentile		168	1.0	169	48	328	78	8
99th percentile		493	2.1	372	134	570	310	25

H Indicates a field-sieved stream sediment sample.
S Indicates a stream silt sample.
* Indicates that the value exceeded the 90th percentile.
** Indicates that the value exceeded the 95th percentile.
*** Indicates that the value exceeded the 99th percentile.

Anomalous arsenic values in silt samples 91DM-01 (80 ppm) and 172489 (110 ppm), collected in Bud Creek, reflect the arsenopyrite mineralization found in the Bud Creek Showing located upstream (Figure 6). Arsenic values for both silt samples exceeded the governments 95th percentile for the Iskut map sheet.

Although, silt and field screened stream sediment sampling of the two tributaries of Hidden Creek located near the Hidden Creek Showing did not reflect the high arsenic content of the showing, silt sample 459498 located upstream on Hidden Creek was weakly anomalous in arsenic (20 ppm, exceeding the governments 90th percentile for the Telegraph map sheet) and may reflect undiscovered arsenopyrite-rich quartz veins further upstream (Figure 5). Anomalous arsenic values were also returned from the drainages to the northwest in which Eocene intrusives are present. Undiscovered quartz vein mineralization similar to that found in Felsic Creek is the probable source of these anomalies. Float sample 459638 and grab sample 459639 taken along the lower part of Felsic Creek in 1989, contained 725 ppm and 265 ppm arsenic, respectively, but were low in gold and silver.

Drainages underlain by the Paleozoic stratigraphy north of the Porcupine River, are generally anomalous in zinc and arsenic.

Creeks in the western part of Misty Ridge were also anomalous in lead (Figure 5). Siliceous pods and zones of pyritic mineralization found during the 1991 field season and enriched in zinc or lead, may account for some of these geochemical anomalies. Grab sample 465909, found upstream of silt sample DM90-04 which was highly anomalous in lead (98 ppm), zinc (560 ppm) and arsenic (90 ppm), contained 3080 ppm lead, but low zinc and arsenic. This sample was taken from a strongly silicified and pyritic zone within a biotite-rich metavolcanic. Two drainages to the north, a float sample containing siliceous stringers and pods mineralized with pyrite, was enriched in zinc (552 ppm) but not in arsenic and lead (sample 465908). Two silt samples taken downstream of the float were anomalous in zinc, arsenic and lead (silt samples 91BK-10 and DM90-02).

North of the Porcupine River, elevated molybdenum values up to 15 ppm were recovered from silt samples taken from streams which drain an area intruded by Eocene quartz monzonite stocks (Unit 13A). Associated with the molybdenum were anomalous zinc and arsenic values with highs of 230 ppm zinc and 35 ppm arsenic (greater than the governments 95th percentile for zinc (181 ppm) and arsenic (29 ppm) for the Telegraph Creek-Sumdum map sheets (GSC, 1988b)). The three field screened stream sediment samples (samples 459499, 459500 and 463401) collected along Hidden Creek corroborate these anomalous values. The molybdenum values reflect molybdenite mineralization found within these intrusives during this field program and on the PL-10 claim to the northwest by Caulfield and Kasper (1989). They also report that elevated arsenic values associated with anomalous gold values were recovered on a contour soil line located upslope on the PL 11 claim, as well as elevated zinc values from a soil line in pre-Permian strata. The anomalous zinc and arsenic values in the stream sediment geochemistry may be related to the soil anomalies to the north.

The soil sampling program on the Cuds 5-8 claims was designed to test the south side of the Porcupine River for its gold potential and the north side for its precious and base metal potential. The soil contour lines were located on the bases of isolated gold occurrences and favourable silt and/or soil geochemistry. A total of 178 soil samples were collected along three contour soil lines, of which contour soil line CL100 was the eastward continuation of the contour soil line started in the 1990 program. Log probability plots for each element were constructed from results of all soil samples taken during the 1990 and 1991 programs. These distribution diagrams were then used to calculate background, anomalous and strongly anomalous levels. The values are based on the median, median plus one standard deviation (84.1 percentile) and median plus two standard deviations (97.7 percentile). The anomalous levels and the maximum and minimum values for each element are summarized in Table 7.0.2. It should

be noted that the lack of detectable gold and silver in the soil samples is reflected in the low background and possibly anomalous values.

TABLE 7.0.2
ANOMALOUS LEVELS FOR SOIL GEOCHEMISTRY

ELEMENT	BACKGROUND	POSSIBLY ANOMALOUS	ANOMALOUS	MAXIMUM	MINIMUM
Gold	<5 ppb	5 ppb	83 ppb	120 ppb	<5 ppb
Silver	<0.2 ppm	0.5 ppm	1.7 ppm	4.2 ppm	<0.2 ppm
Copper	26 ppm	58 ppm	155 ppm	291 ppm	2 ppm
Lead	10 ppm	24 ppm	64 ppm	182 ppm	<2 ppm
Zinc	51 ppm	113 ppm	240 ppm	372 ppm*	12 ppm
Molybdenum	2 ppm	4 ppm	14 ppm	63 ppm	<1 ppm
Arsenic	13 ppm	42 ppm	147 ppm	5730 ppm	<5 ppm

* Soil sample was taken off, but immediately adjacent to the property. Maximum zinc value for soil samples collected on the property was 264 ppm.

Contour soil line CL230, located on the south side of the Porcupine River and centred between Bud and Gache Creeks, was established to test for Bud Creek style mineralization and locate the probable extension of the gold occurrence found along Gache Creek during the 1989 field program (Figure 6). Three areas containing multi-element anomalies were identified. The western end of the contour soil line from 4+50W west, displays moderate to highly anomalous silver, copper, molybdenum and arsenic values up to 4.2 ppm silver, 241 ppm copper, 63 ppm molybdenum and 5730 ppm arsenic. A soil sample collected at station 5+00W also contained 120 ppb gold, 122 ppm lead and 170 ppm zinc. This location's extremely high arsenic content indicates the probable presence of sulphide-quartz vein mineralization nearby. A gold-copper-lead anomaly with localized silver, zinc and arsenic is centred on Bud Creek at 0+00E. Soil samples from this area returned values up to 80 ppb gold, 1.2 ppm silver, 291 ppm copper, 40 ppm lead, 208 ppm zinc and 85 ppm arsenic. Soil samples taken west of Bud Creek within this anomalous area tended to contain higher gold, silver and copper values. While the source of the western part of this anomaly is unknown, downslope migration from the Bud Creek Showings along Bud Creek probably accounts for the anomalies near 0+00E. Forty metres east of Bud Creek, pyritic crystal tuffs containing elevated gold values (rock sample 508922, 75 ppb gold) outcrop above the contour soil line. This enrichment in gold may account for the anomalous geochemical gold values in the soil samples below this outcrop. The third anomalous area is located at the east end of the contour soil line and centred on 15+75E. Soil samples

contained moderately anomalous silver and arsenic up to 1.0 ppm and 105 ppm, respectively. Soil sample 15+50E also contained the maximum lead value for all soil samples (182 ppm). No source for these anomalies was found but this anomaly is located downslope from the probable eastern extension of the auriferous shear zone found in 1989.

Contour soil lines CL100 and CL180 were run to determine the precious and base metal potential of the Stikinian stratigraphy which underlies the majority of the property on the north side of the Porcupine River (Figure 5). Although most of the anomalies are isolated spot highs, one anomalous zinc-arsenic area does occur along contour soil line CL100 between 19+25E and 21+50E. Highs of 264 ppm zinc and 120 ppm arsenic were returned from soil samples in this area along with spot highs of 50 ppb gold, 0.6 ppm silver, 103 ppm copper, 58 ppm lead and 4 ppm molybdenum. This anomalous area is located above an outcrop of rusty weathering, interbedded siltstone and argillite. Float sample 465921 of pyrite-pyrrhotite mineralized argillite found within this area was enriched in arsenic (275 ppm), but contained low levels of zinc (142 ppm) and no detectable gold or silver. Although rock samples were taken near other spot highs along both contour soil lines, none were significant enough to cause the soil geochemical anomalies.

8.0 DISCUSSION AND CONCLUSIONS

With the exception of a narrow shear zone found during the 1989 field program, all known gold occurrences on the Cuds 5-8 property are associated with sulphide-bearing quartz veins. To date, these veins have only been found in two areas on the property: the Bud Creek Showing in the southwest corner of the Cuds 7 claim and the Hidden Creek Showing in the south central part of the Cuds 6 claim. Although both showings consist of narrow veins generally mineralized with arsenopyrite and pyrite, they differ in associated sulphides and metal content.

The Bud Creek Showing, found during the 1989 field program, encompasses a number of southeasterly trending quartz veins which outcrop between Bud Creek and the western claim boundary of the Cuds 7 claim. These veins are characterized by their high silver content and the presence of lead and zinc sulphides. Grab samples from these veins assayed up to 4.32 g/tonne gold and 153.3 g/tonne silver with significant lead, zinc and arsenic values. Samples of the surrounding host rock indicates that the gold and silver is present only in the quartz veins. The Bud Creek Showing is believed to be the southeastern extension of the morphologically similar Duc Zone, which outcrops just west of the Cuds 7 claim boundary. Although not found in place, float samples from the Duc Zone assayed up to 11.93 g/tonne gold, 370.3 g/tonne silver and

2.95% zinc; indicating the potential for higher grade quartz veins in the area of the Bud Creek Showing. Anomalous soil geochemistry at the western end of contour soil line CL230, appears to indicate the presence of more quartz vein mineralization further downhill.

The Hidden Creek Showing was found during initial prospecting and mapping of the Hidden Creek area during the 1991 field season. Grab samples from the vein assayed up to 10.49 g/tonne gold across a few centimetres with low silver and base metals. The lack of silver and base metal content differentiates these veins from those of the Bud Creek/Duc Zone.

Both the Hidden Creek and Bud Creek/Duc Zone veins are located proximal to Eocene monzonitic intrusives. The elevated molybdenum values (up to 196 ppm) in the quartz-sulphide veins and the enriched arsenic values in sulphide-poor quartz veins within these intrusives or along their boundary, may indicate that the veins are related to the Eocene stocks. The area surrounding other Eocene intrusives has a high potential for similar mineralization.

A narrow pyritic-auriferous shear zone was found during the 1989 field program on the west side of Gache Creek, approximately 1300 metres east-southeast of the Bud Creek Showing. A ten centimetre grab from this zone returned 2.95 g/tonne (0.086 oz/ton) gold. Follow up work in this area failed to relocate the sample. Anomalous soil geochemistry on the east side of Gache Creek occurs below the probable trend of this shear, indicating a possible easterly extension to the shear zone.

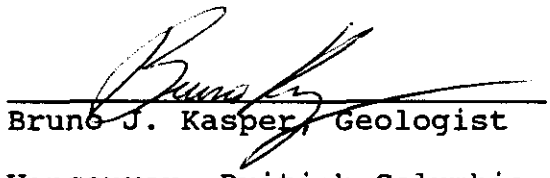
Potential precious and base metal mineralization on the north side of the Porcupine River may be indicated by the numerous single and multi-element stream and soil geochemical anomalies. To date, the sources of only a few of these anomalies on the west side of Misty Ridge have been determined. Arsenic and zinc, the most commonly anomalous elements, are associated with gold occurrences within the Paleozoic strata: the arsenopyrite-rich Hidden Creek Showing and sphalerite mineralization found within the gold-bearing, foliated mafic volcanics near the mouth of Misty creek.

No work has been reported to date in the northeastern corner of the Cuds 6 claim. This area is underlain by Stuhini Group strata, a setting which hosts the gold-bearing Jefe Zone located on the adjoining PL 11 within 1400 metres of the northern boundary the Cuds 5-8 property.

The Cuds 5-8 property is still at an early stage of exploration. This year's program was successful in locating gold-bearing mineralization in previously unexplored areas. Although the gold-bearing structures found south of the Porcupine River to date are narrow and of low grade, there is good potential to find

similar mineralization of higher grade, as indicated by float. North of the Porcupine River, the Hidden Creek Showing was discovered within unexplored Paleozoic rocks during this year's program. Previously discovered gold-bearing mineralization is hosted within the Paleozoic strata to the northwest and within the Triassic rocks to the north. These gold-bearing occurrences on the north side, coupled with highly encouraging stream and soil geochemical results, is indicative of the potential of this relatively unexplored area to host other precious metal occurrences.

Respectfully submitted,
EQUITY ENGINEERING LTD.



Bruno J. Kasper, Geologist

Vancouver, British Columbia
December, 1991

APPENDIX A

BIBLIOGRAPHY

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APPENDIX B

STATEMENT OF EXPENDITURES

Cuds 5 - 8 Claims
September 15 - 26, 1991

PROFESSIONAL FEES AND WAGES:		
Bruno Kasper, Project Geologist		
10.25 days @ $375/day	$ 3,843.75	
Stewart Harris, Geologist		
8.95 days @ $300/day	2,685.00	
Donald McInnes, Sampler		
9.375 days @ $200/day	1,875.00	
		$ 8,403.75
CHEMICAL ANALYSES:		
Rock Geochemical Analyses		
74 @ $16.20 each	$ 1,198.80	
Soil Geochemical Analyses		
178 @ $12.65 each	2,251.70	
Silt Geochemical Analyses		
20 @ $12.66 each	253.20	
		3,703.70
EQUIPMENT RENTAL:		
Fly Camp		
24 mandays @ $20/day	$ 480.00	
Generator		
8 days @ $30/day	240.00	
Handheld Radios		
24 mandays @ $5/day	120.00	
4x4 Truck		
0.5 days @ $80/day	40.00	
		880.00
EXPENSES:		
Accommodation	$ 72.52	
Camp Food	423.98	
Drafting	115.00	
Expediting	94.00	
Materials and Supplies	113.00	
Printing and Reproductions	300.55	
Statistical Analysis	300.00	
Meals	89.42	
Travel	765.54	
Automotive Fuel	9.34	
Aircraft Charters	4,979.64	
Helicopter	1,836.24	
Telephone Distance Charges	58.94	
Courier and Telefax	27.38	
Freight	172.45	
		9,358.00

MANAGEMENT FEES:	
15% on expenses only:	$ 2,228.99
SUBTOTAL:	24,574.44
GST:	
7% on subtotal	1,720.21
	$ 26,294.65
REPORT (estimated)	2,000.00
	$ 28,294.65

APPENDIX C

ROCK DESCRIPTIONS

Mineral Abbreviations:

AK	Ankerite	JA	Jarosite
AS	Arsenopyrite	KF	Potassium Feldspar
AZ	Azurite	LI	Limonite
BI	Biotite	MC	Malachite
BO	Bornite	MG	Magnetite
CA	Calcite	MO	Molybdenite
CC	Chalcocite	MN	Manganese-oxides
CB	Fe-Carbonate	MR	Mariposite
CL	Chlorite	MS	Sericite
CP	Chalcopyrite	MU	Muscovite
CV	Covellite	PO	Pyrrhotite
CY	Clay	PY	Pyrite
DO	Dolomite	QZ	Quartz
EP	Epidote	SI	Silica
GA	Garnet	SM	Smithsonite
GE	Goethite	SP	Sphalerite
GL	Galena	TA	Talc
GY	Gypsum	TT	Tetrahedrite
HE	Hematite		

Alteration Intensities:	tr	trace
	w	weak
	m	moderate
	s	strong

Sample No.						Au	Ag	Cu	Pb	Zn	As
	Location :	6319 420 N	Type : Float	Alteration :	QZ vein, minor CL	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		342 515 E	Strike Length Exp. : --- m	Sulphides :	5%PY, 2%AS						
465901	Elevation:	180 m	Sample Width : --- m	Oxides :	GE, JA, SR	1520.	69.4	214	878	8	6490
	Orientation:	-- / --	True Width : --- m	Host :	Unknown.						

Comments : Large piece of quartz float measuring 30cm by 50cm by 15cm. Sulphides occur as blebs or stringers with arsenopyrite generally surrounding the pyrite or forming stringers within the crackled quartz. Sample of sulphide-rich area within the vein.

Sample No.						Au	Ag	Cu	Pb	Zn	As
	Location :	6319 380 N	Type : Grab	Alteration :	sCB, CA veining	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		342 515 E	Strike Length Exp. : 1.0 m	Sulphides :	trPY						
465902	Elevation:	180 m	Sample Width : 70 cm	Oxides :	3%HE	<5	1.0	105	10	32	20
	Orientation:	096 / 85 N	True Width : 45 cm	Host :	Lapilli tuff						

Comments : Fe-carbonate altered shear zone containing a stockwork of calcite veinlets. Traces of pyrite found along fractures.

Sample No.						Au	Ag	Cu	Pb	Zn	As
	Location :	6319 490 N	Type : Grab	Alteration :	wCL, wCA, CL-QZ veinlet	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		342 255 E	Strike Length Exp. : 1.0 m	Sulphides :	<1%PY						
465903	Elevation:	300 m	Sample Width : 30 cm	Oxides :	GE	<5	<0.2	13	10	76	5
	Orientation:	118 / 80 S	True Width : 15 cm	Host :	Feldspar porphyry						

Comments : Five millimetre wide quartz-chlorite veinlet within a feldspar porphyry flow. Finely disseminated or cubic pyrite occurs within the veinlet or the veinlet's hanging wall.

Sample No.						Au	Ag	Cu	Pb	Zn	As
	Location :	6319 445 N	Type : Grab	Alteration :	wCL, m to sSI	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		342 180 E	Strike Length Exp. : ? m	Sulphides :	5%PY						
465904	Elevation:	360 m	Sample Width : 10 cm	Oxides :	GE	<5	<0.2	311	4	62	100
	Orientation:	? / ?	True Width : ? m	Host :	Feldspar-porphyry flow or crystal ash tuff.						

Comments : Highly fractured and altered, pyrite-rich subcrop of volcanic rock. Pyrite found as stringers or pods.

Sample No.						Au	Ag	Cu	Pb	Zn	As
	Location :	6322 630 N	Type : Grab	Alteration :	wBI, wCA, wCL	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		341 905 E	Strike Length Exp. : 30 m	Sulphides :	trPY						
.465905	Elevation:	85 m	Sample Width : 1.15 m	Oxides :	GE	<5	<0.2	62	<2	68	5
	Orientation:	122 / 44 S	True Width : 0.90 m	Host :	Thinnly bedded argillite and siltstone.						

Comments : Gossanous and foliated interbedded argillite and siltstone. Relic bedding appears to parallel foliation whose orientation is noted above.

Sample No.						Au	Ag	Cu	Pb	Zn	As
	Location :	6322 600 N	Type : Float	Alteration :	wCL, mBI	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		341 965 E	Strike Length Exp. : --- m	Sulphides :	<1%PY						
465906	Elevation:	90 m	Sample Width : --- m	Oxides :	GE	<5	<0.2	53	24	134	40
	Orientation:	-- / --	True Width : --- m	Host :	Fine-grained wacke or crystal ash tuff.						

Comments : Float taken from creek above silt sample DM90-02's location. Contains pyrite stringers and finely disseminated biotite.

Sample No.	Location :	Type :	Alteration :	Au	Ag	Cu	Pb	Zn	As
	6322 620 N 341 990 E	Grab Strike Length Exp. : 0 m	wCL, mBI Sulphides :	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465907	Elevation: 103 m	Sample Width : 20 cm	Oxides : GE	<5	<0.2	93	14	178	35
	Orientation: ? / ?	True Width : ? m	Host : Siltstone and argillite.						

Comments : Subcrop of sedimentary rock containing pyrite stringers and finely disseminated biotite. Biotite is bedding parallel and generally associated with the coarser grained siltstone.

Sample No.	Location :	Type :	Alteration :	Au	Ag	Cu	Pb	Zn	As
	6322 645 N 342 095 E	Float Strike Length Exp. : --- m	mBI, mSI, wCL Sulphides :	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465908	Elevation: 145 m	Sample Width : --- m	Oxides : GE, JA	<5	<0.2	48	6	552	15
	Orientation: -- / --	True Width : --- m	Host : Interbedded fine-grained wacke and siltstone.						

Comments : Siliceous stringers and pods mineralized with pyrite within a biotite-rich host. Biotite associated with coarser grained material. Float found among tree roots near outcrop of similar rock type.

Sample No.	Location :	Type :	Alteration :	Au	Ag	Cu	Pb	Zn	As
	6322 505 N 342 295 E	Grab Strike Length Exp. : 1.0 m	mBI, mCL, sSI, MS? Sulphides :	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465909	Elevation: 160 m	Sample Width : 35 cm	Oxides : JA	<5	3.4	65	3880	142	<5
	Orientation: 040? / 90?	True Width : 25? cm	Host : Foliated and biotite-rich metasediment?						

Comments : Strongly silicified zone within a biotite-rich metasediment. Zone appears to be bounded by a set of prominent joints (orientation noted above) which cut foliation oriented 116/64S. Good boxwork texture in silicified areas.

Sample No.	Location :	Type :	Alteration :	Au	Ag	Cu	Pb	Zn	As
	6319 945 N 342 125 E	Float Strike Length Exp. : --- m	QZ vein Sulphides :	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465910	Elevation: 100 m	Sample Width : --- m	Oxides : JA, SR	>10000	76.2	232	904	220	645
	Orientation: -- / --	True Width : --- m	Host : Unknown						

Comments : Quartz vein float measuring 10cm by 15cm by 5cm. Sulphides occur as large blebs or stringers (pyrite generally occurs as large blebs).

Sample No.	Location :	Type :	Alteration :	Au	Ag	Cu	Pb	Zn	As
	6319 880 N 342 015 E	Grab Strike Length Exp. : 1.0 m	sBI, mCL, mCY, mQZ, sH Sulphides :	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465911	Elevation: 190 m	Sample Width : 30 cm	Oxides : GE, JA	10	1.2	267	20	52	50
	Orientation: ? / ?	True Width : 25? cm	Host : Biotite-rich volcanic?						

Comments : Breccia zone within biotite-altered and hornfelsed volcanic. Fractured areas clay altered due to weathering. Unsure if in place -- subcrops.

Sample No.	Location :	Type :	Alteration :	Au	Ag	Cu	Pb	Zn	As
	6319 870 N 342 000 E	Grab Strike Length Exp. : 0.5 m	QZ vein, sCL, sSI Sulphides :	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465912	Elevation: 195 m	Sample Width : 26 cm	Oxides : JA, GE, SR	15	15.2	162	156	16	85
	Orientation: 165 / 40 E	True Width : 4 cm	Host : Biotite-rich volcanic?						

Comments : Quartz vein crosscutting biotite-rich volcanic. Sulphides form blebs and stringers along the hanging wall contact. Numerous other barren quartz veins in close proximity. Abundant sulphides within the footwall (sample 465913).

Sample No.	Location	Type	Alteration	Au	Ag	Cu	Pb	Zn	As
	6319 870 N 342 000 E	Grab Strike Length Exp. : 0.5 m	wBI, mCL, sSI, sH Sulphides : 3%PO, 1%PY, AS?	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465913	Elevation: 195 m Orientation: 165 / 40 E	Sample Width : 30 cm True Width : 18 cm	Oxides : JA Host : Biotite-rich volcanic?	<5	0.4	386	14	36	10

Comments : Siliceous footwall to the quartz vein (sample 465912). Contains abundant pyrrhotite which is not found in the quartz vein. Sulphides are finely disseminated throughout.

Sample No.	Location	Type	Alteration	Au	Ag	Cu	Pb	Zn	As
	6319 855 N 342 020 E	Grab Strike Length Exp. : 2.0? m	sQZ, mBI Sulphides : 2%PO, <1%PY, trMO	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465914	Elevation: 200 m Orientation: ? / ?	Sample Width : 60 cm True Width : ? m	Oxides : GE Host : Monzonite or diorite (?)	<5	<0.2	140	4	28	10

Comments : Strongly fractured and weathered, gossanous intrusive. Intursive appears to be composed of multiple intrusive events ranging from diorite to monzonite. Sulphides occur as small blebs or are finely disseminated throughout. Barren QZ veins cut the rock.

Sample No.	Location	Type	Alteration	Au	Ag	Cu	Pb	Zn	As
	6319 845 N 341 980 E	Grab Strike Length Exp. : 0.3 m	QZ vein, wMS, wBI, sH Sulphides : <1%PY, MO?	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465915	Elevation: 220 m Orientation: 054 / 64 NW	Sample Width : 15 cm True Width : 3 cm	Oxides : None visible Host : Contact between host volcanic? and monzonitic dyke.	<5	<0.2	21	6	66	145

Comments : Quartz vein along intrusive-country rock contact. Country rock is inturded by monzonitic dykes of various sizes.

Sample No.	Location	Type	Alteration	Au	Ag	Cu	Pb	Zn	As
	6319 820 N 341 985 E	Grab Strike Length Exp. : 0.3 m	sBI, sSI Sulphides : 1%PO, <1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465916	Elevation: 250 m Orientation: ? / ?	Sample Width : 20 cm True Width : ? m	Oxides : GE Host : Monzonite or diorite?	<5	<0.2	123	10	198	420

Comments : Highly fractured and altered intrusive on the footwall of a QZ vein. CL-altered, felsic intrusive forms the hanging wall to the vein. Sulphides are finely disseminated throughout.

Sample No.	Location	Type	Alteration	Au	Ag	Cu	Pb	Zn	As
	6319 945 N 342 120 E	Float Strike Length Exp. : --- m	QZ vein Sulphides : 5-10%AS, 3%PY, <1%SP & GL	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465917	Elevation: 105 m Orientation: -- / --	Sample Width : --- m True Width : --- m	Oxides : GE, SR Host : Unknown	1570	31.4	156	3120	2580	>10000

Comments : Subrounded QZ vein float measuring 15cm by 25cm by 20cm, is highly fractured with sulphides infilling the fractures. Pyrite occurs as blebs and arsenopyrite forms stringers throughout.

