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GEOLOGICAL AND GEOCHEMICAL REPORT
ON THE
SCUD RIVER PROJECT

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Located in the Galore Creek Area
Liard Mining Division
NTS 104G/4E,5E
57° 15' North Latitude
131° 33' West Longitude

-prepared for-
CONSOLIDATED GOLDWEST RESOURCES LTD

-prepared by-
Katherina V. Ross, Geologist

December, 1989

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

19,516

GEOLOGICAL AND GEOCHEMICAL REPORT ON THE SCUD RIVER PROJECT

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1.0 INTRODUCTION

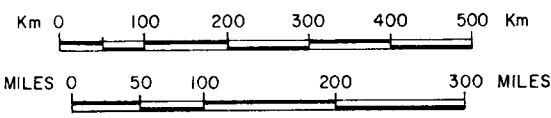
The Scud River Project encompasses the JD I-VI, Bell 1-2, PL 1 and CB I-II claims, which were staked in 1988 and 1989 to cover favorable geology, geochemistry and sulphide-rich float in the Scud River drainage approximately 180 kilometers northwest of Stewart in northwestern British Columbia (Figure 1). Preliminary exploration of the JD I and II claims in 1988 returned highly gold-anomalous rock and stream sediment results. The geological similarity to the Iskut River, Sulphurets and Stewart mining camps to the south and the discovery in recent 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 Scud River property during September and October of 1989. Equity Engineering Ltd. conducted this program for Consolidated Goldwest Resources Ltd. and has been retained to report on the results of the fieldwork.

2.0 LIST OF CLAIMS

Records of the British Columbia Ministry of Energy, Mines and Petroleum Resources indicate that the claims listed in Table 2.0.1, all of which are situated in the Liard Mining Division (Figure 2), are owned by Pass Lake Resources Ltd. Separate documents indicate that these claims are under option to Consolidated Goldwest Resources Ltd.

PROPERTY LOCATION



CONSOLIDATED GOLDWEST RESOURCES LTD.		
SCUD RIVER PROJECT LOCATION MAP		
BRITISH COLUMBIA		
EQUITY ENGINEERING LTD.		
DRAWN: J.W.	MINING DIV. LIARD	FIGURE
N.T.S.: 104G/4E, 5E	SCALE: AS SHOWN	1
DATE: Dec. 1989	REVISED:	

TABLE 2.0.1

CLAIM DATA

<u>Claim Name</u>	<u>Record Number</u>	<u>No. of Units</u>	<u>Record Date</u>	<u>Expiry Year</u>
<u>Scud River North Group</u>				
JD I	4641	20	June 13, 1988	1993*
JD II	4642	20	June 13, 1988	1992*
JD III	5552	20	Dec. 9, 1988	1992*
JD IV	5553	20	Dec. 9, 1988	1992*
<u>Scud River South Group</u>				
JD V	5554	20	Dec. 9, 1988	1991*
JD VI	5555	20	Dec. 9, 1988	1991*
Bell 1	5562	20	Dec. 9, 1988	1991*
Bell 2	5563	20	Dec. 9, 1988	1991*
PL 1	5370	20	Oct. 11, 1988	1991*
<u>Ungrouped</u>				
CB I	6521	20	Oct. 4, 1989	1990
CB II	6522	<u>16</u>	Oct. 5, 1989	1990
		216		

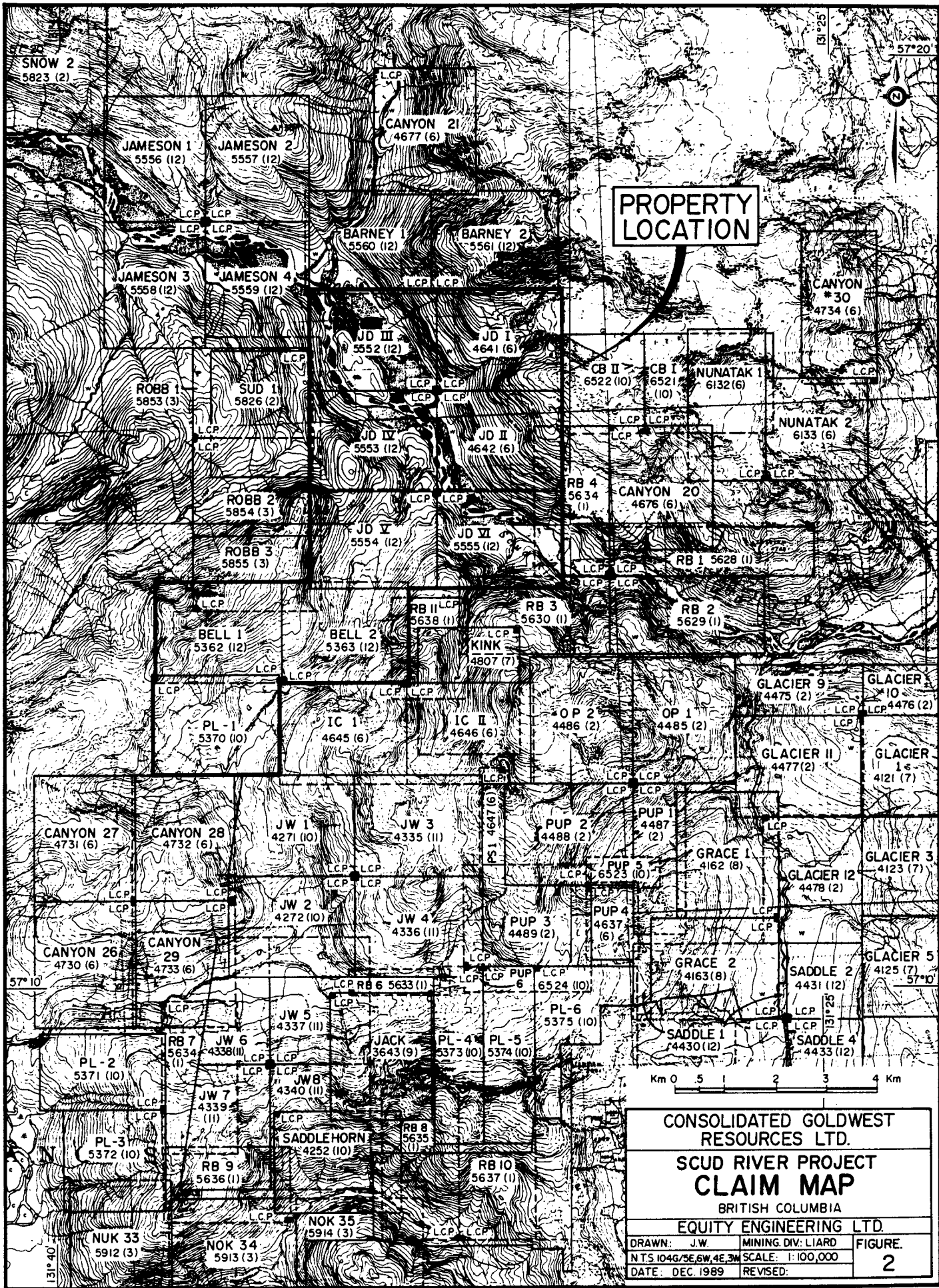
* Subject to approval of assessment work filed in October and December, 1989.

The positions of all legal corner posts for the claims have been verified by Equity Engineering Ltd. personnel.

3.0 LOCATION, ACCESS AND GEOGRAPHY

The JD I-VI, Bell 1-2, CB I-II and PL 1 claims are located within the Coast Range Mountains approximately 180 kilometers northwest of Stewart and 75 kilometers southeast of Telegraph Creek in northwestern British Columbia (Figure 1). They lie within the Liard Mining Division, centered at 57° 15' north latitude and 131° 33' west longitude.

Access to the Scud River property during the 1989 exploration program was provided by daily helicopter setouts from the Galore



**PROPERTY
LOCATION**

**CONSOLIDATED GOLDWEST
RESOURCES LTD.**

**SCUD RIVER PROJECT
CLAIM MAP**

BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

DRAWN: J.W.	MINING DIV. LIARD	FIGURE.
N.T.S. 104G/5E, 6W, 4E, 3W	SCALE: 1:100,000	2
DATE: DEC. 1989	REVISED:	

Creek camp and airstrip, which is located approximately fifteen kilometers to the southeast. During the field season, fixed-wing aircraft fly charters from Smithers to the Galore Creek airstrip direct or via the Bronson airstrip. The Galore Creek airstrip is 425 meters in length, limiting the size of the aircraft that can be safely landed there. During the 1989 season, the Galore Creek camp was serviced by a Turbo Otter, based out of Smithers. The Scud River airstrip, located sixteen kilometers west of the property, is suitable for DC-3 aircraft.

On the Alaskan side of the border, Wrangell lies approximately 100 kilometers to the southwest and provides a full range of services and supplies, including a major commercial airport. The Stikine River has been navigated by 100-ton barges upriver as far as Telegraph Creek, allowing economical transportation of heavy machinery and fuel to within sixteen kilometers of the property. During the 1960's, Kennco constructed a cat road from their Galore Creek copper-gold deposit down the south side of the Scud River to the Scud River airstrip, passing through the JD II, III, IV and VI claims. This cat road has not been maintained and would require some reconstruction before becoming passable.

The JD I to VI claims straddle the Scud River, from fifteen to twenty-two kilometers above its confluence with the Stikine River (Figure 2). The JD I and II claims lie mainly on the north side of the Scud River, covering the lower part of the Rugose Creek drainage, including the toe of the Rugose Glacier, a valley glacier which descends to an elevation of 1100 meters. The CB I and II claims extend east from JD I, covering the upper portions of the Rugose Glacier. The other claims lie mainly on the south side of the Scud River, stretching southwest up the drainage of Contact Creek. Topography is rugged, typical of mountainous and glaciated terrain, with elevations ranging from 200 meters on the Scud River to over 1770 meters on an unnamed peak on the Bell 1 claim.

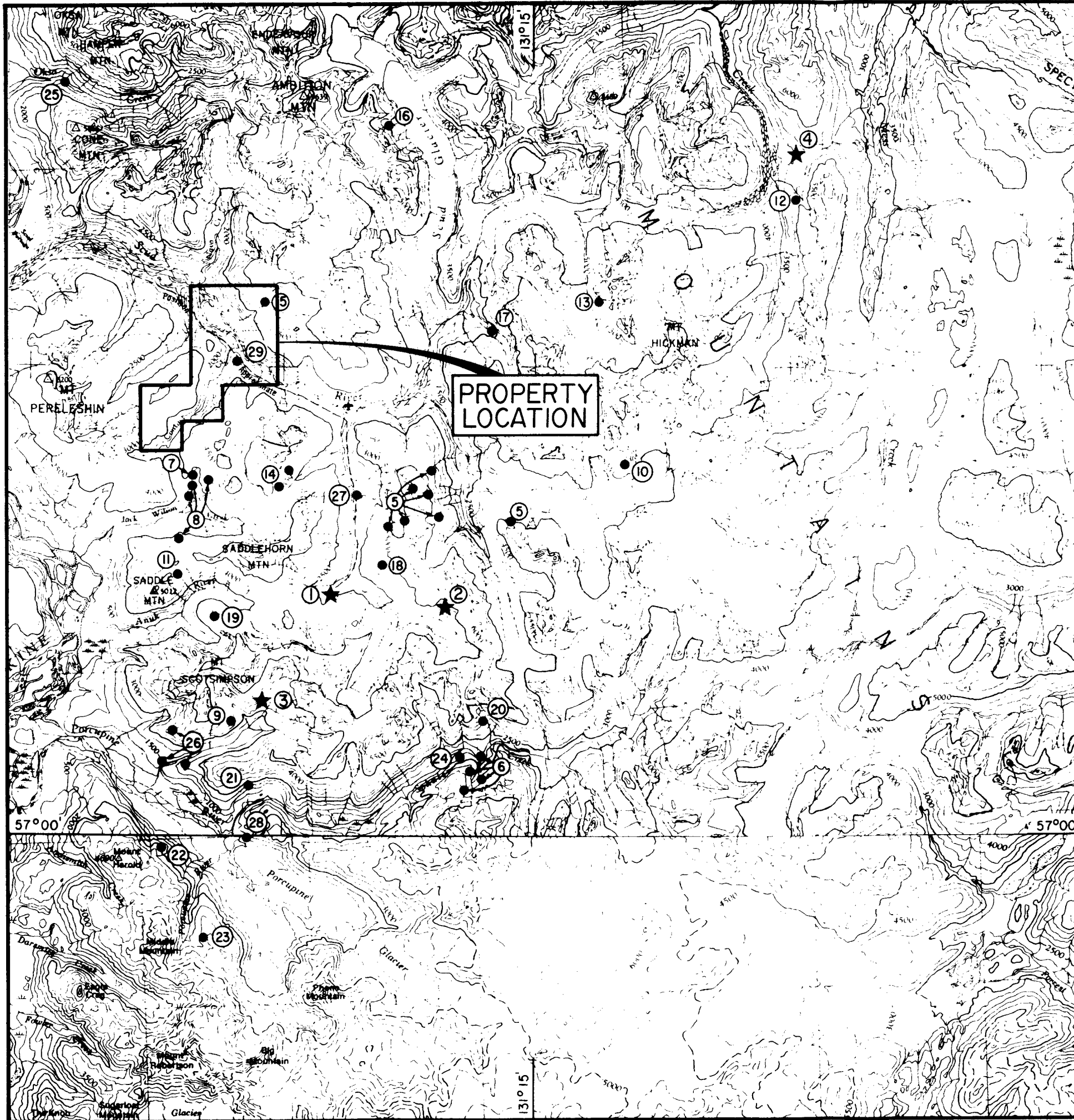
Lower slopes are covered by a mature forest of hemlock, spruce and balsam fir with a dense undergrowth of devil's club, alder and huckleberry. Above treeline, which occurs at approximately 1100 meters, the creek beds and slopes are covered by dense slide alder and willow growth. Steeper slopes are covered by short heather and other alpine vegetation. Northerly-facing slopes are covered with permanent snowfields at higher elevations.

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

4.0 PROPERTY MINING HISTORY

4.1 Previous Work

The Galore Creek district was extensively explored for its copper potential throughout the 1960's (Figure 3), following the discovery in 1955 of the Galore Creek copper-gold porphyry deposit, whose Central Zone hosts reserves of 125 million tonnes grading 1.06% copper and 400 ppb gold (Allen et al, 1976). Several major mining companies conducted regional mapping and silt sampling programs over the entire Galore Creek area, and the Copper Canyon copper-gold porphyry, estimated by Grant (1964) to contain 28 million tonnes at a grade of 0.64% copper, was discovered eight kilometers east of the Central Zone in 1957. Unfortunately, most of the regional data collected at that time was not filed for assessment credit and is not available.



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

- MINERAL OCCURRENCE
- ★ MINERAL DEPOSIT



CONSOLIDATED GOLDWEST RESOURCES LTD.		
SCUD RIVER PROJECT 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. 1989	REVISED:	

In the early 1980's, Teck Corp. conducted regional reconnaissance for gold throughout the area, and delineated 185,000 tonnes of reserves grading 4.11 grams gold per tonne on the Paydirt deposit (Holtby, 1985), which is located approximately twenty kilometers south of the Scud River property. In 1987, several precious metal occurrences were discovered on the Trophy project located approximately seventeen kilometers to the southeast of the property. Continental Gold Corp., which acquired the Trophy project in 1988, reported trench samples averaging 2.40 grams per tonne (0.07 ounces/ton) gold and 164.5 grams per tonne (4.80 ounces/ton) silver across 56.4 meters from their Ptarmigan A zone (Continental, 1988a). During the 1988 field season, Continental drilled 2,834 meters in 16 holes, with intersections up to 11.1 meters grading 5.48 grams gold and 30.2 grams silver per tonne (Continental, 1988b).

Elsewhere in the Galore Creek district, several significant precious metals occurrences were discovered on each of the Trek, ICY and Jack Wilson properties during the 1988 field season (Figure 3). In each case, these properties had been explored for copper during the 1960's, but had never received due attention for their gold potential.

