APPENDIX 1: ROCK SAMPLE RECORD SHEETS

to accompany

1990 SUMMARY REPORT

on the

UNUK RIVER PROJECT (Unuk, Coul, Icey, Knip, Bou and Irv Claim Groups)

SKEENA MINING DIVISION NTS 104B/9 & 104B/10 56°35' Lat., 130°20' Long.

Operator: GRANGES INC. 2300 - 885 WEST GEORGIA STREET VANCOUVER, B.C. V6C 3E8

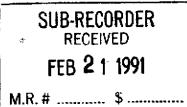
DECEMBER 20, 1990

B.E. GABOURYP.Eng. (Man.)B.Sc. (Hons), M.Sc.

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SUMMARY

The 1990 Unuk River Project field season involved exploration activities for the second year of a three year program proposed to fulfill the terms of an agreement between the property joint optioners, Springer Resources Ltd. (75%) and Cove Energy Corporation (25%) and the optionee, Granges Inc. A total of \$1,072,997.30 was expended.

Work concentrated on priority target areas established in the 1989 program in the Zone 1 Area (covered by claims Unuk 14 and Unuk 26), the "R" Grid (Coul 1) and the Beedee Zone (claims Unuk 18 and Unuk 19), as well as the development of new targets in the U2 Grid Area (claims Unuk 11 and Unuk 12).

Exploration in the Zone 1 Area included remapping and sampling, IP survey over priority targets selected from pre-existing geochemical and geological data, followed by diamond drilling (13 holes @ 2698 m). Only trace gold values were encountered in drilling the sheared felsic-sedimentary contact north of 1200N. Anomalous gold values up to 7.91 g/t across 0.4 m were encountered in diamond drilling of the Cliff Zone between 700N and 1200N. Anomalous gold values up to 3.77 g/t Au across 1.00 m were returned in drilling the AP structure north along strike of the collar of drill hole AP-4 (drilled in 1989). Continued work, including diamond drilling, is recommended for the AP Zone and Cliff Zone structures in 1991.

Remapping of the "R" grid verified favourable "Eskay Creek" stratigraphy. Targets were established from geological, geochemical and geophysical data. Diamond drilling (3 holes at 656.6 m) yielded discouraging results. Since favourable rock types are encountered within and north of the Creek Zone, a reexamination of this portion of the stratigraphy of the "R" grid is recommended.

Mapping and resampling in the Beedee Zone Area have indicated that gold mineralization is located in narrow contact aureoles peripheral to what are likely altered mafic dikes. The area may have potential if a larger dike with a larger contact aureole or a close-spaced dike swarm can be located.

From five target areas produced in preliminary exploration of the U2 grid area in 1990, three have been selected for continued exploration in 1991. These include:

1) Bruno's Showing (gold values of up to 15.7 g/t in breccia veins in close proximity to a major airborne magnetic/resistivity anomaly). 2) U2 North Zone (low gold values associated with arsenopyrite occur in a structural and stratigraphic setting similar to the Zone 1/AP Zone area).

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3) Stibnite Showing (low gold values associated with arsenopyrite and stibnite mineralization in a structure which has been traced along strike for 150 m).

In addition to the recommended exploration in the Zone 1, "R" grid, Beedee Zone and U2 grid areas, a re-examination of the Coul 2 claim geology is recommended in light of substantial Eskay Creek type mineralization being traced by American Fibre Corporation to within 2.0 km of the north boundary of the claim.

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1990 SUMMARY OF FIELD ACTIVITIES

UNUK RIVER PROJECT

1. INTRODUCTION

The area encompassed by the report comprises a 33-claim group known as the Unuk Claim Group, a 4-claim group known as the Coul Claim Group, the 2-claim Knip Group, a 3-claim group known as the Bou Claim Group and the single claim Irv (Figure 2). The property comprises 683 recorded units or approximately 17,075 hectares. The claims are recorded as follows:

5211	COUL 1	5236	UNUK 18
5212	COUL 2	5237	UNUK 19
5213	COUL 3	5238	UNUK 8
5214	COUL 4	5239	UNUK 16
5217	BOU 1	5240	UNUK 17
5218	BOU 2	5241	UNUK 13
5219	BOU 3	5242	UNUK 14
5220	KNIP 1	5243	UNUK 15
5221	KNIP 2	5245	UNUK 21
5222	IRV	5246	UNUK 22
5223	ICEY 1	5247	UNUK 23
5224	ICEY 2	5248	UNUK 24
5225	UNUK 1	5249	UNUK 25
5226	UNUK 2	6397	UNUK 26
5227	UNUK 11	6398	UNUK 44
5228	UNUK 12	6479	UNUK 28
5229	UNUK 3	6480	UNUK 29
5230	UNUK 4	6481	UNUK 30
5231	UNUK 9	6482	UNUK 34
5232	UNUK 10	6483	UNUK 36
5233	UNUK 5	6484	UNUK 37
5234	UNUK 6	8088	UNUK 50
5235	UNUK 7		

During the 1990 field season, work was performed on the following claims: Coul 1 (5211), Unuk 11 (5227), Unuk 12 (5228), Unuk 18 (5236), Unuk 19 (5237), Unuk 13 (5241), Unuk 14 (5242), Unuk 15 (5243) and Unuk 26 (6397). Work completed on Unuk 14, 15 and 26 prior to September 10, 1990, was previously reported in Assessment Report Number 20390 ("Geological, Geochemical, Geophysical and Diamond Drilling Report on the Unuk "C" Claim Group" by B.E. Gaboury, September 20, 1990). Therefore, it should be noted that the Statement of Expenditures accompanying this report does not include the value of work accepted for assessment in Report 20390. Malcolm Bell, Clive Ashworth, Ashworth Explorations Ltd., and Granges Inc. (Unuk 50) are the registered owners of the claims. The claims are held by Granges Inc. under option from Springer Resources Ltd. (75%) and Cove Resources Corporation (25%). The scope of this report is to present past work carried out on the property, outline areas of work in the 1990 field season, present results of 1990 field activities and finally recommend additional work required for the 1991 field season. Models utilized include epigene gold mineralization of the Brucejack or Premier deposits for structural features such as the AP Zone and Beedee Zone, and the epithermal/syngenetic Calpine model for stratigraphy encountered in the "R" grid area.

2. LOCATION AND ACCESS

The claims are all located in the Skeena Mining Division, approximately 1000km north of the city of Vancouver and 65km north of Stewart, B.C. on NTS map sheets 104 B/9 and 104 B/10, as shown in Figures 1 and 2.

Access to the area is gained by helicopter from Bell II on the Stewart-Cassiar Highway approximately 50km to the east.

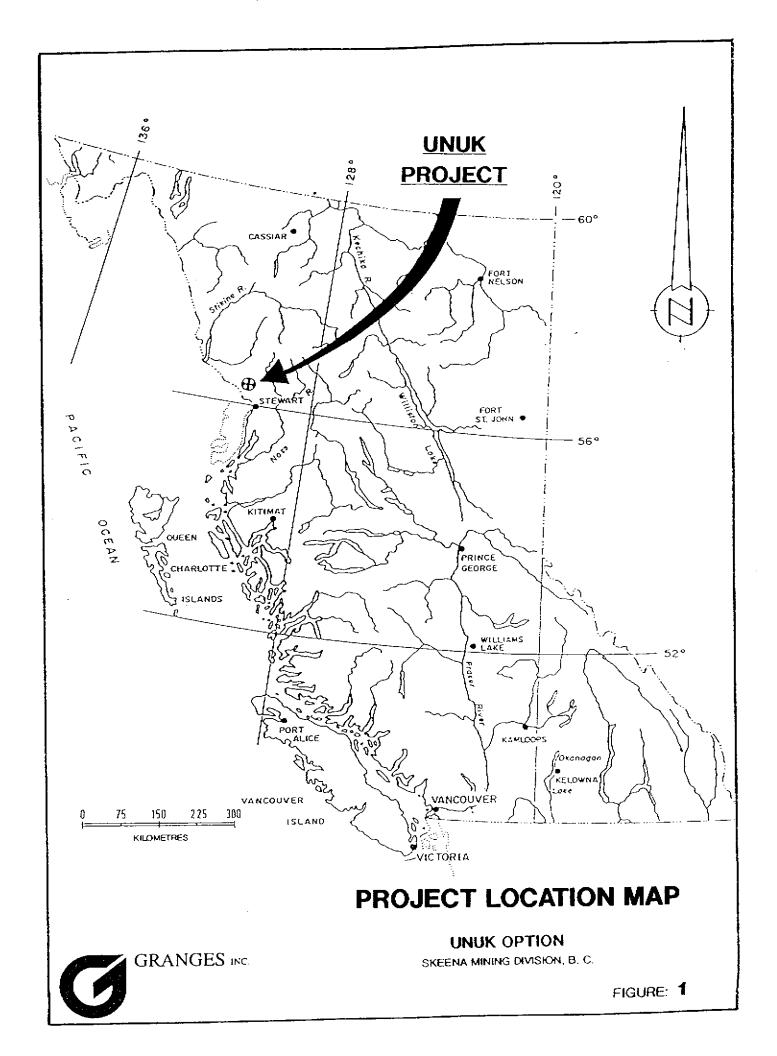
The property is characterized by steep vegetation-covered slopes up to 1220m (4000 ft) elevation and alpine conditions with ice fields and glaciers at higher elevations. Elevations, on the property, vary from 244m (800 ft.) at camp to about 2286 m (7500 ft.) at the top of the Beedee Zone area.

3. REGIONAL GEOLOGY AND MINERALIZATION

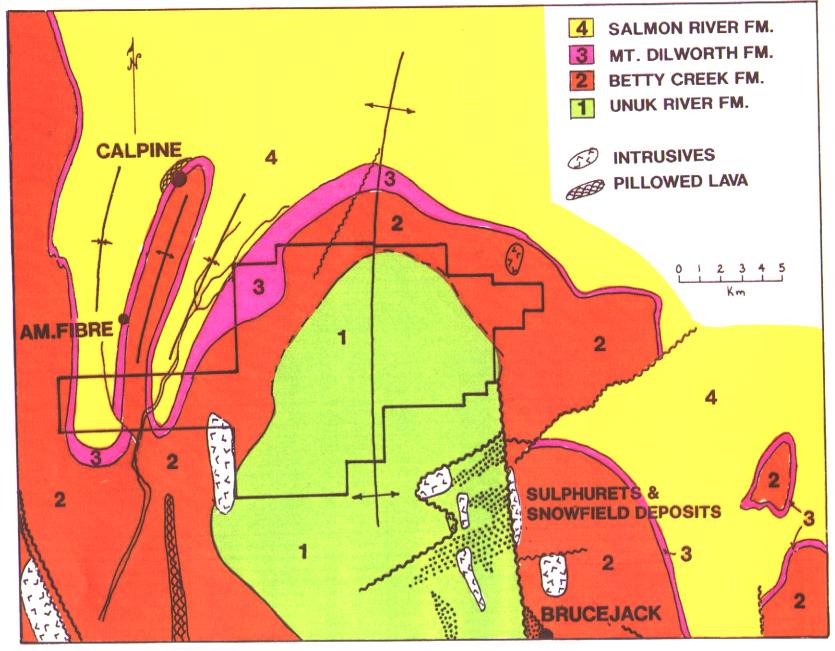
The project area is located within Stikinia along the western margin of the Intermontane tectonic belt. It is underlain by a thick volcano-sedimentary succession of Upper Triassic to Middle Jurassic age which is overlain by marine basin sediments of Middle to Upper Jurassic age (Figure 3).

Northeast of John Peaks a sequence of upper Triassic Stuhini Group and Lower Jurassic Hazelton Group sediments and volcanics is exposed. These units are further subdivided into three sequences which reflect increasing volcanism as time progresses:

- an older shelf sequence represented by thin-bedded siltstones, immature fine-grained wackes, impure limestones and andesitic tuffs;
- 2) a crudely layered sequence of andesitic tuffs and flows with minor limestone lenses;







REGIONAL GEOLOGY

Upper Sedimentary Unit		Siltsiones, conglomerate and turbidites	
Hanging Wall Andesites	01001001000	Andesitic pillowed flows, breccias and sills with mudstone interbeds	218 Deposit: Zn, Pb, Cu, Au, Ag, in massive sulfide layers
Contact Unit (Transition Zone)		Mudstone, chyolite and mudstone breccia	21A, B Deposits: Au, Ag, As, Sb, Hg, Pb, Zn, Cu in massive to disseminated sulfides and stockworks
Rhyolite Unit		Rhyolite tuffs and breccias	-
Footwall		Mudstone, dacite breccias and tuff.	#5 Zone, Emma Adit, Mackay Adit, Gossanous bluffs. Ag, Pb, Zn (Au) as stockworks, veins, breccias,
Dacites		Mudstone, wacke	and disseminated zones
Lower Volcano— Sedimentary Unit	~~~~ • • • • • • •	Intermediate tuff, wacke	

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Eskay Creek Stratigraphy (modified after Britton et al, 1989)

FIG. 3b

3) an overlying sequence of green-grey and purple andesitic to dacitic pyroclastics locally distinguished by coarse (up to 1 cm diameter) hornblende phenocrysts (Betty Creek Formation).

Lower Jurassic volcanism terminated with a thin but regionally extensive blanket of felsic pyroclastics known as the Mt. Dilworth Formation. Characteristic of this formation are variably welded tuffs, flowbanded rhyolites, bedded ash tuffs and dacitic lapilli tuffs.

Middle Jurassic Salmon River Formation rocks outcrop along the Unuk River valley and on the Prout Plateau. These consist of a thick sequence of thinly bedded turbiditic siltstones and fine sandstones correlative with the Spatsizi Group. Basal Salmon River Formation sediments, due to the coexistence of belemnite and Weyla fossils, are determined to be of Toarcian age.

Sedimentary and volcanic rocks of the project area have been cut by a variety of plutons representing at least four intrusive episodes spanning late Triassic to Tertiary time.

Major structural features apparent in the Unuk River area are north-trending folds and a major normal fault known as the Harrymel Creek Fault. A number of lesser normal faults which repeat stratigraphy are recognized at the toe of Bruce Glacier (Anderson, 1989), and there has been speculation that more such features exist in the area. The Mt. Dilworth Formation has been interpreted to be tightly folded through an anticline-syncline pair between Unuk River and Harrymel Creek and then more broadly folded through an anticline over the Unuk Claim Group. Some B.C. Department of Mines (BCDM) personnel have suggested that the tight folding west of the Unuk River may be re-interpreted as repetition of stratigraphy through faulting (Britton, personal communication, 1990).

Metamorphism has been determined to be lower greenschist facies of Cretaceous age characterized by conversion of clay minerals to white mica, saussuritization of plagioclase and chloritization of mafic minerals. Metamorphic grades may rise to lower amphibolite facies in contact aureoles peripheral to intrusives of the Coast Plutonic Complex.

3.1 <u>Target Types</u>

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Two important target types exist in the project area.

a. Gold mineralization at the Calpine or Eskay Creek deposit occurs as broadly stratabound mineralization in the 21A and 21B deposits. These are within the Contact Zone (a series of mudstones, rhyolites and tuffaceous mudstone breccias). Cross-cutting mineralization is also recognized as stockworks underlying the 21A and 21B deposits. This includes disseminated fissure vein gold-silver-lead-zinc mineralization with variable sericite-silica alteration and minor antimony, and arsenic mineralization within the rhyolites and disseminated sulfides in veins and shears in the footwall dacites. Associated metallic sulfides of the 21A deposit include stibnite, native gold, native silver, native arsenic, mercury, wurtzite, cinnabar, arsenopyrite, tetrahedrite, realgar, amalgam, aktashite, orpiment, sphalerite, galena and pyrite. Current reserve estimates (Dec. 1990) at the 21B zone Eskay Creek are 4,360,000 tons grading 0.77 oz/t gold and 29.12 oz/t silver (proven and probable).

The second gold target type is dominantly structurally b. rather than stratigraphically related. Original interest in the project area focused on the Brucejack deposit (Lyman, 1988; Adamec, 1988). Numerous intrusives plus volcanics and sediments of middle Jurassic age are cut by north to northwest trending faults. Intensely altered zones with sericite, K-feldspar, silica, carbonate and chlorite accompany these faults. Mineralization styles include low grade disseminations, epithermal stockworks and veins. Gold values are associated with pyrite, chalcopyrite, molybdenite, ruby silver, galena, stephanite, cerargyrite, electrum, native gold, tetrahedrite, friebergite, argentite, sphalerite and bornite. Combined reserves for the Peninsula and West Zones are estimated to approach one million tonnes grading about 10 g/t gold and 800 g/t silver. Intrusives similar to the Premier Porphyry (mineralizer at Brucejack) occur in the Beedee Zone area. Also, the AP zone is a structural feature with an alteration assemblage similar to that at the Brucejack Deposit.