Sample No.	Location	Type	Alteration	Au	Ag	Cu	Pb	Zn	As
	6322 055 N 342 050 E	Float Strike Length Exp. : --- m	m to sCL, w to mBI, wCA Sulphides : <1%PO	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465918	Elevation: 105 m Orientation: -- / --	Sample Width : --- m True Width : --- m	Oxides : GE Host : Mafic volcanic and CL schist.	<5	<0.2	112	16	54	145

Comments : Weakly sulphide mineralized float in rock fall beneath outcrop. No sulphides were observered in outcrop. PO occurs as smears oriented parallel to the float's weak foliation.

Sample No.	Location	Type	Alteration	Au	Ag	Cu	Pb	Zn	As
	6321 885 N 342 155 E	Grab Strike Length Exp. : 1.0 m	mCL, wBI, wCA Sulphides : <1%PO	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465919	Elevation: 110 m Orientation: ? / ?	Sample Width : 30 cm True Width : ? m	Oxides : GE Host : CL schist and andesitic crystal tuff.	<5	<0.2	73	4	74	55

Comments : Gossanous subcrop containing finely disseminated PO. Unsure if in place? Located 10 metres downslope from soil sample station CL100, 15+00E.

Sample No.	Location	Type	Alteration	Au	Ag	Cu	Pb	Zn	As
	6321 785 N 342 280 E	Foat Strike Length Exp. : --- m	w to mCL, wBI, wSI Sulphides : <1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465920	Elevation: 121 m Orientation: -- / --	Sample Width : --- m True Width : --- m	Oxides : GE Host : Interbedded felsic and mafic volcanics.	<5	<0.2	11	4	30	10

Comments : Float found in the roots of an uprooted tree. PY occurs as smears and stringers throughout, but no sulphides were located in the exposed subcrop. Sample taken 5 metres upslope from soil sample CL100, 17+25E.

Sample No.	Location	Type	Alteration	Au	Ag	Cu	Pb	Zn	As
	6321 675 N 342 745 E	Float Strike Length Exp. : --- m	wCA, wSI Sulphides : <1%PO, <1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465921	Elevation: 145 m Orientation: -- / --	Sample Width : --- m True Width : --- m	Oxides : GE Host : Argillite	<5	<0.2	266	16	142	275

Comments : Angular float measuring 50cm by 30cm by 15cm, contains PY and PO smears that are parallel to the slaty cleavage.

Sample No.	Location	Type	Alteration	Au	Ag	Cu	Pb	Zn	As
	6318 735 N 343 690 E	Grab Strike Length Exp. : 5.0 m	sCB, wCL Sulphides : 3%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465922	Elevation: 110 m Orientation: 092 / 25 N	Sample Width : 20 cm True Width : 15 cm	Oxides : GE Host : Lapilli tuff.	<5	<0.2	46	4	38	15

Comments : Fe-carbonate altered shear zone containing finely disseminated PY. Zone pinches and swells. Surrounding wall rock is generally unaltered and contains only a trace of sulphides.

Sample No.	Location	Type	Alteration	Au	Ag	Cu	Pb	Zn	As
	6318 750 N 343 670 E	Grab Strike Length Exp. : 5.0 m	sCB, mCL, mCA, MR?, mQZ Sulphides : <1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465923	Elevation: 113 m Orientation: 060? / 68? SE	Sample Width : 1.20 m True Width : 0.85 m	Oxides : GE Host : Lapilli tuff.	<5	<0.2	33	14	54	20

Comments : Fe-carbonate altered shear zone approximately two to three metres wide, is exposed along the side of a small escarpment. PY found with the QZ veinlets.

Sample No.	Location	Type	Alteration	Au	Ag	Cu	Pb	Zn	As
	6318 660 N 343 485 E	Grab Strike Length Exp. : >10 m	wCA, wCL, wSI? Sulphides : 1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465924	Elevation: 235 m Orientation: ? / ?	Sample Width : 1.0 m True Width : ? m	Oxides : GE Host : Crystal tuff?	<5	<0.2	17	6	60	15

Comments : PY is finely disseminated throughout the weakly altered crystal tuffs. Host rock has been strongly bleached. Proximal to a Fe-carbonate altered shear zone.

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
465925	6321 215 N, 344 865 E; Elevation: 310 m; Orientation: 000 / 38 E	Grab; Strike Length Exp. : 2.0 m; Sample Width : 20 cm; True Width : 3 cm	QZ vein; Sulphides : None visible; Oxides : HE; Host : BI-poor monzonite.	<5	<0.2	11	6	6	30

Comments : Barren quartz vein crosscuts the monzonitic outcrop.

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
465926	6321 340 N, 344 735 E; Elevation: 305 m; Orientation: ? / ?	Grab; Strike Length Exp. : >10 m; Sample Width : 1.0 m; True Width : ? m	sBI, sH, KF? or SI?; Sulphides : trPY; Oxides : GE; Host : Hornfelsed metavolcanic?	<5	<0.2	49	<2	88	15

Comments : Gossanous metavolcanic outcrop at the edge of the monzonitic stock.

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
465927	6321 360 N, 344 720 E; Elevation: 290 m; Orientation: 137 / 75 SW	Grab; Strike Length Exp. : 3.0 m; Sample Width : 20 cm; True Width : 4? cm	QZ vein; Sulphides : 10%AS, 1%PY; Oxides : SR, GE; Host : Metasediment?	2110	1.6	152	2	42	>10000

Comments : AS-rich QZ vein subcropping beneath tree roots. AS appears to be poddy and not evenly distributed throughout the vein. Sample taken of an exposed pod of mineralization.

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
465928	6321 360 N, 344 720 E; Elevation: 290 m; Orientation: 148 / 75 SW	Grab; Strike Length Exp. : 1.5 m; Sample Width : 25 cm; True Width : 3 cm	sBI, sQZ; Sulphides : 10-20%AS, 5%PY; Oxides : SR; Host : Metasediment?	9740	0.6	263	10	186	>10000

Comments : Sulphide-rich quartz vein. Appears to be the continuation of the vein from sample 465927. Sulphides form distinct layers. May pinch out to the west and appears to overlie a breccia zone which is exposed upslope.

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
465929	6321 360 N, 344 735 E; Elevation: 295 m; Orientation: 108 / 35 S	Grab; Strike Length Exp. : 3.0 m; Sample Width : 1.4 m; True Width : 1.4 m	mBI, QZ veining; Sulphides : trAS; Oxides : GE, HE; Host : Meatsediment.	5	0.2	75	10	96	705

Comments : Brecciated zone containing a QZ matrix. Believed to form the footwall of the AS-rich QZ veins exposed further downslope. Boulders of a felsic intrusive subcrop beneath the breccia zone, a probable indication of the footwalls composition.

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
465930	6318 850 N, 343 340 E; Elevation: 190 m; Orientation: ? / ?	Grab; Strike Length Exp. : 10 m; Sample Width : 1.5 m; True Width : ? m	wCL, wSI; Sulphides : 3-5%PY; Oxides : GE; Host : Amgydaloidal basalt?	<5	<0.2	18	28	84	120

Comments : PY is finely disseminated throughout the host rock.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6318 810 N	Grab	sCB		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	343 335 E	Strike Length Exp. : 0.0 m	Sulphides :	1%PY						
465931	Elevation: 220 m	Sample Width : 20 cm	Oxides :	None visible	<5	0.4	72	22	84	35
	Orientation: 105 / 73 S	True Width : 20 cm	Host :	Agglomerate or lapilli tuff.						

Comments : Fe-carbonate altered shear zone exposed in the west bank of 960 creek. Width of Fe-carbonate alteration is approximately three metres. PY is finely disseminated throughout.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6318 720 N	Float	sCB		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	343 215 E	Strike Length Exp. : --- m	Sulphides :	3%PY						
465932	Elevation: 280 m	Sample Width : --- m	Oxides :	None visible	30	<0.2	11	10	72	60
	Orientation: -- / --	True Width : --- m	Host :	Maroon coloured agglomerate?						

Comments : Fe-carbonate altered float found among the roots of an upturned tree. Angular float measures 3cm by 15cm by 10cm and contains PY stringers. Plenty of similar altered float around, but none are mineralized with sulphides.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6322 540 N	Float	Unaltered		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	343 065 E	Strike Length Exp. : ---- m	Sulphides :	None visible						
465951	Elevation: 180 m	Sample Width : ---- m	Oxides :	HE	35	0.2	13	12	8	20
	Orientation: -- / --	True Width : ---- m	Host :	Felsic intrusive						

Comments : Angular float found at the base of a cliff; probably close to source. Felsic dyke is 15cm. wide. Taken at soil sample station CL180, 0+00E.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6322 540 N	Float	QZ veining		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	343 065 E	Strike Length Exp. : ---- m	Sulphides :	trPY						
465952	Elevation: 180 m	Sample Width : ---- m	Oxides :	HE	95	<0.2	13	8	14	35
	Orientation: -- / --	True Width : ---- m	Host :	Muscovite-rich felsic intrusive.						

Comments : Three angular float pieces thought to be proximal to the source. QZ vein contains a trace of PY and cuts across the felsic intrusive.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6322 540 N	Grab	w to mCL, wEP, wQZ		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	343 065 E	Strike Length Exp. : 10 m	Sulphides :	1-2%PO, 2%PY						
465953	Elevation: 180 m	Sample Width : 10 cm	Oxides :	GE, JA	<5	<0.2	59	4	50	5
	Orientation: ? / ?	True Width : 10? cm	Host :	Metavolcanic						

Comments : Part of a 20 centimetre slab of rock bounded by two joints (joints may parallel cleavage which is weakly developed). PY and PO smears parallel the weak cleavage.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6322 540 N	Grab	QZ veining		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	343 065 E	Strike Length Exp. : 2.0 m	Sulphides :	None visible						
465954	Elevation: 180 m	Sample Width : 15 cm	Oxides :	HE	90	0.2	14	10	6	15
	Orientation: ? / ?	True Width : 15? cm	Host :	Muscovite-rich felsic intrusive.						

Comments : Felsic dyke which crosscuts the metavolcanics and metasediments, contains an one centimetre wide QZ veinlet.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6322 540 N	Grab		mBI, mCL, sQZ	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	343 065 E	Strike Length Exp. : 4.0 m	Sulphides :	trPY?						
465955	Elevation: 180 m	Sample Width : 20 cm	Oxides :	GE	30	<0.2	80	4	68	15
	Orientation: ? / ?	True Width : m	Host :	Metavolcanic? and argillite.						

Comments : Wallrock to the felsic dyke of sample 465954. Numerous small QZ veinlets (millimetre scale) are present.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6322 540 N	Grab		mBI, sCL	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	343 065 E	Strike Length Exp. : 4.0 m	Sulphides :	None visible						
465956	Elevation: 180 m	Sample Width : 1.5 m	Oxides :	None visible	<5	0.2	65	<2	70	15
	Orientation: ? / ?	True Width : ? m	Host :	Banded metavolcanic.						

Comments : Sample taken along strike from rock sample 465955.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6319 398 N	Grab		mCA, sCL	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	342 479 E	Strike Length Exp. : ? m	Sulphides :	trPY						
508601	Elevation: 200 m	Sample Width : 2.0 m	Oxides :	None visible	<5	<0.2	15	10	112	<5
	Orientation: 159 / 35 E	True Width : 1.7 m	Host :	Lapilli tuff						

Comments :

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6319 378 N	Grab		mCA, mCL	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	342 430 E	Strike Length Exp. : 6.0 m	Sulphides :	trPY, trMO?						
508602	Elevation: 230 m	Sample Width : 1.3 m	Oxides :	None visible	<5	<0.2	13	2	124	25
	Orientation: 141 / 51 NE	True Width : 40 cm	Host :	Lapilli tuff						

Comments :

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6319 360 N	Grab		sCB, mCL, wQZ	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	342 370 E	Strike Length Exp. : 8.0 m	Sulphides :	2%PY						
508603	Elevation: 270 m	Sample Width : 2.0 m	Oxides :	GE, wHE	<5	<0.2	15	<2	80	5
	Orientation: 077 / 73 S	True Width : 1.8 m	Host :	Lapilli tuff						

Comments : Weak oxidation.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6319 315 N	Grab		mCA, mCL, wEP, wSI	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	342 175 E	Strike Length Exp. : 7.0 m	Sulphides :	trPY						
508604	Elevation: 410 m	Sample Width : 1.0 m	Oxides :	HE	<5	<0.2	20	<2	86	10
	Orientation: ? / ?	True Width : 1.0 m	Host :	Lapilli tuff						

Comments : Earthy hematite found along fractures.

Property : Cuds 5-8 claims NTS : 104B/13E & 104G/4E Date : 11/25/91

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
508605	6319 335 N / 342 163 E; Elevation: 430 m; Orientation: 162 / 34 E	Grab; Strike Length Exp. : 6.0 m; Sample Width : 30 cm; True Width : 30 cm	mCA, wCL; Sulphides : trPY; Oxides : None Visible; Host : Lapilli tuff	<5	<0.2	34	6	140	<5

Comments : Sample of wallrock around sample 172491; a 1989 sample which assayed 2.95 g/tonne gold. Sulphides occur with the CA veinlets.

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
508606	6321 515 N / 343 343 E; Elevation: 105 m; Orientation: ? / ?	Grab; Strike Length Exp. : 3.0 m; Sample Width : 3.0 m; True Width : 3.0 m	wCA; Sulphides : trPY; Oxides : GE staining; Host : Felsic tuff	<5	<0.2	17	8	56	5

Comments :

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
508607	6321 526 N / 343 430 E; Elevation: 121 m; Orientation: ? / ?	Grab; Strike Length Exp. : 7.0 m; Sample Width : 5.0 m; True Width : 5.0 m	mCA, wEP; Sulphides : trPY; Oxides : None visible; Host : Tuff	<5	<0.2	45	4	72	20

Comments :

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
508608	6321 528 N / 343 480 E; Elevation: 127 m; Orientation: ? / ?	Grab; Strike Length Exp. : 4.0 m; Sample Width : 2.0 m; True Width : 2.0 m	wCL, wEP; Sulphides : 1%PY; Oxides : wGE; Host : Feldspar-hornblende porphyry	<5	<0.2	55	6	52	20

Comments :

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
508609	6321 600 N / 343 675 E; Elevation: 150 m; Orientation: 099 / 45 S	Grab; Strike Length Exp. : 100 m; Sample Width : 3.0 m; True Width : 2.0 m	Unaltered?; Sulphides : trPY; Oxides : GE, trJA; Host : Argillite	<5	<0.2	46	14	56	<5

Comments : 20 metre high cliff exposed for >100 metres.

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
508610	6321 700 N / 343 500 E; Elevation: 160 m; Orientation: 105 / 45 S	Grab; Strike Length Exp. : 40 m; Sample Width : 4.0 m; True Width : 4.0 m	mSI; Sulphides : trPY; Oxides : wGE; Host : Argillite and gneissose felsic tuff	35	<0.2	26	2	52	20

Comments : Weak oxidation.

Property : Cuds 5-8 claims NTS : 104B/13E & 104G/4E Date : 11/25/91

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
	6321 712 N	Float	sQZ						
	343 195 E	Strike Length Exp. : ----- m	Sulphides : trPY						
508611	Elevation: 160 m	Sample Width : ---- m	Oxides : sGE	<5	<0.2	24	8	24	5
	Orientation: -- / --	True Width : ----- m	Host : Gneissose crystal tuff						

Comments : Float contains abundant 3 centimetre wide, barren quartz veins. PY present as blebs. Float found in overturned tree.

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
	6319 485 N	Float	mCL, wSI						
	342 312 E	Strike Length Exp. : ----- m	Sulphides : 7-10%PY						
508612	Elevation: 280 m	Sample Width : 30 cm	Oxides : GE	<5	<0.2	49	<2	50	10
	Orientation: -- / --	True Width : 30 cm	Host : Lapilli tuff						

Comments : Subcrop in tree roots. PY is finely disseminated and fracture controlled within the 30 cm. wide piece of float.

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
	6319 345 N	Chip	sCB, wMR						
	342 210 E	Strike Length Exp. : 1.2 m	Sulphides : 10%PY						
508613	Elevation: 410 m	Sample Width : 50 cm	Oxides : sGE	30	7.2	119	28	422	80
	Orientation: 127 / 87 N	True Width : 50 cm	Host : Mafic volcanic						

Comments : Strong Fe-carbonate alteration enveloping quartz vein (sample 172490); pyrite found in footwall only.

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
	6319 320 N	Grab	mCL, wQZ						
	342 095 E	Strike Length Exp. : 6.0 m	Sulphides : 3-5%PY						
508614	Elevation: 465 m	Sample Width : 1.0 m	Oxides : wGE	60	<0.2	5	<2	38	<5
	Orientation: ? / ?	True Width : 1.0 m	Host : Crystal tuff						

Comments : PY is disseminated throughout the host rock and in QZ stringers. A one centimetre wide, milky and bull quartz veinlet with goethite blebs, is also present. Veinlet oriented 167/32 E.

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
	6319 288 N	Float	sCA, mMS?						
	342 026 E	Strike Length Exp. : ---- m	Sulphides : 3%PY						
508615	Elevation: 505 m	Sample Width : ---- m	Oxides : None visible	<5	<0.2	29	8	82	5
	Orientation: -- / --	True Width : ---- m	Host : Crystal tuff						

Comments : 2m by 1m by 1m boulder in Bud Creek. Resembles porphyry-style mineralization.

Sample No.	Location	Type	Alteration	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
	6319 295 N	Grab	sCA, sCL						
	341 895 E	Strike Length Exp. : 20 m	Sulphides : trPY						
508616	Elevation: 570 m	Sample Width : 5.0 m	Oxides : wGE, wHE	35	<0.2	15	8	100	<5
	Orientation: 110 / 70 N	True Width : 4.6 m	Host : Augite crystal tuff						

Comments : Pyrite occurs with calcite along fractures.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6321 750 N	Grab		mBI?, mCL	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	343 728 E	Strike Length Exp. : ? m	Sulphides :	<1%PO						
508617	Elevation: 170 m	Sample Width : 4.0 m	Oxides :	None visible	<5	<0.2	49	<2	68	20
	Orientation: 125 / 30 S	True Width : 3.6 m	Host :	Felsic tuff						

Comments : Rock outcrop is strongly foliated (orientation noted above).

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6321 775 N	Grab		Unaltered	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	343 742 E	Strike Length Exp. : 40 m	Sulphides :	1-2%MG						
508618	Elevation: 185 m	Sample Width : 20 m	Oxides :	wGE, HE?	<5	<0.2	3	8	10	<5
	Orientation: ? / ?	True Width : 20 m	Host :	Monzonite						

Comments : Locally contains 1-2% of a vitreous, red mineral.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6321 954 N	Grab		sH	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	343 940 E	Strike Length Exp. : 50 m	Sulphides :	3%PY						
508619	Elevation: 237 m	Sample Width : 10 m	Oxides :	None visible	<5	<0.2	114	4	100	15
	Orientation: ? / ?	True Width : 10 m	Host :	Argillite						

Comments : Fine-grained hornfels (amphibole or pyroxene?) in contact with intrusive. Finely disseminated pyrite is parallel to foliation.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6321 984 N	Grab		mQZ	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	344 120 E	Strike Length Exp. : 6.0 m	Sulphides :	trPY						
508620	Elevation: 300 m	Sample Width : 2.0 m	Oxides :	wGE	<5	<0.2	7	4	6	<5
	Orientation: ? / ?	True Width : 2.0 m	Host :	Quartz monzonite						

Comments : Intrusive contains a stockwork-style of millimetre scale quartz veinlets. Weak surface oxidation on the exposed rocks.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6322 008 N	Grab		H?	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	344 164 E	Strike Length Exp. : 1.0 m	Sulphides :	1-2%PY						
508621	Elevation: 347 m	Sample Width : 30 cm	Oxides :	wGE	<5	<0.2	52	2	32	<5
	Orientation: ? / ?	True Width : 30 cm	Host :	Argillite						

Comments : Bedding-controlled, finely disseminated pyrite. Near intrusive contact.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6319 350 N	Grab		mCA, sCL, mMS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	342 400 E	Strike Length Exp. : 50 m	Sulphides :	3%PY						
508622	Elevation: 260 m	Sample Width : 2.0 m	Oxides :	wGE	75	0.2	87	<2	48	10
	Orientation: ? / ?	True Width : 2.0 m	Host :	Crystal tuff						

Comments : 50 metre long cliff-forming exposure. Feldspars within the tuff have been sericite altered. Locally contains disseminated PY and fractured controlled PY blebs.

Property : Cuds 5-8 claims NTS : 104B/13E & 104G/4E Date : 11/25/91

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6319 266 N	Float		mCA, mCL	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	342 504 E	Strike Length Exp. : ---- m	Sulphides	None visible						
508623	Elevation: 255 m	Sample Width : ---- m	Oxides	None visible	<5	<0.2	24	<2	74	10
	Orientation: -- / --	True Width : ---- m	Host	Ash tuff						

Comments : Float from base of a cliff.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6319 197 N	Grab		mCA, mCL, wEP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	342 597 E	Strike Length Exp. : 20 m	Sulphides	1-2%PY						
508624	Elevation: 245 m	Sample Width : 1.0 m	Oxides	None visible	<5	<0.2	21	4	68	<5
	Orientation: ? / ?	True Width : 1.0 m	Host	Crystal tuff						

Comments : Sampled across 20 metre exposure. Locally contains PY along fractures or disseminated throughout.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6319 095 N	Grab		mCL	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	342 780 E	Strike Length Exp. : 3.0 m	Sulphides	trPY						
508625	Elevation: 245 m	Sample Width : 1.0 m	Oxides	wGE	<5	<0.2	7	<2	74	<5
	Orientation: ? / ?	True Width : 1.0 m	Host	Lapilli tuff						

Comments : Weak oxidation.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6318 966 N	Float		sCA, sCL	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	342 975 E	Strike Length Exp. : ---- m	Sulphides	None visible						
508626	Elevation: 235 m	Sample Width : ---- m	Oxides	wHE	<5	<0.2	44	6	80	10
	Orientation: -- / --	True Width : ---- m	Host	Agglomerate						

Comments : Float from base of cliff.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6318 805 N	Grab		sCL, mCA, mEP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	343 227 E	Strike Length Exp. : 30 m	Sulphides	trMG						
508627	Elevation: 235 m	Sample Width : 1.5 m	Oxides	None visible	<5	<0.2	38	6	72	<5
	Orientation: ? / ?	True Width : 1.5 m	Host	Lapilli tuff/agglomerate						

Comments :

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6322 521 N	Grab		Unaltered?	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	342 022 E	Strike Length Exp. : 20 m	Sulphides	None visible						
508628	Elevation: 120 m	Sample Width : 1.5 m	Oxides	wGE, wMN	<5	<0.2	21	4	46	15
	Orientation: ? / ?	True Width : 1.5 m	Host	Felsic crystal tuff						

Comments :

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6322 548 N	Grab	Unaltered?		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	342 124 E	Strike Length Exp. : 7.0 m	Sulphides	: trPY						
508629	Elevation: 160 m	Sample Width : 1.0 m	Oxides	: wGE, wMN	<5	0.2	29	10	52	<5
	Orientation: ? / ?	True Width : 1.0 m	Host	: Felsic crystal tuff or greywacke?						

Comments : Similar to 508628.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6322 370 N	Grab	mCL		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	342 539 E	Strike Length Exp. : 10 m	Sulphides	: <1%PY						
508630	Elevation: 235 m	Sample Width : 30 cm	Oxides	: GE	<5	<0.2	72	6	50	10
	Orientation: 119 / 76 S	True Width : 25 cm	Host	: Felsic tuff						

Comments : Pyrite found within chlorite altered patches.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6322 178 N	Grab	wSI		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	342 748 E	Strike Length Exp. : 15 m	Sulphides	: trPY						
508631	Elevation: 235 m	Sample Width : 1.0 m	Oxides	: wGE	<5	<0.2	160	10	150	20
	Orientation: 114 / 71 S	True Width : 1.0 m	Host	: Felsic tuff or greywacke?						

Comments : PY found with patchy silicification.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6322 095 N	Grab	wCA		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	342 837 E	Strike Length Exp. : 10 m	Sulphides	: trPY						
508632	Elevation: 240 m	Sample Width : 20 cm	Oxides	: mGE, wJA, 3%HE	<5	<0.2	88	8	284	<5
	Orientation: 045 / 80 N	True Width : 20 cm	Host	: Felsic crystal tuff						

Comments : Fine-grained hematite present.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6318 795 N	Grab	sCL, mCA		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	343 362 E	Strike Length Exp. : 40 m	Sulphides	: None visible						
508633	Elevation: 225 m	Sample Width : 1.0 m	Oxides	: mHE	<5	<0.2	27	<2	28	10
	Orientation: 037? / 50? SE	True Width : 1.0 m	Host	: Lapilli tuff						

Comments : Purple hematite staining; doubtful bedding orientation. Fractures oriented parallel to bedding.

Sample No.	Location :	Type :	Alteration :		Au	Ag	Cu	Pb	Zn	As
	6318 734 N	Chip	mSI, wCL		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	343 425 E	Strike Length Exp. : 1.0 m	Sulphides	: 10%PY						
508634	Elevation: 230 m	Sample Width : 10 cm	Oxides	: wGE, wJA	<5	<0.2	2	4	72	10
	Orientation: 109 / 66 N	True Width : 10 cm	Host	: Crystal tuff						

Comments : Bleached, pyritized volcanic; zone is only partially exposed. See sample 508635.

Property : Cuds 5-8 claims NTS : 104B/13E & 104G/4E Date : 11/25/91

Sample No.	Location :		Type :		Alteration :		Au	Ag	Cu	Pb	Zn	As
		6318 730 N		Float		mCL, mCA	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		343 440 E	Strike Length Exp. :	---- m	Sulphides :	10-20%PY						
508635	Elevation:	235 m	Sample Width :	---- m	Oxides :	None visible	<5	<0.2	15	10	132	25
	Orientation:	-- / --	True Width :	---- m	Host :	Crystal tuff						

Comments : 2m by 1m by 1m float boulder. Likely represents the size of the zone sampled by 508634.