During 1987, the federal and provincial geological surveys conducted a joint regional geochemical survey throughout the Telegraph Creek and Sumdum map sheets. Eight silt samples were taken from streams draining the Scud River property, revealing several gold, silver, copper, lead, zinc and tin anomalies (GSC, 1988).

During September of 1988, Pass Lake Resources Ltd. carried out a limited exploration program of prospecting, stream and soil geochemistry on the JD I and II claims. Three of the four field-sieved stream sediment samples taken from Rugose Creek were highly

anomalous, with 1850, 3720 and 700 parts per billion gold. Five of the twelve rock samples taken from the JD claims returned values in excess of 3000 parts per billion gold (Awmack, 1989). No other work has been recorded on the ground currently covered by the JD I-VI, Bell 1-2, CB I-II or PL-1 claims.

4.2 1989 Work Program

From August to October of 1989, Consolidated Goldwest Resources Ltd. carried out a reconnaissance exploration program on the Scud River property, consisting of geological mapping, prospecting, stream sediment sampling and contour soil sampling. This program was targeted at structurally-controlled precious metal mineralization similar to that found elsewhere in the Galore Creek district and within a similar geological environment which stretches south to the Iskut River, Sulphurets and Stewart mining districts. In particular, it was designed to locate the source of mineralized float found in Rugose Creek and near the toe of the Rugose Glacier in 1988 and investigate the potential of Permian argillites, which had been noted as a possible host for massive sulphide mineralization (Brown and Gunning, 1988a).

During the course of this program, 11 field-sieved stream sediment samples, 22 silt samples, 67 soil samples and 82 rock samples were taken. The field-sieved stream sediment samples were taken from the active parts of major drainages and screened through a ten mesh screen, while unscreened silt samples were taken from minor drainages and back-eddies. Field-sieved stream sediment and silt samples were either screened in the laboratory through a minus thirty five mesh screen and pulverized to minus 150 mesh, or screened through a minus eighty mesh screen and left unpulverized, if there was sufficient fine material. All the sediment samples were analysed geochemically for gold and 32-element ICP.

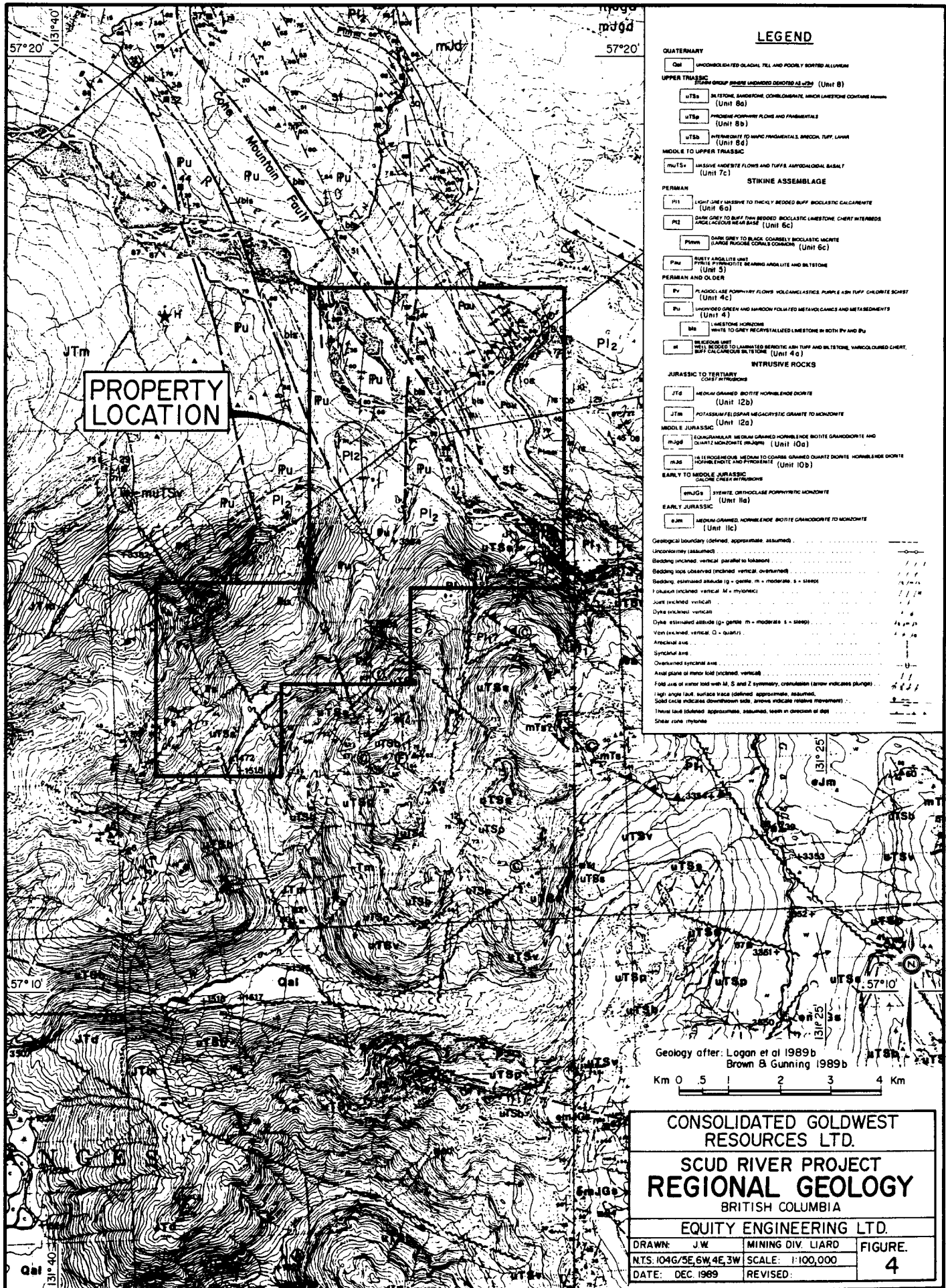
Five contour soil lines were established on the JD I and II claims, with samples taken at twenty-five meter intervals (Figure 5). Wherever possible, soil samples were taken from the red-brown B horizon. Where soil development was poor, talus fines were taken. Samples were sieved to minus 80 mesh in the laboratory and analysed geochemically for gold and 10-element ICP. Contour soil samples taken from the lines on JD I are identified on the analytical certificates in Appendix D by the contour line elevation in feet. Samples taken on JD II are identified by sample numbers 459595-459600 and 463052-463058.

Prospecting and reconnaissance geological mapping were carried out on all claims, using a 1:10,000 topographic map as a base (Figures 5 and 6). Rock samples, described in Appendix C, were taken from zones of alteration and mineralization and analysed geochemically for gold and 10-element ICP. Samples that ran greater than 1000 parts per billion gold, 200 parts per million silver or 10,000 parts per million copper, lead or zinc were assayed. Analytical certificates are attached in Appendix D. Samples from the government regional silt survey and the 1988 exploration program have been included on Figures 5 and 6 for completeness.

The CB I and II claims were staked near the end of the program to the east of the JD I claim to cover the source of mineralized float found at the toe of Rugose Glacier. No subsequent work was performed on these claims.

5.0 REGIONAL GEOLOGY

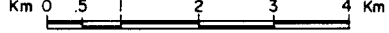
The first geological investigations of the Stikine River in northwestern British Columbia began over a century ago when Russian geologists came to Russian North America assessing the area's



LEGEND

- QUATERNARY**
- Qul UNCONSOLIDATED GLACIAL TILL AND POORLY SORTED ALLUVIUM
- UPPER TRIASSIC**
- UTSs STYRONE, SANDSTONE, CONGLOMERATE, MIRROR LIMESTONE CONTAINS MARINE (Unit 8a)
 - UTSp PROPOSED PORPHYRY FLOWS AND PANMENTALS (Unit 8b)
 - UTSb AFFINITY TO MAPIC FRAGMENTALS, BRONCO TUFF, LAPAR (Unit 8c)
- MIDDLE TO UPPER TRIASSIC**
- UTSv MASSIVE ANDRITE FLOWS AND TUFFS, HYPODOLIC BASALT (Unit 7c)
- STIKINE ASSEMBLAGE**
- PERMIAN**
- PI1 LIGHT GREY LAMINATE TO THICKLY BEDDED BUFF BIOLASTIC CALCARENITE (Unit 6a)
 - PI2 DARK GREY TO BUFF FINE BEDDED BIOLASTIC LIMESTONE, CHERT INTERBEDS, SANDLACIOUS NEAR BASE (Unit 6c)
 - PI6m DARK GREY TO BLACK COARSELY BIOLASTIC LACRITE, LARGE RUGOSE CORALS COMMON (Unit 6c)
 - PI6s SILTY ANGLITE UNIT (Unit 6)
 - PI6t SILTY PORPHYRY BEARING ANGLITE AND SILTSTONE (Unit 5)
- PERMIAN AND OLDER**
- Pv PLAGIOCLASE PORPHYRY FLOWS, VOLCANIC KETTES, PURPLE ASH TUFF, CHLORITE SCHIST (Unit 4c)
 - Pu LAMPYRIFORM GREEN AND BROWN FOLIATED METAVOLCANICS AND META SEDIMENTS (Unit 4f)
 - bl Limestone horizons WHITE TO GREY RECRYSTALLIZED LIMESTONE IN BOTH Pv AND Pu
 - st SILICEOUS UNIT TO LAMINATED BENEDIC ASH TUFF AND SILTSTONE, VARIOUS COLOURED CHERT, BUFF CALCAREOUS SILTSTONE (Unit 4g)
- INTRUSIVE ROCKS**
- JURASSIC TO TERTIARY**
- JTG MEDIUM GRAINED BIOTITE HORNBLENDE DIORITE (Unit 12b)
 - JTm POTASSIUM FELDSPAR MEGACRYSTIC GRANITE TO MONZONITE (Unit 12a)
- MIDDLE JURASSIC**
- JMgd EQUICRYSTALLINE MEDIUM GRAINED HORNBLENDE BIOTITE GRANODIORITE AND QUARTZ MONZONITE (Unit 10a)
 - JMs MEDIUM GRAINED MEDIUM TO COARSE GRAINED QUARTZ DIORITE, HORNBLENDE DIORITE, MONZONITE, AND GNEISS (Unit 10b)
- EARLY TO MIDDLE JURASSIC**
- JMIGs STYRONE, ORTHOCLASE PORPHYRY MONZONITE (Unit 11a)
 - JMl MEDIUM GRAINED, HORNBLENDE BIOTITE GRANODIORITE TO MONZONITE (Unit 11c)
- Geological boundary (defined, approximate, assumed)**
- Unconformity (assumed)
 - Geology unknown, vertical parallel to tabular
 - Bedding top observed (inclined), vertical, overturned
 - Bedding, estimated attitude (g = gneiss, m = moderate, s = steep)
 - Foliation (inclined), vertical, M = mylonitic
 - Joint (inclined), vertical
 - Dike (inclined), vertical
 - Dike (estimated attitude) (g = gneiss, m = moderate, s = steep)
 - Ven (inclined), vertical, Q = quartz
 - Archival axis
 - Synclinal axis
 - Overturned synclinal axis
 - Axial plane of minor fold (inclined), vertical
 - Fold axis of minor fold with M, S and Z symmetry, continuation (arrow indicates plunge)
 - High angle fault, surface trace (defined, approximate, assumed)
 - Solid circles indicate downthrown side, arrows indicate relative movement
 - Trace line (defined, approximate, assumed, shown in direction of dip)
- Scale: none (mylonite)

Geology after: Logan et al 1989b
Brown & Gunning 1989b



CONSOLIDATED GOLDWEST RESOURCES LTD.

SCUD RIVER PROJECT REGIONAL GEOLOGY
BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

DRAWN: J.W.	MINING DIV. LIARD	FIGURE.
NTS: 104G/5E, 6W, 4E, 3W	SCALE: 1:100,000	4
DATE: DEC. 1989	REVISED:	

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

The Galore Creek Camp lies within the Intermontane Belt, a geological and physiographic province of the Canadian Cordillera, and flanks the Coast Plutonic Complex to the west (Figure 4). At Galore Creek, the generally northwest-trending structure of the Intermontane Belt is discordantly cut across by the northeast-trending Stikine Arch which became an important, relatively positive tectonic element in Mesozoic time when it began to influence sedimentation into the Bowser Successor Basin to the southeast and into the Whitehorse Trough to the northwest (Souther et al., 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 (Map Units 4a and 4c) with associated clastic sediments and carbonate lenses (Map Unit 4b). These are capped by up to 700 meters of Mississippian limestone with a diverse fossil fauna (Map Unit 4d). It appears from fossil evidence that all of the Pennsylvanian system is missing and may be represented by an angular unconformity and lacuna of 30 million years, though field relationships are complicated by faulting (Monger, 1977; Logan and Koyanagi, 1989). Permian limestones (Map

Unit 6), also about 700 meters thick, lie upon the Mississippian limestone but are succeeded by a second lacuna amounting to about 20 million years from the Upper Permian to the upper Lower Triassic.

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

The plutonic rocks follow a three-fold division (Logan and Koyanagi, 1989). Middle Triassic to Late Jurassic syenitic and broadly granodioritic intrusions are partly coeval and cogenetic with the Stuhini Group volcanics and include the composite Hickman Batholith (Map Unit 9) and the syenitic porphyries of the Galore Creek Complex (Map Unit 11). Jura-Cretaceous Coast Plutonic Complex intrusions (Map Unit 12) occur on the west side of the Galore Creek Camp, along the Stikine River, with the youngest of these intrusions occupying more axial positions along the trend of the Coast Plutonic Complex flanked by older intrusions. The youngest intrusives in the Galore Creek Camp are Eocene (quartz-) monzonitic plugs (Map Unit 13), felsic and mafic sills and dykes (Map Unit 14), and biotite lamprophyre (minette) dykes (Map Unit 14).

The dominant style of deformation in the Galore Creek area consists of upright north-trending, open to tight folds and northwest-trending, southwest-verging, folding and reverse faulting

in the greenschist facies of regional metamorphism. Localized contact metamorphism ranges as high as pyroxene hornfels grade; metasomatism is also noted near intrusions. Upright folding may be an early manifestation of a progressive deformation which later resulted in southwest-verging structures. Southwest-verging deformation involves the marginal phases of the Hickman Batholith and so is, at least in part, no older than Late Triassic.

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

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

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

Structures associated with the Lower Jurassic syenites are typically narrow (less than 2.0 meters) quartz-chlorite veins mineralized predominately with pyrite, chalcopyrite and magnetite. Examples of these structures in the Galore Creek camp include many of the discrete zones peripheral to the Galore Creek deposit and the gold-rich veins at Jack Wilson Creek. The Tertiary mineralization 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. A number of mineral showings discovered in the Porcupine River area, including the Paydirt deposit, are of this type.

Skarns represent a minor percentage of the precious metal-bearing occurrences in the Galore Creek camp. The mineralogy of these deposits could be influenced by the composition of the

intrusion driving the hydrothermal fluids, in much the same way as described above for the structurally-controlled deposits. If the invading intrusives are alkalic, the skarn assemblage will be dominated by magnetite and chalcopyrite, as at the Galore Creek deposit and the Hummingbird skarn on the east side of the South Scud River.

The breccia hosted 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.

6.0 PROPERTY GEOLOGY AND GEOCHEMISTRY

6.1 Geology

The Scud River property is divided in two by the Cone Mountain Thrust Fault, which follows the northeast bank of the Scud River. To the northeast, Mississippian and older volcanics and sediments are overlain by Permian argillites and limestones which become younger up slope to the north (Figure 5). Southwest of the Scud River, the same units, along with Upper Triassic sediments and Jurassic(?) intrusives, form a fault block mosaic (Figure 6).

Northeast of the Cone Mountain Fault (Figure 5), the oldest rocks are Mississippian and older siliceous tuffs, cherts,

pyroclastics and flows with silicified limestone horizons (Units 4a-d). These units are folded and contorted by a series of northwest trending, southeasterly dipping small scale folds. On the JD III claim, a 500 meter thick wedge of massive, well jointed mafic volcanics (Unit 4c), carrying up to 3% finely disseminated pyrite, lies between massive limestone (Unit 4d) to the north and thick bedded siliciclastics (Unit 4a) to the south. Its north contact is a highly sheared fault contact, marked by a slice of highly foliated graphitic argillite. Foliation planes in the argillite and the volcanics generally strike north-south and dip 70-90° northeast. The southern contact with the siliceous sediments is gradational.