Figure 3b is a stratigraphic column illustrating the position of gold, silver and base metal mineralization within felsic to intermediate volcanics and related sediments of lower to middle Jurassic age.

A correlation of general stratigraphy and specific units (like tuffaceous mudstone breccias) recognized in the Creek Zone (Gaboury, 1990) suggests some similarity between the "R" grid area and the Eskay Creek deposit.

4. PREVIOUS WORK AND RESULTS

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The claims discussed in this report were staked in 1986 and 1987 on behalf of Malcolm Bell, Clive Ashworth and Ashworth Explorations Ltd. Initial work in 1986 involved an airborne VLF-Mag survey commissioned by Hi-Tec Resource Management Limited, followed by a four day follow-up examination of the property geology by J.P. Sorbara and Associates. In September and October of 1987 Hi-Tec Resource Management Limited conducted a two phase reconnaissance exploration program (totalling 28 days) to look for precious metal mineralization similar to that found in the Brucejack Lake area. Hi-Tec carried out a similar program in September 1988 (16 days) to follow up the results of the previous year and to outline other areas of interest on which to focus future exploration efforts.

These preliminary reconnaissance-style investigations defined six areas of interest.

5. 1989 WORK PROGRAM

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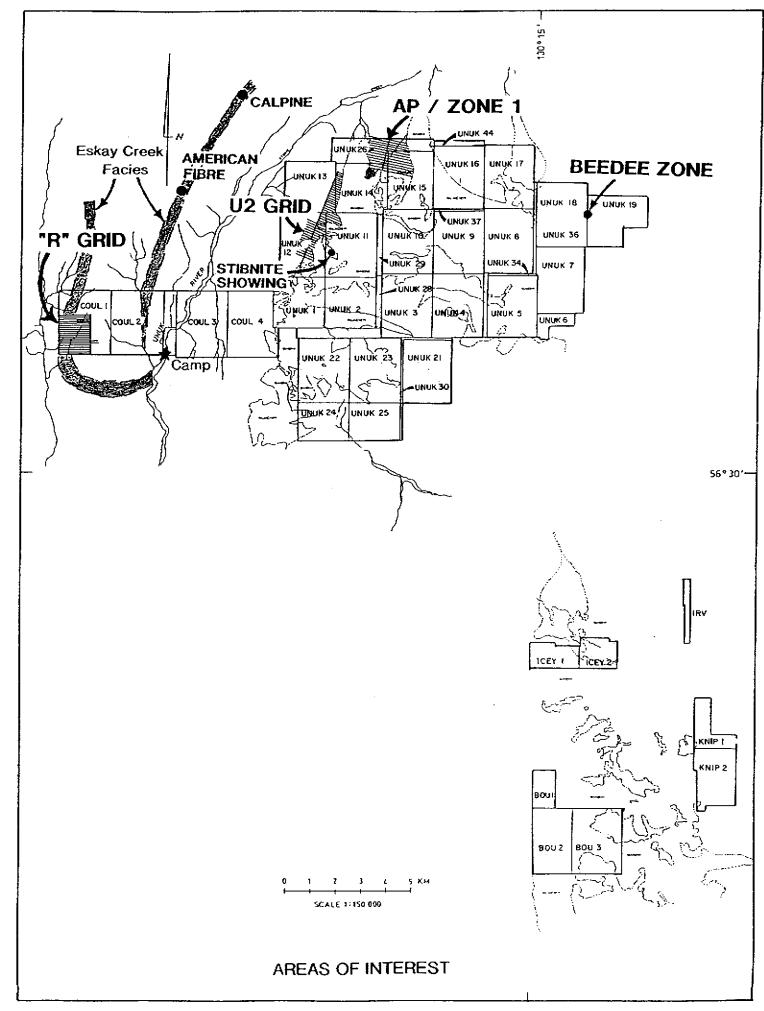
In keeping with the option agreement negotiated between Granges Inc. and Springer Resources/Cove Resources, a field camp was established in late June 1989 and an exploration program of geological mapping, geochemical and geophysical surveying and diamond drilling was conducted under the supervision of B.E. Gaboury, geologist for Granges Inc. This work is described in Gaboury, 1990.

Surface exploration activities in 1989 were initially divided between detailed work in the six areas of interest established from previous work and reconnaissance traverses in other areas (as yet unexplored) geared toward developing new targets.

Reconnaissance contour traverses involved 1:10,000 scale geological mapping, prospecting and collection of "B" horizon soil samples at 100 m intervals plus silt samples from any active streams encountered.

Detailed work on the "R" grid, "J" grid, Zone 1/AP Zone and Zone 2 areas (Figure 4) involved establishing surveyed control grids and collection of "B" horizon soil samples at 50 m intervals along wing lines. Ground based VLF-Mag surveys were carried out over the Zone 1 grid and the "R" grid. Follow-up work in the Beedee Zone involved more closely spaced reconnaissance traverses in an attempt to locate the source of highly anomalous soils collected by Hi-Tec Resource Management Ltd.

The last four weeks of the program involved 911 m of preliminary diamond drilling on the south end of the Zone 1 area (AP Zone) and the "Creek Zone" of the "R" grid. A total of \$1,030,606.00 was expended.



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6. RESULTS OF 1989 FIELD SEASON ACTIVITIES

6.1 <u>AP Zone/Zone 1 Trench Areas</u>

Two areas of interest, containing gold mineralization were outlined in 1989 activities on the Zone 1 area (Figure 4). The **AP Zone**, found in a follow-up of a 3160 ppb Au hosted by tuffaceous mudstones and brecciated welded tuffs was traced on surface with trenching. The zone is characterized by galenasphalerite-pyrite-arsenopyrite-(chalcopyrite) mineralization associated with shearing, brecciation, silicification, kaolinization, talc alteration, sericitization, carbonatization and possible albitization, hosted by felsic volcanic rocks of the Betty Creek (and possibly Mt. Dilworth) Formation. Although values of up to 56.5 g/t Au and 32 g/t Ag across 0.5 m were returned from chip sampling in surface trenches, considerably less favourable results were returned from similar mineralization and alteration encountered in subsequent diamond drilling (5 holes totalling 567 m). Best results were 1.5 g/t gold across 0.5 m.

The second area of interest in the Zone 1 area is underlain by mineralized coarse volcaniclastic rocks known as the **Zone 1 Trench Area.** Extensive trenching in this area returned gold values of up to 1.68 g/t but control for mineralization remained enigmatic until 1990.

6.2 <u>Cliff Zone</u>

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The **Cliff Zone** is a mineralized structure visible at the base of the cliffs between 600N and 1200N on the Zone 1 grid. Sampling in 1989 produced anomalous gold geochemical values ranging up to 1400 ppb. The zone also includes auriferous cross-cutting veins between 100N and 1200N and 100W. Anomalous soil geochemical values returned from the base of cliffs to the north, and a 10.3 g/t gold grab sample collected at 1800N/100E suggested that the zone extended north to the property boundary.

6.3 <u>"R" Grid</u>

Calpine-like stratigraphy consisting of a rhyolite-argillite sequence bounded to the west by andesites and to the east by dacites was recognized to exist in the "R" Grid area. Mapping/prospecting located mineralization in the Creek Zone (between lines 100 N and 200 N from 550 W to 750 W) which returned values of up to 7.33 g/t Au and 20 g/t Ag in grab samples of variably sheared pyrite-arsenopyrite mineralized siltstones and tuffaceous mudstones. Diamond drilling (3 holes totalling 344.43 m) returned best values of 1.77 g/t Au.

6.4 Beedee Zone

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The source of gold mineralization in the **Beedee Zone** did not become clear until late in the 1989 field season when siliceous base metal bearing breccia veins were discovered immediately above the soil anomalies outlined by earlier traverses. Values of up to 5.57 g/t Au were returned from grab samples collected. The area was of particular interest, being along strike of the Brucejack Lineament and containing numerous intrusive dikes and sills of material very similar in appearance to the Premier Porphyry, which is ubiquitous in the Brucejack deposit area.

6.5 <u>"J" Grid</u>

Preliminary grid mapping and soil sampling in 1989 in the "J" Grid area failed to repeat soil anomalies outlined by earlier workers or develop any favourable geological targets for gold mineralization.

6.6 <u>Zone 2</u>

Activities in the **Zone 2** area returned values, in grab samples, of up to 2.7 g/t Au from pyrite mineralized E-W trending fractures in dacitic volcanic rocks to the ESE of the Tarn Lake. Also, arsenopyrite mineralized fractures near the base of a felsic volcanic sequence 2 km to the north, very similar to the felsic volcanic sequence encountered in the AP Zone/Zone 1 area, returned values of up to 1.57 g/t Au in grab samples. Late in the 1989 field season, prospecting at the toe of a N-S trend icelobe south of the Tarn Lake led to the discovery of an angular "boulder" of massive sulfides carrying 1.4 g/t Au, 80 g/t Ag, 1.8% Pb, 0.17% Cu and > 10% Zn. The source was not located before inclement weather prevented further prospecting.

6.7 Other Areas

In addition to the higher priority targets, discussed above, several less significant target areas were outlined by the reconnaissance mapping activities. These are discussed in the 1989 summary of field activities.

7. 1990 EXPLORATION PROGRAM AND RESULTS

7.1 Zone 1/AP Zone Area

7.1.1 Work Completed

On June 22, 1990, under the supervision of B.E. Gaboury, geologist for Granges Inc., the Unuk River Camp was reactivated and two days later work commenced in the Zone 1/AP area. Activities completed during the 1990 field season in this area included:

- Re-establishment of pre-existing Zone 1 and AP Zone grids, and fill-in B horizon soil or talus slide fine soil sampling where warranted.
- Re-mapping of the Zone 1 grid plus more detailed prospecting and rock sampling in areas of interest outlined 1n 1989.
- 3) IP survey over areas of interest (determined from 1989 field season).
- 4) 13 hole diamond drill program.

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Re-establishment of the Zone 1 grid was accomplished primarily by Granges Inc. personnel with some minor linecutting by Gordon Clark and Associates (2 man days) in preparation for IP surveying. In conjunction with the Zone 1/AP Zone re-mapping program from June 24 to August 19, 1990, 169 rock samples and 6 soil samples were collected and submitted for analysis. In addition, 50 rock samples were collected and submitted for whole rock geochemical analysis. One hundred and nine diamond drill core samples were taken from previously unsampled portions of 1989 drill holes for geochemical analysis. Diamond drilling was carried out by J.T. Thomas Ltd., of Smithers, B.C.

Soil and rock samples collected were submitted to Acme Analytical Laboratories of Vancouver for 30-element ICP analysis, geochemical fire assay for gold and flameless AA for mercury. Fifty rock samples collected for whole rock analysis were submitted to Chemex Laboratories of North Vancouver. Appendix 1 is a list of rock samples (with descriptions) collected in conjunction with the mapping/prospecting activities. Appendix 2 includes Certificates of Analyses for rock and soil samples collected, and Appendix 3 is a list including rocks collected for whole rock analysis plus descriptions and analyses. Analytical methods are included with the individual certificates of analysis in Appendix 2.

IP surveying over areas of interest outlined in the 1989 field program was carried out by Peter Walcott and Associates of Vancouver, B.C. utilizing a Huntec 7.5 kw transmitter-generator and a BRGM Elrec 6 receiver in a poledipole array. A total of 80 man-days (16 survey days) was utilized in producing 9.175 km of IP pseudosections over the AP Zone and Zone 1 areas. Helicopter support for the survey totalled 11.6 hrs. A separate report was completed on this data (Walcott, 1990) and included as **Appendix 5**, but relevant results will be discussed as they apply.

7.1.2 <u>Zone 1 Trench Area - Geology, Geochemistry and</u> <u>Geophysics</u>

Remapping of the Zone 1 grid (Figure 5a) has provided a great deal of insight into the nature of the AP structure and its relationship with other major regional structural The Zone 1 area is characterized by a series of features. rhyolitic to dacitic flow rocks and associated coarse fragmental volcanic rocks, variably welded dacitic ash flow tuffs and a thick overlying crudely to nonbedded heterolithic pyroclastic breccia with occasional intercalations of fine bedded tuff or debris flow (blackish argillaceous matrix as opposed to the more sericitic tuffaceous matrix of the pyroclastic breccia). The nature of these rocks suggests near-vent facies volcanism. The volcanic sequence is cross-cut by a swarm of "felsic" to andesitic dikes which are commonly vesicular and produce peripheral brecciation, hydrothermal alteration and sulfide mineralization (pyrite, sphalerite, galena and arsenopyrite) of the host rock. In addition to these cross-cutting dikes are larger diabase bodies located in the northwest corner and the north central portion of the Zone 1 grid and in the AP Zone area itself (the AP Zone is noted for its multitude of cross-cutting, anastomosing diabase dikes comprising 10-15% of the area - Gaboury, 1990). The large diabase body in the NW Zone 1 area is characteristically black, aphanitic and magnetic but occasionally contains brecciated, pyritic, greenish altered sections usually at the edges of the intrusive or along fractures. The altered sections have been found, through thin section analysis and whole rock analysis to be a silicified, chloritized and carbonatized mafic rock. Similar alteration is observed in the AP diabase as well as the smaller sill-like diabase unit which occurs in the north central portion of the Zone 1 grid. extreme case of this type of alteration is observed in the "felsic" dike swarm in the Zone 1 trench area. These dikes, as well as undergoing alteration themselves, have brecciated, silicified and introduced sulfide mineralization into the host pyroclastic breccias.

Two North-South tie lines were IP surveyed (lines 800 W and 600 W). Although the sulfide mineralization is detected on 800 W as a moderately strong chargeability high, it cannot be traced through to tie line 600 W. A 1989 soil anomaly of up to 145 ppb Au occurs on a west-facing slope above the Zone 1 trenches (which tested sulfide mineralization related to a swarm of the E-W trending "felsic" dikes). The anomaly is located down slope to the west of the southeast contact of the large diabase body with the coarse pyroclastic breccia, and indicates several anomalous areas of high chargeability. One anomaly to the east of the 1989 soil anomaly is visible as a strongly gossanous pyritic contact zone at least 5-10 m thick.

7.1.3 Cliff Zone - Geology, Geochemistry and Geophysics

Soil anomalies in eastern portions of the **Zone 1 West** area are recognized as being spatially related to the sheared contact of the felsic volcanic sequence to the west (identified as very likely being the Mt. Dilworth Fm.) and a dominantly sedimentary sequence fitting the BCDM's current description of portions of the Betty Creek Formation.

Shearing at the felsic volcanic - sedimentary contact appears to be at very shallow angles (possibly a sheared bedding plane contact) and in many places a dominantly dip slip motion is indicated. The AP structure has been traced with IP from a Z-type flexure around 1350 N on the AP grid to the Cliff Zone at 700 N/275 W on the Zone 1 grid, a distance of approximately 500 metres (Figure 5b). The AP diabase (as traced by 1989 ground magnetic survey) appears to have deformed the AP structure (folded to the east as indicated by IP data) and was likely instrumental in producing the gold-poor ankerite-galena-sphalerite veins such as "Don's Vein" (Gaboury, 1990) in addition to the abundant near flat-lying tensional quartz veinlets which occur in trenches 1 and 10 in the AP Zone area.

The only apparent difference between the Cliff Zone and the AP Zone is that the AP Zone is observed to cross-cut stratigraphy while the Cliff Zone appears to crudely follow a lithologic contact. It is possible that the Cliff Zone is the major structure and that the AP Zone is a splay from it. Another such splay structure appears to originate from the main structure at 1200 N/250 W and extends southwestward at Az 225 towards "Red Knob", where gold levels in soil reach 420 ppb. This shows up as a weak chargeability high and a minor inflection in the resistivity on the IP pseudosection for line 900 N; it was intersected early in DDH AP-9.

IP has indicated that a continuous traceable zone of broad chargeability highs (which may have coincident resistivity lows or flanking resistivity highs) corresponds with the soil geochemical anomalies outlined in 1989 (Gaboury, 1990). This in turn approximately correlates with the sheared base of the felsic volcanics outlined by 1990 mapping (Figure 5a).

Where exposed, the Cliff Zone (at the base of the cliffs between lines 700 N and 100 N) has been found to carry consistently elevated gold values of up to approximately 1400 ppb (Gaboury, 1990). Between lines 1100 N and 1300 N the zone appears to be sinistrally drag-folded so as to produce an apparent displacement of about 200 metres to the west. This interpretation is supported by IP data. Smaller scale sinistral drag folds with steep northwesterly plunges are observed in ash flow tuffs around 100 N/250 W. Sinistral drag-folding is also observed to overprint diabase dikes in this area. Slickenside evidence, as well as plunges of small-scale drag folds, in this area, indicate an almost horizontal stress field.