Sample No.	Location :		Type :		Alteration :		Au	Ag	Cu	Pb	Zn	As
		6318 524 N		Grab		mCA, mSI	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		343 640 E	Strike Length Exp. :	2.0 m	Sulphides :	<1%PY						
508636	Elevation:	260 m	Sample Width :	60 cm	Oxides :	wGE	<5	<0.2	121	12	68	30
	Orientation:	? / ? ?	True Width :	60 cm	Host :	Lapilli tuff						

Comments : Strongly bleached, pale green lapilli tuff with stretched fragments.

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

A9122569

Comments: ATTN: DAVID CAULFIELD

CERTIFICATE A9122569

EQUITY ENGINEERING LTD.

Project: CUDS 5-8
P.O. # : ZUE91-01

Samples submitted to our lab in Vancouver, BC.
This report was printed on 7-OCT-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	74	Geochem ring to approx 150 mesh
294	74	Crush and split (0-10 pounds)
298	74	ICP - AQ Digestion charge

* 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	74	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
396	5	Au oz/T: 1/2 assay ton	FA-GRAVIMETRIC	0.003	20.000
922	74	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
921	74	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
923	74	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	74	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	74	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	74	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	74	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	74	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	74	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	74	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	74	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	74	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	74	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	74	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	74	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	74	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	74	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	74	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	74	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	74	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	74	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	74	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	74	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	74	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	74	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
944	74	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	74	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	74	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	74	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	74	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	74	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	74	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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

Project : CUDS 5-8
Comments: ATTN: DAVID CAULFIELD

Page Number :1-A
Total Pages :2
Certificate Date: 07-OCT-91
Invoice No. :I9122569
P.O. Number :ZUE91-01

CERTIFICATE OF ANALYSIS A9122569

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Au FA oz/T	Ag ppm	Al %	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 %
465901	205	294	1520	0.044	69.4	0.02	6490	10	< 0.5	36	0.01	0.5	18	193	214	5.04	< 10	< 1	< 0.01	< 10	< 0.01
465902	205	294	< 5	-----	1.0	0.21	20	220	< 0.5	< 2	>15.00	< 0.5	4	21	105	1.36	40	< 1	0.09	10	0.01
465903	205	294	< 5	-----	< 0.2	1.82	5	360	< 0.5	< 2	1.94	< 0.5	11	59	13	3.69	< 10	< 1	0.22	10	1.01
465904	205	294	< 5	-----	< 0.2	2.78	100	170	< 0.5	< 2	1.01	< 0.5	26	40	311	7.08	< 10	< 1	0.29	< 10	1.74
465905	205	294	< 5	-----	< 0.2	2.40	5	490	< 0.5	< 2	0.13	< 0.5	6	69	62	4.03	< 10	< 1	1.70	< 10	1.26
465906	205	294	< 5	-----	< 0.2	2.33	40	970	< 0.5	< 2	0.31	0.5	7	71	53	4.09	< 10	< 1	1.58	< 10	1.33
465907	205	294	< 5	-----	< 0.2	3.37	35	1110	< 0.5	6	0.32	< 0.5	8	68	93	4.84	< 10	< 1	1.85	< 10	1.65
465908	205	294	< 5	-----	< 0.2	2.84	15	730	< 0.5	< 2	0.22	6.5	3	79	48	4.64	< 10	< 1	1.59	< 10	1.24
465909	205	294	< 5	-----	3.4	1.08	< 5	240	< 0.5	< 2	0.03	< 0.5	1	124	65	2.73	< 10	< 1	0.78	< 10	0.37
465910	205	294	>10000	0.348	76.2	0.06	645	20	< 0.5	298	0.01	9.5	11	227	232	4.84	< 10	< 1	0.02	< 10	< 0.01
465911	205	294	10	-----	1.2	2.21	50	150	< 0.5	< 2	0.64	< 0.5	48	165	267	11.25	< 10	< 1	0.50	< 10	1.71
465912	205	294	15	-----	15.2	0.21	85	30	< 0.5	82	0.19	< 0.5	7	271	162	2.27	< 10	< 1	0.06	< 10	0.11
465913	205	294	< 5	-----	0.4	2.66	10	200	< 0.5	< 2	1.46	< 0.5	16	150	386	4.60	< 10	< 1	0.69	< 10	1.15
465914	205	294	< 5	-----	< 0.2	0.82	10	170	< 0.5	< 2	1.04	< 0.5	7	132	140	2.45	< 10	< 1	0.33	10	0.49
465915	205	294	< 5	-----	< 0.2	0.29	145	120	< 0.5	< 2	2.70	1.0	2	334	21	2.38	< 10	< 1	0.12	< 10	0.11
465916	205	294	< 5	-----	< 0.2	0.85	420	210	< 0.5	< 2	1.63	1.5	9	79	123	3.20	< 10	< 1	0.33	10	0.56
465917	205	294	1570	0.052	31.4	0.08	>10000	20	< 0.5	< 2	0.08	>100.0	3	158	156	4.32	< 10	< 1	0.04	< 10	< 0.01
465918	205	294	< 5	-----	< 0.2	2.21	145	510	< 0.5	2	0.76	0.5	21	77	112	3.82	< 10	< 1	0.54	< 10	1.75
465919	205	294	< 5	-----	< 0.2	2.35	55	140	< 0.5	< 2	0.62	< 0.5	22	92	73	5.43	< 10	< 1	0.08	< 10	1.93
465920	205	294	< 5	-----	< 0.2	0.52	10	510	< 0.5	< 2	0.14	< 0.5	2	64	11	1.55	< 10	< 1	0.24	10	0.15
465921	205	294	< 5	-----	< 0.2	3.00	275	330	< 0.5	4	0.33	< 0.5	73	49	266	5.64	< 10	1	1.17	< 10	1.34
465922	205	294	< 5	-----	< 0.2	1.17	15	320	< 0.5	< 2	4.16	0.5	14	49	46	3.84	10	< 1	0.23	10	1.21
465923	205	294	< 5	-----	< 0.2	0.89	20	130	< 0.5	< 2	5.96	< 0.5	13	32	33	3.67	10	< 1	0.29	10	1.01
465924	205	294	< 5	-----	< 0.2	2.31	15	430	< 0.5	< 2	0.85	< 0.5	10	28	17	4.79	< 10	< 1	0.25	< 10	1.11
465925	205	294	< 5	-----	< 0.2	0.21	30	10	< 0.5	< 2	0.05	< 0.5	< 1	214	11	0.84	< 10	< 1	0.10	< 10	0.01
465926	205	294	< 5	-----	< 0.2	2.42	15	400	< 0.5	< 2	0.26	0.5	6	120	49	4.03	< 10	< 1	1.80	< 10	1.44
465927	205	294	2110	0.068	1.6	0.25	>10000	30	< 0.5	4	0.02	1.0	5	167	152	4.73	< 10	< 1	0.21	< 10	0.05
465928	205	294	9740	0.306	0.6	1.15	>10000	60	< 0.5	24	0.20	3.0	12	106	263	12.55	< 10	< 1	0.45	< 10	0.41
465929	205	294	5	-----	0.2	2.84	705	160	< 0.5	10	0.67	< 0.5	6	173	75	3.73	< 10	< 1	1.55	< 10	1.32
465930	205	294	< 5	-----	< 0.2	2.20	120	200	< 0.5	< 2	0.38	0.5	9	15	18	5.33	< 10	< 1	0.14	< 10	0.91
465931	205	294	< 5	-----	0.4	1.58	35	120	< 0.5	< 2	2.17	0.5	45	21	72	6.48	< 10	< 1	0.12	< 10	1.24
465932	205	294	30	-----	< 0.2	0.38	60	230	< 0.5	8	3.00	< 0.5	13	45	11	5.97	< 10	< 1	0.16	< 10	0.23
465951	205	294	35	-----	0.2	0.23	20	10	< 0.5	2	0.03	< 0.5	1	119	13	0.52	< 10	< 1	0.10	< 10	0.04
465952	205	294	95	-----	< 0.2	0.22	35	30	< 0.5	< 2	0.03	< 0.5	< 1	142	13	0.62	< 10	< 1	0.13	< 10	0.01
465953	205	294	< 5	-----	< 0.2	2.87	5	310	< 0.5	< 2	1.37	< 0.5	16	81	59	2.56	< 10	< 1	0.80	< 10	0.80
465954	205	294	90	-----	0.2	0.31	15	10	< 0.5	8	0.03	< 0.5	1	102	14	0.63	< 10	< 1	0.11	< 10	0.07
465955	205	294	30	-----	< 0.2	2.26	15	200	< 0.5	< 2	0.44	< 0.5	8	135	80	3.31	< 10	< 1	1.17	< 10	0.96
465956	205	294	< 5	-----	0.2	2.31	15	150	< 0.5	2	0.71	0.5	8	134	65	3.48	< 10	< 1	1.15	< 10	1.06
508601	205	294	< 5	-----	< 0.2	1.89	< 5	200	< 0.5	< 2	2.02	< 0.5	11	23	15	3.65	10	< 1	0.16	10	1.37
508602	205	294	< 5	-----	< 0.2	2.79	25	280	< 0.5	< 2	2.86	< 0.5	18	23	13	5.23	10	< 1	0.13	10	2.10

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 : CUDS 5-8
Comments: ATTN: DAVID CAULFIELD

Certificate Date: 07-OCT-91
Invoice No. :I9122569
P.O. Number :ZUE91-01

CERTIFICATE OF ANALYSIS A9122569

SAMPLE DESCRIPTION	PREP CODE		Mn ppm	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
465901	205	294	10	1	< 0.01	5	< 10	878	5	< 1	2	< 0.01	< 10	< 10	< 1	< 10	8
465902	205	294	1620	< 1	< 0.01	1	190	10	< 5	1	352	< 0.01	< 10	< 10	12	10	32
465903	205	294	1190	< 1	0.02	2	940	10	< 5	2	94	0.01	< 10	< 10	46	< 10	76
465904	205	294	680	< 1	0.04	11	910	4	< 5	5	38	0.02	< 10	< 10	83	< 10	62
465905	205	294	535	1	0.03	9	740	< 2	< 5	6	9	0.24	< 10	< 10	85	< 10	68
465906	205	294	705	16	0.05	12	1190	24	5	13	13	0.26	< 10	< 10	233	< 10	134
465907	205	294	1290	18	0.09	18	680	14	< 5	12	22	0.24	< 10	< 10	90	< 10	178
465908	205	294	1005	3	0.04	7	780	6	< 5	4	13	0.18	< 10	< 10	57	< 10	552
465909	205	294	295	< 1	0.03	2	330	3880	< 5	1	4	0.10	< 10	< 10	26	< 10	142
465910	205	294	20	4	< 0.01	6	< 10	904	355	< 1	1	< 0.01	< 10	< 10	< 1	110	220
465911	205	294	440	95	0.09	27	1550	20	< 5	8	42	0.16	< 10	< 10	124	< 10	52
465912	205	294	195	97	0.01	12	110	156	15	1	8	0.02	< 10	< 10	9	< 10	16
465913	205	294	395	84	0.18	32	1300	14	5	5	168	0.21	< 10	< 10	80	< 10	36
465914	205	294	340	196	0.04	5	780	4	< 5	3	47	0.06	< 10	< 10	35	< 10	28
465915	205	294	1065	56	< 0.01	5	90	6	< 5	2	28	< 0.01	< 10	< 10	8	< 10	66
465916	205	294	500	48	0.04	3	1110	10	10	4	79	0.02	< 10	< 10	31	< 10	198
465917	205	294	15	1	< 0.01	1	100	3120	205	1	12	< 0.01	< 10	< 10	1	2910	2580
465918	205	294	350	1	0.06	33	620	16	< 5	5	14	0.12	< 10	< 10	108	< 10	54
465919	205	294	460	1	0.08	40	1600	4	< 5	6	22	0.07	< 10	< 10	135	< 10	74
465920	205	294	415	5	0.03	5	430	4	< 5	1	14	< 0.01	< 10	< 10	8	< 10	30
465921	205	294	540	3	0.02	46	1540	16	< 5	6	10	0.14	< 10	< 10	79	< 10	142
465922	205	294	840	2	0.03	61	740	4	< 5	4	130	< 0.01	< 10	< 10	30	< 10	38
465923	205	294	1040	< 1	0.01	41	1210	14	< 5	5	155	< 0.01	< 10	< 10	26	< 10	54
465924	205	294	920	2	0.05	2	870	6	< 5	5	80	0.14	< 10	< 10	62	< 10	60
465925	205	294	60	2	0.05	1	40	6	< 5	< 1	4	< 0.01	< 10	< 10	2	< 10	6
465926	205	294	345	2	0.05	13	850	< 2	< 5	14	17	0.31	< 10	< 10	175	< 10	88
465927	205	294	90	135	0.03	10	110	2	5	1	12	0.02	< 10	< 10	14	< 10	42
465928	205	294	175	8	0.05	43	340	10	30	5	18	0.07	< 10	< 10	71	< 10	186
465929	205	294	360	1	0.15	26	1270	10	< 5	9	106	0.21	< 10	< 10	184	< 10	96
465930	205	294	530	1	0.03	2	970	28	< 5	4	22	< 0.01	< 10	< 10	43	< 10	84
465931	205	294	730	< 1	0.05	11	950	22	< 5	7	61	< 0.01	< 10	< 10	44	< 10	84
465932	205	294	1090	1	0.03	18	740	10	< 5	5	45	< 0.01	< 10	< 10	16	< 10	72
465951	205	294	325	1	0.05	2	40	12	< 5	< 1	2	< 0.01	< 10	10	3	< 10	8
465952	205	294	65	1	0.04	2	40	8	< 5	< 1	6	< 0.01	< 10	< 10	1	< 10	14
465953	205	294	205	< 1	0.21	32	710	4	< 5	4	246	0.20	< 10	< 10	75	< 10	50
465954	205	294	330	1	0.05	4	20	10	< 5	< 1	4	< 0.01	< 10	10	4	< 10	6
465955	205	294	305	10	0.08	15	680	4	< 5	8	89	0.20	< 10	< 10	104	10	68
465956	205	294	340	4	0.14	26	840	< 2	< 5	7	67	0.20	< 10	< 10	131	< 10	70
508601	205	294	805	< 1	0.03	3	950	10	5	2	89	0.02	< 10	< 10	37	< 10	112
508602	205	294	1200	< 1	0.02	9	1200	2	< 5	6	163	0.02	< 10	< 10	91	< 10	124

CERTIFICATION: B. Caufield

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V6B 1N2

Project : CUDS 5-8
Comments: ATTN: DAVID CAULFIELD

Page Number :2-A
Total Pages :2
Certificate Date: 07-OCT-91
Invoice No. :19122569
P.O. Number :ZUE91-01

CERTIFICATE OF ANALYSIS A9122569

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Au FA oz/T	Ag ppm	Al %	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 %
508603	205	294	< 5	-----	< 0.2	1.09	5	120	< 0.5	< 2	5.51	1.0	12	36	15	3.95	10	< 1	0.22	10	1.[illegible]
508604	205	294	< 5	-----	< 0.2	2.19	10	210	< 0.5	< 2	1.71	1.0	17	22	20	5.77	< 10	< 1	0.28	10	1.
508605	205	294	< 5	-----	< 0.2	3.33	< 5	1080	< 0.5	< 2	1.58	6.0	17	18	34	5.21	< 10	< 1	1.30	10	1.[illegible]
508606	205	294	< 5	-----	< 0.2	0.72	5	140	< 0.5	2	0.45	0.5	5	74	17	1.97	< 10	< 1	0.30	< 10	0.27
508607	205	294	< 5	-----	< 0.2	2.69	20	680	< 0.5	< 2	1.43	< 0.5	17	124	45	3.17	< 10	< 1	1.38	< 10	2.14
508608	205	294	< 5	-----	< 0.2	1.65	20	290	< 0.5	2	1.07	< 0.5	15	71	55	3.10	< 10	< 1	0.43	< 10	1.27
508609	205	294	< 5	-----	< 0.2	1.68	< 5	250	< 0.5	< 2	0.33	0.5	3	69	46	3.07	< 10	< 1	0.77	< 10	0.80
508610	205	294	35	-----	< 0.2	1.80	20	300	< 0.5	< 2	0.20	< 0.5	4	69	26	3.33	< 10	< 1	0.87	< 10	1.09
508611	205	294	< 5	-----	< 0.2	0.63	5	90	< 0.5	< 2	0.09	< 0.5	4	105	24	1.70	< 10	< 1	0.20	< 10	0.23
508612	205	294	< 5	-----	< 0.2	1.79	10	230	< 0.5	< 2	1.04	< 0.5	10	49	49	3.51	< 10	< 1	0.53	< 10	1.18
508613	205	294	30	-----	7.2	0.49	80	60	< 0.5	< 2	6.53	7.5	67	52	119	7.44	10	< 1	0.22	10	2.34
508614	205	294	60	-----	< 0.2	1.45	< 5	190	< 0.5	4	1.16	0.5	10	32	5	2.60	< 10	< 1	0.27	< 10	0.60
508615	205	294	< 5	-----	< 0.2	3.87	5	1420	< 0.5	< 2	4.39	0.5	19	99	29	5.52	20	< 1	0.08	10	3.26
508616	205	294	35	-----	< 0.2	3.54	< 5	250	< 0.5	< 2	2.88	1.0	17	88	15	5.21	10	< 1	0.13	10	2.70
508617	205	294	< 5	-----	< 0.2	2.79	20	420	< 0.5	< 2	0.85	< 0.5	8	111	49	3.12	< 10	< 1	1.26	< 10	1.09
508618	205	294	< 5	-----	< 0.2	0.26	< 5	20	< 0.5	2	0.04	< 0.5	< 1	114	3	0.49	< 10	< 1	0.11	< 10	0.03
508619	205	294	< 5	-----	< 0.2	4.35	15	380	< 0.5	2	1.67	1.0	15	180	114	4.14	< 10	< 1	1.46	< 10	1.60
508620	205	294	< 5	-----	< 0.2	0.17	< 5	10	< 0.5	2	0.03	< 0.5	< 1	109	7	0.36	< 10	< 1	0.11	< 10	0.01
508621	205	294	< 5	-----	< 0.2	1.00	< 5	70	< 0.5	6	0.51	< 0.5	8	57	52	1.83	< 10	< 1	0.34	< 10	0.42
508622	205	294	75	-----	0.2	1.47	10	300	< 0.5	< 2	1.43	< 0.5	8	22	87	3.71	< 10	< 1	0.24	10	0.79
508623	205	294	< 5	-----	< 0.2	1.87	10	140	< 0.5	< 2	0.50	< 0.5	11	12	24	4.64	< 10	< 1	0.17	< 10	1.31
508624	205	294	< 5	-----	< 0.2	2.36	< 5	100	< 0.5	< 2	1.53	0.5	8	18	21	3.77	< 10	< 1	0.16	10	1.4[illegible]
508625	205	294	< 5	-----	< 0.2	1.45	< 5	110	< 0.5	< 2	1.68	< 0.5	8	8	7	3.17	< 10	< 1	0.24	20	0.
508626	205	294	< 5	-----	< 0.2	2.48	10	100	< 0.5	< 2	3.62	< 0.5	12	13	44	4.18	10	< 1	0.15	10	0.[illegible]
508627	205	294	< 5	-----	< 0.2	3.24	< 5	100	< 0.5	4	1.82	0.5	21	104	38	4.18	< 10	< 1	0.02	10	2.95
508628	205	294	< 5	-----	< 0.2	1.50	15	270	< 0.5	< 2	0.40	< 0.5	7	82	21	2.70	< 10	< 1	0.71	< 10	0.77
508629	205	294	< 5	-----	0.2	1.38	< 5	190	< 0.5	2	0.10	< 0.5	4	90	29	2.64	< 10	< 1	0.88	< 10	0.63
508630	205	294	< 5	-----	< 0.2	2.31	10	390	< 0.5	2	0.38	< 0.5	6	64	72	3.22	< 10	< 1	1.36	< 10	1.21
508631	205	294	< 5	-----	< 0.2	1.81	20	130	< 0.5	12	0.10	< 0.5	6	60	160	3.93	< 10	< 1	0.51	< 10	0.85
508632	205	294	< 5	-----	< 0.2	1.88	< 5	290	< 0.5	< 2	0.19	2.0	7	86	88	4.19	< 10	< 1	0.57	< 10	0.92
508633	205	294	< 5	-----	< 0.2	1.21	10	200	< 0.5	< 2	0.10	< 0.5	9	17	27	4.94	< 10	< 1	0.23	< 10	0.41
508634	205	294	< 5	-----	< 0.2	1.53	10	230	< 0.5	< 2	0.81	< 0.5	9	17	2	3.82	< 10	< 1	0.21	10	0.83
508635	205	294	< 5	-----	< 0.2	1.65	25	110	< 0.5	< 2	1.32	< 0.5	11	26	15	6.64	< 10	< 1	0.15	< 10	0.99
508636	205	294	< 5	-----	< 0.2	1.50	30	160	< 0.5	< 2	2.35	< 0.5	10	15	121	3.55	< 10	< 1	0.24	10	1.06

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 : CUDS 5-8
Comments: ATTN: DAVID CAULFIELD

Page Number :2-B
Total Pages :2
Certificate Date: 07-OCT-91
Invoice No. :I9122569
P.O. Number :ZUE91-01

CERTIFICATE OF ANALYSIS A9122569

SAMPLE DESCRIPTION	PREP CODE		Mn ppm	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
508603	205	294	1605	< 1	0.02	1	1100	< 2	< 5	3	160	< 0.01	< 10	< 10	21	< 10	80
508604	205	294	915	< 1	0.05	3	1240	< 2	< 5	5	76	0.09	< 10	< 10	137	< 10	86
508605	205	294	600	1	0.07	4	1190	6	< 5	8	75	0.21	< 10	< 10	182	< 10	140
508606	205	294	415	< 1	0.04	6	440	8	< 5	2	20	0.02	< 10	< 10	38	< 10	56
508607	205	294	670	< 1	0.07	63	1820	4	< 5	6	84	0.21	< 10	< 10	92	< 10	72
508608	205	294	360	< 1	0.07	29	1820	6	< 5	3	70	0.18	< 10	< 10	77	< 10	52
508609	205	294	315	5	0.05	9	750	14	< 5	6	32	0.14	< 10	< 10	97	< 10	56
508610	205	294	390	1	0.04	11	610	2	< 5	7	11	0.17	< 10	< 10	111	< 10	52
508611	205	294	185	< 1	0.05	6	360	8	< 5	1	8	< 0.01	< 10	< 10	21	< 10	24
508612	205	294	495	411	0.10	6	1770	< 2	< 5	8	29	0.21	< 10	< 10	106	< 10	50
508613	205	294	1460	< 1	< 0.01	37	750	28	30	7	358	< 0.01	< 10	< 10	22	< 10	422
508614	205	294	440	< 1	0.03	2	820	< 2	5	1	45	0.01	< 10	< 10	23	< 10	38
508615	205	294	1070	< 1	0.01	40	1070	8	< 5	12	623	< 0.01	< 10	< 10	125	< 10	82
508616	205	294	1035	< 1	0.01	25	1200	8	< 5	9	108	0.01	< 10	< 10	107	< 10	100
508617	205	294	320	2	0.12	14	870	< 2	< 5	7	73	0.21	< 10	< 10	101	< 10	68
508618	205	294	200	< 1	0.04	< 1	40	8	< 5	< 1	4	0.01	< 10	< 10	3	< 10	10
508619	205	294	345	3	0.29	109	1160	4	< 5	10	167	0.21	< 10	< 10	157	< 10	100
508620	205	294	80	4	0.04	4	10	4	< 5	< 1	3	< 0.01	< 10	10	1	< 10	6
508621	205	294	115	3	0.08	55	590	2	< 5	2	34	0.09	< 10	< 10	55	< 10	32
508622	205	294	755	< 1	0.01	4	1210	< 2	< 5	2	54	0.02	< 10	< 10	34	< 10	48
508623	205	294	950	< 1	0.02	3	420	< 2	< 5	2	20	0.10	< 10	< 10	61	< 10	74
508624	205	294	935	3	0.03	1	900	4	< 5	5	87	0.22	< 10	< 10	86	< 10	68
508625	205	294	955	< 1	0.01	3	630	< 2	< 5	3	63	< 0.01	< 10	< 10	21	< 10	74
508626	205	294	765	< 1	0.04	2	1160	6	< 5	4	117	< 0.01	< 10	< 10	52	< 10	80
508627	205	294	870	1	0.05	51	1170	6	5	6	106	0.24	< 10	< 10	116	< 10	72
508628	205	294	395	< 1	0.05	6	460	4	< 5	6	16	0.13	< 10	< 10	79	< 10	46
508629	205	294	615	< 1	0.03	6	470	10	< 5	3	12	0.15	< 10	< 10	60	< 10	52
508630	205	294	360	1	0.07	11	790	6	< 5	6	29	0.24	< 10	< 10	122	< 10	50
508631	205	294	795	< 1	0.02	9	480	10	< 5	3	6	0.07	< 10	< 10	64	< 10	150
508632	205	294	745	1	0.05	11	740	8	< 5	5	18	0.07	< 10	< 10	100	< 10	284
508633	205	294	115	4	0.02	< 1	470	< 2	< 5	3	21	0.09	< 10	< 10	30	< 10	28
508634	205	294	730	< 1	0.03	3	510	4	< 5	3	26	0.06	< 10	< 10	58	< 10	72
508635	205	294	855	1	0.03	2	710	10	5	2	32	0.02	< 10	< 10	32	< 10	132
508636	205	294	855	< 1	0.02	20	780	12	5	5	70	< 0.01	< 10	< 10	33	< 10	68

CERTIFICATION: B. Caufield

Chemex Labs Ltd.

*Analytical Chemists * Geochemists * Registered Assayers*

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: EQUITY ENGINEERING LTD.