Continuing northeast, the siliceous sediments (Unit 4a) are conformably overlain by basal Permian argillites (Unit 5) at approximately 900 meters elevation (Brown and Gunning, 1989b). A northwesterly striking, northeasterly dipping thrust fault separates the dark grey, pyrite-pyrrhotite bearing, graphitic argillites which occur at the base of the Permian section, from overlying Permian limestones. Two types of Permian limestones occur: a grey to buff coloured crystalline limestone (Unit 6a) and a dark grey, bioclastic limestone (Unit 6c). Large rugosa corals, ten to fifteen centimeters in length, are common in the bioclastic unit. Minor dark grey, fissile argillites are interbedded with both limestones. Bedding attitudes within the limestones strike 320-330° and dip shallowly to the northeast. A ten meter wide gabbroic dyke (Unit 14b) intrudes the Permian limestone. Light grey, felsic dykes (Unit 14e), up to one meter in width, intrude the Permian argillites near Rugose Creek.

The Cone Mountain Fault, a major northwesterly trending, northeasterly dipping thrust fault, parallels the Scud River and separates the geology on the north and south sides of the Scud River. South of the Scud River, the geology is more complex

structurally and lithologically (Figures 5 and 6). A series of north-northwesterly and northeasterly trending faults, which divide the area into a fault block mosaic, have been mapped by Logan and Koyanagi (1989a,b).

Mississippian and older sediments and volcanics (Units 4a-c) are exposed along the Scud River, the lower portion of the Contact Creek drainage and the western edge of the PL-1 and Bell 1 claims. This assemblage comprises laminated argillites, limestones, a carbonate-cemented pebble conglomerate and feldspar-hornblende porphyry andesites (undivided as Unit 4) on the PL-1 and Bell 1 claims, truncated to the northeast by a northwesterly trending fault. Bedding in this area strikes 040-055° and dips vertically. On the JD V and Bell 2 claims, an assemblage of blue-grey siltstones, dark grey argillites, cherts and silicified limestones (Unit 4b) are exposed on the south side of Contact Creek, overlain by massive Permian limestones.

Thick-bedded, medium grey, crystalline Permian limestones (Unit 6a) underlie most of the Bell 1 and 2 claims and large portions of the JD IV and V claims. Bedding strikes northerly and dips 68 to 73° to the east. The limestones are unmineralized, but are intruded by small irregular masses of a pyrrhotite-bearing, highly oxidized intrusive, which forms prominent gossans on the Bell 2 claims. A prominent swarm of barren, pink quartz-carbonate veins occurs near the intrusives, parallel to bedding. The veins pinch and swell, ranging in width from five to fifteen centimeters and are continuous over tens of meters.

Logan and Koyanagi (1989b) have inferred a fault contact between Mississippian sediments and Upper Triassic Stuhini Group rocks north of Contact Creek on the PL-1 claim. The fault trends northeasterly but is progressively offset to the southwest by several north-northwesterly trending faults. In the field it is

difficult to distinguish the Mississippian assemblage from the younger Triassic assemblage, although the older rocks tend to be more intensely deformed. The argillites exposed southeast of the granodiorite body are undeformed and probably belong to the Stuhini Group (Unit 8a), as mapped by Logan and Koyanagi (1989b). These argillites overlie grey, fine-grained siliceous sediments (Unit 8a) which strike 336° and dip 30° to the northeast.

A bedded, pale grey, tuffaceous unit (Unit 8c) is exposed on an isolated knoll at 1000 meters elevation on the PL-1 claim. It appears to have been broken into discrete blocks and rotated prior to lithification. A siliceous, tuffaceous to volcanoclastic rock (Unit 8d) is exposed in the upper reaches of Contact Creek. Folded, black, rusty weathering argillites (Unit 8a) outcrop lower in the creek. Bedding in the Stuhini sedimentary units strikes east-northeast and dips 34 to 60° southeast.

A large hornblende granodiorite body (Unit 11c) intrudes foliated graphitic argillites of Unit 4 on the northwest corner of the PL-1 claim, and smaller exposures trend northeast across the Bell 1 claim. This hornblende granodiorite is the easternmost exposure of a hornblende-biotite granite to quartz monzonite mapped to the west by Logan and Koyanagi (1989b). Porphyritic felsic plugs (Unit 11b) intrude Permian mafic volcanics and laminated sediments on the Bell 1 claim. The pinkish weathering felsic intrusives are composed of two millimeter feldspar phenocrysts within a fine-grained grey-beige matrix.

6.2 Mineralization

Three mineralized quartz veins were found, hosted by three different host rocks. Sample #459343, which assayed 1.58 grams per tonne (0.046 ounces per ton) gold with 6.5 parts per million silver and 787 parts per million copper, was taken from an isolated, 25

centimeter wide quartz-sulphide vein exposed over ten meters along the sheared contact zone between pre-Permian limestones and volcanics on the JD III claim (Figure 5). Veining strikes 275° and dips 70° to the north, cutting the foliation, which strikes 172° with a vertical dip. The vein carries up to 15% blebby pyrrhotite and pyrite in places, although the overall sulphide content is less than 3%.

Sample #447249, which assayed 2.88 grams per tonne (0.084 ounces per ton) gold with low arsenic, copper and zinc values, was taken from an isolated twelve centimeter wide quartz-sulphide vein exposed along twenty meters in the granodiorite body on the PL-1 claim (Figure 6). It strikes 020° and dips 30° to the west, with up to 70% blebby pyrite.

A shear zone on the JD I claims which returned encouraging results of 0.014 and 0.238 ounces per ton gold from the 1988 reconnaissance program was examined this year (Figure 5). The shear zone is one meter in width and approximately 30 meters long, lying along the contact between greywacke and argillite. Mineralization occurs as blebby chalcopyrite and pyrite with minor galena in a four centimeter wide quartz vein in the center of the shear. It was not resampled this year.

Sample #463109, taken from a bleached argillite on the JD V claim (Figure 5), returned 3550 parts per billion gold, without significant silver, copper, lead or zinc values. It was taken from a small, poorly exposed outcrop in a forested area approximately 150 meters southwest of the legal corner post for the JD V and VI claims. The argillite was cherty, very pale grey, weathering white, with no visible sulphide mineralization. The size or potential of this occurrence is not yet clear.

Nine samples of massive sulphide and quartz-sulphide skarn float were taken from the moraine at the toe of Rugose Glacier on the JD I claim and east along the float train on the CB I and II claims (Figure 5). Sulphide-bearing skarn float constitutes five to twenty percent of morrainal material along this float train. These samples contained up to 80% pyrrhotite, pyrite, chalcopyrite, arsenopyrite and/or magnetite in a garnet-actinolite gangue. The relative percentages of each mineral vary markedly from boulder to boulder. A selection of samples was taken to represent the various sulphide assemblages found in float, and significant results are presented in Table 6.2.1.

TABLE 6.2.1
RUGOSE CREEK FLOAT MINERALIZATION

Sample Number	Mineralization	Gold (oz/ton)	Copper (%)	Lead (%)	Zinc (%)
447050	massive magnetite, trace pyrite & chalcopyrite	0.002	0.20	<0.01	0.03
447233	pyrite & chalcopyrite in quartz-carbonate	0.068	1.62	<0.01	<0.01
463651	massive pyrrhotite: chalcopyrite & pyrite 9:1	0.010	0.46	<0.01	0.01
463652	pyrite:arsenopyrite 1:1	0.410	0.09	0.97	0.81
463653	pyrite:chalcopyrite 1:1	0.088	3.28	0.47	0.89
463654	chalcopyrite, garnet	0.005	0.16	0.03	0.05
463655	10% pyrite in argillite	0.004	0.02	<0.01	0.01

7.0 GEOCHEMISTRY

Eight silt samples were taken from streams draining the Scud River property in the course of a 1987 regional geochemical survey conducted by the federal and provincial geological surveys (GSC, 1988). Several of these were anomalous (exceeding the 90th

percentile for all streams sampled in the Telegraph Creek and Sumdum map sheets) to extremely anomalous (exceeding the 99th percentile) in one or more of the base and precious metals. Results are summarized in Table 7.0.1 and will be discussed below, jointly with results of 1989 silt sampling.

TABLE 7.0.1

GOVERNMENT REGIONAL SILT SAMPLING RESULTS

Sample Number	Gold (ppb)	Silver (ppm)	Copper (ppm)	Lead (ppm)	Tin (ppm)	Zinc (ppm)	Arsenic (ppm)
871472	21	0.3*	42	8	2	54	7
871515	1	0.4**	72	11	3	192**	7
873383	7	1.5***	120*	12	7*	436**	18*
873384	2	0.2	44	8	3	71	5
873385	280***	0.6**	272***	29**	8*	120	10
873410	19	0.1	44	8	32***	73	8
873412	108**	0.1	17	7	28***	29	10
873419	13	0.2	51	7	3	78	4

* Indicates sample exceeded the 90th percentile, N=1291

** Indicates sample exceeded the 95th percentile, N=1291

*** Indicates sample exceeded the 99th percentile, N=1291

(GSC Open File 1646, 1988)

During the 1989 field season, 22 silt samples and 11 field-sieved stream sediment samples were collected from the Scud River property. The silt samples are directly comparable to the government results listed above, and anomalous results can be defined in the same way. Field-sieved stream sediment samples, whose geochemical values have been variably enhanced during the sieving process, cannot be directly compared to the silt samples. Table 7.0.2 summarizes anomalous silt samples from the 1989 program.

TABLE 7.0.2

SIGNIFICANT 1989 SILT SAMPLING RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
172377	<5	0.4**	47	<2	294**	10
172379	<5	<0.2	63	<2	196**	<5
172427	15	0.2	161**	6	350**	15
447242	10	0.4**	80	8	286**	20*
459317	5	1.0***	150**	10	490***	25*
459318	<5	0.6**	79	12	244**	145***
459504	25	0.6**	115*	2	478***	35**
459870	210**	<0.2	17	2	34	10
463107	<5	<0.2	155**	6	274**	15
463108	<5	<0.2	442***	6	516***	20*
463202	<5	<0.2	51	4	98	20*
463203	<5	<0.2	12	6	72	25*
463205	130**	<0.2	276***	16*	138*	30**
463552	40*	0.2	62	2	878***	15
463553	<5	<0.2	80	10	268**	5

* Indicates sample exceeded the 90th percentile, N=1291

** Indicates sample exceeded the 95th percentile, N=1291

*** Indicates sample exceeded the 99th percentile, N=1291
(GSC Open File 1646, 1988)

Rugose Creek has returned highly anomalous gold values in silt samples #873412 and #459870 from its mouth, and from several field-sieved stream sediment from its tributaries, without correspondingly high values for silver or any base metals except tin. If the source for the gold anomalies were the sulphide-rich skarn float found near the toe of the Rugose Glacier, the base metal values should be higher.

Silt sample #873385, which returned the highest gold value on the Scud River property, was taken from Creek #20 on the JD VI claim whose drainage lies mostly south and east of the property. Sample #463205, taken at the same location, confirms the anomaly with high gold, copper and arsenic values. Highly anomalous gold values have been reported for field-sieved stream sediment samples from this creek two kilometers upstream from the JD VI claim, suggesting that the anomaly source lies off the Scud River property (Awmack and Yamamura, 1988).

Field-sieved stream sediment sample #172359 was taken from a stream which flows north into Contact Creek from Stuhini Group sediments on the PL-1 claim (Figure 6). It returned 270 parts per billion gold without other anomalous elements. This creek drains 600 meters of the PL-1 claim, but the majority of its basin lies to the south of the Scud River property.

Silt samples #459317 and #459318 were taken from small streams which drain the hornblende granodiorite intrusive on the PL-1 claim. Both were anomalous to extremely anomalous in silver, zinc and arsenic; they could reflect mineralization similar to the gold-arsenic-copper-zinc showing hosted by the granodiorite 450 meters to the northwest.

Several highly anomalous zinc values were returned; generally, these drain Mississippian and older sediments. One exception is provided by silt samples #873383 and #459504, which were taken from a fault-controlled creek which drains Permian limestone and Upper Triassic sediments on the Bell 2 claim. Sample #873383 exceeds the 95th percentile in zinc and antimony and the 99th percentile in silver, molybdenum, barium and cadmium. No source has been found for this multi-element anomaly.

The soil lines established on the JD I and II claims were designed to locate the source of the 1988 stream sediment anomalies. It was thought that mineralization was related to the thrust fault which separates the rusty pyrite-pyrrhotite bearing argillite (Unit 5) from overlying limestones (Unit 6). A contour soil line was established at the 1310 meter elevation (4300 feet) on the northern side of Rugose Creek valley, and run 700 meters to the east. Two contour soil lines were run on the south side of the creek, along the 1230 meter (4050 feet) and 1330 meter (4400 feet) contours. Two short lines were established further south to test the same contact on the JD II claim. A 150 meter line was sampled

at 1000 meters elevation (samples 459595-459600) beneath the contact and a 175 meter line (samples 463052-463058) was run across the contact.

Results from the soil geochemical analyses were generally low for all elements except arsenic and zinc. Only twelve samples contained detectable gold, with a maximum value of 65 parts per billion. Arsenic values generally ranged between ten and twenty parts per million on the northern soil lines, with values up to 95 parts per million on the JD II claim. Zinc values were generally between 80 and 150 parts per million, with a maximum value of 326 parts per million. Silver, copper and lead returned low values, with highs of 1.0, 98 and 25 parts per million respectively. From these results, it is apparent that this thrust contact is unmineralized.

8.0 DISCUSSION AND CONCLUSIONS

Several new gold-bearing occurrences were discovered on the Scud River property during the 1989 exploration program. Of these, the most significant appears to be a silicified, bleached pre-Permian argillite on the JD V claim without sulphide mineralization, which contained 3550 parts per billion gold. The extent and potential of this poorly exposed alteration zone is not yet clear; it may indicate the presence of a larger system. Elsewhere in the Galore Creek camp, similar zones of pervasive silicification and weak gold mineralization are quite extensive and can host discrete gold-rich quartz-sulphide veins.

The source of the gold-bearing sulphide float found in 1988 in Rugose Creek and at the toe of the Rugose Glacier has been traced to skarn mineralization in a gossanous limestone cliff to the east of the JD I claim. Due to steep topography, sampling of

the zone was restricted to a single grab sample of massive magnetite. Judging from the quantity of sulphide-bearing float, this skarn zone may be quite extensive, although highly variable in mineralogy and grade. The CB I and II claims were staked to cover the suspected source at the end of the 1989 field season.

The gold in this sulphide-rich skarn float appears to be preferentially associated with arsenopyrite, and to a lesser extent with chalcopyrite. The high gold values in stream sediment samples from Rugose Creek may be partially due to this skarn mineralization. However, the low base metal values associated with the gold anomalies suggests that there may be another significant bedrock source for the gold within the Rugose Creek drainage, where gold is not associated with base metals. No such source has yet been found.

The Scud River property is largely underlain by Permian and older limestone, clastics and volcanics. Most of the significant precious metal occurrences elsewhere in the Galore Creek camp are hosted by Upper Triassic Stuhini Group volcanics, which are absent on the property. This cannot be considered as favorable for the potential of the property. However, the discovery of potentially extensive gold-bearing skarn mineralization at the head of the Rugose Glacier, scattered gold occurrences within intrusive and pre-Permian stratified rocks and favorable stream sediment geochemistry which has not yet been adequately explained provide abundant justification for further work.

Respectfully submitted,
EQUITY ENGINEERING LTD.


Katherina V. Ross, Geologist.