The sequence of structural deformation events leading to what is today observed would then be as follows:

- 1) Development of a shear structure with dominantly dipslip displacement (Cliff Zone at sheared felsic volcanicsedimentary contact) plus splay structures (AP structure and "Red Knob" structure).
- 2) Emplacement of diabase dikes and larger diabase intrusive bodies with resultant deformation of pre-existing AP Zone and development of ankeritic veins (eg. Don's Vein).
- 3) Re-activation of shear zones by a horizontal dextral stress field producing sinistral drag folding and northwest trending siliceous auriferous veins such as those observed in the cliff between lines 1100 N and 1200 N.

Judging by the higher gold values observed in the northwest trending siliceous veins, it would appear that the later reactivation of the shear zone could have played an important role in the concentration of gold in the tensional regime created within the sinistrally drag-folded portions of the structure.

The correlation of IP, geochemical and geological evidence suggested that drilling of the Zone 1 structure was warranted. Results of this drilling are described in Section 7.1.6.

7.1.4 <u>AP Zone - IP Survey</u>

A preliminary pilot IP survey over the AP Zone, a structure known to have appreciable metallic sulfide content, was carried out early in the 1990 field season (Figure 5b) as a guide to assess the potential of any IP targets subsequently outlined elsewhere on the property. A continuously traceable zone of high chargeability and low resistivity was followed through a dextral fold to the immediate south of the AP diabase body and behind the collar of diamond drill holes AP-1 and AP-4. Since weak mineralization was detected in the top of AP-4, this IP anomaly represented a priority exploration target. Diamond drill targets were selected from the strongest portion of the IP anomaly. Results of the drilling are described in Section 7.1.6.

7.1.5 <u>Zone 1 East - Geology</u>

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A monotonous but structurally complex series of andesitic fragmental volcanics and argillitic to psammitic sediments were mapped on the Zone 1 East grid (Figure 6). No significant gold mineralization was detected in rock samples collected on this position of the Zone 1 grid.

7.1.6 Zone 1/AP Zone 1 - 1990 Diamond Drilling

Thirteen diamond drill holes totalling 2415 m were completed on the AP Zone/Zone 1 area between August 20 and September 21, 1990. Results are summarized in **Table 1**. Collar locations are depicted in **Figure 5a**. Diamond drill logs are included in **Appendix 4** and diamond drill sections in **Figure 14**. All core is stored on the property at the Unuk camp.

7.1.6.1 Discussion of 1990 Diamond Drilling

Targets drilled in holes AP-6, AP-7, AP-8, AP-9, AP-10, AP-11, AP-12 and AP-16 confirmed the presence of a fault structure at the base of the felsic volcanics encountered on surface in the Zone 1 area. Shearing encountered in the argillaceous and sandy sediments underlying tuff breccias, flow banded rhyolites, lapilli tuffs and variably welded ash tuffs of the felsic volcanic sequence is either steeply east or west dipping. Generally, only trace elevated gold values were encountered, associated with pyrite and trace arsenopyrite mineralization. Core recoveries were in excess of 90% but drilling was difficult and some holes (eq. AP-6) had to be abandoned before reaching their target depths. Despite use of drilling additives (Quiktrol, etc.) and considerable care, the broken felsic volcanics proved to be excessively abrasive to thin-wall diamond drilling equipment.

The highest gold values encountered in drilling the Cliff Zone structure was in holes AP-7 and AP-12 targeted to test the cross veins observed on surface between lines 1100N and 1200N. The gold values (up to 7.908 g/t) are found to be associated with arsenopyrite, sphalerite and galena mineralization in carbonate veins in tuffaceous mudstone. This is directly analogous to what is observed on surface.

Drilling of the AP structure (drill holes AP-13, AP-14, AP-15, AP-17, and AP-18) has confirmed the presence of a major cross-cutting steeply dipping fault structure hosted

TABLE	1:	SUMM	(AR)	Y OF	DIAMO	ND	DRIL	LING	;
COMPLETED	IN	THE .	AP	ZONE	/ZONE	1	AREA	IN	1990

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DDH		Angle/ Direction	Final Depth	Mineral. Encount	tered
No.	Location	(wrt true N)	<u>(m)</u>	<u>from - to</u>	description
AP-6	1350N/88.5W	-45°/Az 302	300.84	No significant	mineralization.
AP−7	738N/195W	-45°/Az 314	197.21	86.70-87.90	1.097 g/t Au & 2.0 g/t Ag across 1.2 m (true width \approx 0.75 m).
AP8	1175N/321W	-55°/Az 080	306.91	217.45-218.03	0.83 g/t Au & 2.2 g/t Ag across 0.58 m (true width \approx 0.33 m).
AP-9	1117N/258W (Zone 1)	-50°/Az 080	238.05	48.40-48.90	3.24 g/t Au across 0.5 m (true width \approx .32 m).
				219.05-220.05	2.04 g/t Au & 7.4 g/t Ag across 1.0 m in silicified argillite (true width ≈ 0.64 m).
AP-10	1600N/075W (Zone l)	-45°/Az 282	198.12	No significant	mineralization.
AP-11	1600N/003W (Zone 1)	-45°/Az 282	141.12	40.16-40.82	0.46 g/t Au across 0.66 m in altered diabase contact (true width \approx 0.47 m).
¥₽-12	1240N/094W (Zone 1)	-45°/Az 210	138.68	58.70-59.10	7.91 g/t Au, 148.6 g/t Ag, 0.65% 2n & 0.33% Pb across 0.40 m in carbonatized tuffaceous mudstone (true width \approx 0.28 m).
P-13	1503N/948E (AP Zone)	-45°/Az 165	35.66	No significant hole abandoned.	mineralization,

TABLE 1 (Cont'd.)

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DDH		Angle/ Direction	Final Depth	Mineral Encoun	tered
<u>No.</u>	Location	(wrt true N)	<u>(m)</u>	<u>from - to</u>	description
AP-14	1503N/948E	-50°/Az 165	243.8	166.20-172.20	0.79 g/t Au, 28.2 g/t Ag, 0.07% Cu, 2.62% Zn and 0.90% Pb across 6.0 m in brecciated welded tuff (includes a 1.5 m interval carrying; 2.07 g/t Au, 54.4 g/t Ag, 0.03% Cu, 4.12% Zn, & 1.05% Pb). True width \approx 3.86 m).
AP-15	1503N/948E (AP Zone)	-58°/Az 165	264.26	No significant encountered.	mineralization
AP-16	905N/456W	-45°/Az 134	190.2	encountered be appears to cor:	fied welded tuff tween 68.0-80.0 m respond to "Red e, no significant encountered.
AP-17	1502N/1020E (AP Zone)	-47°/Az 134	86.6	Hole abandoned 62.30-64.30	in shear. 1.25 g/t Au, 20.7 g/t Ag, 0.035% Cu, 1.087% Zn & 0.9% Pb across 2.0 m in brecciated welded tuff (true width \approx 1.36 m).
				70.10-71.10	3.77 g/t Au, 6.6 g/t Ag, 0.46% Zn & 0.53% Pb across 1.0 m in brecciated welded tuff true width \approx 0.68 m).
AP-18	1502N/1020E (AP Zone)	-59°∕Az 134	93.0	76.55-77.55 88.5-91.40	1.19 g/t Au and 2.5 g/t Ag across 1.0 m (true width \approx 0.52 m). 2.63 g/t Au and 19 09 g/t Ag
					19.09 g/t Ag across 1.85 m (true width ≈ 0.95 m).

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by welded tuffs, tuffaceous mudstones and argillaceous sediments. Gold values of up to 3.77 g/t plus associated silver, lead, zinc and copper values have been encountered in this structure accompanied by intense silicification, mild to moderate sericitization and kaolinization, and occasional chlorite alteration. Drilling was extremely difficult and over some intervals core recovery fell to less than 50% within the structure.

In addition to testing the Cliff Zone structure, diamond drillhole AP-9 probed the Red Knob structure which can be observed on surface between 700N and 900N and between 300W and 400W. Hole AP-9 intersected an upper zone (16.9-20.0 m downhole) of shearing, silicification and sulfide mineralization with anomalous gold values (up to 177 ppb). In addition, gold values of up to 3236 ppb were intersected in tuffaceous mudstones between 48.40-49.90 m. Between 219.05-220.05 m downhole, moderately sericitized tuffaceous mudstones carry 2.04 g/t Au across a 1.0 m interval. Diamond drill hole AP-16 was drilled to test the Red Knob structure below the soil anomaly. Fracturing and chlorite alteration similar to that observed on surface and in the upper zone in AP-9 was observed, but no significant gold mineralization was intersected. Core angles observed for fracturing and quartz veining were frequently less than 45° $(occasionally < 10^{\circ}).$

7.2 <u>"R" Grid Area</u>

Sec. 1

7.2.1 Work Completed

Field activities in the "R" grid area in 1990 included:

- 1) Refurbishment and extension of "R" grid.
- Soil sampling over grid extensions and tie-in of former grid to new grid (Figure 8a).
- 3) Mapping and prospecting of entire "R" grid.
- 4) IP surveying of priority areas (Figure 8b).
- 5) Diamond drilling; 3 holes totalling 655.5 m.

Refurbishment of the "R" grid commenced June 26th and a total of 10.0 km of line extensions plus new lines were added by the end of July. The grid currently extends from the south boundary (Coul 1, line 500 S) to 900 N and from 0 W to the west claim boundary between 1200 W and 1300 W.

The refurbished portion of the grid has been remapped and 1989 soil sample locations tied into the refurbished grid. The 1990 soil geochemical data plus anomalies outlined by 1989 activities are presented in **Figure 8a**. Samples were collected with a grubhoe from B soil horizon where developed, or from talus slide fines. Between August 4 and

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August 16, a total of 13 survey days (65 man-days utilizing 9.9 hrs of helicopter support) of IP was carried out, covering 6.8 line km of higher priority target area selected from pre-existing geological and geochemical data. IP results are summarized in **Figure 8b**.

7.2.2 <u>"R" Grid Area - Geology, Geochemistry and Geophysics</u>

A series of generally east-dipping rhyolitic to dacitic volcanic rocks with minor thin argillaceous interbeds has been mapped within the anomalous soil area outlined by 1989 field activities. These are bounded to the west and northwest by propylitically altered andesitic volcanic rocks and to the east by a sequence of dacites, argillites, siltstones and occasional coarse epiclastic rocks (Figure 7).

Remapping of the refurbished "R" grid and mapping of the "R" grid extensions led to a better resolution of the rhyolite and argillite units in the felsic volcanicsedimentary sequence which is believed to be, in part, the same time stratigraphic unit and depositional environment as that hosting the Eskay Creek Deposit. The sequence consists of at least two major argillite units and two major rhyolite units. Strata appear to be striking NNE and inclined steeply to the west in areas north and west of the Creek Zone (site of drilling in 1989), and inclined less than or equal to 55 degrees to the east in areas to the south of the Creek Zone. The sequence is bounded to the west by andesites including massive flows and feldspar phyric tuffs; and to the east by dacites which include dacitic feldspar phyric tuffs, andesitic to dacitic tuffs, andesite breccias, crystal-rich dacitic ash flow tuffs, and minor conglomerates, greywackes and argillites.

An altered andesite (chloritized, silicified and pyrite mineralized) or magnesium-metasomatized rhyolite has been traced as a moderately strong NNE trending chargeability anomaly (Figure 8b) in correlation with geological mapping. No significant gold geochemical anomaly exists in soils collected over this area (highest value = 16 ppb Au) but there is a patchy overlying arsenic soil anomaly. This altered unit, in close proximity to the western edge of the felsic-sedimentary sequence, may represent the hanging-wall andesite which occurs to the immediate west of the orebearing Transition Zone in the Eskay Creek Deposit.

Further to the south, on lines 100 S, 200 S, 300 S and 400 S, a weak chargeability anomaly can be traced along the eastern edge of the rhyolite-argillite sequence. Similarly, a weak chargeability response is found associated with the western edge of the sequence. Corresponding gold and arsenic geochemical signatures (up to 58 ppb Au and up to 201 ppm As) occur in soils over these IP anomalies (Figures 8a and 8b).

A weak chargeability response was found to occur over the Creek Zone which was drilled in 1989. The anomaly is centred to the east of DDH R-1 and indicated dips in this area are to the east (Figure 8b).

7.2.3 "R" Grid - 1990 Diamond Drilling Program

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Between September 22 and September 28, 1990 three diamond drill holes totalling 655.6 m were completed on the "R" grid in order to test IP/geochemical/geological targets outlined earlier in the field season. These are summarized in **Table 2**. Drill hole collars are depicted in **Figure 7**. Diamond drill logs are included in **Appendix 4** and diamond drill sections in **Figure 15**. All core is stored on the property at the Unuk camp. Diamond drill hole R-4 was targeted to test the IP and a weak geochemical anomaly associated with the altered andesite unit located immediately west of the favourable rhyolite-argillite sequence. Diamond drill holes R-5 and R-6 were targeted to test the two parallel IP/geochemical anomalies to the south of the Creek Zone.

TABLE 2:SUMMARY OF DIAMOND DRILLING COMPLETED
ON THE "R" GRID IN 1990

Hole		Angle/	Final Depth	Mineralization Encountered
<u>No.</u>	Location	Direction	<u>(m)</u>	<u>from - to <u>description</u></u>
R-4	100S/890W	-50°/Az 266	221.6	No significant mineralization.
R-5	3785/ 7 30W	-53°/Az 266	273.4	No significant mineralization.
R-6	176.5S/761W	-45°/Az 246	160.63	No significant mineralization.

7.2.3.1 Discussion of 1990 Diamond Drilling

Diamond drilling on the "R" grid was considerably easier than in the Zone 1 area and core recoveries are usually excellent. Diamond drill hole R-4, collared in altered andesite, was drilled to test a strong IP conductor to the west of the rhyolite-argillite sequence mapped earlier in the 1990 field season. A thick sequence of graphitic argillites was encountered rather than the "altered rhyolites" which occur in sparse outcrops in this area. No significant gold values were encountered in this hole.

Black argillites, siltstones and minor felsic to intermediate tuffaceous horizons were encountered by drill holes R-5 and R-6. As in drill hole R-4, less felsic volcanic material was intersected than was indicated by surface mapping; further discussion of this observation will be made in section 8.4. Stratigraphy appears to dip from 30 to $>80^{\circ}$ to the east as indicated by surface measurements. Again, no significant gold values were encountered in drill holes R-5 and R-6.

None of the 1990 drill holes encountered tuffaceous mudstones. The tuffaceous mudstones in the Creek Zone, drilled in 1989, are host to gold mineralization associated with arsenopyrite. They were mapped on surface between lines 0 and 600N in 1989.

7.3 U2 Grid Area

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7.3.1 Location

The U2 grid area is centred on Tarn Lake which occurs to the west of the Zone 2 area covered in the 1989 field season (Figure 4). It is located on claims Unuk 11 and Unuk 12 at an elevation of 1070 m to 1860 m, and encompasses the areas sampled in 1989. The grid covers the felsic volcanic sequence (hosting gold mineralization of up to 1.57 g/t) which bears great resemblance to rocks of the Zone 1 area (2 km to the south), and the area including the Tarn Lake and pillowed andesites (where a massive sulfide boulder containing 1.4 g/t Au, 80 g/t Ag, 1.8% Pb, 0.17% Cu and > 10% Zn was discovered late in 1989).

7.3.2 Work Completed

Activities completed during the 1990 field season in the U2 grid area included:

- 1) Establishment of a compass/topofill picket grid.
- 2) B horizon soils or talus slide fines grid sampling.
- Preliminary grid mapping and prospecting in priority areas established from soil sampling and 1989 prospecting results.
- 4) Minor IP surveying over 1989 Aerodat airborne resistivity/magnetics anomalies.

A 4 km long picketed baseline was established at a bearing of Az 020 true north through the east edge of the Tarn Lake below and to the west of the Zone 2 area. Compass/topofill section lines were established in conjunction with grid soil sampling and preliminary prospecting.

Over the period from August 17 to August 21, 2.4 line km of IP were carried out over the two Az 150 bearing airborne anomalies outlined by the 1989 Aerodat Survey.