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

A9122579

Comments:

CERTIFICATE A9122579

EQUITY ENGINEERING LTD.

Project: CUDS 5-8
P.O. # : ZUE91-01

Samples submitted to our lab in Vancouver, BC.
This report was printed on 10-OCT-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	174	Dry, sieve to -80 mesh
203	24	Dry, sieve to -35 mesh
205	24	Geochem ring to approx 150 mesh
298	198	ICP - AQ Digestion charge

* 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	198	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
922	198	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
921	198	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
923	198	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	198	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	198	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	198	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	198	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	198	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	198	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	198	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	198	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	198	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	198	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	198	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	198	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	198	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	198	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	198	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	198	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	198	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	198	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	198	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	198	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	198	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	198	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
944	198	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	198	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	198	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	198	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	198	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	198	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	198	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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

Project : CUDS 5-8
Comments:

Certificate Date: 10-OCT-91
Invoice No. :I9122579
P.O. Number :ZUE91-01

CERTIFICATE OF ANALYSIS A9122579

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	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
CL100 11+75E	201	298	< 5	< 0.2	0.65	10	40	< 0.5	4	0.08	< 0.5	2	13	6	1.65	< 10	< 1	0.03	< 10	0.16	125
CL100 12+00E	201	298	< 5	< 0.2	2.49	5	100	< 0.5	< 2	0.33	0.5	9	44	19	3.17	< 10	< 1	0.03	< 10	1.00	285
CL100 12+25E	201	298	< 5	< 0.2	2.15	10	240	0.5	< 2	0.69	1.0	6	35	41	3.66	< 10	< 1	0.06	10	0.38	2150
CL100 12+50E	201	298	< 5	< 0.2	3.57	10	70	0.5	< 2	0.11	0.5	8	109	19	6.30	10	< 1	0.01	10	1.31	235
CL100 12+75E	201	298	< 5	< 0.2	0.42	< 5	20	< 0.5	2	0.05	< 0.5	1	13	4	0.82	< 10	< 1	0.04	< 10	0.06	75
CL100 13+00E	201	298	< 5	< 0.2	2.27	25	50	< 0.5	< 2	0.17	< 0.5	9	42	29	6.72	< 10	3	0.01	< 10	0.90	270
CL100 13+25E	201	298	< 5	< 0.2	2.95	5	50	< 0.5	< 2	0.13	0.5	10	62	31	6.63	< 10	1	0.02	< 10	0.89	310
CL100 13+50E	201	298	< 5	< 0.2	2.81	10	470	< 0.5	4	0.60	0.5	13	73	33	4.53	< 10	< 1	0.13	10	1.59	360
CL100 13+75E	201	298	< 5	0.4	3.58	20	60	1.0	4	0.11	1.5	6	49	21	6.55	10	< 1	0.03	10	0.46	360
CL100 14+00E	203	205	< 5	< 0.2	3.16	50	90	< 0.5	< 2	0.18	< 0.5	17	92	41	5.73	< 10	1	0.06	< 10	1.21	835
CL100 14+25E	201	298	< 5	0.2	4.18	20	90	0.5	8	0.10	0.5	9	73	36	5.86	< 10	< 1	0.04	10	1.07	360
CL100 14+50E	201	298	< 5	0.4	1.60	< 5	60	0.5	4	0.19	0.5	4	21	13	1.96	< 10	< 1	0.05	10	0.22	1060
CL100 14+75E	201	298	< 5	0.4	5.45	< 5	110	1.0	< 2	0.16	1.5	11	93	38	4.27	< 10	< 1	0.03	10	0.84	775
CL100 15+00E	201	298	< 5	0.4	3.83	75	130	< 0.5	4	0.21	0.5	13	70	50	7.50	< 10	< 1	0.04	10	1.04	940
CL100 15+25E	203	205	< 5	< 0.2	2.28	10	80	< 0.5	< 2	0.20	0.5	16	152	33	5.16	< 10	< 1	0.05	< 10	1.47	1310
CL100 15+50E	201	298	< 5	< 0.2	1.91	25	80	< 0.5	< 2	0.15	0.5	7	30	28	3.44	< 10	< 1	0.03	< 10	0.44	385
CL100 15+75E	201	298	< 5	< 0.2	6.54	80	210	0.5	< 2	0.26	1.0	21	34	81	5.75	< 10	< 1	0.30	< 10	1.11	1245
CL100 16+00E	201	298	< 5	0.4	4.37	25	170	0.5	< 2	0.29	0.5	12	60	40	6.50	< 10	< 1	0.14	< 10	0.87	435
CL100 16+25E	201	298	< 5	< 0.2	0.71	15	50	< 0.5	2	0.10	< 0.5	1	14	4	0.95	< 10	1	0.04	< 10	0.13	180
CL100 16+50E	201	298	< 5	< 0.2	3.07	< 5	110	< 0.5	< 2	0.24	1.0	6	46	17	5.51	< 10	< 1	0.06	< 10	0.67	665
CL100 16+75E	201	298	< 5	0.2	0.92	< 5	30	< 0.5	6	0.11	0.5	1	17	10	1.50	< 10	1	0.04	< 10	0.09	110
CL100 17+00E	201	298	< 5	< 0.2	3.44	< 5	160	< 0.5	< 2	0.20	1.0	11	93	28	4.81	< 10	< 1	0.14	< 10	1.23	795
CL100 17+25E	201	298	< 5	< 0.2	5.00	5	140	0.5	2	0.22	1.5	17	106	26	6.19	< 10	< 1	0.05	10	1.27	1280
CL100 17+50E	201	298	< 5	< 0.2	0.45	< 5	20	< 0.5	2	0.06	< 0.5	1	13	2	0.50	< 10	< 1	0.02	< 10	0.09	55
CL100 17+75E	201	298	< 5	< 0.2	7.17	25	130	0.5	< 2	0.36	1.0	19	29	82	6.18	< 10	1	0.09	10	1.31	2520
CL100 18+00E	203	205	< 5	0.2	3.21	30	110	0.5	< 2	0.19	< 0.5	13	57	23	4.62	< 10	< 1	0.04	< 10	0.62	385
CL100 18+25E	201	298	< 5	< 0.2	5.54	30	210	< 0.5	10	0.23	< 0.5	24	92	43	5.96	< 10	1	0.10	< 10	1.61	565
CL100 18+50E	201	298	< 5	0.2	0.57	5	30	< 0.5	< 2	0.10	< 0.5	1	16	7	1.20	< 10	2	0.03	< 10	0.10	80
CL100 18+75E	201	298	< 5	< 0.2	2.47	25	250	0.5	< 2	0.51	0.5	8	38	24	4.00	< 10	< 1	0.09	10	0.69	505
CL100 19+00E	201	298	< 5	< 0.2	0.78	< 5	60	< 0.5	10	0.12	< 0.5	2	27	8	1.44	< 10	< 1	0.06	< 10	0.27	85
CL100 19+25E	201	298	< 5	0.6	2.20	10	170	< 0.5	< 2	0.14	1.0	3	39	28	5.13	< 10	< 1	0.13	< 10	0.45	195
CL100 19+50E	201	298	< 5	0.2	2.94	5	300	0.5	< 2	0.66	1.0	11	39	39	3.55	< 10	< 1	0.08	10	0.57	1055
CL100 19+75E	201	298	< 5	< 0.2	1.64	10	50	< 0.5	< 2	0.08	0.5	6	38	18	5.15	< 10	< 1	0.02	< 10	0.56	250
CL100 20+00E	201	298	< 5	0.2	3.77	10	130	0.5	6	0.28	2.0	17	65	45	6.40	< 10	< 1	0.02	10	0.63	515
CL100 20+25E	201	298	< 5	< 0.2	5.41	45	180	1.0	< 2	0.19	0.5	10	57	26	7.92	< 10	2	0.21	10	0.79	235
CL100 20+50E	201	298	< 5	0.2	6.85	75	70	1.0	< 2	0.22	< 0.5	10	60	44	6.05	< 10	< 1	0.04	10	1.07	300
CL100 20+75E	201	298	< 5	0.4	3.50	120	90	0.5	< 2	0.51	0.5	11	47	37	5.44	< 10	< 1	0.03	10	1.26	690
CL100 21+00E	201	298	50	< 0.2	1.78	< 5	70	0.5	2	0.26	0.5	4	37	17	2.82	< 10	1	0.05	< 10	0.36	380
CL100 21+25E	201	298	< 5	< 0.2	2.27	30	80	1.0	2	0.14	0.5	8	40	19	4.41	< 10	1	0.07	10	0.40	490
CL100 21+50E	201	298	10	< 0.2	4.59	50	470	0.5	< 2	0.54	1.0	16	59	103	4.91	< 10	< 1	0.29	10	1.38	2220

CERTIFICATION: B. Caglione

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CERTIFICATE OF ANALYSIS A9122579

SAMPLE	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
CL100 11+75E	201	298	2	0.01	4	210	8	< 5	1	7	0.17	< 10	< 10	102	< 10	22
CL100 12+00E	201	298	< 1	< 0.01	33	670	12	< 5	2	29	0.11	< 10	< 10	74	< 10	44
CL100 12+25E	201	298	3	0.01	15	1210	12	< 5	2	32	0.07	< 10	< 10	81	< 10	78
CL100 12+50E	201	298	2	0.01	26	440	< 2	< 5	5	9	0.28	< 10	< 10	236	< 10	56
CL100 12+75E	201	298	1	0.06	5	210	8	< 5	< 1	3	0.09	< 10	< 10	15	< 10	16
CL100 13+00E	201	298	1	< 0.01	12	370	6	< 5	9	14	0.14	< 10	< 10	241	< 10	48
CL100 13+25E	201	298	2	0.01	16	260	14	< 5	5	8	0.15	< 10	< 10	188	< 10	54
CL100 13+50E	201	298	< 1	0.05	32	1500	10	< 5	5	95	0.32	< 10	< 10	146	< 10	70
CL100 13+75E	201	298	3	0.02	16	390	4	< 5	6	13	0.20	< 10	< 10	170	< 10	58
CL100 14+00E	203	205	2	0.02	35	1610	10	< 5	7	12	0.12	< 10	< 10	151	< 10	136
CL100 14+25E	201	298	< 1	0.01	27	330	4	< 5	9	10	0.20	< 10	< 10	130	< 10	86
CL100 14+50E	201	298	1	0.03	6	1480	10	< 5	1	11	0.09	< 10	< 10	38	< 10	52
CL100 14+75E	201	298	2	0.01	32	810	10	< 5	10	17	0.11	< 10	< 10	92	< 10	98
CL100 15+00E	201	298	4	0.01	33	680	44	5	11	20	0.14	< 10	< 10	157	< 10	124
CL100 15+25E	203	205	2	0.04	34	950	< 2	< 5	6	16	0.09	< 10	< 10	158	< 10	80
CL100 15+50E	201	298	< 1	0.02	12	400	12	< 5	4	11	0.10	< 10	< 10	75	< 10	50
CL100 15+75E	201	298	< 1	0.01	29	1110	18	< 5	11	15	0.14	< 10	< 10	115	< 10	134
CL100 16+00E	201	298	< 1	0.01	19	1000	2	< 5	7	17	0.20	< 10	< 10	174	< 10	88
CL100 16+25E	201	298	< 1	0.01	4	190	10	< 5	1	9	0.12	< 10	< 10	35	< 10	16
CL100 16+50E	201	298	2	0.01	10	890	10	< 5	4	23	0.19	< 10	< 10	145	< 10	52
CL100 16+75E	201	298	1	0.02	4	550	10	< 5	1	10	0.11	< 10	< 10	37	< 10	26
CL100 17+00E	201	298	2	< 0.01	30	1240	< 2	5	7	14	0.12	< 10	< 10	132	< 10	76
CL100 17+25E	201	298	1	0.01	30	960	10	5	8	12	0.21	< 10	< 10	159	< 10	202
CL100 17+50E	201	298	1	0.01	2	150	< 2	< 5	< 1	8	0.06	< 10	< 10	18	< 10	12
CL100 17+75E	201	298	< 1	0.06	35	1260	20	< 5	15	58	0.20	< 10	< 10	88	< 10	202
CL100 18+00E	203	205	2	0.03	20	890	8	< 5	5	15	0.14	< 10	< 10	94	< 10	102
CL100 18+25E	201	298	2	0.02	42	660	20	< 5	9	16	0.22	< 10	< 10	161	< 10	190
CL100 18+50E	201	298	1	0.04	4	220	4	< 5	1	9	0.09	< 10	< 10	26	< 10	24
CL100 18+75E	201	298	2	0.02	11	560	8	< 5	5	36	0.21	< 10	< 10	115	< 10	96
CL100 19+00E	201	298	1	0.04	9	180	2	< 5	1	12	0.12	< 10	< 10	37	< 10	28
CL100 19+25E	201	298	2	0.01	8	590	2	< 5	4	20	0.18	< 10	< 10	120	< 10	56
CL100 19+50E	201	298	2	0.02	20	810	4	< 5	4	37	0.13	< 10	< 10	85	< 10	122
CL100 19+75E	201	298	1	< 0.01	13	190	6	< 5	3	8	0.27	< 10	< 10	244	< 10	58
CL100 20+00E	201	298	1	0.01	30	520	24	< 5	5	31	0.20	< 10	< 10	132	< 10	106
CL100 20+25E	201	298	< 1	0.01	18	890	14	< 5	10	17	0.27	< 10	< 10	173	< 10	156
CL100 20+50E	201	298	2	0.02	25	750	30	< 5	9	18	0.18	< 10	< 10	138	< 10	158
CL100 20+75E	201	298	1	0.02	27	1830	58	< 5	9	24	0.16	< 10	< 10	117	< 10	264
CL100 21+00E	201	298	1	0.01	11	500	10	< 5	2	19	0.11	< 10	< 10	85	< 10	48
CL100 21+25E	201	298	4	0.01	12	530	18	5	4	13	0.15	< 10	< 10	100	< 10	78
CL100 21+50E	201	298	< 1	0.01	61	1280	10	< 5	8	39	0.20	< 10	< 10	129	< 10	264

CERTIFICATION: B. Caplin

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 : CUDS 5-8
Comments:

Certificate Date: 10-OCT-91
Invoice No. :19122579
P.O. Number :ZUE91-01

CERTIFICATE OF ANALYSIS A9122579

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	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
CL100 21+75E	201	298	< 5	< 0.2	1.59	20	70	< 0.5	2	0.14	< 0.5	6	34	15	2.72	< 10	< 1	0.12	< 10	0.56	245
CL100 22+00E	201	298	< 5	< 0.2	1.58	15	630	< 0.5	< 2	0.59	1.0	11	38	34	3.07	< 10	2	0.07	10	0.46	1705
CL100 22+25E	201	298	< 5	< 0.2	1.55	20	50	< 0.5	< 2	0.10	0.5	3	29	13	2.66	< 10	< 1	0.03	10	0.31	120
CL100 22+50E	201	298	< 5	< 0.2	0.98	30	80	< 0.5	< 2	0.13	< 0.5	2	18	12	1.95	< 10	< 1	0.09	< 10	0.16	185
CL100 22+75E	201	298	< 5	0.4	1.47	20	50	< 0.5	< 2	0.25	< 0.5	2	20	14	1.99	< 10	1	0.04	< 10	0.16	90
CL100 23+00E	201	298	< 5	1.0	3.06	25	100	0.5	6	0.21	0.5	5	53	24	2.93	< 10	< 1	0.05	10	0.59	475
CL100 23+25E	201	298	< 5	< 0.2	2.84	20	710	1.0	6	0.57	< 0.5	17	129	29	4.58	< 10	< 1	0.34	10	1.85	1970
CL100 23+50E	201	298	< 5	< 0.2	4.77	20	250	< 0.5	< 2	0.16	0.5	20	178	65	5.40	< 10	1	0.24	< 10	2.02	530
CL100 23+75E	201	298	< 5	< 0.2	2.56	15	200	< 0.5	< 2	0.14	0.5	9	91	36	4.24	< 10	< 1	0.10	< 10	1.17	285
CL100 24+00E	201	298	< 5	< 0.2	1.71	5	100	< 0.5	2	0.24	< 0.5	8	48	16	3.69	< 10	1	0.08	< 10	0.71	1415
CL100 24+25E	203	205	< 5	< 0.2	2.13	20	90	0.5	< 2	0.21	1.0	8	90	15	2.82	< 10	< 1	0.08	< 10	0.96	235
CL100 24+50E	201	298	< 5	< 0.2	1.00	25	40	< 0.5	4	0.14	< 0.5	2	32	7	1.40	< 10	2	0.03	< 10	0.27	80
CL100 24+75E	201	298	< 5	< 0.2	2.21	85	160	< 0.5	< 2	0.32	0.5	5	69	19	4.33	< 10	< 1	0.07	< 10	0.61	280
CL100 25+00E	201	298	< 5	< 0.2	2.39	15	80	0.5	< 2	0.29	0.5	5	38	19	4.01	10	4	0.12	10	0.72	390
CL100 25+25E	201	298	< 5	< 0.2	2.30	10	70	0.5	< 2	0.28	0.5	6	36	25	4.87	< 10	< 1	0.08	10	0.48	250
CL100 25+50E	201	298	< 5	< 0.2	1.08	5	30	< 0.5	2	0.19	< 0.5	4	22	8	1.90	< 10	1	0.04	< 10	0.29	515
CL100 25+75E	201	298	< 5	0.2	2.29	5	390	0.5	< 2	1.06	3.0	10	42	44	3.42	< 10	< 1	0.08	20	0.68	3600
CL100 26+00E	201	298	< 5	< 0.2	0.80	10	40	< 0.5	2	0.12	0.5	5	27	14	2.54	< 10	< 1	0.02	< 10	0.20	140
CL100 26+25E	201	298	< 5	< 0.2	1.88	35	60	< 0.5	4	0.15	< 0.5	8	40	17	3.13	< 10	3	0.02	< 10	0.61	415
CL100 26+50E	201	298	< 5	< 0.2	4.08	< 5	50	< 0.5	< 2	0.15	1.0	17	81	43	6.27	< 10	< 1	0.03	< 10	2.14	345
CL100 26+75E	201	298	< 5	0.8	0.75	< 5	40	< 0.5	< 2	0.11	< 0.5	2	14	8	0.83	< 10	< 1	0.03	< 10	0.09	80
CL100 27+00E	201	298	< 5	0.4	0.64	10	20	< 0.5	6	0.07	< 0.5	< 1	17	6	1.41	< 10	< 1	0.05	< 10	0.09	80
CL100 27+25E	201	298	< 5	< 0.2	1.51	< 5	130	< 0.5	2	0.25	< 0.5	6	74	7	1.72	< 10	< 1	0.31	< 10	0.76	145
CL100 27+50E	201	298	< 5	0.4	3.54	10	110	0.5	< 2	0.22	0.5	7	42	45	4.59	< 10	< 1	0.13	< 10	1.04	355
CL100 27+75E	201	298	120	1.0	0.68	< 5	20	< 0.5	< 2	0.09	< 0.5	1	15	8	0.93	< 10	< 1	0.04	< 10	0.08	35
CL100 28+00E	201	298	< 5	0.2	0.50	5	30	< 0.5	< 2	0.11	< 0.5	1	15	6	0.76	< 10	< 1	0.04	< 10	0.07	50
CL100 28+25E	201	298	< 5	0.2	0.51	< 5	20	< 0.5	4	0.14	< 0.5	< 1	14	4	0.57	< 10	< 1	0.03	< 10	0.05	55
CL100 28+50E	201	298	< 5	1.6	1.87	20	60	1.0	2	0.29	< 0.5	2	20	10	2.53	10	1	0.03	10	0.11	335
CL100 28+75E	201	298	< 5	0.6	0.65	< 5	30	< 0.5	2	0.07	< 0.5	< 1	17	7	1.21	< 10	< 1	0.05	< 10	0.07	80
CL100 29+00E	201	298	< 5	0.4	1.68	10	80	0.5	< 2	0.18	< 0.5	4	40	12	2.87	< 10	< 1	0.05	10	0.37	295
CL180 0+00E	201	298	< 5	0.2	2.78	5	120	< 0.5	< 2	0.16	0.5	9	41	85	4.82	< 10	< 1	0.36	< 10	1.11	345
CL180 0+25E	201	298	< 5	< 0.2	2.60	30	130	0.5	< 2	0.10	0.5	5	44	36	4.03	< 10	< 1	0.32	< 10	0.69	240
CL180 0+50E	201	298	< 5	0.2	2.24	5	90	< 0.5	6	0.18	0.5	5	61	34	3.64	< 10	< 1	0.31	< 10	0.82	265
CL180 0+75E	201	298	< 5	0.4	1.62	30	50	< 0.5	< 2	0.13	< 0.5	3	31	25	2.39	< 10	< 1	0.14	< 10	0.40	210
CL180 1+00E	201	298	< 5	0.2	1.20	< 5	50	< 0.5	< 2	0.11	< 0.5	3	23	12	2.65	< 10	< 1	0.09	< 10	0.20	130
CL180 1+25E	201	298	< 5	< 0.2	0.84	5	80	< 0.5	< 2	0.12	< 0.5	3	18	14	1.92	< 10	< 1	0.18	< 10	0.25	100
CL180 1+50E	201	298	< 5	0.2	2.76	10	150	1.0	2	0.22	< 0.5	6	16	20	4.14	< 10	< 1	0.39	10	0.64	270
CL180 1+75E	201	298	< 5	< 0.2	1.87	5	170	< 0.5	< 2	0.32	0.5	7	24	35	4.00	< 10	< 1	0.10	< 10	0.51	230
CL180 2+00E	201	298	< 5	1.2	0.53	5	20	< 0.5	< 2	0.13	< 0.5	1	15	7	0.97	< 10	< 1	0.06	< 10	0.08	85
CL180 2+25E	201	298	< 5	0.2	1.87	< 5	170	< 0.5	< 2	0.09	< 0.5	8	144	14	2.42	< 10	< 1	0.36	< 10	1.22	135

CERTIFICATION: B. Caplin

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 : CUDS 5-8
Comments:

Certificate Date: 10-OCT-91
Invoice No. :19122579
P.O. Number :ZUE91-01

CERTIFICATE OF ANALYSIS A9122579

SAMPLE	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
CL100 21+75E	201	298	2	0.02	11	550	4	< 5	5	13	0.15	< 10	< 10	100	< 10	42
CL100 22+00E	201	298	2	0.02	15	760	2	5	2	34	0.12	< 10	< 10	85	< 10	84
CL100 22+25E	201	298	2	0.01	11	370	16	< 5	2	9	0.12	< 10	< 10	73	< 10	30
CL100 22+50E	201	298	2	0.02	5	470	< 2	< 5	1	11	0.08	< 10	< 10	38	< 10	30
CL100 22+75E	201	298	1	0.02	4	550	6	< 5	1	14	0.14	< 10	< 10	51	< 10	32
CL100 23+00E	201	298	2	0.01	10	1030	4	< 5	2	14	0.11	< 10	< 10	68	< 10	54
CL100 23+25E	201	298	2	0.04	78	1570	10	< 5	4	86	0.41	< 10	< 10	124	< 10	118
CL100 23+50E	201	298	1	0.01	61	1840	< 2	< 5	9	10	0.20	< 10	< 10	162	< 10	114
CL100 23+75E	201	298	1	0.01	33	710	4	< 5	5	12	0.19	< 10	< 10	113	< 10	60
CL100 24+00E	201	298	1	0.01	17	980	< 2	< 5	2	13	0.09	< 10	< 10	105	< 10	72
CL100 24+25E	203	205	3	0.03	23	660	6	< 5	2	14	0.11	< 10	< 10	72	< 10	48
CL100 24+50E	201	298	2	0.02	8	300	10	< 5	1	9	0.09	< 10	< 10	33	< 10	22
CL100 24+75E	201	298	3	0.01	18	620	8	< 5	4	22	0.20	< 10	< 10	143	< 10	58
CL100 25+00E	201	298	1	0.01	6	1040	4	< 5	5	13	0.23	< 10	< 10	135	< 10	58
CL100 25+25E	201	298	2	0.01	11	770	4	< 5	3	25	0.13	< 10	< 10	91	< 10	54
CL100 25+50E	201	298	1	0.02	6	950	6	< 5	1	15	0.10	< 10	< 10	45	< 10	20
CL100 25+75E	201	298	4	0.01	24	1680	8	< 5	3	85	0.05	< 10	< 10	65	< 10	156
CL100 26+00E	201	298	2	0.01	10	240	8	< 5	1	10	0.16	< 10	< 10	115	< 10	46
CL100 26+25E	201	298	1	0.01	30	620	8	< 5	2	12	0.12	< 10	< 10	70	< 10	42
CL100 26+50E	201	298	2	0.01	62	260	< 2	< 5	8	10	0.36	< 10	< 10	205	< 10	66
CL100 26+75E	201	298	2	0.03	4	190	6	< 5	1	13	0.10	< 10	< 10	27	< 10	20
CL100 27+00E	201	298	3	0.01	3	520	6	< 5	1	8	0.07	< 10	< 10	35	< 10	16
CL100 27+25E	201	298	< 1	0.04	23	350	4	< 5	2	26	0.21	< 10	< 10	60	< 10	34
CL100 27+50E	201	298	3	0.02	15	800	14	< 5	7	18	0.24	< 10	< 10	133	< 10	84
CL100 27+75E	201	298	1	0.01	2	700	4	< 5	< 1	9	0.04	< 10	< 10	21	< 10	18
CL100 28+00E	201	298	1	0.03	3	400	8	< 5	< 1	11	0.10	< 10	< 10	21	< 10	20
CL100 28+25E	201	298	1	0.02	2	240	8	< 5	< 1	21	0.13	< 10	< 10	28	< 10	16
CL100 28+50E	201	298	4	0.03	6	1150	6	< 5	1	13	0.13	< 10	< 10	39	< 10	24
CL100 28+75E	201	298	1	0.02	4	500	8	< 5	< 1	8	0.09	< 10	< 10	28	< 10	24
CL100 29+00E	201	298	3	0.04	11	780	< 2	< 5	1	15	0.14	< 10	< 10	74	< 10	48
CL180 0+00E	201	298	6	0.01	11	710	4	< 5	6	10	0.27	< 10	< 10	153	< 10	78
CL180 0+25E	201	298	3	0.02	7	370	6	< 5	7	13	0.28	< 10	< 10	128	< 10	116
CL180 0+50E	201	298	7	0.02	10	480	6	< 5	6	15	0.27	< 10	< 10	190	< 10	100
CL180 0+75E	201	298	3	0.05	6	540	20	< 5	4	24	0.17	< 10	< 10	79	< 10	64
CL180 1+00E	201	298	3	0.03	4	310	8	< 5	2	8	0.21	< 10	< 10	74	< 10	36
CL180 1+25E	201	298	3	0.01	5	330	20	< 5	1	8	0.27	< 10	< 10	106	< 10	24
CL180 1+50E	201	298	4	0.05	4	730	< 2	< 5	4	8	0.29	< 10	< 10	106	< 10	84
CL180 1+75E	201	298	3	0.01	6	570	4	< 5	3	20	0.29	< 10	< 10	127	< 10	62
CL180 2+00E	201	298	1	0.04	5	470	4	< 5	< 1	10	0.13	< 10	< 10	26	< 10	22
CL180 2+25E	201	298	2	0.02	33	450	< 2	< 5	1	6	0.23	< 10	< 10	71	< 10	48