Vancouver, British Columbia
December, 1989

APPENDIX A

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BIBLIOGRAPHY

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APPENDIX B

STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES
SCUD RIVER SOUTH CLAIM GROUP

PROFESSIONAL FEES AND WAGES:

Jim Lehtinen, Project Geologist	\$	300.00	
0.75 days @ \$400/day			
Katherina Ross, Geologist			2,187.50
6.25 days @ \$350/day			
Tom Bell, Prospector			
1.0 days @ \$300/day		300.00	
Bruce Holden, Prospector			
2.0 days @ \$300/day		600.00	
David Ridley, Prospector			
3.25 days @ \$300/day		975.00	
Cathy Ridley, Prospector			
2.0 days @ \$300/day		600.00	
David Hicks, Sampler			
2.0 days @ \$200/day		400.00	
Dan Cosgrove, Sampler			
1.0 days @ \$200/day		200.00	
Derek Roulston, Sampler			
2.0 days @ \$200/day		<u>400.00</u>	
	\$		5,962.50

EQUIPMENT RENTALS:

Handheld Radios			
13 @ \$5			65.00

JOINT MOBILIZATION, SUPERVISION AND SUPPORT COSTS:

Prorated in accordance with number of mandays worked on each of several claim groups in the Galore Creek area			4,685.32
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CHEMICAL ANALYSES:

Silt Samples			
29 @ \$15.69	\$	455.01	
Rock Geochemical Samples			
43 @ \$18.25		<u>784.75</u>	
			1,239.76

EXPENSES:

Materials and Supplies	\$	289.18	
Maps and Publications		2.17	
Orthophoto Construction		2,850.38	
Printing and Reproductions		536.61	
Accommodation and Meals		2,520.30	
Helicopter Charters		2,809.96	
Telephone Distance Charges		7.15	
Freight		<u>21.04</u>	
			9,036.79

REPORT PREPARATION:

(Estimated)			<u>1,000.00</u>
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\$ 21,989.37

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STATEMENT OF EXPENDITURES
SCUD RIVER NORTH CLAIM GROUP

PROFESSIONAL FEES AND WAGES:

Jim Lehtinen, Project Geologist		
1.75 days @ \$400/day	\$	700.00
Katherina Ross, Geologist		
5.25 days @ \$350/day		1,837.50
Tom Bell, Prospector		
2.0 days @ \$300/day		600.00
Bruce Holden, Prospector		
2.0 days @ \$300/day		600.00
David Ridley, Prospector		
2.25 days @ \$300/day		675.00
David Hicks, Sampler		
4.0 days @ \$200/day		800.00
Derek Roulston, Sampler		
1.0 days @ \$200/day		<u>200.00</u>
	\$	5,412.50

EQUIPMENT RENTALS:

Handheld Radios		
13 @ \$5		65.00

JOINT MOBILIZATION, SUPERVISION AND SUPPORT COSTS:
Prorated in accordance with number of mandays
worked on each of several claim groups in the
Galore Creek area

4,222.57

CHEMICAL ANALYSES:

Silt Samples		
5 @ \$15.69	\$	78.45
Soil Samples		
69 @ \$15.50		1,069.50
Rock Geochemical Samples		
32 @ \$18.25		<u>584.00</u>
		1,731.95

EXPENSES:

Materials and Supplies	\$	260.61
Maps and Publications		1.95
Orthophoto Construction		2,568.87
Printing and Reproductions		483.61
Accomodation and Meals		2,271.38
Helicopter Charters		2,532.44
Telephone Distance Charges		6.45
Freight		<u>18.96</u>
		8,144.27

REPORT PREPARATION:
(Estimated)

1,000.00

\$ 20,576.29

=====

APPENDIX C

ROCK DESCRIPTIONS

Sampler Bruce Holden
Date Sept 3

Project KGG-89-07
Property JDI-VI

Location Ref _____
Air Photo No _____

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Rock Type	Alteration	Mineralization		Au Ppt	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
447233	6352700N 342150E	Float		Quartz Carbonate	Malachite	PY, CP	elev. 1327, silicified carbonate bright green malachite staining	0.068 021T	16.5	1.622	10	492	16
447234	6352900N 342230E	Float		Altered Rock		PY, CP MG	elev. 1350m, very dense, highly magnetic	530	5.5	7250	15	284	11
447235	6344957N 344080E	Grab O.C.		Limestone	SI	PY	elev. 1337m, euhedral pyrite, up to 3cm, strike bedding 180°	25	<0.5	377	5	168	12
447236	6352000N 342230E	Float		Carbonate vein	CB	PY-minor	elev. 1421m, vein in grey limestone, euhedral pyrite	15	<0.5	43	<5	46	7
447237	6352810N 344130E	Float		Carbonate	minor Malachite	PY-minor	elev. 1574, very minor malachite, sample probably proximal to source	10	<0.5	202	<5	34	10
447238	6347940N 343740E	Grab O.C.		Quartz vein	SI, CB	PY-minor	elev. 1252m altered zone, 25m wide striking 160°/90°	5	<0.5	12	<5	26	7
447239	6346610N 344430E	Grab O.C.		Limestone	CB	PY-1%	elev. 775, argillite/sediment contact disseminated pyrite	<5	<0.5	31	5	82	9
447240	6346740N 343440E	Grab O.C.		Argillite	CB	PY-2%	elev. 660m, pyritized zone, continues down creek canyon	<5	0.5	44	5	24	10
447241	6346920N 344270E	Silt						5	-	-	-	-	-
447242	6347400N 344140E	Silt						10	-	-	-	-	-
447243	6350100N 344040E	Grab O.C.		Argillite	SI, minor CB	PY-3%	elev. 409m, highly silicified, pyrite disseminated + blebby	<5	1.0	6	<5	8	19
447244	6350700N 344050E	Grab O.C.		Quartz vein	SI	PY-2%	elev. 235m, host rock silicified argillite disseminated pyrite in vein + host	10	1.0	48	<5	64	9
447245	6350500N 344050E	Grab O.C.		Graphitic Argillite		PY-4%	elev. 200m, foliated	15	3.0	180	15	192	43

Sampler Derek Rowston

Project KGG89-07

Location Ref _____

Date Sept 11, 1989

Property SCUD RIVER

Air Photo No _____

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Rock Type	Alteration	Mineralization		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
459854	6346000 N 343110 E	GRAB O/C	2m 2	LIMESTONE	OXIDIZED	Py >> CP	minor py, c.p. in limestone over 2m width	<5	0.5	13	5	46	9
855	6346010 N 343120 E	GRAB O/C	15cm	DIORITE	SL	Py	py 21% in intrusion altered (mst. wall) rock, oxidized		<0.5	63	<5	58	1
856	6346130 N 343440 E	GRAB O/C	2m	LIMESTONE	SI, CB	Py, CP	sulphides 3% over 2m width, silica altered.			53	<5	39	1
857	6347480 N 345400 E	GRAB O/C	1m	qtz		Py, CP				123	5	200	14
858	6347160 N 345120 E	GRAB O/C	1m	ARGILITE	SI	Py	Py veins in argillite, 2mm wide over 2m width of O/C			80	45	136	1
859	6347480 N 345510 E	GRAB O/C	3m	qtz		Py, CP	WELL CRYSTALLIZED Qtz veins	↓	↓	63	<5	62	12
J. Lehmann								0.2/1		%	%	%	
447050	N 6,350,930 E 352,150	Grab O/C		Magnetite Skarn		massive magnetite Trace pyrite, chalcopyrite	- Skarn zone in limestone - massive magnetite + sulphides	0.002		0.20	<0.01	0.03	
463651	N E	Float		Skarn		Sulphides 80% Pyrrhotite 90% CCP, py 10%	- Crude banding	0.010		0.45	<0.01	0.01	
463652	N E	Float		Skarn		sulphides 25% Pyrite: Arsenopyrite 50:50	- Trace galena + sphalerite	0.410		0.09	0.07	0.81	
463653	N E	Float		Skarn		sulphides 25% Py:CCP 1:1	silica and chlorite matrix sulphides as fracture fill.	0.088		3.28	0.47	1.20	
463654	N E	Float		Skarn	Garnet	chalcopyrite	Garnet skarn	0.025		0.10	0.02	0.02	
463655	N 6,352,700 E 352,620	Grab O/C		Argillite	silicification	pyrite 10%	- disseminated sulphides (py)	0.004		0.02	<0.01	0.01	

Sampler Kika Ross
Date Sept 17/89
Sept. 21/89

Project KG-89-07
Property JD I-VI (SCUD RIVER PROJECT)

Location Ref _____
Air Photo No _____

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width	True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
					Rock Type	Alteration	Mineralization		Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
459346	6350570 N 346720 E	Grab O.C.	1m		Silicified Limestone	SI	-	elev. 230m, fine grained, dark grey, siliceous, quartz stockwork - barren	15	<0.5	3	5	12	1
459347	6351340 N 346450 E	Grab O.C.	1m		Schist	SI, CB	Pt- minor	elev. 360m, foliated unit in undeformed silicified limestones, foliation 350°/60°	<5	<0.5	28	<5	28	15
459348	6351640 N 346290 E	Grab O.C.	1m		Chert	SI	-	elev. 360, dark grey, barren quartz vein	<5	<0.5	5	25	32	3
463106	6347670 N 346380 E	Grab O.C.	2m	?	Chert	SI	-	elev. 560m, weak foliation 42°/52° mottled dark + light grey	10	0.5	189	<5	34	11
463107	6347700 N 346460 E	Silt						See Silt Sheet						
463108	6347800 N 346470 E	Silt						See Silt Sheet						
463109	6348460 N 346440 E	Grab O.C.	0.5m	2m	Argillite		-	elev. 300 m, pale grey - weathers white	3550	0.5	98	5	36	1
463128	6346280 N 343450 E	Silt						See Silt Sheet	-	-	-	-	-	-
463129	6346800 N 343500 E	Grab O.C.	2m	15cm	Quartz Vein	SI	-	elev 1100m, pinkish veins 5-15cm in limestone near intrusive, strike 30°/60°	70	<0.5	38	<5	14	2
463130	6346900 N 343510 E	Float			Altered Intrusive	Oxidized	Pt - 1%	elev. 1140m, highly oxidized grano- diorite, irregularly intruded in limestone	20	1.0	120	5	20	4
463131	6346660 N 343130 E	Grab O.C.	1m	-	Altered Intrusive	Oxidized	Pt 1%	elev. 1220 m, same as 463130	<5	<0.5	25	<5	42	4

NTS 104G/4E

Sampler David Raley

Project KEG-89-07

Location Ref _____

Date Sept 11/89

Property JDI-VI, BELL 1+2, PL 1

Air Photo No _____

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Rock Type	Alteration	Mineralization		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
459569	6345850 N 342900 E	Gravel O.C.	0.5m	Mafic Dyke	CL, CB	-	lev. 1000m, grey green striking 140°/-50°NE, no visible sulphides	<5	<0.5	22	<5	52	1
459570	6346000 N 342740 E	Gravel O.C.	1.0m	Granodiorite	Piotite	-	elev 1090m, 40% biotite, cut by previous dyke, intrudes limestone	30		11	5	76	3
459571	6345780 N 342250 E	Float	-	Altered Sediments	SI	Py-1%	elev. 1115m, gossan on limestone	25		110	<5	174	11
459572	6346070 N 342320 E	Gravel O.C.	1.0m 22cm dia	Granite	CALC-ILLITE	Py-2%	elev 1237m, near contact with granor- diorite, 3 thin zones, quartz	<5		57	5	112	9
459573	6346050 N 342270 E	Gravel O.C.	1.0m	Granite	" "	Py-3%	elev. 1240 m, 70m west of #572	50		79	30	138	4
459574	6346040 N 342240 E	Gravel O.C.	1.0m	Granite	" "	Py-2-3%	elev 1240m, 70m west of #573,	<5		56	5	96	1
459575	6345790 N 342710 E	Gravel O.C.	1.0m	Granite	Biotite, Oxidized	Py-trace	elev 1005m, rust. weathering probably continuation of #570	<5		3	<5	34	2
459576	6346110 N 342350 E	Gravel O.C.	1.0m 2.5m	Altered sediment	CB	Py-1%	elev. 584 m, interbedded with amphibole, quartzites, trending 90°	<5	↓	14	5	72	5
459589	6349500 N 348300 E	Float	-	Arenite	CB	Py- minor	elev. 1030m, talus, below a small gossan	<5	<0.5	4	<5	18	2
463051	6349580 N 348300 E	Float	?	Arenite	CB, SI	Py-1%	elev. 1030m, talus, carbonate veining, qtz. lenses 2x10mm	<5	<0.5	6	7	<5	2

Sampler Kika Ross

Project KGG-89-07

Location Ref _____

Date Sept 3 / 89

Property JD I - VI, Bell 1 & 2, PL-1
(SCUD RIVER PROJECT)

Air Photo No _____

Sept 11 / 89

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Rock Type	Alteration	Mineralization		Au Ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
459302	6352480 N 347860 E	Grab O.C.	1m	Siltstone	CB	Py - 1%	elev. 1450m, siltstone/limestone contact, host rock weathers to a silty silt	10	<0.5	10	<5	46	10
459303	6352470 N 347690 E	Grab O.C.	1m	Siltstone	CB	Py 1%	elev. 1420m, dark grey, barren qtz-carb veins cut rock randomly	15	<0.5	1	1	4	12
459304	6352470 N 347590 E	Grab O.C.	1m 6m	Argillite	SI	Py 1%	elev. 1400m, silicified zone, bleached to a pale grey - prob equivalent to previous samples	5	<0.5	26	1	92	10
459305	6351710 N 348520 E	Grab O.C.	2m	Quartz-carb Vein in Argillite	CB, QZ	Py, CP	elev. 1060m, stringers in argillite, both host & vein contain blebby sulphide	<5	<0.5	19	1	62	19
459306	6351670 N 348440 E	Grab O.C.	20cm	Dyke		Py - 5%	elev. 1430m, fine grained, pale grey/matte pyrite in fills fractures,	<5	1.5	9	1	76	10
459307	6351800 N 348440 E	Grab O.C.	0.5m	Cherty Sediment	FE	Py 2%	elev. 1110m, grey, aphanitic, strongly magnetic, widespread Fe stain on surface	<5	<0.5	17	5	84	9
459317	6344560 N 341640 E	Silt					See Silt sheet	-	-	-	-	-	-
459318	6344540 N 341540 E	Silt					See Silt sheet	-	-	-	-	-	-
459319	6344920 N 341500 E	Grab O.C.	1.0m	Argillite	Oxidized	Py - 1%	elev. 1025, black-rusty weathering, bedding strikes 174°/-80°W	10	1.5	118	10	168	4
459320	6344280 N 341230 E	Grab O.C.	1.0m	Argillite	SI	Py - 1%	elev. 980, silicified laminated argillite bedding strikes 176°/-66°E	115	<0.5	45	<5	66	2
459321	6343880 N 342540 E	Grab O.C.	1.0m	Altered Sediment	SI	Py - 2%	elev. 560m, pyrite disseminated and massive in fractures	<5	<0.5	45	5	78	3
459322	6343910 N 342670 E	Grab O.C.	0.5m	Graphitic Argillite	CB	Py - trace	elev. 560m, bedding 62°/-34°SE	<5	<0.5	51	<5	570	6
459323	6343220 N 341800 E	Grab O.C.	5cm	Lapilli Tuff	QZ-CB	PO - 15%	elev. 620m, high grade quartz-pyrite vein	<5	<0.5	239	25	64	1
459324	6343220 N 341800 E	Grab O.C.	0.5m ?	Lapilli Tuff	CB	-	elev. 620m, tuff without veining	<5	<0.5	54	3	76	2
459325	6343180 N 341740 E	Grab O.C.	0.5m	Lapilli Tuff	CB	Py - 1%	elev. 620m, tuff with disseminated pyrite	<5	<0.5	77	<5	60	6
459341	6352580 N 345770 E	Grab O.C.	2m ?	Mafic Volcanic	CB, CL	Py 2%	elev. 420m, right at limestone/volcanic contact, disseminated pyrite	<5	<0.5	72	<5	66	5
459342	6352540 N 345770 E	Grab O.C.	1.5m 2m	Schist	CB, SI	Py - 2%	elev. 400m, quartz stringers with pyrite	<5	<0.5	171	5	50	9
459343	6352500 N 345760 E	Grab O.C.	1m 25cm	Quartz Vein	SI	PO > Py 15%	elev. 365m, in mafic volcanics, strike 275°/-70°N, massive sulphides	1320	6.5	787	<5	18	2
459344	6352330 N 345760 E	Grab O.C.	1m	Schist	CB, SI	Py - 2%	elev. 290m, pyrite in foliations striking 338°/70°	<5	<0.5	188	<5	44	1
459345	6352050 N 345940 E	Grab O.C.	2m	mafic Volcanic	SI	Py - 3%	elev. 260m, very fine grained with disseminated pyrite and tiny veinlets	<5	<0.5	150	25	24	4