7.3.3 Soil Geochemistry

Soil sampling of the U2 grid was completed August 23rd and mapping and prospecting were initiated immediately thereafter. Along with 1989 airborne geophysical data and 1989 reconnaissance geological/geochemical work, available soil results from the 1990 program were utilized to prioritize prospecting/mapping areas. Rock and soil geochemical data are presented in Figure 9. Background soil gold values in the U2 grid area appear to be of the order of <10 ppb. The following anomalous areas with \geq 40 ppb Au in soil were selected for more detailed follow-up mapping and prospecting:

- 1) 2500N/2150E to 2600N/2100E to 2700N/1975E to 2800N/1950E
 (trend of anomaly ~ Az 150 to Az 160).
- 2) 2900N/2550E (trend of anomaly ~ Az 155).
- 3) 1900N/2275E to 2000N/2275E and 2200N/2250E (anomaly trends along the west edge of a ~N-S trending ice lobe).

7.3.4 <u>Geophysics</u>

The focus of activities in the Zone 2 area (Gaboury, 1990) in 1990 was two parallel airborne resistivity lows. One with an accompanying intense magnetic low signature, which trends roughly Az 150, is located for the most part under the N-S trending ice lobe. The second is located almost due north of the Zone 2 area, immediately north of an E-W trending ice lobe which extends toward the Tarn Lake (Figure 9).

Three short lines of IP over the southernmost airborne anomaly outlined the following features:

Line	2800N/1750E	to	1875E:	broad resistivity low and chargeability high
Line	2700N/1700E /1750E			chargeability high resistivity low (W dip ?)
	/2100E			broad chargeability high; chargeability contrast at 2350E
	/2250E	to	2350E:	sharp resistivity contrast; metal factor peak at 2325E to 2375E

Line 2600N/1750E to 2250E: broad chargeability high; peaks at 1775E /1800E to 1850E: resistivity low /2025E : resistivity low

Airborne and IP data suggest that a major NW-SE structural feature exists under the N-S trending icelobe.

One IP line across the northern edge of the north airborne anomaly indicated a broad chargeability high from 1625N to 1925N with a resistivity low from 1875N to 1925N.

7.3.5 <u>Geology</u>

The following is a description of areas of interest outlined in 1990 in the U2 grid area. Their general locations are depicted in **Figure 10. Figures 11 a,b,c** are more detailed geological maps of the U2 grid at 1:2000 scale.

The U2 grid is underlain by a sequence of coarse andesitic fragmental volcanics (described in BCDM mapping as Stuhini Group) overlain to the west by a sedimentary sequence including conglomerates, pillow andesites, siltstones, fossilferous greywackes and minor tuffs which is in turn overlain to the west by a felsic volcanic sequence (which includes flowbanded and spherulitic rhyolites, variably welded tuffs and tuff breccias).

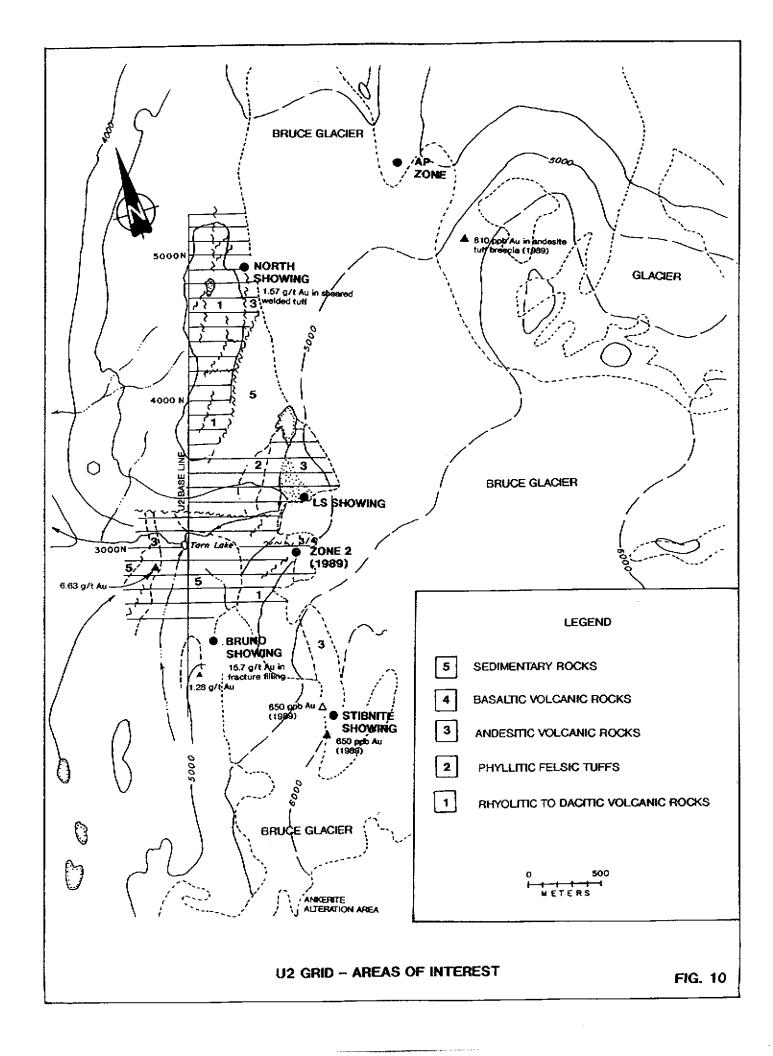
7.3.5.1 Bruno's Showing

To the south of the Tarn Lake, east-west trending breccia veins occur within north-south trending tuffaceous dacites and andesites along the western edge of a north-south trending ice lobe which separates the dacitic volcanic rocks of Zone 2 to the east from pillowed hornblende-porphyritic andesites, agglomerates and greywackes to the west. Τn addition to the breccia veins, the area contains abundant shallow west-dipping tensional quartz veins. Magnetic and resistivity data from Aerodat's 1989 survey suggest a very strong resistivity and magnetic low trending approximately north 45 degrees west across the ice lobe. A massive leadzinc sulphide boulder was discovered late in 1989 at the base of the ice lobe. It was found to carry 0.4% Cu, >1.5% Pb, >10% Zn, >90 g/t Ag and 1.5-2.0 g/t Au. It is possible that its source is related to this cross-structure.

Mapping in 1990 has outlined a wedge of sedimentary rocks of flysch association including argillites, conglomerates, volcanic mudstones and arenaceous tuffaceous sedimentary rocks (Figure 11c). These rocks appear to trend about Az 020 and dip about 45 degrees to the east. Portions of this sequence are sheared and brecciated, containing

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abundant quartz-carbonate-sulfide mineralization (includes pyrite as well as traces of sphalerite, galena and chalcopyrite). Slickensides on sheared bedding planes indicate dip slip motion with the eastern block upthrown with respect to the western block. The pillowed andesites, agglomerates and finer grained related tuffaceous rocks which occur to the south and west appear to be in fault contact with the sedimentary wedge (this fault contact is observed in one location where pillowed andesites are separated from the sedimentary sequence by a thin shear trending about Az 120). This trend is semi-parallel to the trend of narrow sphalerite rich breccia veins carrying up to 15.7 q/t Au, which can be found to the south along the western edge of the N-S trending ice lobe. One such vein has been found to reach a width of about 30 cm and is traceable for about 50 m to the edge of the ice. Ĩn addition to these east-west mineralized veins, several N-S trending zones of shearing and brecciation can be observed at the toe of the ice lobe.

A grab sample, collected in carbonate-altered greywacke (located at 2850N/1775E) along strike of the southern airborne resistivity anomaly (Figure 11b) in 1990, has returned 6663 ppb Au and 5.6 ppm Ag. This altered auriferous zone may be related to the auriferous breccia veins of Bruno's showing.

7.3.5.2 <u>U2 North Zone</u>

To the north of the Tarn Lake, in the vicinity of 5100N/2200E, is a resistant, slightly gossanous ridge of felsic volcanic rocks very similar to those of Zone 1. These include flow-banded rhyolites, spherulitic rhyolites, dacitic to rhyolitic ash-flow tuffs (variable degrees of welding), and numerous fine ash to coarse polymictic pyroclastic tuffs. Not only are these rocks lithologically similar to those of Zone 1, they are also similar in their sheared contact to the sedimentary rocks (of the Unuk River Formation?). A further analogy to Zone 1 is the auriferous nature of the sheared felsic volcanic-sedimentary contact (up to 1.57 g/t obtained in grab samples collected in 1989). Similarly north-plunging drag folds are observed in the more felsic volcanic members on the east side of the west-dipping sequence. However, in a preliminary overview of the area, these appear to be dextral and more shallow north plunging.

During the 1990 field season, tuffaceous and argillaceous sedimentary rocks have been mapped and resampled (Figure 11a). Up to 388 ppb Au was detected in brecciated welded tuffs containing arsenopyrite mineralization. Results verified anomalous gold, silver and arsenic levels detected in 1989. Mapping of an extensive zone of fracturing was initiated but additional sampling and mapping are required.

7.3.5.3 Stibnite Showing

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Disseminated to massive stibnite ± tetrahedrite-tennantite has been traced approximately 150 m along strike to the north, associated with fracturing and carbonate alteration (Figure 11d). Antimony values up to 19,454 ppm have been returned but gold values are only slightly anomalous (up to 231 ppb Au). Chip sampling across a felsic dike in the area returned values of 1.847 g/t Au and 5.4 g/t Ag across 0.5 m. The elevated gold in this sample was correlated with high arsenic rather than antimony.

7.3.5.4 <u>LS_Showing</u>

Mapping and prospecting in August 1990 has led to a re-investigation of a zone of limonitic and carbonate alteration with generally flat-lying quartz-carbonatesulfide veins known as the LS showing (Figure 11c). The general trend of this zone is about Az 150 to Az 160 degrees and appears to be associated with shearing within a series of felsic, sericitic, tuffaceous sediments. It also appears to correspond with the weaker more northerly airborne resistivity anomaly mentioned earlier in section 7.3.4. Alteration, degree of quartz veining and amount of chalcopyrite mineralization appear to intensify southeastward toward the northern flank of the E-W ice lobe, and subsequently diminish to nothing toward the northwest. A zone of quartz veining up to 1.5 m wide, associated with shearing within the coarse andesitic fragmental, has been discovered within the area of limonitic alteration. It is found to carry appreciable chalcopyrite, galena and sphalerite mineralization and has been traced along strike for ~ 150 m. Only sporadic low gold values were returned from chip sampling of this structure.

7.3.5.5 <u>Tarn Lake Area</u>

East-west trending shearing containing sparse sphaleritechalcopyrite-galena mineralization has been mapped and sampled in 1990 to the east of Tarn Lake (Figure 11c). The structure cross-cuts a roughly north-south trending series of felsic and intermediate volcanic rocks. Preliminary sampling, however, has not indicated any significant associated gold mineralization. The zone, up to 20.0 metres wide, has been traced along strike for about 200 metres.

7.4 <u>Beedee Zone</u>

Preliminary prospecting of the Beedee Zone indicated that the auriferous brecciated argillites sampled late in the 1989 field season are related to E-W trending non-porphyritic "felsic" dikes cutting across a series of argillites, calcareous siltstones and arenites near the base of Beedee Ridge (Figure 12). Dikes are similar to those in Zone 1 and are likely of altered mafic composition. This zone of brecciation and sulfide mineralization occurs immediately upslope of gold-anomalous soils collected in 1988 and 1989. Initial rock grab-sampling was carried out to verify the results and make a preliminary assessment of continuity of gold mineralization. Mapping and further prospecting of the area of interest, as well as detailed chip sampling, were carried out in early September. Sporadic values up to 5.1 g/t Au were returned from sampling of sulfide mineralized brecciation which occurs peripheral to these E-W trending "felsic" dikes. The zone of mineralization did not exceed a width of ~ 0.5 m.

7.5 South Claim Groups (Knip, Irv, Bou and Icey Groups)

Due to the difficult nature of access and the lower priority of targets developed in the South Claim groups in 1989, no work was carried out in these areas during the 1990 field season.

8. DISCUSSION, CONCLUSIONS AND RECOMMENDATIONS

8.1 <u>AP Zone</u>

A moderately strong, continuous zone of brecciation, silicification, carbonatization and lead-zinc-(gold)-(silver)-(arsenic) mineralization extends over 300 m along strike from trenches with massive sulfide mineralization at surface, along the eastern edge of the Bruce Glacier, to the intersections in diamond drill holes AP-17 and AP-18 on section 1500N of the AP grid. The zone is clearly indicated by a strong broad IP response of coincident high chargeability and low resistivity. The IP indicates that the zone extends further to the north but appears to diminish in intensity north of section 1650N (AP Grid). It also indicates that the AP structure melds with the Cliff Zone structure which was tested by diamond drill hole AP-7.

Gold values returned from 1990 drilling of the AP Zone structure do not exceed 3.77 g/t, and appear to generally correlate with high arsenic values and often the visual presence of arsenopyrite. The highest gold values obtained on surface <u>along</u> <u>the AP structure</u> are those encountered in the 1989 chip sampling of Trench 12 on section 1193N. A true width interval containing 6.27 g/t Au, 43.4 g/t Ag plus Pb, Zn and Cu values was sampled across 1.5 m. The zone, beyond this point, appears to trend southwest under the ice. Due to technical difficulties presented by the presence of glacial ice, this portion of the structure was not drill tested.

In order of decreasing priority, two diamond drill holes are recommended to complete the evaluation of gold potential associated with the AP structure:

- Collar location 600N/375W (Zone 1 co-ords), -45°/Az 155; a 150 m drill hole to test the 400 m gap between AP-7 and AP-17, and AP-18. Gold values up to 3.77 g/t have been encountered in these holes and IP data suggests the structure is still quite strong across this untested gap.
- 2) Collar location 225N/730W, -45°/Az 160; a 100 m drill hole to test the AP structure beneath trench 12 (Gaboury, 1990). This hole would pass through the footwall to test the extension of the surface mineralization at depth. (Diamond drill holes R-5 and R-6 were targeted to test the two parallel IP/geochemical anomalies to the south of the Creek Zone).

8.2 Zone 1 Trench Area (Zone 1 Grid)

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A diamond drill hole collared at 1300N/705W was originally proposed in 1990 to test a wide zone of sulfide mineralization at the contact of a large altered diabase body with the extensive coarse heterolithic tuff breccia of the west Zone 1 area. There is a coincident IP response and gold-silver-arsenic geochemical expression associated with this contact.

The mineralization encountered at 1800N/100E in 1989 (10.3 g/t Au) is of a similar type of contact zone, but is not as intense as that observed in the vicinity of the Zone 1 trenches. Sulfide mineralization associated with the diabase contact in the Zone 1 trench area has not been drill tested.

It is recommended that the originally proposed hole at 1300N/705W be completed (collar location 1300N/705W, $-50^{\circ}/Az$ 282 for 150 m).

8.3 <u>Cliff Zone (Zone 1 Grid)</u>

The Cliff zone sampled in 1989 was drill tested in 1990 by DDH AP-7 and returned a core width intercept of 1.097 g/t Au and 2.0 g/t Ag across 1.2 m (true width ~ 0.75 m). The same structure was also tested by holes AP-9 and AP-12 on section 1150N. Hole AP-9 returned a value of 2.04 g/t Au and 7.4 g/t Ag across 1.0 m (true width ~ 0.64 m) while AP-12 intersected 7.91 g/t Au and 148.6 g/t Ag across 0.4 m (true width ~ 0.28 m). The structure was traced geologically, geochemically and geophysically northward, through a flexure around section 1200N, to the north boundary of the property. Drill testing of the - 25 -

structure north of section 1200 N did not return favourable results and so further work in this area is not warranted. However, an untested gap of approximately 400 m exists between the intercepts of AP-7 and AP-9.

Three holes are recommended as follows:

- One 200 m diamond drill hole, collared at 950N/100W, -45°/Az 305, to test the 400 m gap between AP-7 and AP-9.
- 2) A 150 m somewhat lower priority diamond drill hole collared at 1425N/300W, -45°/Az 102 to test the still untested sheared felsic-sedimentary contact. Thickening of argillites, the wide zone of shearing and the subparallel orientation of the welded tuff/coarse pyroclastic tuff breccia and the northeast diabase body indicates possible continuity of an AP/Cliff Zone structure in this area.
- 3) One 85 m diamond drill hole collared at 900N/330W, -45° Az 282 to scissor drill hole AP-16 (since core angles in AP-16 indicate that the Red Knob structure may dip to the east here).

In addition, a proposed contingency of 165 m of diamond drilling is recommended for Zone 1 targets.