CERTIFICATION: B. Caplin

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Page Number :3-A
Total Pages :5
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CERTIFICATE OF ANALYSIS A9122579

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	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
CL180 2+50E	201	298	< 5	< 0.2	2.97	10	150	0.5	< 2	0.14	< 0.5	9	54	38	4.04	10	1	0.35	10	0.84	345
CL180 2+75E	201	298	< 5	< 0.2	2.85	< 5	80	0.5	< 2	0.15	< 0.5	7	44	27	3.31	< 10	< 1	0.17	< 10	0.54	560
CL180 3+00E	201	298	< 5	< 0.2	5.65	30	50	< 0.5	< 2	0.39	0.5	15	229	101	3.90	< 10	< 1	0.11	< 10	1.57	300
CL180 3+25E	201	298	< 5	< 0.2	2.95	20	110	0.5	< 2	0.16	< 0.5	15	62	58	3.94	< 10	< 1	0.12	10	0.85	1010
CL180 3+50E	201	298	< 5	< 0.2	0.66	5	40	< 0.5	< 2	0.04	< 0.5	2	33	21	1.80	< 10	< 1	0.17	< 10	0.31	90
CL230 0+00E	201	298	50	0.2	2.77	20	390	0.5	< 2	0.64	1.0	18	39	154	5.19	10	< 1	0.05	40	0.98	3760
CL230 0+25E	201	298	25	< 0.2	1.65	10	130	< 0.5	< 2	0.60	< 0.5	10	35	33	2.37	< 10	< 1	0.04	< 10	0.78	2770
CL230 0+50E	203	205	15	< 0.2	2.34	5	160	< 0.5	< 2	0.40	< 0.5	13	64	55	4.48	< 10	< 1	0.10	10	0.71	1885
CL230 0+75E	201	298	35	0.2	3.47	30	240	0.5	< 2	0.53	1.0	15	47	90	5.71	< 10	< 1	0.04	20	0.95	4090
CL230 1+00E	203	205	30	0.2	1.63	15	580	0.5	< 2	0.72	0.5	41	31	103	7.19	< 10	< 1	0.19	40	0.30	4870
CL230 1+25E	203	205	< 5	0.4	0.76	< 5	80	< 0.5	< 2	0.21	< 0.5	2	69	11	1.08	< 10	2	0.09	10	0.10	135
CL230 1+50E	203	205	< 5	0.6	3.09	20	150	1.0	< 2	0.42	1.0	13	54	68	4.26	< 10	< 1	0.09	10	0.57	2940
CL230 1+75E	201	298	< 5	0.2	0.80	< 5	50	< 0.5	< 2	0.21	0.5	4	17	33	1.66	< 10	3	0.04	10	0.21	350
CL230 2+00E	201	298	< 5	< 0.2	1.58	10	50	< 0.5	8	0.23	0.5	7	19	32	2.65	< 10	< 1	0.07	10	0.55	465
CL230 2+25E	201	298	< 5	< 0.2	2.88	30	140	1.0	< 2	1.12	0.5	11	26	79	4.23	10	< 1	0.04	20	0.61	3760
CL230 2+50E	201	298	10	< 0.2	2.21	< 5	100	< 0.5	2	0.60	1.0	6	29	77	4.06	< 10	< 1	0.05	10	0.45	635
CL230 2+75E	201	298	< 5	< 0.2	1.94	30	90	0.5	6	0.19	< 0.5	4	41	23	3.31	< 10	< 1	0.04	10	0.43	385
CL230 3+00E	201	298	< 5	0.2	2.75	75	200	1.5	8	0.54	0.5	8	42	48	3.08	< 10	< 1	0.05	20	0.50	980
CL230 3+25E	201	298	< 5	< 0.2	1.48	15	60	0.5	6	0.14	< 0.5	5	36	13	2.03	< 10	< 1	0.04	< 10	0.32	430
CL230 3+50E	201	298	< 5	< 0.2	2.15	80	90	0.5	< 2	0.14	< 0.5	7	46	28	4.22	< 10	< 1	0.03	10	0.47	355
CL230 3+75E	201	298	< 5	0.4	3.10	40	90	0.5	8	0.15	< 0.5	4	49	24	5.00	< 10	< 1	0.03	10	0.25	185
CL230 4+00E	203	205	< 5	< 0.2	2.68	65	290	0.5	6	0.94	1.0	17	83	58	4.21	< 10	< 1	0.14	10	1.13	2060
CL230 4+25E	201	298	5	< 0.2	4.47	55	70	0.5	2	0.12	0.5	3	53	22	5.81	< 10	3	0.02	10	0.20	140
CL230 4+50E	201	298	< 5	0.2	0.55	5	20	< 0.5	< 2	0.05	< 0.5	1	14	5	1.04	< 10	1	0.04	< 10	0.05	65
CL230 4+75E	201	298	15	< 0.2	1.51	< 5	40	< 0.5	< 2	0.12	1.0	3	26	13	4.50	< 10	< 1	0.03	< 10	0.09	85
CL230 5+00E	201	298	< 5	< 0.2	1.39	15	90	< 0.5	2	0.10	< 0.5	4	37	18	2.98	< 10	2	0.03	< 10	0.39	230
CL230 5+25E	201	298	< 5	< 0.2	2.84	35	70	0.5	4	0.16	< 0.5	4	37	18	3.44	< 10	2	0.04	< 10	0.23	200
CL230 5+50E	201	298	< 5	< 0.2	0.52	< 5	10	< 0.5	2	0.07	< 0.5	1	12	4	0.78	< 10	2	0.04	< 10	0.03	60
CL230 5+75E	201	298	< 5	< 0.2	1.19	15	50	0.5	2	0.09	0.5	4	21	10	2.71	< 10	< 1	0.03	10	0.05	95
CL230 6+00E	201	298	< 5	< 0.2	1.68	15	60	< 0.5	< 2	0.08	0.5	3	27	12	5.28	< 10	< 1	0.03	10	0.12	215
CL230 6+25E	201	298	< 5	< 0.2	1.80	30	60	< 0.5	4	0.16	< 0.5	4	33	24	5.10	< 10	< 1	0.04	10	0.32	370
CL230 6+50E	201	298	< 5	< 0.2	0.65	15	20	< 0.5	< 2	0.07	< 0.5	1	15	5	1.10	< 10	< 1	0.03	< 10	0.07	110
CL230 6+75E	201	298	< 5	< 0.2	0.73	5	80	< 0.5	4	0.14	< 0.5	3	16	12	1.42	< 10	< 1	0.03	< 10	0.14	185
CL230 7+00E	201	298	< 5	< 0.2	0.44	< 5	20	< 0.5	2	0.11	< 0.5	2	11	5	0.82	< 10	1	0.04	< 10	0.05	70
CL230 7+25E	201	298	< 5	< 0.2	1.45	5	40	< 0.5	4	0.10	< 0.5	4	17	9	2.13	10	< 1	0.02	10	0.15	150
CL230 7+50E	203	205	< 5	< 0.2	1.21	5	80	< 0.5	8	0.18	0.5	4	32	19	2.61	< 10	< 1	0.05	10	0.20	395
CL230 7+75E	201	298	< 5	< 0.2	0.87	10	40	< 0.5	< 2	0.17	< 0.5	4	18	8	2.38	< 10	< 1	0.03	10	0.12	220
CL230 8+00E	201	298	< 5	0.2	0.42	5	10	< 0.5	4	0.05	< 0.5	1	11	4	0.74	< 10	1	0.03	< 10	0.04	60
CL230 8+25E	201	298	< 5	< 0.2	0.40	< 5	10	< 0.5	2	0.07	< 0.5	1	12	3	0.52	< 10	< 1	0.04	< 10	0.03	40
CL230 8+50E	201	298	< 5	< 0.2	0.30	5	10	< 0.5	< 2	0.07	< 0.5	1	11	2	0.43	< 10	< 1	0.04	< 10	0.02	45

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 : CUDS 5-8
Comments:

Certificate Date: 10-OCT-91
Invoice No. :I9122579
P.O. Number :ZUE91-01

CERTIFICATE OF ANALYSIS A9122579

SAMPLE	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
CL180 2+50E	201	298	3	0.02	14	520	6	< 5	9	15	0.36	< 10	< 10	143	< 10	84
CL180 2+75E	201	298	4	< 0.01	9	520	6	< 5	6	17	0.29	< 10	< 10	108	< 10	80
CL180 3+00E	201	298	1	0.02	89	1040	< 2	< 5	4	40	0.25	< 10	< 10	118	< 10	74
CL180 3+25E	201	298	5	0.01	19	900	6	< 5	5	17	0.20	< 10	< 10	120	< 10	108
CL180 3+50E	201	298	5	< 0.01	3	440	4	< 5	3	6	0.17	< 10	< 10	130	< 10	24
CL230 0+00E	201	298	3	< 0.01	18	1210	40	5	11	27	0.03	< 10	< 10	80	< 10	100
CL230 0+25E	201	298	1	0.01	15	1410	8	< 5	1	51	0.03	< 10	< 10	54	< 10	48
CL230 0+50E	203	205	3	0.04	14	1110	10	< 5	6	44	0.04	< 10	< 10	83	< 10	78
CL230 0+75E	201	298	2	0.01	19	1850	26	< 5	8	71	0.04	< 10	< 10	97	< 10	104
CL230 1+00E	203	205	1	0.01	18	1200	28	5	16	30	0.02	< 10	< 10	80	< 10	208
CL230 1+25E	203	205	< 1	0.02	5	1030	4	< 5	1	27	0.04	< 10	< 10	31	< 10	38
CL230 1+50E	203	205	1	0.06	16	1330	8	< 5	3	44	0.06	< 10	< 10	69	< 10	76
CL230 1+75E	201	298	1	0.02	3	1170	4	< 5	< 1	13	0.02	< 10	< 10	31	< 10	32
CL230 2+00E	201	298	2	0.01	7	640	10	< 5	2	54	0.08	< 10	< 10	80	< 10	52
CL230 2+25E	201	298	1	0.02	9	2250	14	< 5	2	44	0.03	< 10	< 10	63	< 10	76
CL230 2+50E	201	298	2	0.01	7	1350	14	< 5	2	78	0.04	< 10	< 10	89	< 10	60
CL230 2+75E	201	298	2	0.04	12	390	10	< 5	4	26	0.15	< 10	< 10	73	< 10	58
CL230 3+00E	201	298	1	0.03	18	870	8	< 5	4	37	0.09	< 10	< 10	62	< 10	110
CL230 3+25E	201	298	2	0.02	10	650	16	5	2	25	0.15	< 10	< 10	73	< 10	32
CL230 3+50E	201	298	3	0.01	13	720	20	< 5	4	17	0.11	< 10	< 10	101	< 10	62
CL230 3+75E	201	298	1	0.01	9	880	4	< 5	3	24	0.15	< 10	< 10	101	< 10	36
CL230 4+00E	203	205	1	0.03	28	1310	14	< 5	7	56	0.12	< 10	< 10	103	< 10	136
CL230 4+25E	201	298	3	< 0.01	6	340	14	< 5	6	23	0.21	< 10	< 10	155	< 10	36
CL230 4+50E	201	298	1	0.06	4	310	4	< 5	< 1	6	0.10	< 10	< 10	21	< 10	22
CL230 4+75E	201	298	2	< 0.01	5	300	4	< 5	2	13	0.16	< 10	< 10	120	< 10	24
CL230 5+00E	201	298	1	0.01	10	350	10	< 5	2	17	0.07	< 10	< 10	81	< 10	34
CL230 5+25E	201	298	2	0.01	7	590	16	< 5	3	20	0.13	< 10	< 10	94	< 10	48
CL230 5+50E	201	298	1	0.05	< 1	440	6	< 5	< 1	9	0.12	< 10	< 10	21	< 10	22
CL230 5+75E	201	298	2	0.03	4	200	6	< 5	1	11	0.12	< 10	< 10	51	< 10	22
CL230 6+00E	201	298	5	0.01	4	270	< 2	< 5	2	15	0.11	< 10	< 10	122	< 10	42
CL230 6+25E	201	298	3	0.01	9	900	12	< 5	2	17	0.10	< 10	< 10	107	< 10	52
CL230 6+50E	201	298	1	0.02	3	340	6	< 5	< 1	11	0.08	< 10	< 10	38	< 10	22
CL230 6+75E	201	298	< 1	0.03	4	710	6	< 5	< 1	11	0.06	< 10	< 10	30	< 10	28
CL230 7+00E	201	298	< 1	0.05	1	410	6	< 5	< 1	7	0.09	< 10	< 10	13	< 10	20
CL230 7+25E	201	298	1	0.01	3	300	14	< 5	1	16	0.06	< 10	< 10	60	< 10	26
CL230 7+50E	203	205	1	0.04	5	720	10	< 5	1	19	0.04	< 10	< 10	52	< 10	42
CL230 7+75E	201	298	1	0.02	4	390	4	< 5	1	16	0.08	< 10	< 10	64	< 10	36
CL230 8+00E	201	298	< 1	0.04	3	200	6	< 5	< 1	7	0.08	< 10	< 10	17	< 10	18
CL230 8+25E	201	298	1	0.03	1	530	2	< 5	< 1	7	0.07	< 10	< 10	13	< 10	14
CL230 8+50E	201	298	< 1	0.04	1	160	4	< 5	< 1	9	0.08	< 10	< 10	13	< 10	14

CERTIFICATION: B. Caughlin

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British Columbia, Canada V7J 2C1
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To: EQUITY ENGINEERING LTD.

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

Project : CUDS 5-8
Comments:

Certificate Date: 10-OCT-91
Invoice No. :19122579
P.O. Number :ZUE91-01

CERTIFICATE OF ANALYSIS A9122579

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	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
CL230 8+75E	201	298	< 5	< 0.2	0.92	5	50	< 0.5	4	0.11	0.5	< 1	21	13	1.69	< 10	< 1	0.02	10	0.05	75
CL230 9+00E	201	298	< 5	< 0.2	1.63	25	50	< 0.5	< 2	0.09	0.5	3	29	17	3.95	10	< 1	0.05	10	0.13	160
CL230 9+25E	201	298	< 5	< 0.2	0.72	10	30	< 0.5	6	0.08	< 0.5	1	21	9	1.62	< 10	< 1	0.03	< 10	0.05	85
CL230 9+50E	201	298	< 5	< 0.2	0.27	5	10	< 0.5	< 2	0.03	< 0.5	< 1	11	3	0.62	< 10	2	0.03	< 10	0.02	45
CL230 9+75E	201	298	< 5	< 0.2	0.42	5	100	< 0.5	4	0.10	< 0.5	1	16	4	0.76	< 10	< 1	0.03	< 10	0.03	25
CL230 10+00E	201	298	< 5	< 0.2	0.55	< 5	20	< 0.5	< 2	0.06	< 0.5	2	15	6	0.77	< 10	1	0.02	< 10	0.04	45
CL230 10+25E	201	298	< 5	< 0.2	3.19	25	160	1.0	< 2	0.61	1.0	9	38	45	3.71	< 10	< 1	0.02	10	0.22	1520
CL230 10+50E	201	298	< 5	< 0.2	1.37	35	60	0.5	4	0.13	< 0.5	3	21	13	2.52	< 10	< 1	0.03	10	0.14	525
CL230 10+75E	201	298	< 5	< 0.2	1.85	15	50	< 0.5	< 2	0.06	1.0	1	25	17	4.01	< 10	< 1	0.02	10	0.10	105
CL230 11+00E	201	298	< 5	< 0.2	0.62	5	70	< 0.5	6	0.10	< 0.5	3	14	3	1.17	< 10	2	0.03	< 10	0.11	120
CL230 11+25E	201	298	< 5	0.2	1.02	10	120	< 0.5	2	0.08	< 0.5	1	15	4	1.09	< 10	< 1	0.02	< 10	0.06	45
CL230 11+50E	201	298	< 5	0.4	0.86	< 5	40	< 0.5	< 2	0.08	< 0.5	2	13	5	1.15	< 10	< 1	0.03	< 10	0.06	65
CL230 11+75E	201	298	< 5	< 0.2	1.33	35	50	< 0.5	4	0.07	< 0.5	2	28	12	2.82	< 10	< 1	0.02	10	0.10	80
CL230 12+00E	201	298	< 5	0.2	2.85	5	140	1.5	2	0.33	1.5	6	25	22	2.77	< 10	< 1	0.03	20	0.17	635
CL230 12+25E	201	298	< 5	< 0.2	1.55	15	40	< 0.5	2	0.13	0.5	7	32	7	3.59	< 10	< 1	0.02	10	0.35	515
CL230 12+50E	201	298	< 5	0.2	2.20	45	90	0.5	4	0.18	0.5	3	35	22	6.05	< 10	2	0.04	10	0.25	230
CL230 12+75E	201	298	< 5	< 0.2	2.56	10	40	0.5	< 2	0.12	1.0	1	32	14	4.93	< 10	< 1	0.02	10	0.08	65
CL230 13+00E	201	298	< 5	< 0.2	1.60	35	100	< 0.5	2	0.15	< 0.5	2	30	18	4.21	10	1	0.03	10	0.11	115
CL230 13+25E	201	298	< 5	0.4	2.38	5	90	0.5	2	0.09	0.5	2	25	20	2.92	< 10	< 1	0.04	20	0.17	120
CL230 13+50E	201	298	< 5	< 0.2	0.86	5	10	< 0.5	6	0.05	< 0.5	< 1	14	5	1.84	< 10	< 1	0.03	10	0.04	45
CL230 13+75E	201	298	< 5	0.6	4.47	15	40	0.5	2	0.08	1.5	3	52	29	8.75	< 10	2	0.03	10	0.11	175
CL230 14+00E	201	298	< 5	0.8	1.50	5	< 10	< 0.5	< 2	0.06	< 0.5	4	15	5	2.25	10	< 1	0.04	10	0.03	60
CL230 14+25E	201	298	< 5	< 0.2	3.59	30	190	0.5	4	0.18	< 0.5	6	34	24	3.45	< 10	< 1	0.04	10	0.29	570
CL230 14+50E	201	298	< 5	< 0.2	0.55	< 5	30	< 0.5	6	0.08	< 0.5	< 1	18	4	1.04	< 10	< 1	0.04	< 10	0.06	75
CL230 14+75E	201	298	< 5	< 0.2	1.38	10	30	< 0.5	< 2	0.08	< 0.5	3	16	6	1.29	10	< 1	0.02	< 10	0.08	50
CL230 15+00E	201	298	< 5	0.2	0.84	5	30	< 0.5	2	0.05	< 0.5	< 1	14	6	1.75	< 10	1	0.04	10	0.05	120
CL230 15+25E	201	298	< 5	< 0.2	0.81	5	50	< 0.5	2	0.10	0.5	7	25	13	2.90	< 10	< 1	0.04	< 10	0.26	220
CL230 15+50E	201	298	80	< 0.2	3.97	105	90	< 0.5	< 2	0.14	< 0.5	7	67	39	7.26	< 10	< 1	0.04	10	0.41	475
CL230 15+75E	201	298	< 5	< 0.2	2.03	25	20	< 0.5	6	0.04	< 0.5	2	14	7	2.59	< 10	< 1	0.03	< 10	0.11	60
CL230 16+00E	201	298	< 5	0.8	4.15	45	420	1.5	4	0.82	< 0.5	8	24	53	2.52	10	2	0.04	30	0.13	1035
CL230 16+25E	201	298	< 5	0.2	2.25	20	160	1.0	< 2	0.31	< 0.5	5	25	20	2.60	< 10	< 1	0.07	10	0.23	470
CL230 16+50E	201	298	< 5	< 0.2	1.40	10	50	< 0.5	2	0.05	< 0.5	2	22	12	3.39	< 10	< 1	0.02	10	0.06	95
CL230 16+75E	201	298	< 5	< 0.2	3.76	< 5	50	0.5	< 2	0.10	1.0	3	43	23	5.76	< 10	1	0.03	10	0.21	175
CL230 17+00E	201	298	< 5	0.6	1.14	20	30	< 0.5	4	0.07	< 0.5	1	16	13	2.68	10	< 1	0.04	10	0.05	70
CL230 17+25E	201	298	< 5	0.4	1.75	10	80	1.0	2	0.11	< 0.5	2	14	18	1.73	< 10	< 1	0.03	10	0.05	115
CL230 17+50E	201	298	< 5	0.2	0.77	< 5	20	< 0.5	4	0.02	0.5	1	12	5	1.30	< 10	2	0.04	< 10	0.03	55
CL230 17+75E	201	298	< 5	1.0	2.57	20	120	1.0	< 2	0.05	< 0.5	3	14	39	2.17	< 10	< 1	0.04	10	0.10	370
CL230 18+00E	201	298	< 5	< 0.2	3.56	5	80	1.0	2	0.18	1.0	7	33	45	5.05	< 10	< 1	0.02	10	0.30	510
CL230 0+25W	203	205	80	0.8	3.68	85	170	0.5	2	0.10	0.5	14	90	87	6.05	< 10	< 1	0.08	10	0.84	575
CL230 0+50W	201	298	15	< 0.2	1.39	20	50	< 0.5	< 2	0.10	< 0.5	5	17	40	2.85	< 10	1	0.04	10	0.31	485

CERTIFICATION: B. Caplin

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CERTIFICATE OF ANALYSIS A9122579

SAMPLE	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
CL230 8+75E	201	298	1	0.01	4	180	2	< 5	1	14	0.11	< 10	< 10	56	< 10	20
CL230 9+00E	201	298	3	< 0.01	3	320	20	5	3	19	0.22	< 10	< 10	173	< 10	26
CL230 9+25E	201	298	1	0.03	5	240	10	< 5	1	9	0.09	< 10	< 10	56	< 10	18
CL230 9+50E	201	298	1	0.04	2	190	4	< 5	< 1	4	0.06	< 10	< 10	14	< 10	14
CL230 9+75E	201	298	< 1	0.01	2	510	4	< 5	< 1	13	0.02	< 10	< 10	18	< 10	10
CL230 10+00E	201	298	1	0.01	1	460	6	< 5	< 1	10	0.05	< 10	< 10	25	< 10	18
CL230 10+25E	201	298	2	0.01	11	1470	2	< 5	2	32	0.04	< 10	< 10	68	< 10	100
CL230 10+50E	201	298	2	0.01	5	570	16	< 5	1	15	0.05	< 10	< 10	70	< 10	40
CL230 10+75E	201	298	3	< 0.01	5	300	16	< 5	2	9	0.09	< 10	< 10	79	< 10	36
CL230 11+00E	201	298	1	0.03	3	460	6	< 5	< 1	23	0.09	< 10	< 10	37	< 10	28
CL230 11+25E	201	298	2	0.02	2	350	4	< 5	1	15	0.11	< 10	< 10	30	< 10	30
CL230 11+50E	201	298	1	0.04	1	570	6	< 5	< 1	10	0.07	< 10	< 10	18	< 10	24
CL230 11+75E	201	298	3	0.01	6	250	12	< 5	1	12	0.24	< 10	< 10	87	< 10	24
CL230 12+00E	201	298	1	0.01	6	980	2	< 5	1	24	0.06	< 10	< 10	59	< 10	92
CL230 12+25E	201	298	2	0.01	7	420	4	< 5	3	22	0.13	< 10	< 10	94	< 10	40
CL230 12+50E	201	298	5	< 0.01	10	550	20	< 5	3	18	0.30	< 10	< 10	185	< 10	56
CL230 12+75E	201	298	3	0.01	3	230	16	< 5	2	13	0.13	< 10	< 10	123	< 10	34
CL230 13+00E	201	298	2	< 0.01	5	200	4	< 5	2	17	0.26	< 10	< 10	209	< 10	22
CL230 13+25E	201	298	3	0.04	6	620	16	< 5	1	9	0.11	< 10	< 10	44	< 10	30
CL230 13+50E	201	298	2	0.02	2	110	12	< 5	1	7	0.14	< 10	< 10	46	< 10	12
CL230 13+75E	201	298	3	< 0.01	7	340	16	< 5	4	11	0.25	< 10	< 10	166	< 10	32
CL230 14+00E	201	298	3	0.06	1	100	10	< 5	1	3	0.16	< 10	< 10	25	< 10	20
CL230 14+25E	201	298	1	0.01	10	560	10	< 5	4	23	0.11	< 10	< 10	90	< 10	56
CL230 14+50E	201	298	1	0.04	1	570	6	< 5	< 1	11	0.07	< 10	< 10	29	< 10	14
CL230 14+75E	201	298	1	< 0.01	3	110	4	< 5	3	26	0.11	< 10	< 10	73	< 10	10
CL230 15+00E	201	298	3	0.05	3	280	10	< 5	< 1	4	0.14	< 10	< 10	28	< 10	20
CL230 15+25E	201	298	2	0.03	7	300	18	< 5	2	11	0.28	< 10	< 10	103	< 10	64
CL230 15+50E	201	298	1	< 0.01	15	490	182	5	6	16	0.11	< 10	< 10	118	< 10	126
CL230 15+75E	201	298	< 1	< 0.01	2	190	10	< 5	8	6	0.02	< 10	< 10	149	< 10	14
CL230 16+00E	201	298	4	0.03	9	1540	< 2	5	2	106	0.05	< 10	< 10	34	< 10	72
CL230 16+25E	201	298	2	0.03	5	760	14	< 5	2	27	0.13	< 10	< 10	62	< 10	56
CL230 16+50E	201	298	1	< 0.01	5	150	12	< 5	2	15	0.09	< 10	< 10	98	< 10	20
CL230 16+75E	201	298	2	0.01	8	320	6	< 5	4	12	0.17	< 10	< 10	139	< 10	42
CL230 17+00E	201	298	3	0.02	3	740	4	< 5	1	8	0.14	< 10	< 10	69	< 10	22
CL230 17+25E	201	298	1	0.04	4	280	8	< 5	1	6	0.11	< 10	< 10	24	< 10	24
CL230 17+50E	201	298	< 1	0.05	3	250	2	< 5	< 1	2	0.11	< 10	< 10	14	< 10	16
CL230 17+75E	201	298	2	0.06	4	440	10	< 5	2	6	0.09	< 10	< 10	21	< 10	28
CL230 18+00E	201	298	2	0.01	8	690	10	< 5	3	15	0.15	< 10	< 10	66	< 10	44
CL230 0+25W	203	205	1	0.04	29	430	28	< 5	5	15	0.05	< 10	< 10	78	< 10	94
CL230 0+50W	201	298	2	0.01	5	1080	12	< 5	< 1	9	0.02	< 10	< 10	50	< 10	40