Sampler Bruce Holder

Project KGG - 89 - 07

Location Ref _____

Date Sept 1989

Property Bell 1+2, PL-1

Air Photo No _____

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Rock Type	Alteration	Mineralization		Au ppb	As ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm
447246	341040 E 6345220N	Grab/oc		Altered argillite	Ox	Py-50%	1372 m. elev pyrite pods on argillite/intrusive contact; nonmagnetic	25	2.5	383	5	82	33
447247	341140 E 6345180N	Grab/oc		Quartz-carb vein	silica	Py-minor	1300m elev host rock sediment with disseminated pyrite	<5	<0.5	33	10	50	120
447248	341060 E 6345000N	Grab/oc		Altered Sediment	Ox	Py, Cp -60%	1300m elev massive sulphide pod, 2x3m in area, highly oxidized	<5	1.0	165	10	64	10
447249	341320 E 6344860N	Grab/oc	12cm	Quartz vein	silica	Py-70%	1084m. elev. vein in granodiorite intrusion, massive pyrite 020°/30°	2480	1.5	211	30	204	110
447250	341500 E 6345000N	Grab/oc		Quartz vein	silica	Py-20%	1084m. elev. gossanous sediment host; massive pyrite; silicified zone	10	<0.5	56	5	36	10
459501	341680 E 6345020N	Grab/oc		Argillite	silica	Py-15%	1050m. elev. silicified rock with finely disseminated pyrite	<5	<0.5	36	15	66	20
459502	343840 E 6344650N	Float		Quartz	silica	Py-1%	600m elev host-graphitic argillites, base of cliffs	<5	<0.5	68	<5	2350	15
459503	344070 E 6344770N	Grab/oc		Limestone	silica	Py-2%	671m elev. white limestone with pyrite stringers	<5	2.5	6	<5	32	9
459504	345110 E 6345860N	Silt		See Silt Sheet				25	-	-	-	-	-
459505	345080 E 6345880N	Float		Quartz vein	silica	Py-minor	610m. elev. creek bed in canyon	<5	<0.5	26	<5	16	7
Tom Bell				Bell 1+2, PL1									
172425	345400 E 6345240N	Float		Calcite + quartz vein	CB, Ox	Py-2%	1090m. elev. talus, bladed	<5	0.5	42	<5	10	7
172426	345230 E 6344830N	Float		Altered Sediment	Qtz, chl, LI	Py-3%	1160m. elev. talus, quartz vein in sediments, highly altered	<5	0.5	106	5	60	9
172427	344430 E 6344480N	Silt		See Silt Sheet				-					

Sampler Tom BELL

Project KGG-89-07

Location Ref _____

Date Sept 3+4, 1989

Property SCUD RIVER PROJECT

Air Photo No _____

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Rock Type	Alteration	Mineralization		Au PPb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
172421	348640 E 6351970 N	Grab/oc	50cm	Altered Seds	CB, LI	PY, PO	1175m. elev. toe of glacier, 50cm shear zone, 135°/vertical	<5	<0.5	31	<5	28	11
172422	348660 E 6351990 N	Grab/oc		Altered Seds	CB	minor PY CP	1185m elev; 10-20cm. shear zone; 160°/30°NE.	<5		21	5	56	22
172423	347950 E 6351225 N	Float		Altered Seds	OX	PY >> CP > PO	950m. elev; massive sulphides magnetic	30		3190	5	60	17
172424	347760 E 6351280 N	Grab/oc	10m 10cm	Calcite vein	CB	PY-3%	860m elev.; host-dark siltstone argillitic. vein strikes 145°/dip vertical	5	↓	55	5	194	6
Jim Lehtinen: Sept. 29/89				Scud R.									
447030	348440 E 6351800 N	Grab/oc	1.0m 50m	Sediments		pyrrhotite	1115m elev. Grab over 1.0m of 5.0m. width; rusty zone	5	0.5	21	5	130	2
447031	348780 E 6351750 N	Float		Quartz/Sulphides		PY; p; jcp galena sphalerite	1180m elev. - possibly skarn mineralization - potassium altered rxw/cep	445	13.5	8420	5	202	14
Catherine Ridley: Sept. 17/89				JDI-VI									
459829	344490 E 6348400 N	Grab/oc		Limestone	SI	PY-minor	830m elev.; E side of saddle yellow coating on rock	<5	<0.5	10	<5	8	5
459830	344650 E 6348340 N	Grab/oc	15x20m	mafic intrusive	SI	PY-190	845m elev. W side of saddle; fine grained, dk grey, jointing 100%	<5	<0.5	56	<5	116	2
459831	344700 E 6348250 N	Grab/oc	30cm	Graphitic argillite	SI	PY-trace	780m. elev; barren qtz. stockwork foliated	<5	0.5	5	5	12	5
459832	344890 E 6348060 N	Grab/oc	30m	Phyllite	SI	PY-trace	625m elev.; shear zone; rusty weathering; crosses small creek	<5	0.5	37	<5	64	3
459833	344900 E 6348020 N	Grab/oc	25cm	Quartz vein	SI	PY-trace	625m elev.; vein in shear, exposed for 6m. hosted in graphitic phyllite	<5	0.5	16	5	168	6
459828	344470 E 6348480 N	Grab/oc	2	chert	SI CB	PY-trace	830m elev near contact w/ argillite	<5	<0.5	22	5	28	10

APPENDIX D

CERTIFICATES OF ANALYSIS



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers
 213 BROOKSBANK AVE. NORTH VANCOUVER,
 BRITISH COLUMBIA, CANADA V7J-2C1
 PHONE (604) 984-0221

To: CHEMEX EXPLORATIONS LTD.

808 W. HASTINGS ST., 10TH FLOOR
 VANCOUVER, BC
 V6C 2X6

Project: SCUD RIVER
 Comments: ATTN: JIM FOSTER EQUITY ENGINEERING

* Page No.
 Tot. Page.
 Date : 29-SEP-89
 Invoice # : I-8925768
 P.O. # : KGG89-07

CERTIFICATE OF ANALYSIS A8925768

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	As ppm	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mb ppm	Ni ppm	Pb ppm	Zn ppm			
172421	205 298	< 5	11	< 0.5	14	31	3.65	280	< 5	40	< 5	28			
172422	205 298	< 5	22	< 0.5	16	21	3.06	220	< 1	27	< 5	56			
172423	205 298	30	17	< 0.5	32	3190	>15.00	1040	< 1	< 1	< 5	60			
172424	205 298	5	6	< 0.5	8	55	3.40	985	< 1	42	< 5	194			
447233	205 298	2500	16	16.5	34	>10000	3.72	415	9	33	10	492			
447234	205 298	530	11	5.5	45	7250	>15.00	660	< 1	9	15	284			
447235	205 298	25	12	< 0.5	31	377	10.95	540	< 1	4	< 5	168			
447236	205 298	15	7	< 0.5	2	43	0.90	165	< 1	4	< 5	46			
447237	205 298	10	10	< 0.5	< 1	252	0.89	195	< 1	4	< 5	34			
447238	205 298	5	7	< 0.5	< 1	12	1.01	485	1	8	< 5	26			
447239	205 298	< 5	9	< 0.5	6	31	2.39	395	< 1	7	< 5	82			
447240	205 298	< 5	10	0.5	10	44	3.52	80	< 1	3	< 5	24			
447243	205 298	< 5	19	1.0	1	6	0.50	35	< 1	4	< 5	8			
447244	205 298	10	9	1.0	5	48	2.14	235	< 1	6	< 5	64			
447245	205 298	15	43	3.0	29	180	6.98	165	37	45	15	192			
459302	205 298	10	10	< 0.5	4	10	1.33	380	< 1	10	< 5	46			
459303	205 298	15	12	< 0.5	1	1	0.20	40	< 1	2	< 5	4			
459304	205 298	< 5	10	< 0.5	7	26	2.56	350	< 1	18	< 5	92			
459305	205 298	< 5	19	< 0.5	7	19	2.61	565	< 1	36	< 5	62			
459306	205 298	< 5	10	1.5	8	9	2.52	135	< 1	15	< 5	76			
459307	205 298	< 5	9	< 0.5	6	17	2.10	185	< 1	37	5	84			

OCT - 4 1989

CERTIFICATION : *Hart Bichter*



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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

PHONE (604) 984-0221

To: ME EXPLORATIONS LTD.

808 W. HASTINGS ST., 10TH FLOOR
VANCOUVER, BC
V6C 2X6

Project: SCRD RIVER
Comments: ATTN: JIM FOSTER ✓ EQUITY ENGINEERING

Page No. _____
Tot. Pages: 2
Date: 2-OCT-89
Invoice #: I-8925771
P.O. #: KGG89-07

CERTIFICATE OF ANALYSIS A8925771

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	As ppm	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mb ppm	Ni ppm	Pb ppm	Zn ppm				
1230 L4050 000M	201	298	< 5	15	< 0.5		9	6	5.79	800	6	18	5	80			
L4050 025M	201	298	< 5	16	< 0.5		3	5	5.57	140	7	11	15	84			
L4050 050M	201	298	< 5	15	< 0.5		7	14	4.29	715	1	30	5	326			
L4050 075M	201	298	25	24	< 0.5		3	9	4.36	190	5	17	5	88			
L4050 100M	201	298	< 5	27	< 0.5		6	17	3.04	790	2	26	10	112			
L4050 125M	201	298	< 5	16	< 0.5		4	15	2.79	205	2	12	5	72			
L4050 150M	201	298	< 5	16	< 0.5		4	7	3.91	325	3	6	10	82			
L4050 175M	201	298	< 5	22	< 0.5		5	9	4.03	725	3	15	5	110			
L4050 200M	201	298	< 5	15	< 0.5		7	14	3.35	645	1	24	< 5	194			
L4050 225M	201	298	< 5	16	< 0.5		3	4	2.54	240	1	10	10	102			
L4050 250M	201	298	< 5	16	< 0.5		6	12	4.19	320	< 1	15	10	114			
L4050 275M	201	298	40	29	< 0.5		7	25	3.15	705	2	29	10	120			
L4050 300M	201	298	20	29	< 0.5		13	38	3.92	1300	1	39	20	168			
L4050 325M	201	298	< 5	24	< 0.5		10	18	3.69	625	5	40	5	130			
L4050 350M	201	298	10	33	< 0.5		13	21	4.53	1010	3	53	15	236			
L4050 400M	201	298	< 5	25	< 0.5		13	25	4.13	1105	5	76	10	230			
L4050 425M	201	298	< 5	25	< 0.5		11	15	4.17	415	6	89	5	220			
1310 L4300 000M	201	298	< 5	17	< 0.5		8	24	3.25	4640	1	52	25	154			
L4300 025M	201	298	< 5	11	< 0.5		9	15	2.96	910	2	13	10	102			
L4300 050M	201	298	< 5	15	< 0.5		7	13	5.49	655	3	20	10	144			
L4300 075M	201	298	< 5	15	< 0.5		8	11	3.59	400	< 1	26	< 5	120			
L4300 100M	201	298	< 5	12	< 0.5		5	5	3.12	130	< 1	18	< 5	94			
L4300 125M	201	298	< 5	11	< 0.5		2	3	3.36	100	< 1	9	< 5	72			
L4300 150M	201	298	< 5	11	< 0.5		7	5	3.37	335	2	16	< 5	94			
L4300 175M	201	298	< 5	12	< 0.5		6	5	2.66	545	1	16	< 5	96			
L4300 200M	201	298	< 5	17	< 0.5		6	5	4.82	305	< 1	13	< 5	106			
L4300 225M	201	298	< 5	17	< 0.5		8	7	3.51	1630	4	19	< 5	90			
L4300 250M	201	298	< 5	22	< 0.5		11	15	3.98	1145	1	31	< 5	162			
L4300 275M	201	298	< 5	20	< 0.5		10	11	4.40	500	2	24	< 5	140			
L4300 300M	201	298	< 5	22	< 0.5		10	14	4.02	890	1	24	< 5	110			
L4300 325M	201	298	< 5	15	< 0.5		8	13	3.76	940	< 1	25	< 5	136			
L4300 350M	201	298	< 5	19	< 0.5		9	18	3.50	545	< 1	33	< 5	142			
L4300 375M	201	298	< 5	22	< 0.5		9	19	3.55	470	1	34	< 5	148			
L4300 400M	201	298	< 5	17	< 0.5		7	8	3.44	460	2	21	< 5	128			
L4300 425M	201	298	< 5	15	< 0.5		5	7	2.49	520	1	15	< 5	82			
L4300 450M	201	298	< 5	15	< 0.5		7	9	2.58	270	1	18	< 5	88			
L4300 475M	201	298	< 5	17	< 0.5		7	8	2.74	305	3	18	< 5	102			
L4300 500M	201	298	< 5	50	< 0.5		11	17	3.76	805	7	63	< 5	134			
L4300 525M	201	298	< 5	14	< 0.5		6	7	2.16	245	1	14	< 5	98			
L4300 550M	201	298	< 5	15	< 0.5		7	9	3.25	400	3	18	< 5	102			

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808 W. HASTINGS ST., 10TH FLOOR
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Project : SCUD RIVER
 Comments: ATTN: JIM FOSTER CC: EQUITY ENGINEERING

Page No. :
 Tot. Pages: 2
 Date : 2-OCT-89
 Invoice #: I-8925771
 P.O. #: KGG89-07

CERTIFICATE OF ANALYSIS A8925771

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	As ppm	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mb ppm	Ni ppm	Pb ppm	Zn ppm			
L4300 57SM	201	298	10	15	< 0.5	7	11	2.91	470	2	21	< 5	94			
L4300 60SM	201	298	< 5	11	< 0.5	6	13	2.25	420	< 1	15	< 5	76			
L4300 62SM	201	298	< 5	11	< 0.5	7	13	2.49	400	< 1	18	< 5	80			
L4300 65SM	201	298	< 5	19	< 0.5	9	16	3.72	840	< 3	54	< 5	176			
L4300 67SM	201	298	< 5	9	< 0.5	6	15	2.24	365	< 1	14	< 5	80			
L4400 00SM	201	298	< 5	11	< 0.5	5	12	1.44	330	< 1	16	10	78			
L4400 02SM	201	298	< 5	10	< 0.5	2	5	0.79	255	< 1	6	5	50			
L4400 05SM	201	298	< 5	12	< 0.5	2	7	1.28	360	< 1	10	5	62			
L4400 07SM	201	298	< 5	10	0.5	1	3	0.60	260	< 1	4	5	42			
L4400 10SM	201	298	5	9	0.5	1	3	0.39	185	< 1	3	< 5	24			
L4400 12SM	201	298	< 5	16	< 0.5	2	7	1.58	190	1	14	5	66			
L4400 15SM	201	298	15	12	1.0	2	5	1.06	385	< 1	8	5	56			
L4400 17SM	201	298	65	11	< 0.5	2	7	1.14	300	< 1	6	< 5	42			
L4400 20SM	201	298	5	17	0.5	2	8	1.50	180	< 1	11	< 5	66			

1330

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Project: SCUD RIVER

Comments: ATTN: JIM FOSTER CC: EQUITY ENGINEERING

• Page No.: 1-A
Tot. Pages: 1
Date: 21-NOV-89
Invoice #: I-8925772
P.O. #: KGG89-07