8.4 <u>"R" Grid</u>

In 1990, coincident IP and soil geochemical stratigraphic targets were tested by three diamond drill holes to the south of the Creek Zone drill tested in 1989. In addition to failing to intersect an auriferous horizon these holes did not intersect appreciable felsic volcanic horizons or the tuffaceous mudstones such as those hosting gold mineralization on surface in the Creek Zone. Tuffaceous mudstones, which are the important basal members of the mineralized Transition Zone at Eskay Creek, have been mapped at, and north of, the Creek Zone on the "R" grid.

The "R" grid area remains a priority target. It possesses the same stratigraphy and stratigraphic succession (i.e. indicating that the favourable horizon encountered on the "R" grid is on the same fold limb) as the Eskay Creek Deposit to the north. Subsequent work should focus on the area between the Creek Zone drilled in 1989 and the furthest northerly traced extent of the tuffaceous mudstone on line 600N. More detailed sampling (including trenching) is recommended to evaluate gold-bearing potential in the tuffaceous mudstones and rhyolite breccias in this area. The possibility exists that the tuffaceous mudstones encountered between ON (the Creek Zone) and 600N represent a former submarine scour channel. If the orientation of this channel was dictated by the same northerly plunges observed at Eskay Creek, the 1989 drill holes may have been targeted under

8.6 <u>U2 Grid Area</u>

Only a preliminary investigation of areas of interest developed from geochemical anomalies developed in 1989 and from the 1990 soil sampling prospecting program was completed. Three of the areas of interest discussed earlier in section 7.3.5 of this report warrant further, more detailed, follow-up by mapping and sampling (including surface trenching).

8.6.1 A Discussion of Gold Potential in the U2 Grid Area

D. Alldrick (1985), in his discussion of the upper Andesitic sequence of the Unuk River formation, indicates that this sequence of andesitic lavas and volcaniclastic rocks are host to many base and precious metal-rich sulfide deposits. These are generally quartz-carbonate vein systems where the veins enclose fragments of wallrock, chalcedonic quartz and sulfides (breccia veins?). Gold/silver ratios generally lie in the range of 100:1 to 3:1. Deposits falling in this category include Big Missouri, Consolidated Silver Butte Prospect, Silbak, Indian Mine and East Gold Mine. The extensive alteration zone and quartz-carbonate ladder vein systems of the LS and Bruno's showings as well as the Stibnite Showing area may bear some resemblance to this type of deposit. In an earlier paper D. Alldrick describes, in more detail, the mineralization at the Scottie Gold Mine (Alldrick, 1984). Two features shared with the LS and Bruno's showings of the U2 grid are:

- 1) Veins trending Az 110.
- Occurrence of parallel veins with pyrrhotite and pyrrhotite-pyrite with associated base metal sulfide mineralization.

Although the andesitic fragmental volcanics hosting the Stibnite Showing appear to very likely be members of the Unuk River Formation V, (Alldrick 1988), the pillowed andesites, crystal tuffs and heterolithic volcanic conglomerates of Bruno's showing bear more resemblance to the Hanging Wall Andesites of the Eskay Creek Facies.

Observed similarities between stratigraphy on the U2 Grid and Eskay Creek Hanging Wall Andesite Sequence:

- 1) Occurrence of pyrobitumen in some sedimentary members.
- 2) Well developed pillowed andesites.
- 3) Occurrence of tuffaceous mudstone composed of felsic volcanic chips and blocks in a mudstone matrix.

4) Occurrence of belemnites and Weyla pelecypods in cobbles in U2 grid conglomerate in the Bruno's showing area indicates we are dealing with the Lower Salmon River Formation.

J.M. Britton <u>et al</u> (1989) suggest that the thick sequences of pillowed andesites which occur near Divelbliss Creek, Mt. Madge and Mt. Shirley have been correlated by the GSC with the Bajocian Salmon River Formation. The pillowed andesites of the U2 grid area appear to be along strike of those of Mt. Madge to the south. This correlation with the Eskay Creek Facies coupled with the repeated occurrences of massive sulfide mineralization carrying up to 15.7 g/t Au make this area a high priority for detailed follow-up and eventual diamond drilling.

Due to ore grade gold-silver-zinc values detected in surface sampling in the Bruno's Showing area plus the nearby strong geophysical anomaly, this area is a first priority target for the U2 grid area. The North U2 area is next in priority to Bruno's Showing. Based on identical stratigraphy and similar structure and nature of mineralization, an AP structure-type target is anticipated. Utilizing the concept of repetition of stratigraphy through high angle reverse faults, such as reported by Anderson, 1989 (Figure 13), illustrates how the AP structure can be repeated in the north U2 grid area.

8.6.2 <u>Recommendations for Continued Exploration of U2 Grid</u> Targets

Following, in order of decreasing priority, are recommendations for U2 grid areas of interest:

8.6.2.1 Bruno's Showing

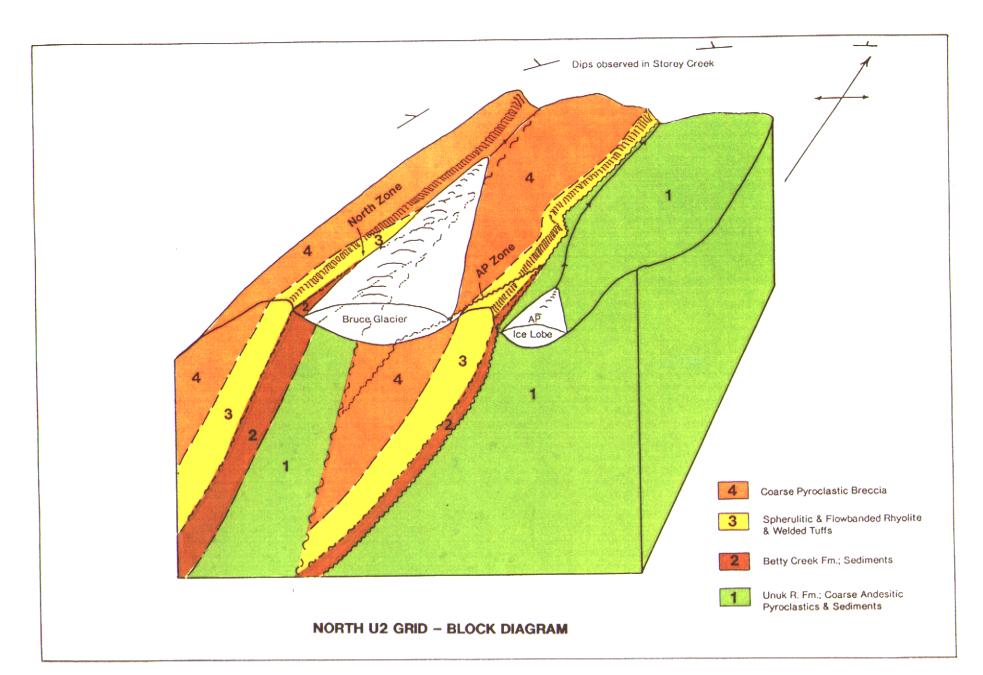
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- 1) Continued prospecting and mapping.
- Trenching of sphalerite-mineralized breccia veins (10 days @ \$800/day).
- 3) IP over selected areas (3 km @ \$2,000/km).
- 4) Contingency of 500 m of diamond drilling, is proposed for all U2 grid targets.

8.6.2.2 North U2 Grid

- 1) Continued prospecting and mapping.
- 2) Trenching of arsenopyrite mineralized sheared welded tuffs (5 days @ \$800/day).
- 3) IP over sulfide mineralized structures (utilizing AP structure model) (3 km @ \$2,000/km).
- 4) Portion of 500 m diamond drilling contingency recommended for U2 grid targets.



8.6.2.3 Stibnite Showing

- 1) More detailed surface evaluation of the stibnite-bearing structure along the entire exposed strike length.
- Trenching of gold-anomalous portions of structure as well as gold-bearing dike sampled in 1990 (5 days @ \$800/day).
- 3) Additional prospecting and mapping of zones of ankeritic alteration observed along strike to the south.

8.6.2.4 LS Showing and Tarn Lake Area

Apart from continued mapping and prospecting of the U2 grid, no additional work is proposed for the LS showing area.

8.7 <u>Beedee Zone</u>

Trenching across the auriferous sulfide-mineralized breccia zones peripheral to the East-West trending "felsic" dikes of the Beedee Zone is recommended. High gold levels in soils collected higher up Beedee ridge indicate that more of these auriferous zones exist. Completion of a 1:2000 scale topographic map of the Beedee zone from air photos, flown late in 1990 will provide required control for additional, more detailed mapping of this area.

8.8 <u>Coul 4</u>

Anomalous stream sediments were collected in 1989 near the foot of John's Peaks on the Coul 4 claim (traverse #10). Graphitic argillites were encountered in some stream beds but outcrop exposure is sparse. The BCDM in their latest investigation of this area propose that the pillowed andesites of the lower Salmon River Formation are along strike of this area. This is the same stratigraphic unit which caps the Eskay Creek deposit. Since pillowed andesites were also encountered along regional strike of this area to the north on the U2 grid, more detailed follow-up prospecting and mapping are suggested.

9. STATEMENT OF 1990 EXPENDITURES

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Expenses incurred on Unuk 14, 15 and 26 and subsequently reported in Assessment Report Number 20390: "Geological, Geochemical, Geophysical and Diamond Drilling Report" by B.E. Gaboury, September 20, 1990, are omitted from this Statement of Expenditures.

Geologists Wages (266 man days)	\$ 71,908.02
Unuk River Field Camp Costs	110,690.77
Communication (B.C. Tel, courier, postage)	16,810.45
Transportation (Helicopter, 359 Hrs.)	268,259.48
Mob - Demob (crew and gear to Bell 2)	12,490.15
Line Cutting (10 km)	
Gordon Clark and Associates Ltd.	22,070.91
Geophysical Survey - IP	
(11.70 km on Unuk 11, 12, 14 and Coul 1) Peter E. Walcott & Associates Ltd.	25,789.25
Diamond Drilling (655.62 m in AP-13 to AP-18 on Unuk 14	
913,52 m in R-4 to R-6 on Coul 1)	
J.T. Thomas Diamond Drilling Ltd.	106,497.53
Geochemical Analyses & Petrographic Work	28,044.60
Drafting and Report Writing	18,977.09
Office Overhead	68,153.82
Total	\$ <u>749,692.07</u>

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CERTIFICATE OF QUALIFICATIONS

I, Bernard E. Gaboury of Nanaimo, British Columbia do hereby certify that;

- (1) I am a project geologist for Granges Inc. with offices at 2300, 885 West Georgia Street, Vancouver, B.C., V6C 3E8.
- I am a graduate of University of Manitoba, Winnipeg,
 Manitoba, with a BSc(Hons) degree in Physical Chemistry and an MSc degree in Geology.
- (3) That I have practised geology for twelve years.
- (4) I have been a member in good standing of the Association of Professional Engineers Province of Manitoba since 1983.
- (5) I personally supervised the field work carried out on the Unuk River Project in 1990.

Dated at Vancouver, B.C. this 14th day of January, 1991.

Bernard & Galenge

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Bernard E. Gaboury BSc Hons, MSc, P. Eng.

CERTIFICATE OF QUALIFICATIONS

I Arthur John O'Donnell, of Delta, British Columbia do hereby certify that:

- 1) I am Exploration Manager for Granges Inc. with office at 2300-885 West Georgia Street, Vancouver, B.C., V6C 3E8.
- 2) I am a graduate of Saint Francis Xavier University, Antigonish, N.S. with a BSc degree in geology. I also took an extra year of geology at Dalhousic University, Halifax, N.S.
- 3) That I have practised my profession for thirty years.
- 4) I have been a member in good standing of the Association of Professional Engineers of the Province of Ontario since 1970 and the Association of Professional Engineers Province of Manitoba since 1980.

Dated at Vancouver, B.C. this 24th day of May 1989.

AGO-M

A. J. O'Donnell, P.Eng.

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APPENDIX 3

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Whole Rock Lithogeochemical Data

Sacole Nucher	Description	Location	Sample Number Al203	BaQ	CaO Fe2O3	K20	NgD	MnO	Na20	P205 5102	T:92	L01
WR 1 pillsw	ed annacito	i kn SSM of tarn lake in Jone 2 area	XR 1 14.50	0.15	6.38 10.71	K.04	5.25	0.16	1.83	0.58 49.94	ė.74	2.06
	nded rhyolite	1390 N/200 W - Jone 1 grid			0.16 1.34							
WR 3 felsic		1380 N/330 W - Jone 1 grid	wR 3 14.26									
WS 4 felsio	dike	1205 N/340 N - Ione 1 grid	WR 4 14.05									
WR 5 felsio	dike	1420 N/230 W - Jone 1 grid	WR 5 8.77									
	ash flow tuff	1330 N/280 W - Ione 1 grid	¥R ± 13.62									
	pyroclastic flow	1419 N/297 W - Zone 1 grid	¥R 7 10.72									
	ovroclastic flow	1440 N/265 M - Ione 1 grid	¥R 5 15,47									
	tic shyplite flow, the cy	055 N/635 W - "R" grid 012 N/592 W - "R" grid	WR 9 11.29		3.97 7.71							
	tic dacite.(5% plag chancerysts) tuff, 5-10% pumice fragments	955 N/423 W - Zone 1 grid			3.17 9.72							
	ediate to felsic dike	975 N/135 W - Zone 1 grid	FR 12 15.56									
	fied felsic ash tuff	220 S/850 W ~ "R" arid	\$8 15 13.11									
	ed coarse felsic pyroclastic	1725 N/880 W - Zone 1 grid	2R 14 11.98	0.14	1.22 4.24	3, 50	1.04	0.03	1.35	0.04 72.71	ė.13	3.02
WR 15 *andes	itic" dike in sediments	925 N/370 ¥ - lone1 grid	¥8 15 14.25									
WR 16 basalt	ic andesite flow/flow braccia	620 N/960 E - Ione I	WR 15 13.55									
WR 17 diabas		00H AP-1 at 75.5 m.	WR 17 14,44									
¥8 19 diabas		1630 N/525 W - Ione 1 grid	¥R 18 14.31									
WR 19 rhyoli		930 N/850 ¥ - Ione 1 grid	WR 19 14.34									
wR 20 altere		1770 N/600 W - Zone 1 grid	#R 20 14.60									
WR 21 alters		1500 N/850 W - Jone 1 prid	¥R 21 13.65 ¥R 22 14.73									
WR 22 altere WR 23 altere		1500 N/800 W Zone 1 grid 1600 N735 W - Jone 1 grid	WR 22 14.73 WR 23 14.63									
WR 14 altere		1685N/645W - Zone 1 grid	WR 24 13.52									
WR 25 diabas		1500N/800W - Zone 1 grid	WR 25 14.20									
WR 25 altere		1710N/600W - Isne 1 grid	WR 25 16.58									
¥R 27 diabas	e	1550N/645W - Ione 1 grid	¥R 27 15.49	0.23	2.97 10.08	3.05	1.58	0.19	4.24	0.58 57.19	1.50	2.14
¥R 28 rhyeli	te autobreccia	1200N/285N - lone 1 grid	WR 28 14.44	0.28	2.61 8.16	4.50	1.82	û.14	1.97	0.42 60.25	1.05	3.94
¥R 29 inter≞	ed (-) felsic dike	1000N/200N - Ione 1 grid	WR 29 11.90	0.12	0.29 1.86	5.82	0.41	0.03	1.34	0.01 75.13	0.15	0.90
WR 30 mafic	dike	1300N/500W - Ionel grid	WR 30 14.33									
WR 31 felsic		1380N/540W - Jone 1 grid	WR 31 15.42									
	r "2 feldspar" porchyry	Mitchell Glacier area	WR 32 16.72									
WR 33 Feldsp		Beedee ridge (near saddle)	#R 33 16.55									
WR 34 granod		unit Se, ridge S.E. of A.P. Ione	WR 34 12.11 WR 35 13.65									
WR 35 diabas WR 36 andesi		1680N/570E - Ione 1 grid 1305N/700E - Ione 1 grid	WR 35 13.85 WR 35 13.97									
	e dike with epidote stringers	1700K/500E - Tone 1 grid	WR 37 12.42									
WR 38 darite	· · ·	080N/1020W-*R* grid	WR 38	••••			2.07			0.00		
WR 39 rhyoli		100N/925¥-*R* grid	¥R 39							0.00		
¥R 40 gtz-ch)	l. schist	00H AP-1 8 53#	¥R 40 10.93	6.24	2.34 2.97	3.55	<u>9.38</u>	0.08	2.48			3.04
XR 41 andes;	te tuff breccia	DDH AP-1 0 62m	WR 41 13.98									
WR 42 daciti		DDH AP-1 @ 24z	WR 42 11.30	0.19	1.68 5.06	4.21	0.73	0.10	1.36	0.15 70.22	0.34	3.77
	ow (lenticular) tuff	DDH AP-4 6 8.9m	WR 43 13.51									
	flow (possibly "black toff")	DDH AP-4 é 18.3e	WR 44 14,47									
WR 45 altered		DDH AP-4 é 26s	WR 45 11.88									
	ited dasita tuff	DDH R-1 0 102.3m	WR 45 11.38	<u>0.04</u>								
	, feldspathic andes. tuff ic, andesitic ash tuff	020N/450N-"R" grid	WR 47 18.59							0.26 57.01		
	phyric dacitic tuff	410N/1050W-"R" grid	WR 48 17.02							0.40 47.94		
	acitic ash-lapilli tuff	OON/120N-"R" grid 350N/050W-"R" grid	WR 49 14.54							0.09 61.33		
	this dacite tuff	400N/070W-"R" grid	WR 50 13.86 WR 51 16.27							0.58 49.03 0.11 56.95		
	rhyolite flow breccia	410N/440W-"R" arid	VR 52 11.32		0.33 2.56							
	h black rhyolite bx.	358N/0504-"R" grid	WR 53 15.36							0.24 50.01		
	eygdal. altered andesite	60N/375W-"R" grid	WR 54 16.63							0.18 47.15		
WR 55 cherty,	flow banded rhyclite	990N/295W - Zone 1 grid	WR 55 12,55							0.06 75.17		
	ash flow tuff	1452N/2064 - Ione 1 grid	WR 56 11.42		0.30 1.77							
WR 57 felsic		975N/135E - Ione 1 grid	WR 57 12.64		6.56 10.40							
NP 58 andesit		350N/020H-*R* grid	WR 58 12.99		8.82 10.38							
	- green altered	1515N/BIOW - Ione 1 grid	WR 59							0.00		
WR 20 diabase	GIKE/STOCK	900N/250W - Ione 1 grid	WR 50							0.00		
WR 51 WR 52		1170N/875W - Zone 1 prid	WR 51 13.63	0.16	5.92 8.31	3.2-	2.10	0.19	2.55	0.54 54.23	1.35	8.27
¥R 63		1250N/850W - Zone 1 grid 1250N/850E - Zone 1 grid	¥8 62 15.04	V.18 A 10	5.01 5.68	· · · · ·	2.55	9.34	0.37	0.41 47.94	1.12.1	1.00
48 54		1250N/850E - Ione I grid 1250N/875W - Ione I grid	WR 63 8.95	0.12	9.11 14.33 6 14 - 54		9.31 5. sr	e. ei	0.12	0.24 64.46	0.61	- 97
¥R 25		1200N/873N - Zone 1 grid 1200N/100% - Zone 1 grid	WR 64 13.59 WR 65 19 36									
WR 55		1250N/760W - Lone 1 grid	WR 65 19.36 WR 66 13.73									
#R 67		1690N/625N - Jone 1 grid	WR 67 14.96	0.17 0.75	5.44 9.94	24.77 7.77	1.09	0.00 6 76	V. 99 7 10	N. DZ DI. / S. A 71 SE 14	:.35 ; EA	0.00 7 67
WR 55		Dike 4 - Jone 1 grid	WR 65 13.33	0.75	0.08 1.72	20 2 2 41	1107 6-60	0.20 0.01	0.07 6 77	0.10 JC.10 0.18 74 50	1.04	2.72 1.64
¥R 69		255N/560W - "R" grid	MR 29 13,44	6.16	3.18 11.13	4 57	1.50	0.95	0.20 7.60	9.17 /7.23	0.20	8,00
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9. STATEMENT OF 1990 EXPENDITURES