CERTIFICATION: B. Caplin

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 : CUDS 5-8
Comments:

Certificate Date: 10-OCT-91
Invoice No. : I9122579
P.O. Number : ZUE91-01

CERTIFICATE OF ANALYSIS A9122579

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	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
CL230 0+75W	201	298	< 5	< 0.2	1.99	15	170	< 0.5	2	0.53	1.0	17	73	66	4.80	< 10	< 1	0.04	10	0.95	7480
CL230 1+00W	201	298	< 5	0.2	7.84	50	80	2.0	6	0.21	0.5	19	60	37	5.64	< 10	< 1	0.03	10	0.93	950
CL230 1+25W	203	205	< 5	1.2	4.76	20	140	< 0.5	4	0.19	0.5	15	109	63	6.47	< 10	< 1	0.10	10	1.68	730
CL230 1+50W	201	298	< 5	0.4	2.90	35	230	< 0.5	2	0.79	0.5	19	45	123	5.63	< 10	< 1	0.12	10	1.25	3080
CL230 1+75W	203	205	< 5	0.6	3.47	30	350	< 0.5	4	0.55	0.5	62	129	291	8.37	< 10	< 1	0.35	10	2.36	2610
CL230 2+00W	201	298	< 5	< 0.2	3.26	5	220	< 0.5	< 2	0.17	0.5	9	36	54	4.84	< 10	< 1	0.41	10	1.16	655
CL230 2+25W	201	298	< 5	< 0.2	4.22	10	210	0.5	< 2	0.36	1.0	26	72	111	5.69	< 10	< 1	0.31	< 10	1.81	2040
CL230 2+50W	201	298	< 5	< 0.2	6.02	25	160	0.5	< 2	0.23	1.0	18	79	126	5.16	< 10	< 1	0.24	< 10	1.49	865
CL230 2+75W	203	205	< 5	< 0.2	2.94	25	180	< 0.5	< 2	0.51	0.5	15	74	83	4.54	< 10	3	0.22	< 10	1.17	1360
CL230 3+00W	201	298	15	0.2	0.99	30	100	< 0.5	8	0.46	< 0.5	5	31	23	2.37	< 10	1	0.11	< 10	0.42	200
CL230 3+25W	201	298	< 5	0.4	3.09	30	230	0.5	4	0.27	< 0.5	7	40	29	4.85	< 10	< 1	0.26	10	0.65	230
CL230 3+50W	201	298	< 5	0.4	1.02	< 5	30	< 0.5	< 2	0.09	< 0.5	1	17	16	1.64	< 10	2	0.06	< 10	0.08	80
CL230 3+75W	201	298	< 5	0.4	2.13	40	60	< 0.5	< 2	0.13	< 0.5	10	35	43	3.97	< 10	< 1	0.08	< 10	0.44	480
CL230 4+00W	201	298	< 5	1.0	0.72	10	80	< 0.5	< 2	0.29	0.5	3	28	22	2.03	< 10	< 1	0.09	< 10	0.20	155
CL230 4+25W	201	298	< 5	< 0.2	2.44	20	240	< 0.5	4	0.06	0.5	6	41	26	4.88	< 10	< 1	0.37	10	0.69	235
CL230 4+50W	201	298	< 5	1.2	2.93	100	90	< 0.5	10	0.26	< 0.5	13	76	114	7.42	< 10	< 1	0.08	< 10	1.01	645
CL230 4+75W	201	298	< 5	1.0	2.94	130	50	< 0.5	4	0.27	0.5	6	23	87	5.19	< 10	< 1	0.05	< 10	0.33	250
CL230 5+00W	201	298	120	4.2	2.41	5730	50	< 0.5	< 2	0.12	< 0.5	25	13	241	9.56	< 10	< 1	0.08	10	0.40	1505
91BK-10	201	298	< 5	< 0.2	3.38	60	370	< 0.5	2	1.30	1.5	12	81	61	3.96	< 10	< 1	0.36	10	1.44	1935
91BK-11	203	205	< 5	< 0.2	3.13	15	420	1.0	2	0.82	0.5	14	73	27	3.72	< 10	1	0.22	20	0.60	2590
91BK-12	201	298	< 5	< 0.2	3.26	15	220	1.0	< 2	0.31	0.5	14	48	37	3.37	< 10	< 1	0.30	10	0.65	1655
91BK-13	203	205	< 5	< 0.2	3.18	25	590	< 0.5	< 2	0.53	1.5	19	73	42	5.48	< 10	< 1	0.12	10	1.48	1920
91BK-14	203	205	< 5	< 0.2	3.02	30	450	< 0.5	< 2	1.66	0.5	16	71	38	4.58	10	< 1	0.08	10	1.35	1705
91BK-15	203	205	< 5	< 0.2	3.32	55	950	0.5	< 2	0.81	1.0	20	73	48	5.38	< 10	< 1	0.12	20	1.24	2530
91BK-16	203	205	< 5	< 0.2	3.62	50	310	< 0.5	< 2	0.67	0.5	19	123	65	5.63	< 10	< 1	0.21	10	2.28	1325
91DM-01	203	205	< 5	< 0.2	3.28	80	340	< 0.5	< 2	0.68	1.0	24	186	93	5.70	< 10	< 1	0.24	< 10	2.46	960
91DM-02	203	205	< 5	< 0.2	3.08	70	220	< 0.5	< 2	0.69	1.5	19	105	62	5.45	< 10	< 1	0.16	10	1.80	1535
91DM-03	203	205	< 5	< 0.2	3.26	45	380	< 0.5	< 2	0.75	0.5	19	115	65	5.20	< 10	< 1	0.16	10	1.95	1030
91DM-04	203	205	< 5	< 0.2	3.10	50	430	0.5	< 2	0.73	1.0	20	64	43	5.37	< 10	< 1	0.15	20	1.05	2170
91DM-05	203	205	< 5	< 0.2	3.63	40	990	< 0.5	< 2	0.78	2.0	23	115	51	5.36	< 10	< 1	0.89	< 10	2.02	3600
91DM-06	201	298	< 5	0.2	3.90	10	330	0.5	2	1.44	8.0	13	57	79	3.81	< 10	< 1	0.16	20	0.92	2440
91DM-07	201	298	< 5	0.4	4.95	15	500	1.5	< 2	1.17	1.5	10	29	51	2.95	10	< 1	0.05	30	0.22	1530
91DM-08	201	298	< 5	< 0.2	2.24	30	170	< 0.5	< 2	0.77	0.5	11	40	73	3.79	< 10	< 1	0.43	< 10	1.04	715
91DM-09	201	298	< 5	< 0.2	3.14	35	240	0.5	< 2	0.40	< 0.5	12	58	54	3.27	< 10	< 1	0.27	10	0.89	1020
91DM-10	201	298	< 5	< 0.2	2.62	25	270	0.5	< 2	0.57	0.5	14	31	57	2.77	< 10	< 1	0.25	10	0.64	1530
91DM-11	201	298	< 5	< 0.2	3.18	20	220	0.5	2	0.32	0.5	12	62	69	3.81	< 10	2	0.29	10	1.01	1045
91SH-01	201	298	< 5	< 0.2	2.49	30	400	< 0.5	< 2	0.89	1.0	17	98	95	4.43	< 10	< 1	0.52	10	1.53	860
91SH-02	201	298	< 5	< 0.2	2.48	50	210	< 0.5	< 2	1.13	< 0.5	12	109	67	3.70	< 10	< 1	0.41	< 10	1.40	615

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 : CUDS 5-8
Comments:

Certificate Date: 10-OCT-91
Invoice No. :I9122579
P.O. Number :ZUE91-01

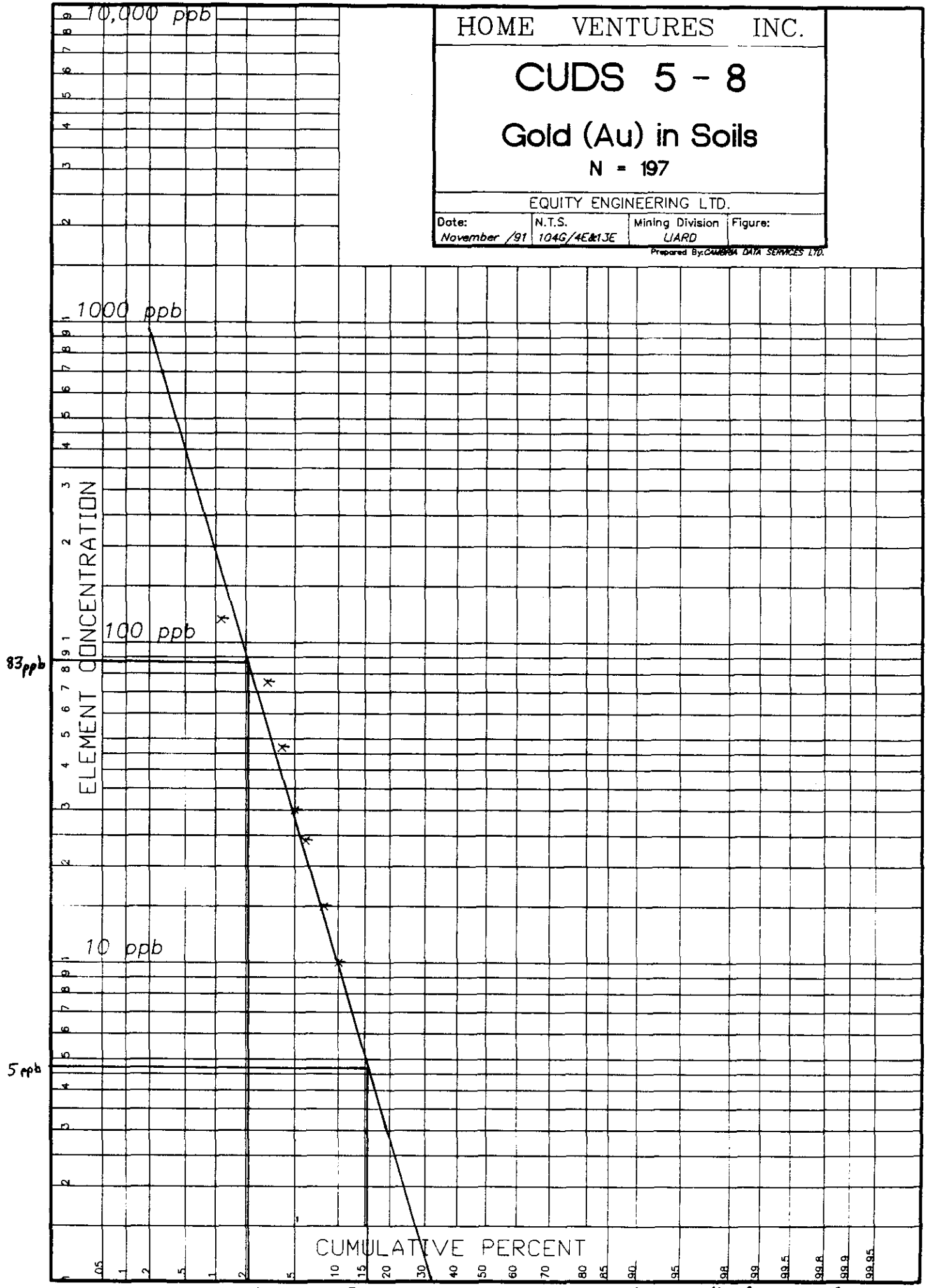
CERTIFICATE OF ANALYSIS A9122579

SAMPLE	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
CL230 0+75W	201	298	2	0.02	22	1600	22	< 5	3	27	0.04	< 10	< 10	109	< 10	82
CL230 1+00W	201	298	1	0.01	16	800	18	< 5	8	25	0.14	< 10	< 10	92	< 10	60
CL230 1+25W	203	205	2	0.02	43	790	24	< 5	8	30	0.17	< 10	< 10	154	< 10	98
CL230 1+50W	201	298	< 1	0.01	26	2890	32	< 5	4	46	0.09	< 10	< 10	104	< 10	116
CL230 1+75W	203	205	1	0.02	65	1960	30	5	9	72	0.13	< 10	< 10	117	< 10	102
CL230 2+00W	201	298	1	0.01	16	1830	18	5	5	27	0.24	< 10	< 10	137	< 10	54
CL230 2+25W	201	298	1	0.02	43	3460	30	< 5	5	49	0.14	< 10	< 10	137	< 10	104
CL230 2+50W	201	298	1	0.01	39	940	22	< 5	8	36	0.18	< 10	< 10	115	< 10	98
CL230 2+75W	203	205	3	0.03	28	1220	22	5	5	43	0.15	< 10	< 10	112	< 10	84
CL230 3+00W	201	298	3	0.01	12	630	12	5	2	33	0.08	< 10	< 10	71	< 10	36
CL230 3+25W	201	298	2	0.01	11	810	4	< 5	5	22	0.21	< 10	< 10	139	< 10	48
CL230 3+50W	201	298	2	0.03	8	630	8	< 5	1	10	0.10	< 10	< 10	29	< 10	36
CL230 3+75W	201	298	4	0.04	15	1170	10	< 5	3	9	0.08	< 10	< 10	53	< 10	54
CL230 4+00W	201	298	3	0.01	7	1520	18	< 5	1	20	0.03	< 10	< 10	39	< 10	44
CL230 4+25W	201	298	2	< 0.01	21	730	14	< 5	4	5	0.15	< 10	< 10	125	< 10	50
CL230 4+50W	201	298	15	0.02	31	850	8	< 5	7	19	0.14	< 10	< 10	101	< 10	92
CL230 4+75W	201	298	16	0.01	5	890	10	< 5	3	15	0.06	< 10	< 10	65	< 10	48
CL230 5+00W	201	298	63	0.01	6	1210	122	45	5	8	0.03	< 10	< 10	46	< 10	170
91BK-10	201	298	3	0.04	48	1250	14	< 5	8	81	0.17	< 10	< 10	136	< 10	216
91BK-11	203	205	8	0.05	14	1760	6	< 5	4	66	0.13	< 10	< 10	79	< 10	154
91BK-12	201	298	3	0.02	15	1220	< 2	< 5	4	29	0.14	< 10	< 10	96	< 10	88
91BK-13	203	205	2	0.03	33	790	18	< 5	7	74	0.06	< 10	< 10	99	< 10	154
91BK-14	203	205	2	0.03	26	680	4	< 5	7	242	0.18	< 10	< 10	119	< 10	96
91BK-15	203	205	3	0.03	29	760	10	< 5	7	117	0.06	< 10	< 10	99	< 10	168
91BK-16	203	205	1	0.04	50	1110	6	5	10	46	0.16	< 10	< 10	140	< 10	142
91DM-01	203	205	< 1	0.03	73	990	12	< 5	10	37	0.15	< 10	< 10	139	< 10	114
91DM-02	203	205	< 1	0.03	40	1000	14	< 5	9	49	0.14	< 10	< 10	127	< 10	174
91DM-03	203	205	1	0.03	42	1000	4	< 5	9	49	0.19	< 10	< 10	132	< 10	132
91DM-04	203	205	< 1	0.03	27	650	8	< 5	7	98	0.11	< 10	< 10	111	< 10	198
91DM-05	203	205	< 1	0.04	38	1500	4	< 5	11	66	0.23	< 10	< 10	168	< 10	294
91DM-06	201	298	1	0.02	37	1580	10	< 5	6	99	0.11	< 10	< 10	89	< 10	400
91DM-07	201	298	5	0.02	12	1860	8	< 5	3	159	0.07	< 10	< 10	51	< 10	108
91DM-08	201	298	3	0.04	17	1210	4	5	7	68	0.21	< 10	< 10	125	< 10	122
91DM-09	201	298	6	0.02	20	680	8	< 5	7	37	0.19	< 10	< 10	115	< 10	106
91DM-10	201	298	2	0.03	17	1290	4	< 5	4	44	0.14	< 10	< 10	87	< 10	164
91DM-11	201	298	1	0.02	23	690	< 2	< 5	8	23	0.23	< 10	< 10	126	< 10	108
91SH-01	201	298	4	0.03	67	1210	2	< 5	11	56	0.19	< 10	< 10	136	< 10	116
91SH-02	201	298	6	0.03	46	1140	< 2	< 5	9	74	0.20	< 10	< 10	148	< 10	122

CERTIFICATION: B. Caughlin

APPENDIX E

LOG PROBABILITY PLOTS AND TABLES - SOIL GEOCHEMISTRY

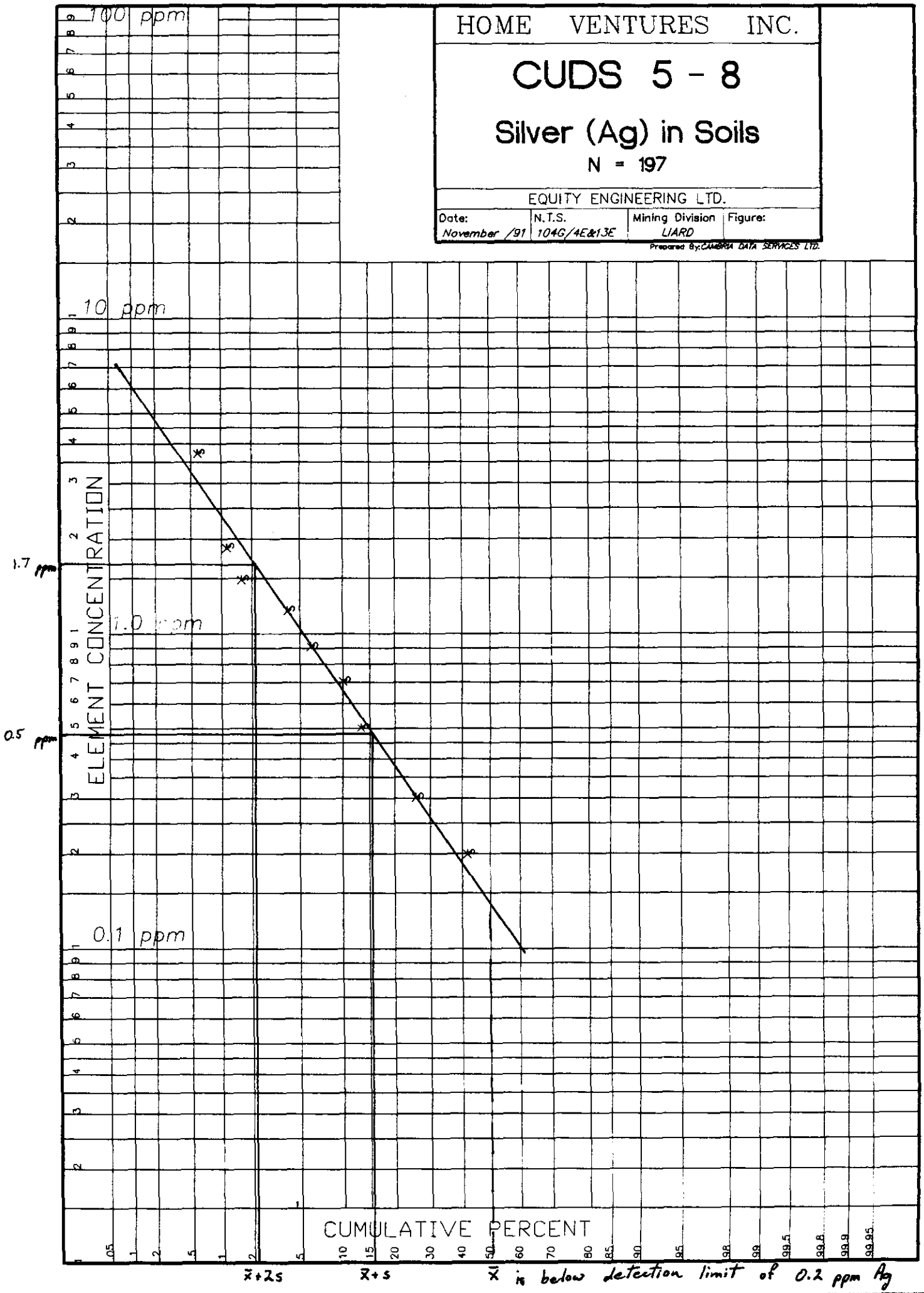

HOME VENTURES INC.
CUDS 5 - 8
Gold (Au) in Soils
N = 197
EQUITY ENGINEERING LTD.
Date: November /91
N.T.S. 104G/4E&13E
Mining Division UARD
Figure:
Prepared By: CAMERA DATA SERVICES LTD.
10,000 ppb
1000 ppb
100 ppb
10 ppb
83ppb
5 ppb
ELEMENT CONCENTRATION
CUMULATIVE PERCENT
.05 .1 .2 .5 1 2 5 10 15 20 30 40 50 60 70 80 85 90 95 98 99 99.5 99.8 99.9 99.95
x̄+2s
x̄+s
x̄ is below detection limit of 5 ppb Au

 ASSAY FILE NUMBER - B0050 :
ELEMENT - AU

11/01/91

P O N D C A D S E R V I C E S
MAPPER-CAD SOFTWARE
LOG-PROBABILITY TABLE (LEPELTIER TABLE)

LOWER LOG LIMIT INTERVAL	LOWER CONCENTRATION LIMIT	SAMPLE POPULATION TALLY	CUMULATIVE SUM	CUMULATIVE PERCENT
-0.13	0	178	197	100.00
-0.03	1	0	19	9.64
0.27	2	0	19	9.64
0.47	3	0	19	9.64
0.57	4	0	19	9.64
0.67	5	1	19	9.64
0.77	6	0	18	9.14
0.87	8	0	18	9.14
0.97	10	4	18	9.14
1.07	12	0	14	7.11
1.17	15	4	14	7.11
1.27	19	0	10	5.08
1.37	24	2	10	5.08
1.47	30	2	8	4.06
1.57	38	0	6	3.05
1.67	47	2	6	3.05
1.77	59	0	4	2.03
1.87	75	2	4	2.03
1.97	94	0	2	1.02
2.07	118	2	2	1.02
2.17	148	0	0	0.00
2.27	187	0	0	0.00
2.37	235	0	0	0.00
2.47	296	0	0	0.00
2.57	372	0	0	0.00
2.67	468	0	0	0.00
2.77	589	0	0	0.00
2.87	742	0	0	0.00
2.97	934	0	0	0.00
3.07	1175	0	0	0.00
3.17	1480	0	0	0.00
3.27	1863	0	0	0.00
3.37	2345	0	0	0.00
3.47	2952	0	0	0.00
3.57	3716	0	0	0.00
3.67	4678	0	0	0.00
3.77	5889	0	0	0.00
3.87	7414	0	0	0.00
3.97	9333	0	0	0.00
4.07	11749	0	0	0.00