CERTIFICATE OF ANALYSIS A8925772

SAMPLE DESCRIPTION	PREP CODE		Au ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
	FA+AA																				
172427	201	238	15	2.25	0.2	15	210	< 0.5	< 2	1.64	4.5	21	66	161	5.79	< 10	< 1	0.10	10	1.61	960
447241	201	238	5	2.29	< 0.2	5	140	< 0.5	2	1.79	1.5	11	48	53	2.82	10	< 1	0.09	10	0.84	620
447242	201	238	10	1.00	0.4	20	450	< 0.5	< 2	0.51	3.5	13	26	80	3.60	< 10	< 1	0.06	10	0.46	685

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Project: SCUD RIVER

Comments: ATTN: JIM FOSTER CC: EQUITY ENGINEERING

• Page No. : 1-B
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Date : 21-NOV-89
Invoice #: I-8925772
P.O. #: KGG89-07

CERTIFICATE OF ANALYSIS A8925772

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
172427	201	238	13	0.02	101	1640	6	< 5	6	77	0.25	< 10	< 10	120	< 10	350
447241	201	238	2	0.03	37	960	8	5	4	73	0.10	10	10	86	< 10	126
447242	201	238	7	0.01	53	1060	8	< 5	4	36	0.03	< 10	< 10	52	< 10	286

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• Page # : 1-A
Tot. Pages: 1
Date : 28-SEP-89
Invoice #: I-8925773
P.O. #: KGG89-07

CERTIFICATE OF ANALYSIS A8925773

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
172354	217 238	< 5	1.25	< 0.2	10	630	< 0.5	< 2	0.65	< 0.5	9	140	43	2.75	10	< 1	0.24	20	0.60	515
172355	217 238	< 5	0.98	< 0.2	10	160	< 0.5	2	0.66	< 0.5	8	66	15	1.93	10	< 1	0.18	10	0.66	420
172356	217 238	< 5	1.20	< 0.2	10	160	< 0.5	< 2	0.87	< 0.5	9	99	25	2.56	10	< 1	0.20	20	0.77	450
172357	217 238	10	1.22	< 0.2	< 5	260	< 0.5	< 2	1.04	< 0.5	10	69	23	2.75	10	< 1	0.18	20	0.77	460
172358	217 238	< 5	1.83	< 0.2	< 5	190	< 0.5	< 2	0.88	0.5	11	135	38	3.17	10	< 1	0.32	10	1.03	625
172359	217 238	270	1.35	0.2	10	140	< 0.5	2	0.76	0.5	5	133	19	2.17	10	< 1	0.21	20	0.54	405
172360	217 238	< 5	1.39	< 0.2	10	190	< 0.5	2	0.98	< 0.5	8	67	24	2.55	10	< 1	0.21	20	0.80	485
172361	217 238	20	1.50	< 0.2	5	200	< 0.5	< 2	1.11	< 0.5	9	100	23	2.76	10	< 1	0.22	20	0.66	505
172362	217 238	< 5	1.69	< 0.2	10	1160	< 0.5	< 2	1.14	1.5	9	193	42	3.13	< 10	< 1	0.31	10	0.56	520

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Project: SCUD RIVER

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Page No.: 1-B
Tot. Pages: 1
Date: 28-SEP-89
Invoice #: I-8925773
P.O. #: KGG89-07

CERTIFICATE OF ANALYSIS A8925773

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
172354	217	238	< 1	0.04	16	670	6	< 5	4	64	0.08	< 10	< 10	58	< 10	40
172355	217	238	< 1	0.03	9	540	4	< 5	3	61	0.07	< 10	< 10	44	< 10	28
172356	217	238	< 1	0.04	11	670	4	< 5	4	70	0.10	< 10	< 10	64	< 10	36
172357	217	238	< 1	0.04	11	680	6	< 5	4	91	0.11	< 10	< 10	70	< 10	34
172358	217	238	1	0.06	23	810	8	< 5	6	76	0.14	< 10	< 10	89	< 10	84
172359	217	238	1	0.07	14	700	8	< 5	4	56	0.12	< 10	< 10	65	< 10	50
172360	217	238	< 1	0.04	8	700	4	< 5	5	96	0.13	< 10	< 10	70	< 10	38
172361	217	238	< 1	0.05	11	730	6	< 5	5	122	0.14	< 10	< 10	81	< 10	46
172362	217	238	12	0.03	37	1750	6	< 5	5	50	0.04	< 10	< 10	116	< 10	186

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Invoice No.: I-8925967
P.O. Number: KGG89-07

Project: SCUD RIVER
Comments: ATTN: JIM FOSTER CC: EQUITY ENGINEERING

CERTIFICATE OF ANALYSIS A8925967

SAMPLE DESCRIPTION	PREP CODE		Au ppb	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
			FA+AA	g	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	ppm	ppm	g	ppm	g
459504	201	238	25	0.75	0.6	35	230	< 0.5	4	3.00	5.5	19	24	115	4.28	< 10	< 1	0.06	10	1.07	545

PROJECT: SCUD RIVER/CONSOLIDATED GOLDWEST PASS LAKE

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P.O. Number: KGG89-07

Project: SCUD RIVER
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CERTIFICATE OF ANALYSIS

A8925967

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
459504	201	238	33	< 0.01	98	2040	2	5	3	74	0.03	< 10	< 10	55	< 10	478

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 Date: 3-OCT-89
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 P.O. #: KGG89-07

CERTIFICATE OF ANALYSIS A8925968

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	As ppm	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm	Au FA oz/T
172425	205 298	< 5	7	0.5	2	42	0.94	270	< 1	2	< 5	10	_____
172426	205 298	< 5	9	0.5	15	106	3.98	215	< 3	7	5	60	_____
447246	205 298	25	33	2.5	81	383	>15.00	265	< 1	20	5	82	_____
447247	205 298	< 5	120	< 0.5	4	33	2.70	1060	< 1	3	10	50	_____
447248	205 298	< 5	10	1.0	239	1165	>15.00	1235	< 1	26	10	64	_____
447249	205 298	2480	110	1.5	74	211	>15.00	60	< 1	3	30	204	0.084
447250	205 298	10	10	< 0.5	8	56	2.55	160	< 47	3	5	36	_____
459501	205 298	< 5	20	< 0.5	24	36	8.00	140	< 1	47	15	66	_____
459502	205 298	< 5	15	< 0.5	2	68	0.83	75	< 2	10	< 5	2350	_____
459503	205 298	< 5	9	2.5	3	6	0.64	195	< 1	1	< 5	32	_____
459505	205 298	< 5	7	< 0.5	4	26	0.88	220	< 1	5	< 5	16	_____

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Project : SAND RIV PASS LAKE
 Comments : ATTN: JIM FOSTER CC: EQUITY ENGINEERING

• Page N : 1
 Tot. Pages : 1
 Date : 11-OCT-89
 Invoice # : I-8926563
 P.O. # : KGG89-07

CERTIFICATE OF ANALYSIS A8926563

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	As ppm	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm		
459319	205 298	10	4	1.5	9	118	2.50	375	17	42	10	168		
459320	205 298	115	2	< 0.5	9	45	2.02	130	2	21	< 5	66		
459321	205 298	< 5	3	< 0.5	9	45	4.54	600	2	4	5	78		
459322	205 298	< 5	6	< 0.5	5	51	1.16	200	26	50	< 5	570		
459323	205 298	< 5	1	< 0.5	28	239	6.47	450	1	27	25	64		
459324	205 298	< 5	2	< 0.5	13	54	3.77	935	< 1	15	5	76		
459325	205 298	< 5	6	< 0.5	42	77	5.88	1030	< 1	20	< 5	60		
459569	205 298	< 5	1	< 0.5	19	22	3.49	525	< 1	24	< 5	52		
459570	205 298	30	3	< 0.5	8	11	4.68	1105	1	4	< 5	76		
459571	205 298	25	11	< 0.5	77	110	6.83	535	6	408	< 5	174		
459572	205 298	< 5	9	< 0.5	17	57	5.89	275	1	37	5	112		
459573	205 298	50	4	< 0.5	15	79	6.61	330	1	28	30	138		
459574	205 298	< 5	1	< 0.5	12	56	5.90	70	1	71	5	96		
459575	205 298	< 5	2	< 0.5	8	3	4.61	695	1	6	< 5	34		
459576	205 298	< 5	5	< 0.5	3	14	1.70	625	6	8	5	72		
459854	205 298	< 5	9	< 0.5	1	13	1.99	70	7	6	5	46		
459855	205 298	< 5	1	< 0.5	21	63	4.79	585	2	29	< 5	58		
459856	205 298	< 5	1	< 0.5	7	53	4.12	485	1	2	< 5	34		
459857	205 298	< 5	14	< 0.5	12	123	2.14	220	30	70	5	200		
459858	205 298	< 5	1	< 0.5	43	80	8.98	740	< 1	61	45	136		
459859	205 298	< 5	12	< 0.5	2	63	4.11	35	51	15	< 5	62		

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Project: SAND RIV. PASS LAKE

Comments: ATTN: JIM FOSTER CC: EQUITY ENGINEERING

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Invoice #: I-8927164
P.O. #: KGG89-07

CERTIFICATE OF ANALYSIS A8927164

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	As ppm	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mb ppm	Ni ppm	Pb ppm	Zn ppm			
459595	201	298	< 5	85	< 0.5	27	46	6.69	240	10	87	5	132			
459596	201	298	< 5	67	< 0.5	28	50	6.43	225	10	83	< 10	132			
459597	201	298	< 5	75	< 0.5	29	56	6.67	185	5	82	< 5	124			
459598	201	298	< 5	63	< 0.5	41	79	8.95	280	6	119	< 5	154			
459599	201	298	< 5	39	< 0.5	62	82	10.15	400	6	154	< 5	192			
459600	201	298	< 5	59	< 0.5	27	46	6.11	180	6	79	5	118			
463052	201	298	< 10	27	< 0.5	19	24	5.82	900	5	45	5	136			
463053	201	298	< 5	25	< 0.5	18	26	5.39	1105	4	45	5	186			
463054	201	298	< 5	67	< 0.5	21	31	6.75	1190	12	68	< 5	146			
463055	201	298	< 5	95	< 0.5	32	52	8.02	740	14	100	10	158			
463056	201	298	< 5	12	< 0.5	17	29	4.82	355	2	45	5	96			
463057	201	298	< 5	11	< 0.5	18	30	5.49	1490	3	54	5	120			
463058	201	298	< 5	35	< 0.5	51	98	10.50	1025	4	145	5	170			

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Comments: ATTN: JIM FOSTER

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Date: 16-OCT-89
Invoice #: I-8927180
P.O. #: KGG89-07

CERTIFICATE OF ANALYSIS A8927180

SAMPLE DESCRIPTION	PREP CODE		Au ppb	As ppm	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mb ppm	Ni ppm	Pb ppm	Zn ppm	Au FA oz/T
	205	298	FA+AA	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
459341	205	298	< 5	5	< 0.5	23	72	4.55	800	< 1	12	< 5	66	_____
459342	205	298	< 5	9	< 0.5	18	171	3.91	1260	< 1	12	< 5	50	_____
459343	205	298	1320	2	< 6.5	39	787	4.61	205	< 1	10	< 5	18	0.046
459344	205	298	< 5	1	< 0.5	11	188	3.61	835	< 1	5	< 5	44	_____
459345	205	298	< 5	4	< 0.5	17	150	2.73	245	< 1	28	25	24	_____
459346	205	298	< 5	1	< 0.5	< 1	3	0.23	395	< 1	2	< 5	12	_____
459347	205	298	< 5	15	< 0.5	< 12	28	1.61	495	< 1	13	< 5	28	_____
459348	205	298	< 5	3	< 0.5	< 1	5	0.28	960	< 1	2	25	32	_____
459589	205	298	< 5	2	< 0.5	4	4	1.51	375	< 1	5	< 5	18	_____
459828	205	298	< 5	10	< 0.5	7	22	1.07	250	< 1	12	5	28	_____
459829	205	298	< 5	5	< 0.5	1	10	1.54	70	1	6	< 5	8	_____
459830	205	298	< 5	2	< 0.5	< 12	56	4.00	735	2	13	< 5	116	_____
459831	205	298	< 5	5	0.5	< 1	5	0.38	40	33	5	< 5	12	_____
459832	205	298	< 5	3	0.5	7	37	2.52	455	< 1	24	< 5	64	_____
459833	205	298	< 5	6	0.5	1	16	0.71	70	2	9	5	168	_____
463051	205	298	< 5	2	< 0.5	4	6	2.73	370	< 1	7	< 5	38	_____

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CERTIFICATION : *B. Coughlin*



Chemex Labs Ltd.

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

to: PRIME EXPLORATIONS LTD.

808 W. HASTINGS ST., 10TH FLOOR
VANCOUVER, BC
V6C 2X6

Project: PUP PROPERTY PUP OPT
Comments: ATT: JIM FOSTER GC: EQUITY ENGINEERING

Page: 1-A
Tot. Pages: 1
Date: 16-OCT-89
Invoice #: I-8927193
P.O. #: KGG89-01

CERTIFICATE OF ANALYSIS A8927193

SAMPLE DESCRIPTION	PREP CODE		Au ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
	201	238	FA+AA	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
459317	201	238	5	2.04	1.0	25	340	< 0.5	< 2	1.59	8.5	20	58	150	5.57	< 10	< 1	0.07	10	0.64	775
459318	201	238	< 5	1.74	0.6	145	250	0.5	< 2	1.31	3.0	16	31	79	4.44	< 10	< 1	0.07	10	0.52	860

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BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

Client: PRIME EXPLORATIONS LTD.

808 W. HASTINGS ST., 10TH FLOOR
VANCOUVER, BC
V6C 2X6

Project: PUP PROPERTY PUP OPT
Comments: ATT: JIM FOSTER CC: EQUITY ENGINEERING

Page: 1-B
Tot. Pages: 1
Date: 16-OCT-89
Invoice #: 1-8927193
P.O. #: KGG89-01

CERTIFICATE OF ANALYSIS A8927193

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
459317	201	238	22	0.02	94	2050	10	< 5	7	48	0.06	< 10	< 10	181	< 10	490
459318	201	238	11	0.04	52	1470	12	< 5	5	58	0.04	< 10	< 10	97	< 10	244

CERTIFICATION :

B. Coughlin



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BRITISH COLUMBIA, CANADA V7J-1C1

PHONE (604) 984-0221

To TIME EXPLORATIONS LTD.

608 W. HASTINGS ST., 10TH FLOOR
VANCOUVER, BC
V6C 2X6

Project : SCUD RIVER

Comments: ATTN: JIM FOSTER EQUITY ENG.

• Page No.
Tot. Page
Date 5-OCT-89
Invoice # I-8927356
P.O. # KGG89-07

CERTIFICATE OF ANALYSIS A8927356

SAMPLE DESCRIPTION	PREP CODE	Cu %										
447233	214 --	1.62										

OCT - 6 1989
W. St. Martin

CERTIFICATION : W. St. Martin



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BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: PRIME EXPLORATIONS LTD.

808 W. HASTINGS ST., 10TH FLOOR
VANCOUVER, BC
V6C 2X6

Project: SCUD RIVER

Comments: ATTN: JIM FOSTER CC: EQUITY ENGINEERING

* Page No. : 1
Tot. Pages: 1
Date : 09-OCT-89
Invoice # : I-8927728
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8927728

SAMPLE DESCRIPTION	PREP CODE		Au FA oz/T									
447233	214	--	0.068									

CERTIFICATION : W. Santamaria



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BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

TERRACON EXPLORATIONS LTD.