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Expenses incurred on Unuk 14, 15 and 26 and subsequently reported in Assessment Report Number 20390: "Geological, Geochemical, Geophysical and Diamond Drilling Report" by B.E. Gaboury, September 20, 1990, are omitted from this Statement of Expenditures.

Geologists Wages (266 man days)	\$ 71,908.02
Unuk River Field Camp Costs	110,690.77
Communication (B.C. Tel, courier, postage)	16,810.45
Transportation (Helicopter, 359 Hrs.)	268,259.48
Mob - Demob (crew and gear to Bell 2)	12,490.15
Line Cutting (10 km)	
Gordon Clark and Associates Ltd.	22,070.91
Geophysical Survey - IP	
(11.70 km on Unuk 11, 12, 14 and Coul 1) Peter E. Walcott & Associates Ltd.	25,789.25
Peter E. Walcott & Associates Ltu.	23,103.23
Diamond Drilling (655.62 m in AP-13 to AP-18 on Unuk 14	
913.52 m in R-4 to R-6 on Coul 1)	
J.T. Thomas Diamond Drilling Ltd.	106,497.53
Geochemical Analyses & Petrographic Work	28,044.60
Drafting and Report Writing	18,977.09
Office Overhead	_68,153.82
Total	\$ <u>749,692.07</u>

SAMPLE RECORD SHEET

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	1. 4 7 4						SAM	MPLER:		
			: Zone / Type of Sampling: <u>grab</u>	Туре о	of Analy	, als:	O Elen	ment I	c P/F	A Au
SAMPLE NO.	LOCATION	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	au	aq	Ca	Zn	PB	As	Hq
/	1105N 112W	geal.	2-4 cm wipe gtz un in Shed lithic tuff, 15-25 90 diss Dy 110-1540 504		390	434	18891	2942	12257	рут. 17,000
2	1145N 145W	geal.	speared lithic toff and 570% diss. py	861	25	5	14	19	1921	60
3	1170 IN 145 W	gral.	silicians fractures adj. to sheak zone, 1-3% dis por	3273		46	231	60	2851	5500
4	1170N 155 W	gral.	gassanaus Practices Rhydite int 1-3% diss py.	10758	1	243			25614	6800
_ 5	1100N OFSW	glab.		44	10.3	18	250	51	155	460
6	1850N1 040 EF	plab.	sheared, flas banded Rhyslite and 5-10 & d.55 py	54	1.1	14	148	18	8	
7	1800N 040E	geab.	sheared, fla, banved knydile up 5-10% diss ou	15	0,1	4	25	16	68	
8	890N 330W	/	shenced Chaplite (Flan band) in fault/shear 5% diss pu	8	0.4	6	55-	4	29	
9	950N 277W	<i>•</i>	andesitie & dyke 5% -15% diss py in tait / shear	13_	5.3	41	512	41	123	
10	960N 275W		sheared physite 3-5% py in sheare any minor chlorite	8	5.2	25	547	35	31	
//	<u>119811 146E</u>	glab.	dyke (andes, le () 10- 15% diss. py		1.5	16	370	105	19	
_/2	1300N OIOW	geol.	Rhydite dyte? an minor py 1-206.	3	0.1	9	114	57	17	
	1650 N 040W	glal.	Flaw bonder Rhyplite 2-440 disseminated Py.	4	01	5	35	9	5-	
14	168511 030W	geal.	flow bonned etyplite 412-575 diss py	3	01	5	59	14	64	
15	1775N 040W	grab.	Flas banded Rhyolito, Fractured up 2-5-90 24	9	0,1	5-	34	19	47	
· ·	1750N 025E 1575N 250W		Plan hanoed Rhypolite ? 3-576 d. 58. py	3	<u>e</u> 1	4	21	22	2	
		1	Flow bonned Rhyslite? up < 2% d. 58 py.	6	0.4	6	116	10	12	
20	1400N 525W 1630N 1010W		Dake (? type of Dake) x-cutting strat 5-8% diss py	Lost	SAMP/e					
21	1702N 970W	geal.	gte-chl-ankeete vien along fault	2	1.1	6	38	259	3.	
** Please n	rint using black ball p	glal	812 - Anterite Vein	8	0,1	4	69	6	4	[

*** Please print using black ball point pen ***

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Grid: Zong /

Type of Sampling: _____

Type of Analysis: _____

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SAMPLE NO.	LOCA	TION	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	Aa	Aq Dom	Ca	ZR	PB	Rs	Ha
22	540 N	560 W	grab	carbonate computer bex, docte luff, 3-5% diss py	81	0.6	16	151	4	59	80
23	850N	475 W	grab	patchy diss sy in massive chyslite toff	17	0.6	8	46	12	30	90
24	875IN	410 W	geat	epyditecto deate ash tuft, 1-2% diss py		0.2	6	106	2	7	80
25	GION	400W	grab	sheared ducitic debas flow, 5-10% py blebs	208	1.6	12	87	23	657	160
26	909N	40cW	geab.	sheared docitic debeis flow, 10-20% py	160	0.8	12	98	20	25	110
27	925N	370W	qual	Ma parrord phydite , Tr. Py	lost	Ample					1
28	BROW	385W	gral.	decitic Ash flow tuff 2-3% by in 6/265	71	0.1	7	13	16	86	80
29	690N	335 N	grat	sheared Ash flow full, 1-2010 py, minor blebs	2	0.1	13	76	14	8	60
50	FOON	ASOW.	9606	1-2 m sheak Fone, Fe-cach her 10-20% py	322	1.8	14	492	124	615	190
	BBSN	025 E	QC16	andesitic, cachonate altered dyke Rock	4	0.1	12	141	2	14	3 3 0
3,2	885N	OZŦE	ghal	less allowed grey-bearn areathering andesitic dyke	1	0.1	13	114	2	17	50
33	- 1	0406	geat-	fault care perid & caching to infilling, by blebs	31	0.2	15	30	2	69	2400
34	<u>84511 </u>		grab	ankerite ber vein , Tr-196 ry, minor stut py	3	0.1	в	145	2	2	100.
36	430N	775W	grab	Rugelite WI Tr. pg	7	0.1	້	108	2	7	180
37	13001	Fas W	geal	Rhyplite 81- 10-15% py	8	0.1	6	109	11	20	1500
38	15001	850W	grab.	Rhyplite? 2% py	4	0.2	5-	191	う-	z	180
39	1370 N	7+00 W	ARU 6	Chyolite 5-876 diss. py	7:	0.1	6	200	2	5	620
40	1380N	630 W	gen.6.	Thyslite 10% Py ay minor chloritic alteration	6	0.2	9	10.7	12	8	730
41	1590N	535W	qual.	Rhyslite 2-3% py	7	0.1	6	164	z	3	180
4.2	159010	535 W(B)	geal	dialase ?, Rhyslife ?	21	0.1	6	164	2	3	180

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	t - to	0 4		*7				SA	APLER:	<i>*</i>	
— —		GVER (: <u>Zonel</u> Type of Sampling:	_ Туре	of Anal	ysis: _				
SAMPLE NO	LOC	ATION	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	au	aq	Cu	Zn	Pb	As	Hg
43		415 W		3% diss py, te po wkly chloritic Rhyplite	2	0,1	<u>ppm</u> 6	 	<u></u>	<u>2017</u>	Pan
44	1425 N	650W		Rhyplite Ex Cy 1-3 % py	4	0,1	4	199	2	4	360
45	15 SON		11	Rhyalite as 1-5% Py, Tr po	3	0,1	12	139	7	2	620
_46	1500N		1 '	- Rayolite 61 1-3º15 py	3	0.1	6	139	2	2	220
47		420W	1/	Physite dyke? 3% py	4	0.1	9	147	11	2	230
48		420W		theplite dyke? as Tr. po, 30% py in fractures	6.	0.1	11	140	2	7	180
<u>49</u>		200 W		Tuffs. Rhydite al 3% diss pu	4	0.2	6	83	6	4	130
50 51		230W		Rhyplite tofts? Tr to 19/2 py	1	0.4	10	96	20	5	180
52		ZBOW		Felsic dyke, (Rhyplite) 1-5% Py	B	0.1	9	176	//	8	780
53	1360N	275W	geal.	Ryplite my 2 3% Py	//	0.1	9	144	13	4	540
54	1360N			Flow banded Rhyslite ? 3-5% diss py	10	0.3	9	17	_1	ão	220
55	1	260W	geal.	Rhyslite up 306 py, Tr 5ph	5	0.1	5	336	22	4	840
56	1400N		gea6	Quarte vein. > 10 cm wide	12	.1	18	19	4	58	12000
57	1400N	6206	geal.	Felsic dyke with 15% diss py	5	0.1	7	83	4	13	240
58		650W 475W		- Thys/ite Tx	lost	Sample.					
59	I	480 W	/ /	- Rhoplite in weak chlorite alteration, 3% py	+	<i>0,1</i>	4	108	2	S	130
60	1	600 W	· I	Eliphile in act che alt a te py		Ample				 	ļ
61	1400N	700E	gear.	Algolite	20	0,1	_6	159		4	400
62		570E	grab.	Otz vinning w/ 5% py (Vein 2 5- 7 cm wille)	3	0,1	36	25	2	9	110
* Please p	rint using b			shear in tuffaceous Rhyplite and graphitic tuffs/sens	10	0.1	23	41	9	2	50

SAMPLE RECORD SHEET

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	11 1	o i.		-7				SAN	APLER:		
		IVER #13	²⁴ Grid:	Zone / grip Type of Sampling:	Туре	of Analy	/sis: _				
SAMPLE NO.	LOC	ATION	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	au	aq.	Ca	Zn	76	As	Ng
63	1580N	6ast	gral.	py and pyen bitumen in shear zone wy gte	15	 	35	142	25-	<u>ррт</u> 85-	710
64	1610N	625E	geals.	py and pyen bitumen in shere fore wy gtz	12	02	34	235	34	210	880
65	119DIV		geal.	pyenclastic breecia is intense silicitication <295 diss pyonter		0.3	10	348	9	11	2500
66	1190N	603W	glat.	pyeoclastic by pervasive bl. silie, my alt to fe-oxide	1	01	7	128	5	8	380
67	1160 N	550W	glal.	pypo clastic bx, parasive fol, silie, milt to Fe-oxide.	19	0,1	9	146	7	12	320
68	1800N	030E'			2.411	49	14	209	45-	821	840
69	1372N		grab_		1	0.1	5	78	<u>5</u>	10	760
70	1100N	NOW	gral	Bemwidth of gte filles fractures wy Aspy, py, shp (Tr)	4123	11.7	10	1246	220	165.22	350
_71	1710N	585W	gral.	altered basalt, diabase wi 5% py	3	0.1	41	71	14	8	230
72	1420N	850W	geal.	altered pasalt?, dialase in contact as Rhya: = 5% py	. 1	0.1	9	84	14	8	110
73	1750N		grab.	altered diabase w 2.5% diss. py	7	0.2	7	72	17	19	<i>230</i>
74	IALON		geab		10	0.3	69	63	12	82	40,000
75	540N				20	0.1	60	74	9	5	80
	545N	775W			1	0.1	58	75-	7	10	70
77 78	1590N				ゔ゙	0.1	10	134	a	2	120
	<u>1450N</u>	730W	GEA6		6	0.1	33	70	//	4	140
79	<u>430N</u>	850W	GRA6		7	0.1	5	108	2	2	180
		OSOW !			48	1.7	6	104	5-	112	60
<u>81</u> 82		175W		Fractice filling, 290 py in flow banned Physlites	54	0.2	4	1	17	144	
** Please p	1400M	215W	grab		1.5	1.0	5	4	13	63	90

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SAMPLE RECORD SHEET

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							SA	MPLER:		
Project:	UNIUK KIVER	Gric	d: <u>Zone /</u> Type of Sampling:	Туре	of Analy	/sis:				
SAMPLE NO	LOCATION	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	au	aq.	Ca	Zn	Pb	As	Hq
83	1390 N 14	OW geab.	Rhyolite up Koolinitization?-sericite - limonite 2-3% py	8	- <u>A</u> pm Or /	10	<u>,2010</u> 3/	29		<u>pyim</u>
84	1450N 160	W grab	Rhydite tuff? Sheared as 2-3% drugy + cubic by	1	0.2	7	207	35	1.2	+
85	1475N 02		gass Anous Rhyplite of serieitic Kaol. Alt, 5-10% DY	14	1.0	6	68	26	3	-
86	1425N 020	1 7	1 cm wive fracture 3-5% diss. py	10	1.0	10	15	10	2	
87	145011 700	} /	6 cm wive fractures, 5% py	R	0.1	9	59	16	Z	<u> </u>
88	1500N 65		across 6 cm wipe Fracture, 2-5% diss. py	1	0.1	6	78	8	6	
89	1185N 07		10 cm across 4m fracture 45- 25% diss Du	<i>41 -</i>	2.1	1.0	16	20	166	1300
<u>90</u> 91	1200N 07		= 50 cm within 5m wive shear as bleached quike, =5% py	1057	SAMple					
92	1050N 105		ADSSANOUS, Fissile argillite	4	.3	28	31	10	वे।	40
93		W geal	shear in lithic Rock, andesiticy = 5 % diss py	/3	2.7	14	84	47	35	180
94	1800N 52	W geal	green brecciated diabase up black mtx contains diss py	2	0.1	4	145	4	4	200
95		W GRab	2mchip across alt zone on Nedge of green-grey das pyroclostics	50	2.4	3	16	16	120	310
96		nw grab.	H.W. contact of 7-10m wide alt. Fore	40	1.7	4	58	16	118	330
97		7W geab	across 3.5 m wise zone in dac. = 20% Dy	4	0.5	8	140	14	23	2400
98		W peal.	bleached dacide in 3-5% py, possible falsie dyte	_/	0.1	6	6	9	7	730
99	1550N 500	W geal	n3 m. wide secie.te Zone in dacites, ⊆ 10% py		0.1	4	12	9	ł — — — —	1300
100	1705N 600	/	dacitic breccia in dt gean mateix, 5-10 % 24	44	0.1	8	143	9	9	320
		W geab. W geal	Strongly silicities decite / diabase contact 3-5 % py	5	0.1	8	30	16	7	560
102	· · -	2W grab.	anterite Bx zone in diabase 3.5% py	2	0.3	2	34	7	5	1800
	rint using black b	ell point pen ***	Strongly silie ber a concentric alteration Rims	6	0.2	10	78	<u>ว</u> 7	229	1200