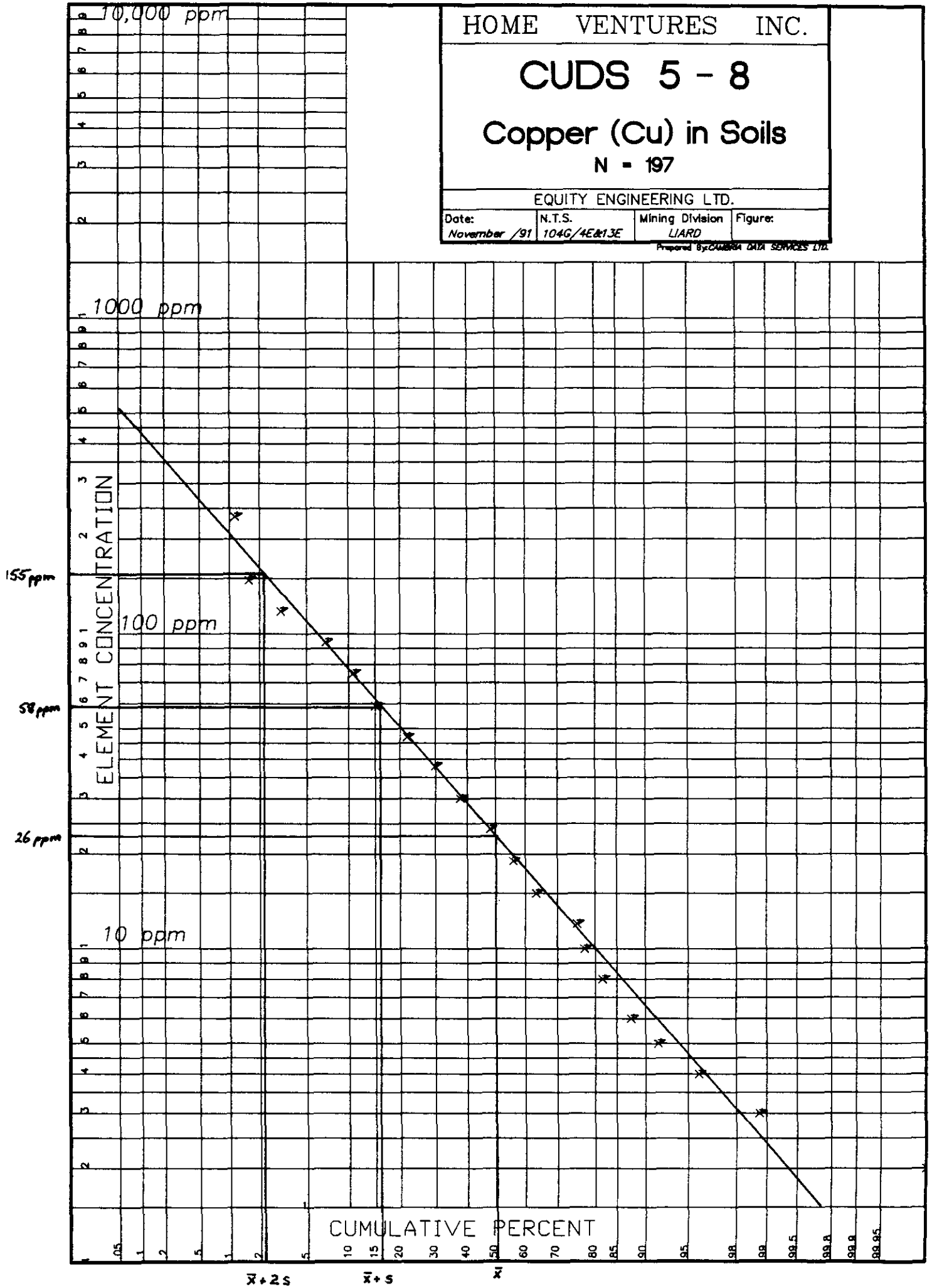

HOME VENTURES INC.
CUDS 5 - 8
Silver (Ag) in Soils
N = 197
EQUITY ENGINEERING LTD.
Date: November /91
N.T.S. 104G/4E&13E
Mining Division LIARD
Figure:
Prepared By: CAMBRIA DATA SERVICES LTD.
100 ppm
10 ppm
1.0 ppm
0.1 ppm
1.7 ppm
0.5 ppm
ELEMENT CONCENTRATION
CUMULATIVE PERCENT
x̄+2s
x̄+s
x̄ is below detection limit of 0.2 ppm Ag

 ASSAY FILE NUMBER - 80050 :
ELEMENT - AG

11/01/91

P O N D C A D S E R V I C E S
MAPPER-CAD SOFTWARE
LOG-PROBABILITY TABLE (LEPELTIER TABLE)

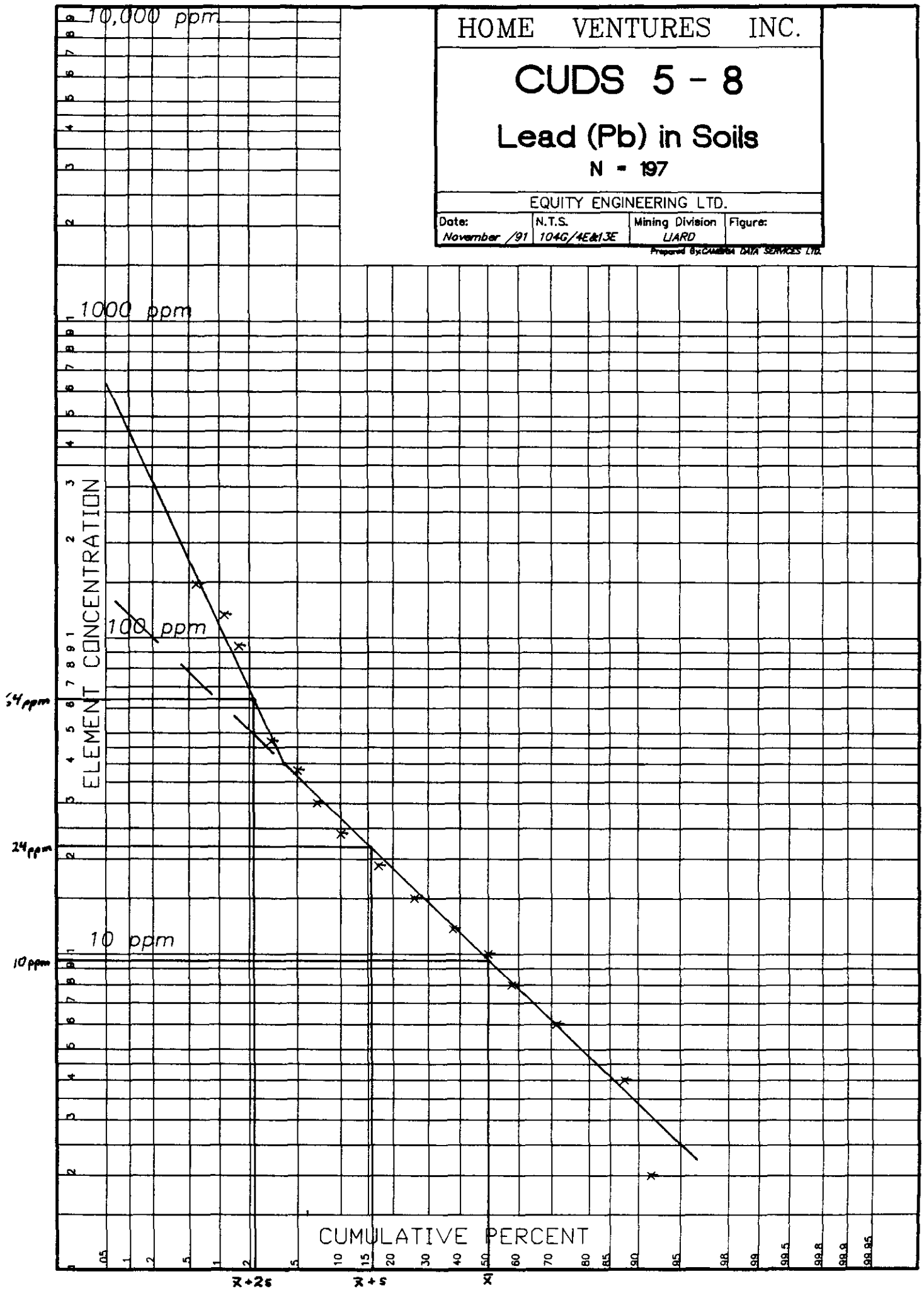
LOWER LOG LIMIT INTERVAL	LOWER CONCENTRATION LIMIT	SAMPLE POPULATION TALLY	CUMULATIVE SUM	CUMULATIVE PERCENT
-0.13	0	116	197	100.00
0.97	0.1	0	81	41.12
1.27	0.2	31	81	41.12
1.57	0.3	25	50	25.38
1.67	0.4	0	25	12.69
1.77	0.5	7	25	12.69
1.87	0.7	7	18	9.14
1.97	0.9	5	11	5.58
2.07	1.1	3	6	3.05
2.17	1.4	1	3	1.52
2.27	1.8	1	2	1.02
2.37	2.3	0	1	0.51
2.47	2.9	0	1	0.51
2.57	3.7	1	1	0.51
2.67	4.6	0	0	0.00
2.77	5.8	0	0	0.00


HOME VENTURES INC.
CUDS 5 - 8
Copper (Cu) in Soils
N = 197
EQUITY ENGINEERING LTD.
Date: November /91
N.T.S. 104G/4E&13E
Mining Division LIARD
Figure:
Prepared By: CAMBRIA DATA SERVICES LTD.
10,000 ppm
1000 ppm
100 ppm
10 ppm
155 ppm
58 ppm
26 ppm
ELEMENT CONCENTRATION
CUMULATIVE PERCENT
.05 .1 .2 .5 1 2 5 10 15 20 30 40 50 60 70 80 85 90 95 98 99 99.5 99.8 99.9 99.95
x̄ + 2s
x̄ + s
x̄

11/01/91

P O N D C A D S E R V I C E S
MAPPER-CAD SOFTWARE
LOG-PROBABILITY TABLE (LEPELTIER TABLE)

LOWER LOG LIMIT INTERVAL	LOWER CONCENTRATION LIMIT	SAMPLE POPULATION TALLY	CUMULATIVE SUM	CUMULATIVE PERCENT
-0.13	0	0	197	100.00
-0.03	1	0	197	100.00
0.27	2	2	197	100.00
0.47	3	4	195	98.98
0.57	4	8	191	96.95
0.67	5	8	183	92.89
0.77	6	13	175	88.83
0.87	8	8	162	82.23
0.97	10	4	154	78.17
1.07	12	21	150	76.14
1.17	15	16	129	65.48
1.27	19	19	113	57.36
1.37	24	21	94	47.72
1.47	30	15	73	37.06
1.57	38	18	58	29.44
1.67	47	11	40	20.30
1.77	59	8	29	14.72
1.87	75	9	21	10.66
1.97	94	7	12	6.09
2.07	118	2	5	2.54
2.17	148	1	3	1.52
2.27	187	0	2	1.02
2.37	235	2	2	1.02
2.47	296	0	0	0.00
2.57	372	0	0	0.00
2.67	468	0	0	0.00
2.77	589	0	0	0.00
2.87	742	0	0	0.00
2.97	934	0	0	0.00
3.07	1175	0	0	0.00
3.17	1480	0	0	0.00
3.27	1863	0	0	0.00
3.37	2345	0	0	0.00
3.47	2952	0	0	0.00
3.57	3716	0	0	0.00
3.67	4678	0	0	0.00
3.77	5889	0	0	0.00
3.87	7414	0	0	0.00
3.97	9333	0	0	0.00
4.07	11749	0	0	0.00

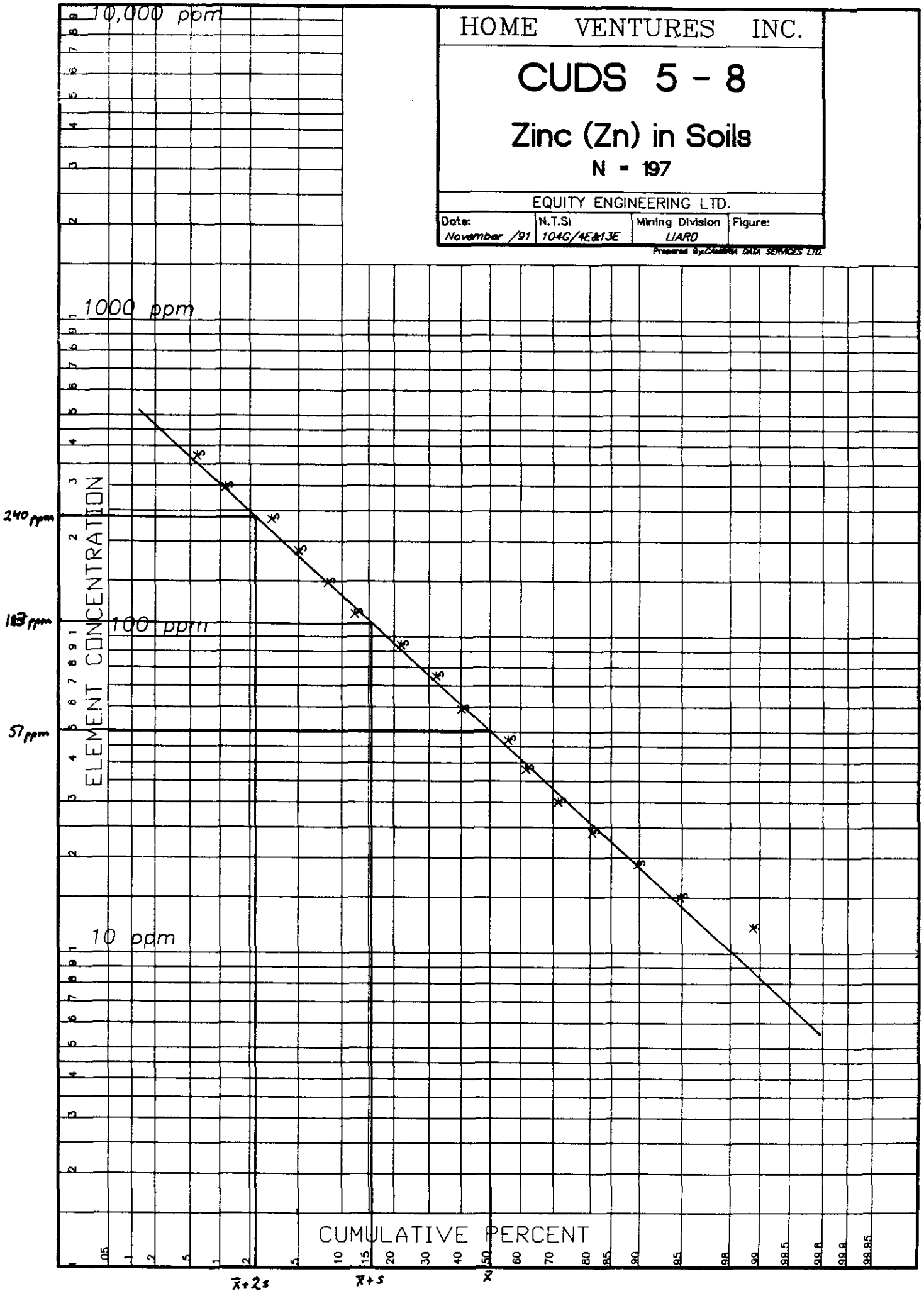

HOME VENTURES INC.
CUDS 5 - 8
Lead (Pb) in Soils
N = 197
EQUITY ENGINEERING LTD.
Date: November /91
N.T.S. 104G/4E&13E
Mining Division LIARD
Figure:
Prepared by CAMBRIA DATA SERVICES LTD.
10,000 ppm
1000 ppm
100 ppm
54 ppm
24 ppm
10 ppm
10 ppm
ELEMENT CONCENTRATION
CUMULATIVE PERCENT
x̄+2s
x̄+s
x̄

 ASSAY FILE NUMBER - B0050 :
ELEMENT - PB

11/01/91

P O N D C A D S E R V I C E S
MAPPER-CAD SOFTWARE
LOG-PROBABILITY TABLE (LEPELTIER TABLE)

LOWER LOG LIMIT INTERVAL	LOWER CONCENTRATION LIMIT	SAMPLE POPULATION TALLY	CUMULATIVE SUM	CUMULATIVE PERCENT
-0.13	0	14	197	100.00
-0.03	1	0	183	92.89
0.27	2	9	183	92.89
0.47	3	0	174	88.32
0.57	4	32	174	88.32
0.67	5	0	142	72.08
0.77	6	27	142	72.08
0.87	8	18	115	58.38
0.97	10	26	97	49.24
1.07	12	23	71	36.04
1.17	15	15	48	24.37
1.27	19	14	33	16.75
1.37	24	7	19	9.64
1.47	30	4	12	6.09
1.57	38	3	8	4.06
1.67	47	2	5	2.54
1.77	59	0	3	1.52
1.87	75	0	3	1.52
1.97	94	1	3	1.52
2.07	118	1	2	1.02
2.17	148	1	1	0.51
2.27	187	0	0	0.00
2.37	235	0	0	0.00
2.47	296	0	0	0.00
2.57	372	0	0	0.00
2.67	468	0	0	0.00
2.77	589	0	0	0.00
2.87	742	0	0	0.00
2.97	934	0	0	0.00
3.07	1175	0	0	0.00
3.17	1480	0	0	0.00
3.27	1863	0	0	0.00
3.37	2345	0	0	0.00
3.47	2952	0	0	0.00
3.57	3716	0	0	0.00
3.67	4678	0	0	0.00
3.77	5889	0	0	0.00
3.87	7414	0	0	0.00
3.97	9333	0	0	0.00
4.07	11749	0	0	0.00


HOME VENTURES INC.
CUDS 5 - 8
Zinc (Zn) in Soils
N = 197
EQUITY ENGINEERING LTD.
Date: November /91
N.T.S. 104G/4E&13E
Mining Division LIARD
Figure:
Prepared By: CAMERA DATA SERVICES LTD.
10,000 ppm
1000 ppm
100 ppm
10 ppm
240 ppm
183 ppm
57 ppm
ELEMENT CONCENTRATION
CUMULATIVE PERCENT
x̄+2s
x̄+s
x̄

 ASSAY FILE NUMBER - B0050 :
ELEMENT - ZN

11/01/91

P O N D C A D S E R V I C E S
MAPPER-CAD SOFTWARE
LOG-PROBABILITY TABLE (LEPELTIER TABLE)

LOWER LOG LIMIT INTERVAL	LOWER CONCENTRATION LIMIT	SAMPLE POPULATION TALLY	CUMULATIVE SUM	CUMULATIVE PERCENT
-0.13	0	0	197	100.00
-0.03	1	0	197	100.00
0.27	2	0	197	100.00
0.47	3	0	197	100.00
0.57	4	0	197	100.00
0.67	5	0	197	100.00
0.77	6	0	197	100.00
0.87	8	0	197	100.00
0.97	10	2	197	100.00
1.07	12	7	195	98.98
1.17	15	9	188	95.43
1.27	19	18	179	90.86
1.37	24	17	161	81.73
1.47	30	18	144	73.10
1.57	38	15	126	63.96
1.67	47	33	111	56.35
1.77	59	15	78	39.59
1.87	75	21	63	31.98
1.97	94	19	42	21.32
2.07	118	8	23	11.68
2.17	148	6	15	7.61
2.27	187	5	9	4.57
2.37	235	2	4	2.03
2.47	296	1	2	1.02
2.57	372	1	1	0.51
2.67	468	0	0	0.00
2.77	589	0	0	0.00
2.87	742	0	0	0.00
2.97	934	0	0	0.00
3.07	1175	0	0	0.00
3.17	1480	0	0	0.00
3.27	1863	0	0	0.00
3.37	2345	0	0	0.00
3.47	2952	0	0	0.00
3.57	3716	0	0	0.00
3.67	4678	0	0	0.00
3.77	5889	0	0	0.00
3.87	7414	0	0	0.00
3.97	9333	0	0	0.00
4.07	11749	0	0	0.00

HOME VENTURES INC.

CUDS 5 - 8

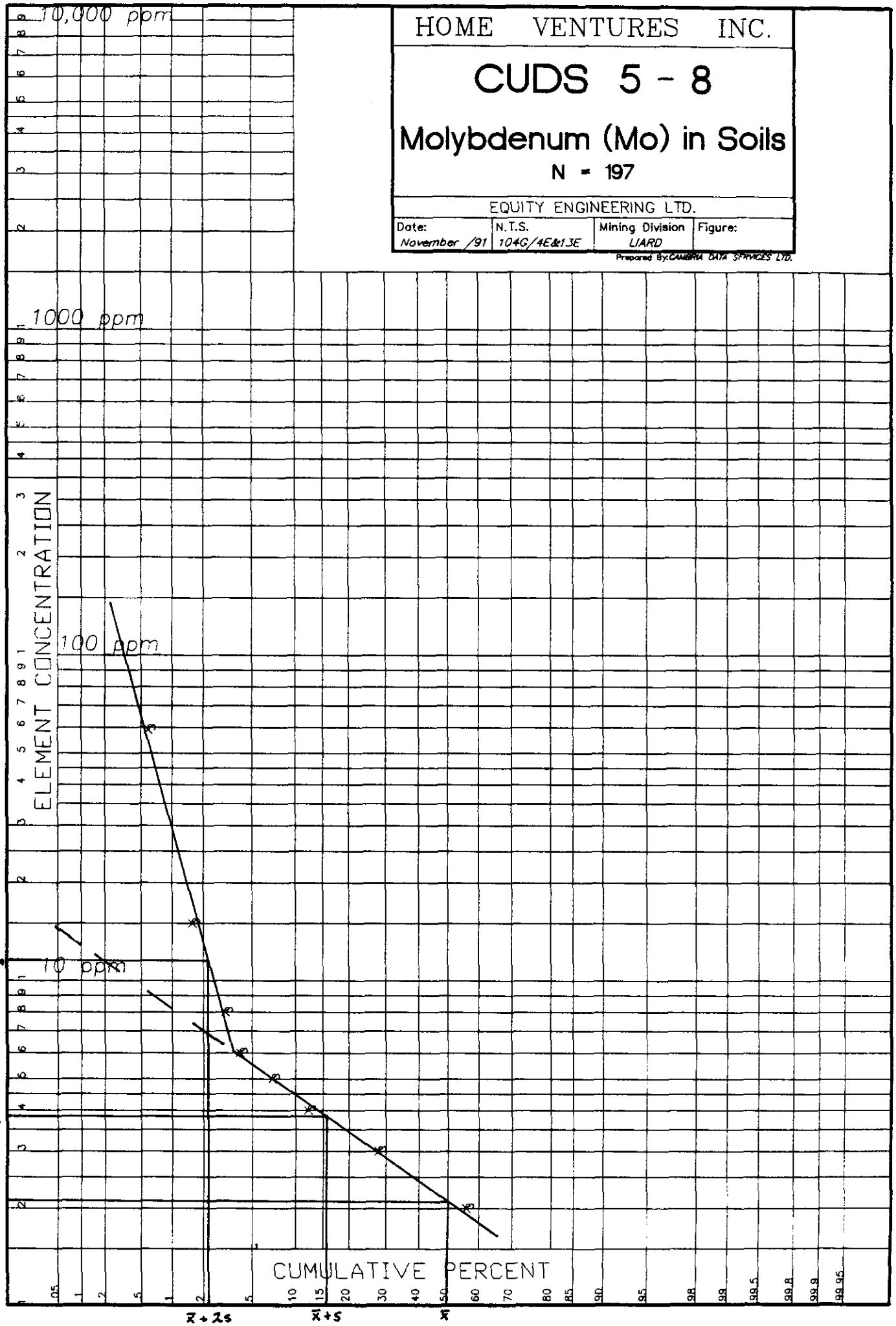
Molybdenum (Mo) in Soils

N = 197

EQUITY ENGINEERING LTD.

Date:	N.T.S.	Mining Division	Figure:
November /91	104G/4E&13E	LIARD	

Prepared By: CAMBRIA DATA SERVICES LTD.