808 W. HASTINGS ST., 10TH FLOOR
VANCOUVER, BC
V6C 2X6

Project: SAND RIVER

Comments: ATTN: JIM FOSTER GC: EQUITY ENGINEERING

* Page No. 1-A
Tot. Pages: 1
Date: 23-OCT-89
Invoice #: I-8927984
P.O. #: KGG-89-0

CERTIFICATE OF ANALYSIS A8927984

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
172375	203 238	5	1.94	< 0.2	30	570	< 0.5	< 2	0.98	1.0	14	89	74	4.37	< 10	< 1	0.16	10	1.16	705
172376	203 238	< 5	2.06	< 0.2	20	640	< 0.5	< 2	1.01	2.0	9	113	47	3.53	< 10	< 1	0.19	10	1.03	555
172377	203 238	< 5	1.60	< 0.4	10	500	< 0.5	< 2	1.11	2.5	8	124	47	2.88	< 10	< 1	0.17	10	0.61	390
172378	203 238	< 5	1.18	< 0.2	< 5	150	< 0.5	< 2	0.68	< 0.5	8	56	21	2.31	< 10	< 1	0.14	10	0.68	440
172379	203 238	< 5	1.89	< 0.2	< 5	440	< 0.5	< 2	1.41	2.0	12	78	63	3.83	< 10	< 1	0.14	10	1.24	610
459870	201 238	210	0.41	< 0.2	10	20	< 0.5	30	>15.00	0.5	3	10	17	0.95	< 10	< 1	0.02	< 10	0.49	220
463107	203 238	< 5	0.76	< 0.2	15	100	< 0.5	< 2	1.04	2.0	5	63	155	1.65	< 10	< 1	0.09	10	0.49	615
463108	203 238	< 5	0.89	< 0.2	20	300	< 0.5	< 2	0.84	2.5	12	46	442	2.34	< 10	< 1	0.17	20	0.39	1430
463128	201 238	10	1.39	< 0.2	< 5	40	< 0.5	< 2	1.07	1.0	4	22	12	2.00	< 10	< 1	0.04	10	1.14	220
463201	201 238	5	1.08	< 0.2	< 5	160	< 0.5	< 2	1.05	1.0	11	15	38	2.98	< 10	< 1	0.08	10	0.97	555
463202	201 238	< 5	1.25	< 0.2	20	150	< 0.5	< 2	0.98	< 0.5	10	48	51	3.08	< 10	< 1	0.03	10	0.59	860
463203	203 238	< 5	0.79	< 0.2	25	30	< 0.5	< 2	0.55	< 0.5	5	51	12	2.52	< 10	< 1	0.06	10	0.54	235
463204	201 238	< 5	0.48	< 0.2	15	40	< 0.5	6	5.76	0.5	7	14	17	2.64	< 10	< 1	0.02	< 10	0.59	195
463205	201 238	130	1.13	< 0.2	30	110	< 0.5	< 2	2.04	0.5	19	29	276	4.92	< 10	< 1	0.23	10	0.98	1030
463551	201 238	< 5	0.70	< 0.2	< 5	40	< 0.5	< 2	0.84	0.5	6	34	25	2.19	< 10	< 1	0.02	10	0.62	325
463552	203 238	40	1.43	< 0.2	15	210	< 0.5	< 2	0.87	11.0	14	91	62	3.67	< 10	< 1	0.09	10	0.78	1355
463553	203 238	< 5	0.64	< 0.2	5	160	< 0.5	< 2	1.34	2.0	8	72	80	1.89	< 10	< 1	0.13	10	0.46	495
463554	203 238	< 5	1.51	< 0.2	< 5	150	< 0.5	< 2	1.72	< 0.5	9	73	29	2.67	< 10	< 1	0.14	10	1.06	490

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B. Campbell



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BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

T. RIME EXPLORATIONS LTD.

808 W. HASTINGS ST., 10TH FLOOR
VANCOUVER, BC
V6C 2X6

Project : SAND RIVER

Comments: ATTN: JIM FOSTER CC: EQUITY ENGINEERING

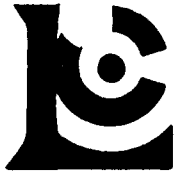
Page No. : -B
Tot. Pages: 1
Date : 23-OCT-89
Invoice # : I-8927984
P.O. # : KGG-89-0

CERTIFICATE OF ANALYSIS A8927984

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
172375	203 238	8	0.04	54	1500	2	< 5	4	56	0.15	< 10	< 10	104	< 10	224
172376	203 238	6	0.10	43	1440	< 2	< 5	4	77	0.15	< 10	< 10	123	< 10	230
172377	203 238	14	0.02	47	2180	< 2	< 5	4	83	0.06	< 10	< 10	97	< 10	294
172378	203 238	2	0.02	9	790	2	< 5	3	67	0.09	< 10	< 10	59	< 10	50
172379	203 238	7	0.03	43	1880	< 2	< 5	4	64	0.20	< 10	< 10	99	< 10	196
459870	201 238	2	0.02	5	200	2	5	1	219	0.02	< 10	< 10	12	< 10	34
463107	203 238	18	0.01	89	730	6	< 5	2	38	0.05	< 10	< 10	69	< 10	274
463108	203 238	16	< 0.01	41	720	6	< 5	1	45	0.03	< 10	< 10	31	< 10	516
463128	201 238	2	0.01	11	580	8	< 5	3	53	0.08	< 10	< 10	31	< 10	106
463201	201 238	3	0.01	15	1040	8	< 5	3	50	0.09	< 10	< 10	63	< 10	88
463202	201 238	3	< 0.01	25	820	4	< 5	2	59	0.10	< 10	< 10	76	< 10	98
463203	203 238	4	0.02	17	450	6	< 5	2	23	< 0.01	< 10	< 10	21	< 10	72
463204	201 238	4	< 0.01	17	710	< 2	5	2	127	< 0.01	< 10	< 10	17	< 10	82
463205	201 238	9	< 0.01	28	2000	16	5	3	92	0.13	< 10	< 10	58	< 10	138
463551	201 238	4	< 0.01	32	490	2	< 5	2	17	0.03	< 10	< 10	35	< 10	90
463552	203 238	8	0.02	107	1240	2	< 5	3	44	0.02	< 10	< 10	59	< 10	878
463553	203 238	9	0.01	42	1050	10	5	1	56	0.03	< 10	< 10	39	< 10	268
463554	203 238	4	0.03	14	1280	< 2	< 5	4	89	0.12	< 10	< 10	70	10	70

CERTIFICATION :

B. Coughlin



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212 BROOKSBANK AVE. NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To PRIME EXPLORATIONS LTD.

308 W. HASTINGS ST., 10TH FLOOR
VANCOUVER, BC
V6C 2X6

Project : SAND RIVER

Comments: ATTN: JIM FOSTER CC: EQUITY ENGINEERING LTD.

Page No.
Tot. Page
Date : 19-OCT-89
Invoice # : I-8927985
P.O. # : KGG-89-0

CERTIFICATE OF ANALYSIS A8927985

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	As ppm	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mb ppm	Ni ppm	Pb ppm	Zn ppm			
447030	205	298	5	2	0.5	6	21	2.57	340	2	27	5	130			
447031	205	298	445	14	13.5	16	8420	>15.00	1030	29	4	5	202			
463106	205	298	10	11	0.5	2	189	2.16	130	1	4	< 5	34			
463109	205	298	3550	1	0.5	3	98	2.05	465	1	7	5	36			
463129	205	298	70	2	< 0.5	< 1	38	0.36	95	< 1	3	< 5	14			
463130	205	298	20	4	1.0	4	120	4.15	160	2	3	5	20			
463131	205	298	< 5	4	< 0.5	6	25	3.23	415	5	2	< 5	42			

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B. Coughlin

CERTIFICATION :



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BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

TRIMBLE EXPLORATIONS LTD.

808 W. HASTINGS ST., 10TH FLOOR
VANCOUVER, BC
V6C 2X6

Project: SCUD RIVER/PASS 1K 0
Comments: ATTN: JIM FOSTER ✓ EQUITY ENGINEERING

• Page No.
Tot. Pages: 1
Date: 26-OCT-89
Invoice #: I-8928429
P.O. #: KGG89-02

CERTIFICATE OF ANALYSIS A8928429

SAMPLE DESCRIPTION	PREP CODE	Au oz/T	Cu %	Pb %	Zn %					
447050	208 ---	0.002	0.20	< 0.01	0.03					
463651	208 ---	0.010	0.46	< 0.01	0.01					
463652	208 ---	0.410	0.09	0.97	0.81					
463653	208 ---	0.088	3.28	0.47	0.89					
463654	208 ---	0.005	0.16	0.03	0.05					
463655	208 ---	0.004	0.02	< 0.01	0.01					

CERTIFICATION :

W. New American



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

PHONE (604) 984-0221

To: PRIME EXPLORATIONS LTD.

808 W. HASTINGS ST., 10TH FLOOR
VANCOUVER, BC
V6C 2X6

Project: SAND RIVER

Comments:

• Page No. : 1
Tot. Pages: 1
Date : 06-NOV-89
Invoice # : I-8929190
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8929190

SAMPLE DESCRIPTION	PREP CODE	Au tot oz/t	Au - oz/t	Au + mg	Wt. - grams	Wt. + grams					
447031 REJECT	207 --	0.038	0.038	0.006	478	9.59					
463109 REJECT	207 --	< 0.003	< 0.003	< 0.002	340	3.96					

CERTIFICATION : W. Stenman

APPENDIX E

STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

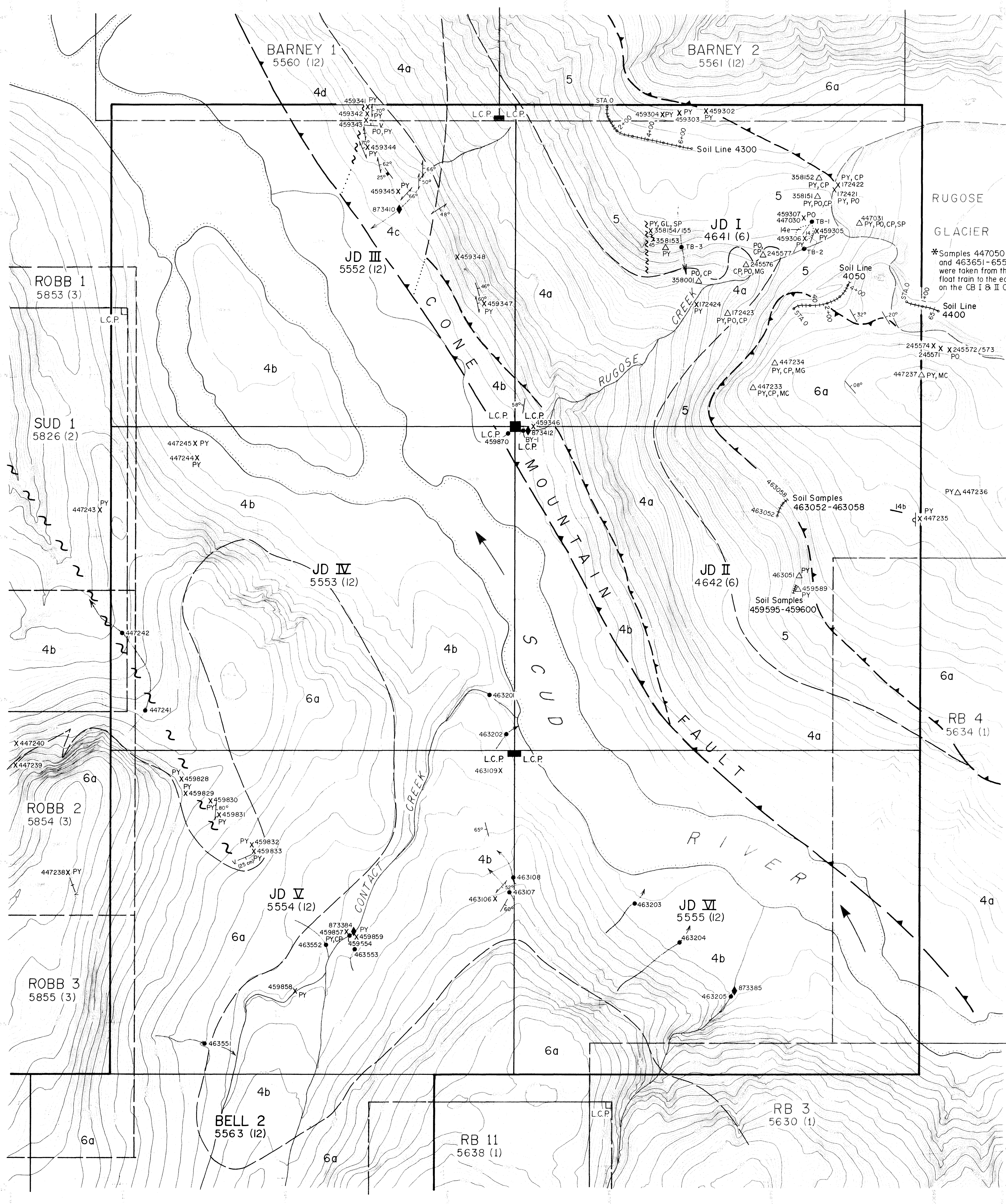
I, KATHERINA V. ROSS, of 4188 West 15th Avenue, Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY:

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 Waterloo with an honours Bachelor of Science degree in Geology.
3. THAT my primary employment since May, 1988 has been in the field of mineral exploration.
4. THAT this report is based on fieldwork conducted under my supervision on the Scud River Property during September and October 1989, and government publications and reports filed with the Government of British Columbia.
5. I have no interest in the property described herein, nor in securities of any company associated with the property, nor do I expect to acquire any such interest.

DATED at Vancouver, British Columbia, this _____ day of December, 1989.

Katherina Ross

Katherina Ross,
B.Sc. Geology



SAMPLE RESULTS

1989 SILT SAMPLE RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
447241	5	<0.2	53	8	126	5
447242	10	<0.2	17	2	286	20
459870	210	<0.2	17	2	34	10
463107	<5	<0.2	155	6	274	15
463108	<5	<0.2	442	6	516	20
463201	5	<0.2	18	8	98	<5
463202	<5	<0.2	51	4	98	20
463203	<5	<0.2	12	6	72	25
463204	<5	<0.2	17	<2	82	15
463205	130	<0.2	276	16	138	30
463551	<5	<0.2	25	2	90	<5
463552	40	<0.2	62	2	878	15
463553	<5	<0.2	80	10	268	5
463554	<5	<0.2	29	<2	70	<5

1987 GOVERNMENT SILT SAMPLE RESULTS (OSC OPEN FILE 1646, 1988)

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
873384	2	0.2	44	8	5	8
873385	279	0.6	272	29	120	10
873410	18	0.1	44	8	73	8
873412	108	0.1	17	7	29	10
90th Mile	30	0.3	103	16	133	17
95th Mile	65	0.4	132	22	181	29
99th Mile	237	1.0	272	55	478	81

1988 FIELD-DIBBED STREAM SEDIMENT RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
BY-1	1850	1.4	28	6	44	95
TB-1	40	1.0	11	<2	21	<5
TB-2	3720	1.2	14	6	25	10
TB-3	700	0.8	16	6	31	<5

1989 ROCK GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
172421	<0.5	31	<5	28	11	11
172422	<0.5	21	5	56	22	2
172423	30	<0.5	3190	5	60	17
172424	5	<0.5	55	194	6	6
447030	5	0.5	21	5	130	2
447031	445	13.5	8420	5	202	14
447233	0.068*	16.5	1.62%	10	492	16
447234	530	5.5	7250	15	284	11
447235	25	<0.5	377	5	168	12
447236	15	<0.5	43	<5	46	7
447237	10	<0.5	252	<5	34	10
447238	5	<0.5	12	<5	26	7
447239	<5	<0.5	31	5	82	9
447240	<5	0.5	44	5	24	10
447243	<5	1.0	6	<5	19	19
447244	10	1.0	48	<5	64	9
447245	15	3.0	180	15	192	43
459302	10	<0.5	1	<5	46	10
459303	15	<0.5	1	<5	4	12
459304	5	<0.5	26	<5	92	10
459305	<5	<0.5	19	<5	62	19
459306	<5	1.5	9	<5	76	10
459307	<5	<0.5	17	5	84	9
459341	<5	<0.5	72	<5	66	5
459342	<5	<0.5	171	5	50	9
459343	0.046*	6	5	<5	18	2
459344	<5	<0.5	188	<5	44	1
459345	<5	<0.5	150	25	24	4
459346	15	<0.5	3	<5	12	1
459347	<5	<0.5	28	<5	28	15
459348	<5	<0.5	5	25	32	3
459349	<5	<0.5	4	<5	18	2
459828	<5	<0.5	22	5	28	10
459829	<5	<0.5	10	<5	8	5
459830	<5	<0.5	56	<5	116	2
459831	<5	0.5	5	5	12	5
459832	<5	0.5	37	<5	64	3
459833	<5	0.5	16	5	168	6
459857	<5	<0.5	123	5	200	14
459858	<5	<0.5	80	45	136	1
459859	<5	<0.5	63	<5	62	12
463106	10	0.5	189	<5	34	11
463109	350	0.5	98	5	36	1
463051	<5	<0.5	6	<5	38	2