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	11			~				SA	MPLER:		
		iver #1.		: <u>Fone I</u> Type of Sampling:	Type o	of Analy	ysis: _				
SAMPLE NO.	LOC	ATION	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	au	Aq PPm	Ca	Zn	Pb	As	Hg
103	12BON	760W	geab	contact zone in diabase brid silie, 10-15% py	16	0.8	145	159	142	36	1/500
104	1000N	800.41	geob	gtz-carb ber in Float, 1-2% py	1	0.4	74	86	4	4	60
105		750W	gest.	alt'd coarse And / dac. to Ff near dialase 3-5% py	1	0.1	5	40	10	9	620
106	1150N	130W	grab	py in strongly silf on dac. tuff breecia, 10-15% su	138	9.4	6	13	178	208	1
107	1125N		geal.	steply silic dar. tuff ber. ptz-carb vn, 10-20% pu	1978		30	325		7855	
108		220W	geal.	Rhydite in contact with diabase, 10% py	1187	64.0	17	72	244	2317	
109	168av		grab.	ben'd chyplite tuff, mottles diss. ou	2	0.1	6	229	26	6	430
110	1690N		geab_	Rhyplite tuft 1-2% py	4	0.1	7	36	12	8	70
	1625N	780W	geab.	Fracture filling + diss py in felsic tuff	3	0.1	10	60	16	7	120
12		401W	/ .	gtz steingers in alt'd <1% py	192	20.2	35	374	547	1227	
113	BOIN		qrab	clay alt'd chyplite, tr. gal, Tr. tetra	311	1710	35	226		139	2600
14			grab	gtz stringers in 1. gr. Seds, 10-15 % py	1625	3.0	10	284	28	4464	
	R-DG-4		GROG_	steenaly silicifies, servicifices blocky loft, 10-20% py	7	0.3	4	7	21	30	920
	P-KP-		geab	purpelastic bx (1 pops ou diss on Tr new	10	0.Z	3	2	15	28	1700
	NOICI		geal.	Composite geal across 4 m, Ash Plan to ff wy 5 % or	64	1.0	36	33	11	107	180
10		· 1	grab.	- AMUS MELLOS IN SHIU. MONTULT, SP.C. I. TO SAL	15381	22.3	321	1706	234B	9602	86 a
101		170W	grab	sericitizes annes toff as abundant gtz units <575 py	114	0.4	19	210	77	115	360
120		ZOOW	/	Sugarico Tapilli tutt wy up to 10% F.a. Py	131	6.9	7	9	41	269	730
10-			geal.	geaphitic shear as silie / carbonate host, gle valts, = 10% py	8	1.4	30	135	25	30	2ac
		297W		shes, carbonitices course pyendestic in gtz-cires-chi-py lenses	2	03	[4]	334	2	23	1800

SAMPLE RECORD SHEET

DATE:

SAMPLER:

Project: Unuk River #134 Grid: Zone (Type of Sampling: Type of Analysis: SAMPLE SAMPLE NO. LOCATION Au. Ag Zn Pb DESCRIPTION/COMMENTS Cu As Hq WIDTH/TYPE 124 1415N 300W GRAD shed, cheby serie Alt'd warse pyroclastic w/ = 10% pu 75 6 15 25 21 27 1100 125 1405N 330W Peaebonatized coarse pypoclastic, Ank by Vns = Im wide GRAD sher. 3 0.2 8 8 30 710 loz which appear to be 11 by shearing 5-10% by Tr. sol? 126 chip 12.05 N 345W In access suffice by Vn on F.W. of fekie Dyke 24 94 3.1 5 660 29 19 127 1195N 342W Ankerite Sulfice . bx, H.W. of Pelsic dyke, 3-5% by 3 DEAD 0.3 38 9 2 71 930 128 1216N 325W ~ In across sulfice Rich Zone in F.W. of Ana dyke chip 65 1. E 5 119 221 600 16 122BN 312W GRAD 129 5-10% py plus numerous gtz units in silif, suffice some F.M. todate 4.3 340 131 25 827 160n 11 1395N 350W geab 130 Carbonate, seeicitizes correse pyroclastic along tr. of dyte Swith 3 O.I 10 15 147 960 27 131 1399N 381W In chip, sericit, Kapl, fine silis Steingers, 5-10%pg chip [4] 0.7 6 44 (3 44 1200 1399N 380W Chip 132 .3 m chip Atz-chl-py vn // to fol (Az Ola/ROLE) 7 103 2.2 5 15 70 3100 133 379 Chip 1399N 2 min altid 1=. W. to gtz-chi-py vn (Abore) = 30/2p 8 8 0.3 35 750 23 27 134 1368M 432H gRAD up to 20% py in carbonitized (secicitized dar adj. 6 hkrdy). 25 40 14 23 10 109 R30 1338N436W GRAD 135 bies dike up Abundant gtz stkuks in med-scorese compl. 98 4.5 798 12 30 13 13000 136 1226N FIW fol AFT- gtz uns 1-3% diss py genb 243 1.5 144 14 39 359 150 137 1230N 170W geab mineralises poss (py) along OF5° frac in AFT 8 73 12 180 0,3 17 138 1095N lidw flow bannes Rhy w/ 5% py gRAD ${\mathscr B}$ 0.5 8 61 105 165 70 139 1069 N 110W lithic RKWY PUT + ASPY Along FRACE arab 24 0.3 6 8 128 22 150 (40 1280N 790W auto brecciated, chi Alt, 5; lie diabase -py enceusting teags **ARAb** 8 5 0.2 330 24 13 2600 141 1290N TSOW 15 grab. be diabase - altered to white color infrags, py mx. \mathcal{B} 388 17 0.1 15 4900 142 8IJE 1250 N fault Zone, graphitic degilite, 3-5% py geab 28 53 0.1 33 11 29000

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\mathbf{V}		<i>L</i>						SAM	PLER:		
Project:	Unut R	VER 1	<u>34</u> Grid:	Zone Type of Sampling:	Type o	of Analy	sis:				
SAMPLE NO.	LOCA	TION	SAMPLE. WIDTH/TYPE	DESCRIPTION/COMMENTS	Au	Aq	La	In	F6 pym	As ppm	Ha
143	1275N	BISE	GRAD	fault, gtz- CARD brx Vns, tr. cpy, 1-2% p.g	15	0.1	18,2	76_	3	115	80
144	169014	550E	GPAD	caebonate alteres ansesite dyke <1% cpy, 1-2% py	19	0.1	11	106	8	13	200
145	1230N	150W	ent	shed, drag-foldes dre. Inp. tuff, Etorios stain 25% py	47	$\mathcal{O}, \mathcal{F}, \mathcal{I}$	3	<i>247</i>	. 80	132	
146.		ISIW		Rien Appillite near felsic contact 1240% pyjqtz Ank Vns		0,5	a	33		5	
147	1235N	152W	GRAD	Ankerite-Rich material in Brid Argillite	1	0.4	হ	53	a	6.	
<u>148</u>		162W		blenches alteres Ash-Inpill: toff w/ 3-5% py, tr Aspy	18	0.3	3	247	80	478	
149	10001	640E	geab	gossanous ARg., ORAnge - pink weathering chertnodules	9	0.2		81	29	2415	
150	790 N	1906	GROD_		a19	3.4	15	<u>257</u>	266	277	GIL
									<u> </u>		
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	Un to Far	, [#] /7/	<u> </u>	<u>۲ Ge:۵</u> Type of Sampling:				SAM	IPLER:		
)ect: .	ONOF UNE	K 104	Grid	Ivpe of Sampling:	Type o	f Analy	/sis: _				-
IPLE NO.	LOC/	TION	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	Au	Ag	Cu	Zn pym	Pb ppm	As ppm	Ha
				All "R" gris samples denoted by "CR" prefix on Assay sheets.	-			_	 	L _	
	3705	595 W	GRAD (G)	Rhyo-white, silic, brid, 2-393 diss py in blk mtx.	6	. 6,1	2	5	9	54	_10
	4055	705W	G	blk sills Argin wy up to 15% diss. py	25	23	18	18	35	94	12
	5105	760W	G	blk Argil + light colorED 55d (Ash?) 5-108 echedral py	180	26	24	46	43	309	Be
	4955	78511	<u>6</u>	blk Appil by 3-5% py - ARSOND (?)	77	24	. 54	308	106	114	16
	4505	845W	GL	Rhy- white, Aph wy <1% diss py	5	Ö./	2	39	10	75	5
	710 S	440 W	(r	Dacite tuff, wkly fol wy 1-2% diss py	5	0.1	13	156	21	28	2
	675 S	475 V	દ્વ	Rhyo-bxd frac. filled wy blk py, 1-2% diss py	.17	0.5	2	19	10		2
·	705 5	710 W	<u>(</u>	Rhyp cut by py stors = 3-5% diss py	26	0.2	23		15	r	7
	5005	953 W	<u>G</u>	Rhyo w/ argil frags, 1-2% py	223	6.1	71	2524	328	797	
	5085	950 W	(r	contact botwn Rhyo/Aggi - both units cont 1-2% py	44	24	65	143	52	1016	3
		290W	6	Andesite, 5% fq sulfices, calcite staingers					<u> </u>		
	900 N	390 W	G	altered Andesite / dacite, <140 diss sulfide (py) perv. Alt.				· · · · · · · · · · · · · · · · · · ·			
	940 N	440 W	G.	Rhyp, 1-2% diss py gossations on frac. Supfaces							
·	895 N	623 W	(r	Andesite, extremely altered, gossanous, NO Vis. Sulfices			······································	1 · · · 			
	0305	060 W	GL	silic xtal Rich lithic tuff, 5-10% diss py, CARD, Alt	23	0.9	40	64	32	26	18
	315N	510 W	G	argil wy x-cutting CARD Units, 5-10% Ankeeite 593 24	93		24	193	89	307	1
	135 N	700 W	6	mtx supporter, intermediate vole fragmental RK, 5-103 py, Tr. It, sph	4	0.2	//	50	31	42	7
	0305	865 W		ser. Alt in dacite tuff, Tr tt, py	7	0./	8	78	17	42	40
	75 N	580 W	G	tlow banded Rhipolite w/ = 30/2py, 1-2% Aspy	31	6.1	37		1446		110

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Project:	UNUK K	2 # IVER 17	<u>34</u> Grid	<u> </u>	. Туре с	of Analy	/sis:	SAM	IPLER:		
SAMPLE NO.			SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	Au	-	Cu	Zn	Pb Per	As	Ha
	512 S	950W	Grab	gtz vn (= 1cm) w/ wall Rk. diss. Dy in wall RK 25-10%	56	1.2	12	30	19	421	230
	513 S			argit wy finely diss py =10-15% as blebs + frac coating	221	2.7	22	32	54	417	33
	412 N	440 W	G	Phys Flan bx my diss. + interstitial py	11	0.1	8	232	6	22	150
	450 N	520W	G	Rhyo flow by and tuff; limonite; Tr. pu	46	0.3	5	55	27	255	100
	0205	620 W	G	Strongly silie Cherty Rhyo; 2.305 py	30	0.4	2	51	16	127	50
	00 N	615 W	G	cheety Rhyo, 2-3% py, 5 10% locally							
	030 N	615 W	G	cherty Rhyo, 10-20% py (89-(2TR-06)	32	0.6	6	89	31	128	130
	OHON	690W	G	gtz phypic Rhyp, 3-5% diss py, <= 15%							
	OOSN	735 W	G	Cherty black Rhyp; Altered acqil: 5-10% py	41	2.2	67	131	46	737	100
	OG N	840W	G	Andesite flow; 1-2% py	6	0.2	37	139	21	39	70
	OJON	950W	G	stegly silfer abyo tuff wy 3-5% by	71	0.1	5	112	132	600	260
	ORSN	955W	G	Phyolite; 5 15% py in blobs or mottles texture	197	1.1	19	785	427	BOO	560
	ORSN.	1000W	G	Rhyplite tuff, silicified, 5-10% py.	40	0.3		4	49	397	380
	5145	950W	G	Felsic volc. w/ 10-20% Pig	35	2.4	122	185	32	579	210
	5345	950 W	G	Volc. W, 3 cm band of > 5% py	2	0.1	9	52	13	49	20
	4365	654 W	67	Altereo zone along felsic volc/ argil contact	24	0.1	29	89	13	11	50
	2205	850W	G	silicities vole. Ash tuff wy 2-5% V.F.g. py	3	0./	41	85	17	20	190
	1905	850W	G	felsic vole (Aegil contact ~ 19/2 py	3	0.5	64	78	10	30	90
	432N.	4402	G	Rhyplite flow bx, 5-10% py, cheety							
	450 N	,	G	Rhyplite flow + tuff brex, limonite stained, Tr. p.g.	46	0.3	5	55	27	255	100

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Project:	UNUKE	2 IVER #13	4 Grid:	<u>ື ຕິເລ</u> Type of Sampling:	Туре о	f Analy	sis:	SAM	PLER:		
SAMPLE NO.			SAMPLE WIDTH/TYPE			-		ZN	P6	A.s 	Hg PPm
	<i>020</i> S	620W	GIRAL	Straly silic. Alt'd Rhyp, 2-3% py, upto 10% lanily	30	0.4	2	51	16	127	50
	000	615 W	দ	Silici zhyo, 2-3% py							
	020 N	615 W	6	silic Rhyo 10-20% py	32	0.6	:6	89	3/	125	150
	0405	690 W	6	Rhyo locally Qtz phyric 3-5% py					•		
	000	840 W	G	dAcite tuff, 1-240 diss py	6	0.2	37	139	21	39	70
	U30N		<u>(</u>	straly silic dacite or phys 3-5% diss. py	71	0.1	່ <u>.</u> ວີ	112	132	600	260
	025N		G	silic dacite up to 10-15% py	197	1.1	19	785	427	800	56
	179	653 W	(-	hoenfelses Argillite w/ py bands w/ 20-30% f.g. Py	68	3.3	40	-74	49	223	40
	(85	<u>640, v</u>		Rhypothertic tuff? or very silic tuffs?, seps? 10-20% locally	to	0.5	19		14	38	40
	190	640 V		Hornfelsed Argillite / Tuff 1-3% py	29	1.8	72	329	34	153	100
	185	(600 W	ત	Rhyplitic grey cheety tuff 3% py	13	1.0	.16	65	19	103	120
	180	620 W	4	f.g. silic to fis? (Hoenfelsed?)	8	0.6	98	87.	12	50	50
	185	602 J	ત	Phyelitic Tuffs? 3-5% py	15	0.4	9	40	17	89	70
	175	650 W	6	Rhyplitic Bx (flow Bx?)	57	3.5	33	43	65	76	100
	290	515 W	(r	Rhyolite of <2% diss py.							
	0255	(000 W	ત્	stroly silic dacite / Rhyo 5-10% diss py	40	0.3	11	4	49	397	3 <i>8</i> 0
	1850	060	G	flow handed Rhyp, JER., 5-10% diss Julfides							
	500	1065	G	Silfer Annesites w/ Tr- 196 Py	4	0./	10	63	12	2	20
	500	670	G	SilfED Andesites w/ Tr-190 Pig	6	0./	<i>a</i> 1	66	8	10	20
	500	625	G	Silfer Rhydites T.Fr. 51% py	10	0.1	22	119	12	10	20