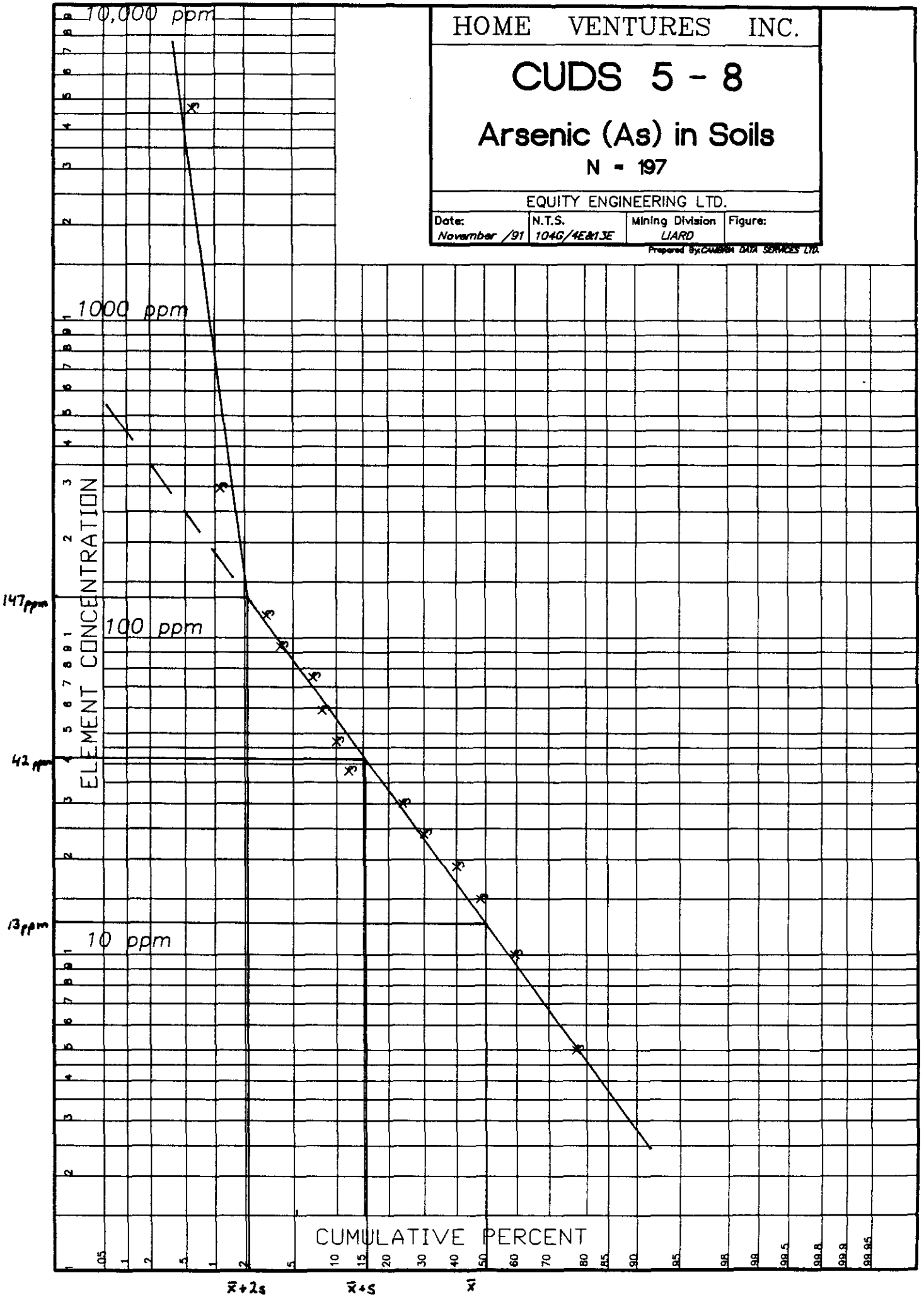


 ASSAY FILE NUMBER - B0050 :
ELEMENT - MO

11/01/91

P O N D C A D S E R V I C E S
MAPPER-CAD SOFTWARE
LOG-PROBABILITY TABLE (LEPELTIER TABLE)

LOWER LOG LIMIT INTERVAL	LOWER CONCENTRATION LIMIT	SAMPLE POPULATION TALLY	CUMULATIVE SUM	CUMULATIVE PERCENT
-0.13	0	21	197	100.00
-0.03	1	64	176	89.34
0.27	2	57	112	56.85
0.47	3	32	55	27.92
0.57	4	11	23	11.68
0.67	5	5	12	6.09
0.77	6	3	7	3.55
0.87	8	1	4	2.03
0.97	10	0	3	1.52
1.07	12	0	3	1.52
1.17	15	2	3	1.52
1.27	19	0	1	0.51
1.37	24	0	1	0.51
1.47	30	0	1	0.51
1.57	38	0	1	0.51
1.67	47	0	1	0.51
1.77	59	1	1	0.51
1.87	75	0	0	0.00
1.97	94	0	0	0.00
2.07	118	0	0	0.00
2.17	148	0	0	0.00
2.27	187	0	0	0.00
2.37	235	0	0	0.00
2.47	296	0	0	0.00
2.57	372	0	0	0.00
2.67	468	0	0	0.00
2.77	589	0	0	0.00
2.87	742	0	0	0.00
2.97	934	0	0	0.00
3.07	1175	0	0	0.00
3.17	1480	0	0	0.00
3.27	1863	0	0	0.00
3.37	2345	0	0	0.00
3.47	2952	0	0	0.00
3.57	3716	0	0	0.00
3.67	4678	0	0	0.00
3.77	5889	0	0	0.00
3.87	7414	0	0	0.00
3.97	9333	0	0	0.00
4.07	11749	0	0	0.00


HOME VENTURES INC.
CUDS 5 - 8
Arsenic (As) in Soils
N = 197
EQUITY ENGINEERING LTD.
Date: November /91
N.T.S. 104G/4E&13E
Mining Division LIARD
Figure:
Prepared by CUMBRIA DATA SERVICES LTD.
10,000 ppm
1000 ppm
100 ppm
10 ppm
147ppm
42ppm
13ppm
ELEMENT CONCENTRATION
CUMULATIVE PERCENT
x̄+2s
x̄+s
x̄

 ASSAY FILE NUMBER - B0050 :
ELEMENT - AS

11/01/91

P O N D C A D S E R V I C E S
MAPPER-CAD SOFTWARE
LOG-PROBABILITY TABLE (LEPELTIER TABLE)

LOWER LOG LIMIT INTERVAL	LOWER CONCENTRATION LIMIT	SAMPLE POPULATION TALLY	CUMULATIVE SUM	CUMULATIVE PERCENT
-0.13	0	42	197	100.00
-0.03	1	0	155	78.68
0.27	2	0	155	78.68
0.47	3	0	155	78.68
0.57	4	0	155	78.68
0.67	5	36	155	78.68
0.77	6	0	119	60.41
0.87	8	0	119	60.41
0.97	10	27	119	60.41
1.07	12	0	92	46.70
1.17	15	15	92	46.70
1.27	19	18	77	39.09
1.37	24	15	59	29.95
1.47	30	21	44	22.34
1.57	38	5	23	11.68
1.67	47	4	18	9.14
1.77	59	1	14	7.11
1.87	75	7	13	6.60
1.97	94	2	6	3.05
2.07	118	2	4	2.03
2.17	148	0	2	1.02
2.27	187	0	2	1.02
2.37	235	0	2	1.02
2.47	296	1	2	1.02
2.57	372	0	1	0.51
2.67	468	0	1	0.51
2.77	589	0	1	0.51
2.87	742	0	1	0.51
2.97	934	0	1	0.51
3.07	1175	0	1	0.51
3.17	1480	0	1	0.51
3.27	1863	0	1	0.51
3.37	2345	0	1	0.51
3.47	2952	0	1	0.51
3.57	3716	0	1	0.51
3.67	4678	1	1	0.51
3.77	5889	0	0	0.00
3.87	7414	0	0	0.00
3.97	9333	0	0	0.00
4.07	11749	0	0	0.00

APPENDIX F

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, BRUNO KASPER, of 201-2131 West 3rd 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 have no interest, directly or indirectly, in the securities or property of Pass Lake Resources Ltd. and Home Ventures Inc. or any of their affiliates.

DATED at Vancouver, British Columbia, this 17th day of December, 1991.

Bruno Kasper, Geologist

342000 E 343000 E 344000 E 345000 E 346000 E

6 323000 N

6 322000 N

6 321000 N

Contour Soil Line CL100

Contour Soil Line CL180

Contour Soil Line CL100

4B with small dykes of 13C

Hidden Creek Showing

MISTY CK.

MISTY RIDGE

HODGE PODGE CK.

FELSIC CREEK

DELUXE CK.

HIDDEN CK.

SPHALER CREEK

PORCUPINE RIVER

AIRSTRIP

CAMP

CUDS 5
223774

CUDS 6
223775

CUDS 7
223776

CUDS 8
223777

L.C.P.

LEGEND

LITHOLOGIES

QUATERNARY
20 Glacial and unconsolidated alluvial deposits.

TERTIARY
Dykes and sills
14B Basaltic (gabbroic).
14C Lamprophyre (biotite minette).

EOCENE
13A Biotite quartz monzonite to monzonite ~with granodiorite phases: equigranular, medium-grained and leucocratic, associated with rhyodacite and rhyolite dyking.
13B Biotite granite phase of 13A, contains muscovite.
13C Quartz monzonite to quartz syenite stocks and dykes: similar to 13A but biotite is not common.
13E Plagioclase porphyritic diorite: chlorite-biotite altered hornblende also present.

EARLY TO MIDDLE JURASSIC
Galore Creek Intrusions
11B Orthoclase porphyritic monzonite: coarse- to medium-grained.

UPPER TRIASSIC
Stuhini Group
8 Undivided Stuhini Group volcanics, volcaniclastics and sedimentary rocks.
8A Interbedded wackes, siltstone, argillites: laminated to thin-bedded, includes carbonaceous argillites, generally dark green to maroon coloured, wacke may vary in composition from a greywacke to a quartz arenite.
8D Augite porphyry: includes pyroxene-phyric flows, generally dark green to black, characterized by the presence of pyroxene phenocrysts which are larger than the feldspar phenocrysts, phenocrysts usually oriented subparallel to each other, flow breccias common.
8E Andesite ± andesite crystal tuffs: generally dark green to black, characterized by abundant subparallel feldspar phenocrysts and the lack of pyroxene phenocrysts, may have associated flow breccias.
8G Tuffs/tuffaceous sediment: pyroclastic with fragments <2mm, usually felsic in composition, well developed laminations, may be easily confused with unit 8A.
8H Lapilli tuffs, pyroclastic breccia and agglomerate: pyroclastics with fragments >2mm in a matrix of crystal to ash tuff, generally dark green to black, includes lithic lapilli crystal tuffs.

Stikine Assemblage

MISSISSIPPIAN AND OLDER
4 Undivided metavolcanics and metasediments.
4A Tuff unit: consists of ash tuff, lapilli tuff and tuffaceous siltstone, generally greenish-grey and siliceous, may consist of a crystal hash.
4B Intermediate flows: feldspar-hornblende porphyry andesites, pyroxene-plagioclase porphyritic flows.
4C Argillite, siltstone: strongly laminated, siltstones are blue-grey, argillites are graphitic in places.
4D Greywacke: fine- to medium-grained, thick sequences found within unit 4C, may be volcaniclastic.
4H Silver phyllite and slate.
4I Chlorite-feldspar-quartz schist: locally gneissic.

MINERALS AND ALTERATION TYPES

AS	arsenopyrite	BI	biotite	CA	calcite
CB	Fe-carbonate	CL	chlorite	CP	chalcopyrite
EP	epidote	GL	galena	HE	hematite
H	hornfels	MC	malachite	MG	magnetite
MO	molybdenite	MR	mariposite	PO	pyrrhotite
PY	pyrite	QZ	quartz	SP	sphalerite

Alteration intensity: w -- weak; m -- moderate; s -- strong

SYMBOLS

Rock outcrop
Geological boundary (approximate, inferred)
Fault with dip (approximate, inferred)
Bedding with dip
Foliation with dip (known, unknown)
Dyke with dip and true width in metres
Vein with dip (inclined, unknown) and true width in metres
Joint/fracture with dip
Rock sample (float, grab from outcrop)
Silt sample
Field-sieved stream sediment sample
Soil sample line with 25 metre and 100 metre stations. Results shown for Au ≥5 ppb, Ag ≥0.5 ppm, Cu ≥58 ppm, Pb ≥24 ppm, Zn ≥113 ppm, Mo ≥4 ppm and As ≥42 ppm,.
Helicopter Pad
L.C.P. Legal corner post (located)

Geology adapted in part from Doyle (1991), Doyle and Caulfield (1990), Kasper (1990, 1991), Logan et al (1989) and Yamamura and Awmack (1990).

0 100 200 400 600
METRES

1991 ROCK GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
465905	<5	<0.2	62	<2	68	5
465906	<5	<0.2	53	24	134	40
465907	<5	<0.2	93	14	178	35
465908	<5	<0.2	48	6	552	15
465909	<5	3.4	65	3880	142	<5
465918	<5	<0.2	112	16	54	145
465919	<5	<0.2	73	4	74	55
465920	<5	<0.2	11	4	30	10
465921	<5	<0.2	266	16	142	275
465925	<5	<0.2	11	6	6	30
465926	<5	<0.2	49	<2	88	15
465927	2.33g/t	1.6	152	2	42	>10000
465928	10.49g/t	0.6	261	10	186	>10000
465929	5	0.2	75	10	96	705
465951	35	0.2	13	12	8	20
465952	95	<0.2	13	8	14	35
465953	<5	<0.2	59	4	50	5
465954	90	0.2	14	10	6	15
465955	30	<0.2	80	4	68	15
465956	<5	0.2	65	<2	70	15
508606	<5	<0.2	17	8	56	5
508607	<5	<0.2	45	4	72	20
508608	<5	<0.2	55	6	52	20
508609	<5	<0.2	46	14	56	<5
508610	35	<0.2	26	2	52	20
508611	<5	<0.2	24	8	24	5
508617	<5	<0.2	49	<2	68	20
508618	<5	<0.2	3	8	10	<5
508619	<5	<0.2	114	4	100	15
508620	<5	<0.2	7	4	6	<5
508621	<5	<0.2	52	2	32	<5
508628	<5	<0.2	21	4	46	15
508629	<5	0.2	29	10	52	<5
508630	<5	<0.2	72	6	50	10
508631	<5	<0.2	160	10	150	20
508632	<5	<0.2	88	8	284	<5

1990 ROCK GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
463901	1.24g/t	2.2	679	14	934	<5
465569	<5	<0.2	11	10	48	<5
465570	<5	<0.2	9	4	36	<5
465571	<5	<0.2	116	6	92	<5
465646	<5	<0.2	82	4	86	<5
465647	65	<0.2	6	18	18	<5

1989 ROCK GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
459497	<5	<0.2	37	<2	76	<5
459638	100	4.8	135	90	474	725
459639	10	3	23	56	192	265
459640	70	0.2	275	<2	32	75
463082	10	<0.2	169	4	182	25
463083	<5	<0.2	60	<2	16	<5

1991 SILT GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
91BK-10	<5	<0.2	61	14	216	60
91BK-11	<5	<0.2	27	6	154	15
91BK-12	<5	<0.2	37	<2	88	15
91DM-05	<5	<0.2	51	4	294	40
91DM-06	<5	0.2	79	10	400	10
91DM-08	<5	<0.2	73	4	122	30
91DM-09	<5	<0.2	54	8	106	35
91DM-10	<5	<0.2	57	4	164	25
91DM-11	<5	<0.2	69	<2	108	20
91SH-01	<5	<0.2	95	2	116	30
91SH-02	<5	<0.2	67	<2	122	50

1990 SILT GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
DM90-01	<5	<0.2	53	22	212	20
DM90-02	<5	<0.2	63	28	250	<5
DM90-03	<5	<0.2	86	24	338	15
DM90-04	15	<0.2	69	98	560	90
DM90-05	5	<0.2	99	28	390	35
DM90-06	<5	<0.2	56	8	146	5
DM90-07	<5	<0.2	44	14	150	<5
DM90-08	<5	<0.2	56	8	268	5

1989 SILT GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
459498	-	<0.2	29	10	230	20
459637	<5	<0.2	35	<2	82	5
463081	<5	<0.2	67	16	218	35
463402	<5	<0.2	51	<2	134	10

1989 FIELD SCREENED STREAM SEDIMENT GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
459499	<5	<0.2	21	2	160	20
459500	<5	<0.2	18	16	148	20
463401	5	<0.2	38	<2	100	<5

1987 GOVERNMENT SILT SAMPLE ANALYSES (GSC OPEN FILE 1646, 1988b)

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
871538	7	0.2	55	8	62	4
90th %ile	30	0.3	103	16	133	17
95th %ile	65	0.4	132	22	181	29
99th %ile	237	1.0	272	55	478	81

HOME VENTURES INC.

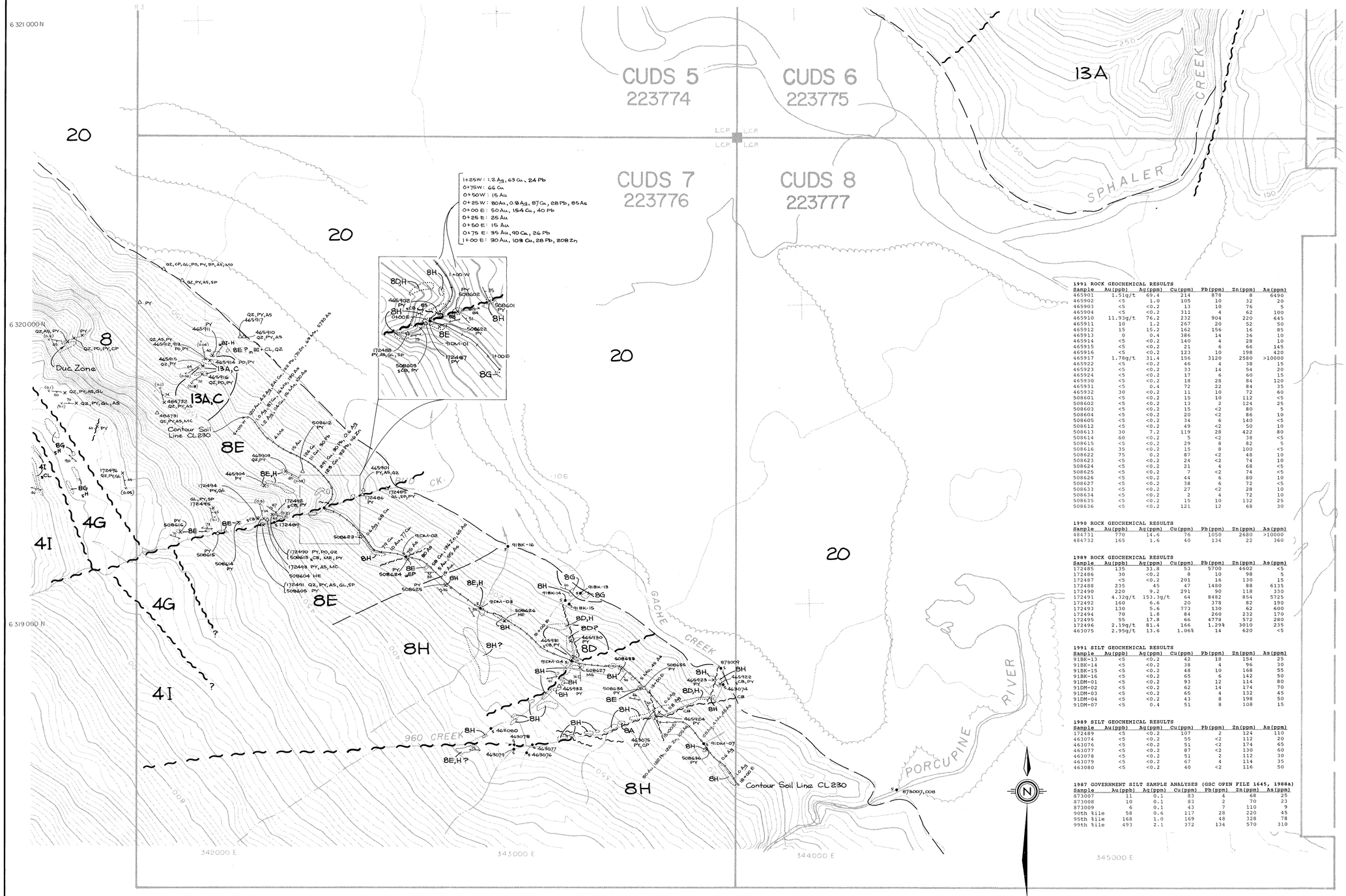
CUDS 5-8 CLAIMS

GEOLOGY & GEOCHEMISTRY North Half

EQUITY ENGINEERING LTD.

DRAWN: / J.J.E.	MINING DIV.: LIARD	FIGURE 5
N.T.S.: 104B/13E, G/4E	SCALE: 1:5000	
DATE: DECEMBER, 1991	REVISED:	

GEOLOGICAL BRANCH ASSESSMENT REPORT 22,044



LEGEND

LITHOLOGIES

QUATERNARY
20 Glacial and unconsolidated alluvial deposits.

TERTIARY
Dykes and sills
14B Basaltic (gabbroic).
14C Lamprophyre (biotite minette).

EOCENE
13A Biotite quartz monzonite to monzonite with granodiorite phases: equigranular, medium-grained and leucocratic, associated with rhyodacite and rhyolite dyking.
13B Biotite granite phase of 13A, contains muscovite.
13C Quartz monzonite to quartz syenite stocks and dykes: similar to 13A but biotite is not common.
13E Plagioclase porphyritic diorite: chlorite-biotite altered hornblende also present.

EARLY TO MIDDLE JURASSIC
Galore Creek Intrusions
11B Orthoclase porphyritic monzonite: coarse- to medium-grained.

UPPER TRIASSIC
Stuhini Group
8 Undivided Stuhini Group volcanics, volcaniclastics and sedimentary rocks.
8A Interbedded wackes, siltstone, argillites: laminated to thin-bedded, includes carbonaceous argillites, generally dark green to maroon coloured, wacke may vary in composition from a greywacke to a quartz arenite.
8D Augite porphyry: includes pyroxene-phyric flows, generally dark green to black, characterized by the presence of pyroxene phenocrysts which are larger than the feldspar phenocrysts, phenocrysts usually oriented subparallel to each other, flow breccias common.
8E Andesite ± andesite crystal tuffs: generally dark green to black, characterized by abundant subparallel feldspar phenocrysts and the lack of pyroxene phenocrysts, may have associated flow breccias.
8G Tuffs/tuffaceous sediment: pyroclastic with fragments <2mm, usually felsic in composition, well developed laminations, may be easily confused with unit 8A.
8H Lapilli tuffs, pyroclastic breccia and agglomerate: pyroclastics with fragments >2mm in a matrix of crystal to ash tuff, generally dark green to black, includes lithic lapilli crystal tuffs.

Stikine Assemblage

MISSISSIPPIAN AND OLDER
4 Undivided metavolcanics and metasediments.
4A Tuff unit: consists of ash tuff, lapilli tuff and tuffaceous siltstone, generally greenish-grey and siliceous, may consist of a crystal hash.
4B Intermediate flows: feldspar-hornblende porphyry andesites, pyroxene-plagioclase porphyritic flows.
4C Argillite, siltstone: strongly laminated, siltstones are blue-grey, argillites are graphitic in places.
4D Greywacke: fine- to medium-grained, thick sequences found within unit 4C, may be volcaniclastic.
4H Silver phyllite and slate.
4I Chlorite-feldspar-quartz schist: locally gneissic.

MINERALS AND ALTERATION TYPES

AS	arsenopyrite	BI	biotite	CA	calcite
CB	Fe-carbonate	CL	chlorite	CP	chalcopyrite
EP	epidote	GL	galena	HE	hematite
H	hornfels	MC	malachite	MG	magnetite
MO	molybdenite	MR	mariposite	PO	pyrrhotite
PY	pyrite	QZ	quartz	SP	sphalerite

Alteration intensity: w -- weak; m -- moderate; s -- strong

SYMBOLS

- Rock outcrop
- Geological boundary (approximate, inferred)
- Fault with dip (approximate, inferred)
- Bedding with dip
- Foliation with dip (known, unknown)
- Dyke with dip and true width in metres
- Vein with dip (inclined, unknown) and true width in metres
- Joint/fracture with dip
- Rock sample (float, grab from outcrop)
- Silt sample
- Field-sieved stream sediment sample
- Soil sample line with 25 metre and 100 metre stations. Results shown for Au ≥5 ppb, Ag ≥0.5 ppm, Cu ≥58 ppm, Pb ≥24 ppm, Zn ≥113 ppm, Mo ≥4 ppm and As ≥42 ppm,.
- Helicopter Pad
- Legal corner post (located)

Geology adapted in part from Doyle (1991), Doyle and Caulfield (1990), Kasper (1990, 1991), Logan et al (1989) and Yamamura and Awmack (1990).

0 100 200 400 600
METRES

1991 ROCK GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
465901	1.51g/t	69.4	214	878	8	6490
465902	<5	1.0	105	10	32	20
465903	<5	<0.2	13	10	76	5
465904	<5	<0.2	311	4	62	100
465910	11.93g/t	76.2	232	904	220	645
465911	10	1.2	267	20	52	50
465912	15	15.2	162	156	16	85
465913	0	0.4	386	14	36	10
465914	<5	<0.2	140	4	28	10
465915	<5	<0.2	21	6	66	145
465916	<5	<0.2	123	10	198	420
465917	1.78g/t	31.4	156	3120	2580	>10000
465922	<5	<0.2	46	4	38	15
465923	<5	<0.2	33	14	54	20
465924	<5	<0.2	17	6	60	15
465930	<5	<0.2	18	28	84	120
465931	<5	0.4	72	22	84	35
465932	30	<0.2	11	10	72	60
508601	<5	<0.2	15	10	112	<5
508602	<5	<0.2	13	2	124	25
508603	<5	<0.2	15	<2	80	5
508604	<5	<0.2	20	<2	86	10
508605	<5	<0.2	34	6	140	<5
508612	<5	<0.2	49	<2	50	10
508613	30	7.2	119	28	422	80
508614	60	<0.2	5	<2	38	<5
508615	<5	<0.2	29	8	82	5
508616	35	<0.2	15	8	100	<5
508622	75	0.2	87	<2	48	10
508623	<5	<0.2	24	<2	74	10
508624	<5	<0.2	21	4	68	<5
508625	<5	<0.2	7	<2	74	<5
508626	<5	<0.2	44	6	80	10
508627	<5	<0.2	38	6	72	<5
508633	<5	<0.2	27	<2	28	10
508634	<5	<0.2	2	4	72	10
508635	<5	<0.2	15	10	132	25
508636	<5	<0.2	121	12	68	30

1990 ROCK GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
484731	770	14.6	76	1050	2680	>10000
484732	165	1.6	40	134	22	360

1989 ROCK GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
172485	135	33.8	53	5700	4602	<5
172486	30	<0.2	8	10	98	5
172487	<5	<0.2	201	16	130	15
172488	235	45	47	1480	88	6135
172490	220	9.2	291	90	138	330
172491	4.32g/t	153.3g/t	64	8482	854	5725
172492	160	6.6	20	378	82	190
172493	130	5.6	773	130	62	600
172494	70	1.8	84	260	232	170
172495	55	17.8	66	4778	572	280
172496	2.19g/t	81.4	166	1.29%	3010	235
463075	2.95g/t	13.6	1.06%	14	620	<5

1991 SILT GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
91BK-13	<5	<0.2	42	18	154	25
91BK-14	<5	<0.2	38	4	96	30
91BK-15	<5	<0.2	48	10	168	55
91BK-16	<5	<0.2	65	6	142	50
91DM-01	<5	<0.2	93	12	114	80
91DM-02	<5	<0.2	62	14	174	70
91DM-03	<5	<0.2	65	4	132	45
91DM-04	<5	<0.2	43	8	198	50
91DM-07	<5	0.4	51	8	108	15

1989 SILT GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
172489	<5	<0.2	107	2	124	110
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

1987 GOVERNMENT SILT SAMPLE ANALYSES (GSC OPEN FILE 1645, 1988a)

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
873007	11	0.1	83	4	68	25
873008	10	0.1	83	2	70	23
873009	6	0.1	43	7	110	9
90th %ile	58	0.6	117	28	220	45
95th %ile	168	1.0	169	48	328	78
99th %ile	493	2.1	372	134	570	310

HOME VENTURES INC.

CUDS 5-8 CLAIMS
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South Half

EQUITY ENGINEERING LTD.

DRAWN: / J.J.E.	MINING DIV.: LIARD		FIGURE 6
N.T.S.: 104B/13E, G/4E	SCALE: 1:5000		
DATE: DECEMBER, 1991	REVISED:		

22,044

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