1988 ROCK GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
245571	25	<0.2	14	2	14	<5
245572	20	<0.2	26	6	100	<5
245573	5	<0.2	1	8	25	10
245574	<5	<0.2	1	2	6	5
245576	0.270*	6.25*	2.00%	40	1.39%	5
245577	450	3.6	1095	<2	152	<5
358151	135	11.0	9330	<2	281	<5
358152	905	10.8	4710	<2	105	5
358153	0.102*	0.26*	0.29%	<2	1315	415
358154	0.104*	0.12*	98	66	67	515
358155	0.238*	0.56*	121	0.37%	0.68%	1130
358001	0.172*	0.37*	0.25%	<2	105	<5

(* denotes assay in ounces per ton)

CB I & II CLAIMS

1989 ROCK GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
447050	0.002*	-	0.20%	<0.01%	0.03%	-
463651	0.010*	-	0.46%	<0.01%	0.01%	-
463652	0.410*	-	0.09%	0.97%	0.81%	-
463653	0.088*	-	3.28%	0.47%	0.89%	-
463654	0.005*	-	0.16%	0.03%	0.05%	-
463655	0.004*	-	0.02%	<0.01%	0.01%	-

(* denotes assay in ounces per ton)

LEGEND

STRATIFIED ROCKS

MESOZOIC "STIKINIAN" STRATA

UPPER TRIASSIC

Stuhini Group

8 Undivided volcanic and volcanoclastic rock
8a shale, siltstone, argillite, limestone, conglomerate,
8b augite porphyritic basaltic andesite flows, breccia
and agglomerate; aphanitic and plagioclase - porphyritic andesite;
8c bedded augite crystal tuff, tuffaceous siltstone;
8d volcanoclastic agglomerate with subangular to -subrounded clasts

PALEOZOIC "STIKINE ASSEMBLAGE"

PERMIAN

(Un-named)

6 Undivided Permian strata
6a upper member Permian limestone - massive, light coloured;
6c lower member Permian limestone - thin bedded, pyritic,
argillaceous and bioclastic calcarenite with argillaceous interbeds

5 "Rusty argillite" at base of Permian section

unknown, but probably faulted, contact

MISSISSIPPIAN or OLDER

(Un-named)

4 4a siliceous tuff; 4b fine grained siliclastic;
4c intermediate flows, pyroclastic; 4d limestone - light coloured, crinoid

INTRUSIVE ROCKS

TERTIARY

Dykes and sills

14 Undivided, probably Tertiary dykes
14b basaltic (gabbro); 14e felsic

MIDDLE TRIASSIC - to - ? MIDDLE JURASSIC

Galore Creek Intrusions

11 Undivided Galore Creek intrusive rocks
11b orthoclase porphyritic monzonite;
11c biotite-hornblende quartz monzonite - to - granodiorite

SYMBOLS

Geological boundary (defined, approximate, assumed), dip indicated

Bedding, tops known (horizontal, inclined, vertical, overturned, dip unknown)

Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown)

Second generation (horizontal, inclined, vertical)

Lineation (horizontal, inclined, plunge unknown, vertical)

Minor Folds and their symmetry viewed down-plunge: S, Z, M, W, angle of plunge

Fault (defined, approximate, assumed) Inclined, vertical, downthrown side, horizontal movement

Thrust fault (defined, approximate, assumed). Bars on upper plate, dip indicated

Dyke, vein (V), or stockwork (S), (defined, approximate, assumed). Dip, width indicated

Gossan

Legal Corner Post (located, approximate)

SAMPLING

Government Silt Sample

Stream Sediment Sample

Rock Sample - outcrop (Grab or Chip)

Rock Sample - float

Contour Soil Sample Line

Station Number

Cu value in p.p.m. (45 p.p.m. or greater)

Au value in p.p.b. (40 p.p.b. or greater)

Mineral Occurrence

CP Chalcopyrite PO Pyrrhotite
GL Galena PY Pyrite
MC Malachite SP Sphalerite
MG Magnetite

GEOLOGICAL BRANCH ASSESSMENT REPORT

19,516

METRES 0 200 400 600 800 1000 METRES

Grid North is 2° 09' West of True North

CONSOLIDATED GOLDWEST RESOURCES LTD.

SCUD RIVER NORTH GEOLOGY AND GEOCHEMISTRY

BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

DRAWN: J.W.	MINING DIV. LIARD	FIGURE
N.T.S.: 104G/4E, 5E	SCALE: AS SHOWN	5
DATE: DEC. 1989	REVISED:	

LEGEND

STRATIFIED ROCKS

MESOZOIC "STIKINIAN" STRATA

UPPER TRIASSIC

Stuhini Group

- 8 Undivided volcanic, pyroclastic and volcanoclastic rock.
- 8a shale, siltstone, argillite, limestone, conglomerate;
- 8b augite porphyritic basaltic andesite flows, breccia and agglomerate; aphanitic and plagioclase - porphyritic andesite;
- 8c bedded augite crystal tuff, tuffaceous siltstone;
- 8d volcanoclastic agglomerate with subangular - to - subrounded clasts

PALEOZOIC "STIKINE ASSEMBLAGE"

PERMIAN

(Un - named)

- 6 Undivided Permian strata
- 6a upper member Permian limestone - massive, light coloured;
- 6c lower member Permian limestone - thin bedded, pyritic, argillaceous and biotitic calcarenite with argillaceous interbeds

- 5 "Rusty argillite" at base of Permian section

MISSISSIPPIAN or OLDER

(Un - named)

- 4 4a siliceous tuff; 4b fine grained siliciclastic;
- 4c intermediate flows, pyroclastic, 4d limestone - light coloured, crinoidal

INTRUSIVE ROCKS

TERTIARY

Dykes and sills

- 14 Undivided, probably Tertiary dykes.
- 14b basaltic (gabro); 14e felsic

MIDDLE TRIASSIC - to - ? MIDDLE JURASSIC

Galore Creek Intrusions

- 11 Undivided Galore Creek Intrusive rocks.
- 11b orthoclase porphyritic monzonite;
- 11c biotite - hornblende quartz monzonite - to - granodiorite

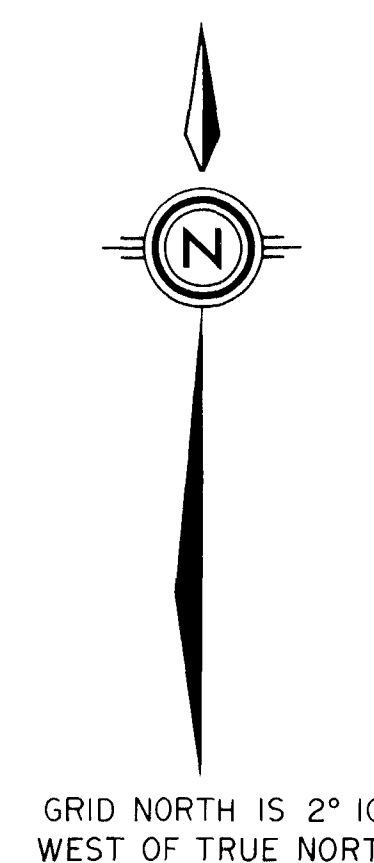
SYMBOLS

- Geological boundary (defined, approximate, assumed); dip indicated
- Bedding, tops known (horizontal, inclined, vertical, overturned, dip unknown)
- Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown)
- Second generation (horizontal, inclined, vertical)
- Lamination (horizontal, inclined, plunge unknown, vertical)
- Minor Folds and their symmetry viewed down - plunge: S, Z, M, W; angle of plunge
- Fault (defined, approximate, assumed) Inclined, vertical, downthrown side, horizontal movement
- Thrust fault (defined, approximate, assumed) Barbs on upper plate, dip indicated
- Dyke, vein (V), or stockwork (S), (defined, approximate, assumed) Dip, width indicated
- Gossan
- Legal Corner Post (located, approximate)

SAMPLING

- Government Silt Sample
- Stream Sediment Sample
- Rock Sample - outcrop (Grab or Chip)
- Rock Sample - float
- (Au) (Cu) Contour Soil Sample Line
- Station Number
- Cu value in p.p.m. (145 p.p.m or greater)
- Au value in p.p.b. (40 p.p.b or greater)
- X PY, CP Mineral Occurrence
- CP Chalcopyrite PY Pyrite
- PO Pyrrhotite

METRES 0 200 400 600 800 1000 METRES



CONSOLIDATED GOLDWEST RESOURCES LTD.

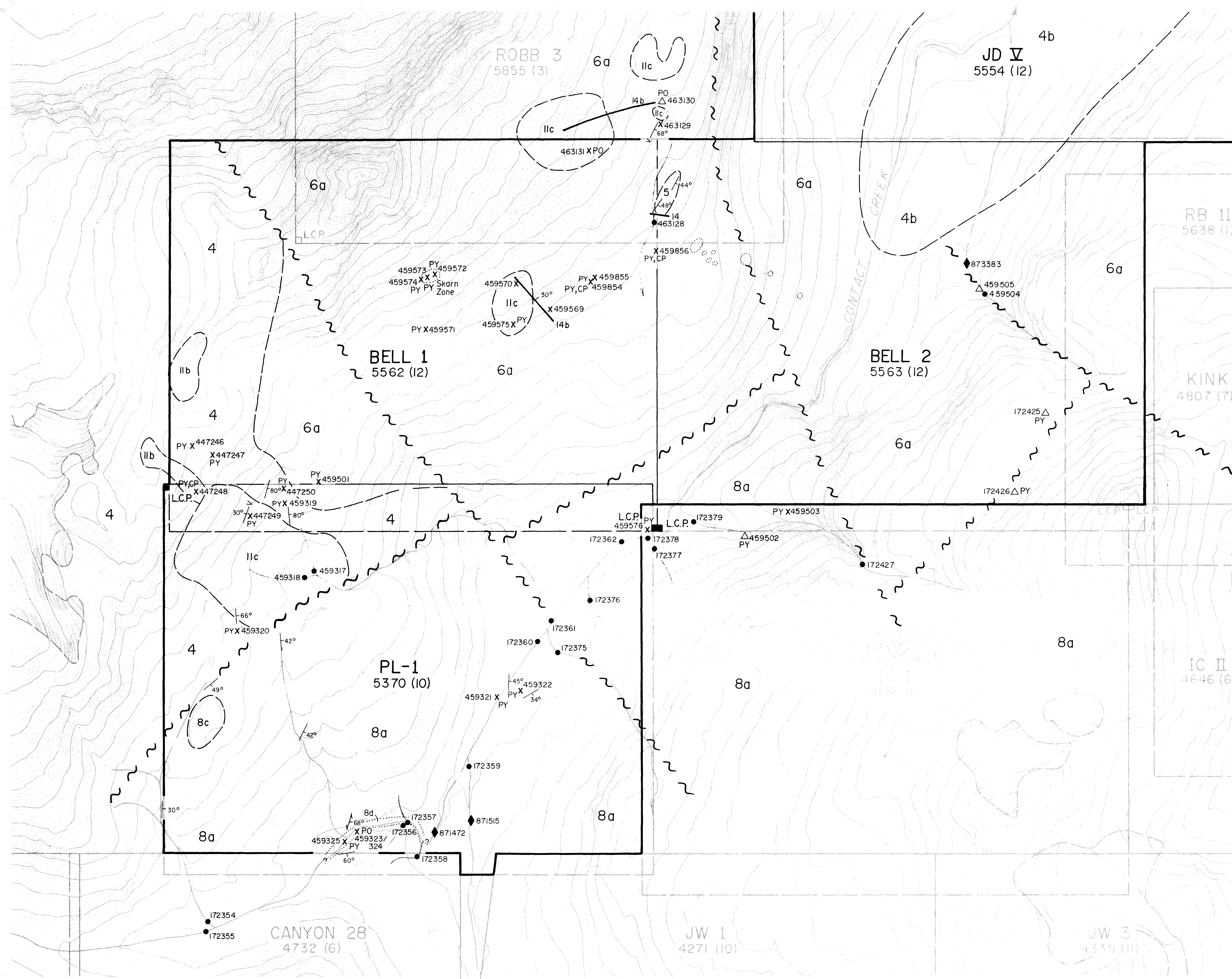
SCUD RIVER SOUTH GEOLOGY AND GEOCHEMISTRY

BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

DRAWN: J.W.	MINING DIV. LIARD	FIGURE
N.T.S.: 1046/4E	SCALE: AS SHOWN	6
DATE: DEC. 1989	REVISED:	

GEOLOGICAL BRANCH ASSESSMENT REPORT 19,516



SAMPLE RESULTS

1989 SILT SAMPLE RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
172377	<5	0.4	47	<2	294	10
172378	<5	<0.2	21	2	50	<5
172379	<5	<0.2	63	<2	196	<5
172427	15	0.2	161	6	350	15
459317	5	1.0	150	10	490	25
459318	<5	0.6	79	12	244	145
459504	25	0.6	115	2	478	35
463128	10	<0.2	12	8	106	<5

1989 ROCK GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
172425	<5	0.5	42	<5	10	7
172426	<5	0.5	106	5	60	9
447246	25	2.5	383	5	82	33
447247	<5	<0.5	93	10	50	120
447248	<5	1.0	1165	10	64	10
447249	0.084*	1.5	211	30	204	110
447250	10	<0.5	56	5	36	10
459319	10	1.5	118	10	168	4
459320	115	<0.5	45	<5	66	2
459321	<5	<0.5	45	5	78	3
459322	<5	<0.5	51	<5	570	6
459323	<5	<0.5	239	25	64	1
459324	<5	<0.5	54	5	76	2
459325	<5	<0.5	77	<5	60	6
871515	1	0.4	72	11	192	7
459501	<5	<0.5	36	15	66	20
459502	<5	<0.5	68	<5	2350	15
459503	<5	2.5	6	<5	32	9
459505	<5	<0.5	26	<5	16	7
459569	<5	<0.5	22	<5	52	1
459570	30	<0.5	11	5	76	3
459571	25	<0.5	110	<5	174	11
459572	<5	<0.5	57	5	112	9
459573	50	<0.5	79	30	138	4
459574	<5	<0.5	56	5	96	1
459575	<5	<0.5	3	<5	34	2
459576	<5	<0.5	14	5	72	5
459854	<5	0.5	13	5	46	9
459855	<5	<0.5	63	<5	58	1
459856	<5	<0.5	10	50	34	1
463129	70	<0.5	38	<5	14	2
463130	20	1.0	120	5	20	4
463131	<5	<0.5	25	<5	42	4

1987 GOVERNMENT SILT SAMPLE RESULTS (OSC OPEN FILE 1646, 1988)

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
871472	21	0.3	42	8	54	7
871515	1	<0.2	11	11	192	7
873383	7	1.5	120	12	436	18
90th 11le	30	0.3	103	16	133	17
95th 11le	65	0.4	132	22	181	29
99th 11le	237	1.0	272	55	478	81

1989 FIELD-SERVED STREAM SEDIMENT RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
172354	<5	<0.2	43	6	40	10
172355	<5	<0.2	15	4	28	10
172356	<5	<0.2	25	4	36	10
172357	10	<0.2	23	6	34	<5
172358	<5	<0.2	38	8	84	<5
172359	270	0.2	19	8	50	10
172360	<5	<0.2	24	4	38	10
172361	20	<0.2	23	6	46	5
172362	<5	<0.2	42	6	186	10
172375	5	<0.2	74	2	224	30
172376	<5	<0.2	47	<2	230	20

(* denotes assay in ounces per ton)