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Project:	(ALK KIVER " I	<u>34</u> Grid	: <u>K</u> Grid Type of Sampling:	. Туре с	of Analy	/sis:				
SAMPLE NO.	LOCATION	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	Au	Ag	Cu	Zn	P6	As	Ha
	500N 685	W GEAL	cherty blk Rhyplitic? Tuffs w/ 10-20% py	74	22	81	317	56	238	320
	480 N 570	N G	Rhyohite < 3% diss py	8	0.1	7	140	9	उ	20
	480 N 545		Rhyo-> Khyodac. Tuffs 10-20% py	22	0.1	5	29	8	BB	30
	500 N 440	WG	Phys (13x?) w/ 5-10% dis py	8	0.1	5	35	17	14	10
	520 N 440	w G	Rhypo- Rhypolar tuffs with py	5	0.1	3	6	13	17	20
=	5-20N 345	W G	Shed Rhyro's Sericite Kaolinite in She. Tr. py	10	0.2	150	95	່ງົ	12	30
	110 S 675	WG	Silf'ED Rhun WITT->28 DW							
	150 5 660	VG	F.g. cherty tuffs w = 10% diss. py	13	0.4	35	85	9	87	80
	160 5 660	W Gr	f.q. silicifies Rhyplite 20-30% diss py	32	0.2	127	157	12	126	40
	157 S 660	WG	Bit cherty silf's tuffs? or horn felses Argil?	108	0.Z	29	30	88	123	160
	1755 650	wG	Cheety BIK Rhyplites or hoenfelson arcil?	57	0.5	33	43	65	76	100
	100 S 720	WG_	Silf'=> Rhyp flows? 3.5% diff. py	16	0.1	4	13		90	50
	150 5 700	WG	Rhypo flow, by bx in places	184	0.1	4	49	5	39	20
	2305 770	wa	algil bx wy tr pg.	504	3.7	16	76	67	174	90
	2705 760	V a	Brid Rhyo w/5-10% diss py.	16	0.4	12	26	13	84	40
	300 5 610	WG	Hornfelsed ? Rhyp/Dac tuffs, 5: 15=> Tr-275 py	6	0.1	9	5	25	19	40
	2455 780	wG	Kapl: Sori, Rhype Ly 53% PLA TE CALA	2	0.1	22	48	7	17	20
	2605 775	W G	Amyadolaidal ? Andesite That 3 th diss pa		·				·- ·	
	3005 80		Sities Rho 1% py Bx Zone of Arcoulto? This contact	4	01	61	61	9	15	30
	3005 775	WG	Bx Zone of Arcalleto? This contact	41	1.9	32	24	3z	/33	30

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SAMPLE NO.	LOC	ATION	SAMPLE WIDTH/TYPE		DES	CRIPTION/C	OMMENTS			Aun	Agjipm	Cu ppm	ZNTPM	PB ppm	As 7pm	Harpm
	225 N	636W	6							60	0.6		102			60
		6364						·····		42		20		435		240
	DON	600W		·						22	X		148			170
	590N	250W	<u> </u>							517	27.2	87	949	128	3195	1100
			N=1													
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	<u>.</u>			· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·						
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Project:	Unuk h	VER 13	<u>4</u> Grid	UGRID Type of Sampling:	Туре о	f Analy	sis:				
SAMPLE NO.	LOC	ATION	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	Acr pps	Ag	Ca	Zn ppm	P6 Dum	As ppm	Ha
	1513	1777	grab.	Geophysical Anomaly : Argillites / fissile Shale	10	0.3	95	70	29	16	560
	2601	1823	gent		4	0.3	78	52	21	16	830
	258z	1840	BRAL	//	11	0.1	5Z	42	21	16	300
	2500	1790	grab	//	5	0.2	140	11Z	13	7	400
	2420	1530	grab	Shear Zone, infilled CARDIQT= W/ 1-2010 diss py	8	0.1	54	53	8	5	40
	2615	2255	grab	Py-Rich shrb ARQ. Along NEhear (5-10% py)	77	1.5	40	72	3.6	53	270
	2600	2245		Float Boulder: sph, gn, coy Rich, gtz-caebstors	556	17.9	306	59767	3095-	Z4	4700
	2620	2225	grab	fault gauge wy py valts up to Icm : sheared graphite	7	0.9	104	81	9	11	240
;	2675	7315	grab	fracture infilling wy 5-100% py in NIT. d Arg.	38/	1.9	36	76	4/5-		250
	2690	2313	grab	Py Rich Frac. infilling 5-10% PY	5889	5.8	40	175	94	248	859
	2692	2340	grab_	Py Rich Fractures infilling 5-10% py Acress 10cm	133	4.4	75	48	54	168	66
	2490	2160	qrab	Float: Sph, gn, Cpy; 10-15%, 1-5%, 2-5% Respective	895	16.0	53Z	65036	9512	298	98,000
	2560	2145	grab	Float: sph, qn, spy	418	15.1	354	60449	5624	41	79,000
		2125 A	11	accoss Im: Altered Arg. w/1-3% py, CARD-gtz stors	<u> </u>	0.3	10	109	9	9	80
	1	1225 B	1 .	lm:	10	0.5	33	53	11	9	50
	1	2345 C	, ,	0.5m: //	22	07	52	170	22	22	134
	1	1225 D	1 1	0.5m: "	34	1.0	131	114	27	43	90
	ł	2225 E	· ·	0.5m: "	33	1.3	153	<u>ni</u>	58	21	100
	1	2225 F		0.5m: //	16	0.5	3(50	7	14	50
	2390		grab	Ribbon qtz Along major fruit	1	0.4	15	274	22		280

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Project: Unuk Rivez^{#134} Grid: U-GRid Type of Sampling: Type of Analysis: Pь A, As Hg Cu Zn SAMPLE Au LOCATION DESCRIPTION/COMMENTS SAMPLE NO. WIDTH/TYPE 276 Pom) Dm APM Dom Dem 7 50 7 2 400 66 3000 N 1700E grab Float boulder wy 30-50% py = marcasite 0.1 84 11,000 115 4262 2493 Float boulder: felsic bx w/ 10% py, 1-2% gn, 1-2% sph 8.4 96 3225 grab 1700 22.8 238 2453 2736 255 6600 20 Float Doulder: highly silic Rhya wy 15% py, 1-5% gn, Tr. sph 2950 2475 grab 15 64 75 620 discont. Dy horizons in contact 6twn And. vol + argillites 16 2888 1805 0.1 18 grab BrecciAted And. Win gtz-carb uns, 2-5% diss py 53 8 2795 1845 45 37 500 0.1 10 arab gossanous Argillite wy Andesite, = 5% py 64 4 600 2798 1930 42 0.1 28 10 grab 5 144 15 179 240 (975 float: Phys w, ~ 10% py [] along frac's. 0.3 2700N grab 40 20 8 180 2600 1500 gossanous shear in Ander., Silfer, 5-10% Dy 0.7 107 40 17 grab altered And, mod. silfed w/ ptz-CARD YNS, 2-4% py Tropy 18 0.6 246 234 139 Ť 600 1900 1525 grab 80 Andesite in fault, gussanous, silf'ed. 5% po Trpy 62 5 20 101 1619 1609 arab 0.1 sericit And in fault, 5% f.a. enheard Dy 26 70 12 160 1608 0.1 55 1622 grab 88 820 0.9 58 12 102 Float: Rhyo wy massive f.q. py band = 5cm Thick 2950 2250 grab 31 710 34 29 624 2901 2326 Float: Rhyo bx w/ py valts ~10% 4, Z 13 35 grab 18,000 99,999 15,875 163-Floct: Qtz/cARD VN WY 5-10% Do, 1-2% CD4, ASpy blebr 676 24.3 390 2695 2155 grab 163.95 17.1555 167,000 75145 173.9 38 579R 2145 2240 Frac. Filling qte/carb w/2-3% qn, 1-5% sph, 1-2% py, 2%spy grab Argillite in 5-10% py in blebs + Stringers /16 bearing 23 86 75 8 1.3 41 2700 2335 110 Grab 7 2775 11 69 1805 59 intercalated quikes + ARq.'s w B-10% p4 0.1 3 570 grab 8 60 3915 2510 acqillite horizon in Andesite?, 5% py, Tr po, calcareous alt 3 91 12 grab 0.1 32-80 4 3915 argillite / Andesite contact, 5-10% py 0.2 20 80 17 2511 ORAS 17 7 106 87 6 11 110 0.2 2560 1525 intercalated And, + arg. w1 1-2% dis Du GRAS

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Project:	Unut E	7 # 106 R #13	54 Grid:	<u> </u>	Туре о	f Analy	'sis:				
SAMPLE NO.	LOC	ATION	SAMPLE WIOTH/TYPE	DESCRIPTION/COMMENTS	Auppe	Agpen	Cu ppm	ZN ppr.	ינוק <i>בר</i>	Asmique	Happm
	4975N	2200E	GRAD	Phys shear wy mod. > high chil+ ser. Alt, tr. 24.	6	0.1	24	131	10	11	40
	4800	2125	grab	GossAnous shear w/ 3/06 py	6	0.3	3z	112	36	19	80
	4660	2050	grab	why goss amous shear in Rhyo AFT < 195 py	5	0.1	12	163	20	9	90
	4520	2130	grab	highly silie AFT, 3-5% py Tr. po	5	0.7	5	43	23	27	1500
	4510		grab	gossanous AFT, 2.5% py, ser. Alt.	3	2.3	5	62	21	, }	460
	4620		grab	COSTANOUS Rhys, 5-10% py	5	0.4	8	85	22	28	300
	4432	2296		gossenous shear in Thyo AFT w/ 2-8% py	5	2.1	6	5	18	52	400
	3448	1	1	gossAnous Rhyo-dAcite flow near fault 2200004	6	3.4	9	63Z	42	81	1700
	3200	1720	grab	gussanous Andersite up py E I in pobs.	7	0.2	47	46	15	48	an
	3508	2815	11 1	infilles shear zone wi py valts up to I con wise	59	5.4	20	13	10	172	11,000
	2501	1740	grab	Geophysics Anomaly : Argillite / Fissile Shale	4	0.2	52	62	16	6	120
	1506	1739	grab		6	0.3	101	103	23	13	320
	2521	1742	grab	//	9	0.3	94	98_	28	14	380
	2521	1736	grab	//	12	0.3	75	73	22	8	290
	2549	1737	grab	////	7	0.4	77	85	26	15	500
	2552	1743	grab								
	2570	1790	giab		7	0.3	75	61	25	14	320
	2575	1802	grab		8	0.5	137	112	30	18	600
	2595	1820	arab	//		0.4	93	104	34	17	660
	2605	1810	aeas		//	0.4	86	76	23	18	920

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Project:	Unuk Ri	VER #13	<u>4</u> Grid	<u>ບິ</u> Glib Type of Sampling:	Туре о	of Analy	rsis:			·	
SAMPLE NO.	LOC	TION	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	Ac	Ag	Ca	ZA pom	P6 PPm	As PPm	Hg
	2600N	1770E	GRAD	gossanous Argillite in a guke seb. pkg. Tr. V.P.g. py	17	0.2	74	61	19	14	210
	1584	1764	GRAD	gossanous quike wy minor Acqillite, non-mac, CARD Alt, 2-3% py	(9	0.4	56	25	30	19	350
	2520	1770	grab	quission and while guke/ARq. pkg. V. f.q. diss. py (1-2%)							
	90-71-	72-01	grab	MASSIVE Silie AFT Wy 2-3% diss py - minor gtz stors	21	0.3	4	87	12	17	110
	90-72-	22-01	grab	highly silic flow banded Rhyo AFT, 10% diss py	61	1.3	15	311	43	64	3/0
	5050	5000	qiab	silic fault breecin w15-10°6 py, Repeats R-33-1	1183	33	24	776	1983	1005	6600
	90-72-	72-02	grab	SAME AS 90-T2-72-01	72	3.9	9	95	68	72	320
	2900	2665	grab	Righly silic AFT along fault bx, 3-5% diss. py	175	13z	11	878	100	56	3500
	2905	2680	grab	fault bx, AFT in chi. mtx, 3-5% diss py	19	2.9	10	128	16	36	320
	2906	2695	grab	[40m]	27	2.3		196	20	62	440
	2908	2695	gras	(40m) (9im)	37 32	2.5	7 4	189	#0 1 7	54	130
	2625	2750	grab		q 4	14.0	15	275	55	171	3800
	5105	2260	grob	intensively silic Rhyo AFT, Tect. bxd wy gtz-py stors =196 aspy	53	1,4	7.	51	11	70_	1300
	5095	2245	drab	intensively silic Rhyo, tect. bx2, 5-10% py, 1-2% Aspy	388	2.3	7	108	60	552	
	5320	2330	grab	Rhyo AFT, closely spaces frac's, hem. Staining	23	13.7	10	266	36	33	2800
	5115	1225	grab	str. silic Rhyo AFT, Rusty weathering 2-3% diss py	368	6.4	9	14	34	639	150
· · · · · · · · · · · · · · · · · · ·	5175	2280 _	grab	str. silic Phys AFT wy 1-2% diss py Along EW fracis	16	2.6	10	84	15	43	350
	4900	2175	grab	peru fal in Rhyo AFT wy 2-30% diss. py	ļ						
	4865	2330	grab	the AFT w/ stringers + pobs py Along 1440 Frac						· ·	
	4215	2290	grab	peom. frac, chyo-oxidizes, no vis. sulfides						<u> </u>	

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Project:	UNUK Kin	<u>sz [#]/34</u>	Grid:	<u>U</u> (Trip Type of Sampling:	Туре о	f Analy	sis:				
SAMPLE NO.	LOCA	TION	SAMPLE WIDTN/TYPE	DESCRIPTION/COMMENTS	Au	Ag	Cu pem_	2n ppm	78 ррт	As ppm	Ha ppm
	3600N	2760E	geab	Otzo Phy Ankerite FRAC's in Andesites							/ ·
	UR-15 - 1-	F2	grab	5-10% dissem Py OVER wisth of 15cm, RX, FAultgauge	3	3	15	298	98	353	
	33 75	2650.	geab	Tecay 3% py in gtz/Ant shear in Anderite TET.	368	2.1	/33	162	23_	2243	1600
	3480	1670	grab	TE CPY, 3% Py in Qtz/Ant ZONE	28	5.1	182	99	3/	157	388
	3500	26 80	grab	1% py Qtz/Ankerite Rich Shear	4	0.7	160	92	24	8	520
	3300	2750	grab.	2% Py atz/Ankerite Shear	6	0.4	56	24	13	52	1050
	UR-90-BB	-2	geab	Qtz/CARD Bx W/ Stib, mal, 0.02 mwide	72	0.1	50	28	37	147	90
1 1	UR-90-8B-		grab	wall RA W/ f.g. st: b or py VAlts + blebs / silic Amossites	34	0.1	66	39	3	47	180
	UR-90-88-	4	grab	atz (coeb Bx (O.10 minibe) BARREN of 5x's	166	0.1	21	37	2	214	150
	UR-90-38-	5	gend	WALL RK wy tiny blobs of fg. stib needles, d. 35 py	6	01	103	57	4	20	410
	UR-90-83-	6	genb	MASSIVE Stib, cinna, It in 90 from T-4	53	0.1	231	77	35	2	210
	<u>UR-90-38-</u>		grab	WALL RE IN T-4 W/ F.G. Stib / silic Andesites	60Z	0. Z	/33	63	4	605	160
1 1	4475N		grab	Rhydlite wy <1% diss. py	<u> </u>			 	L	· -	
1 1	4495N		1 '	MOD. Shearer, Silic Rhyo AFT <106 diss by.	5	23	8	38	16	86	380
1 1	D-8-15-		GRAD	F.W. of felsic dyke at stib showing	116_	3,5	100	36	26	237	80
	»-9-L.S		- GRAD	Qtz-rich material withindyke near D-8	18	0.8	15	43	12	55	60
	D-10-15-0		grab	Qtz vein on H.W. side, fetsic dyke 18m. N.E. of D-8-9	145	4.3	18	88	35	305	250
	UR-L.S		grab	Dypitic Sheers/feac in foliated Andestic Congl. @ Elev. 5900'	12	0.8	124	10	31	35	510
	UR-LS.		1-	NEAR 24N/ 3DE Fig. Stile stals in dyte EK	1801	0.6	83	60	8	2518	150
	5050N			Pyritic (5%) shear silf is felsic toffs	44	2.3	7	20	22	60	200

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Project:	Unuk Ri	1EE #134	⊥ Grid	「し」GR:D Type of Sampling:	Туре о	f Analy	sis:				
SAMPLE NO.	LOCA	TION	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	Au	Ag p.p.m.	Cuppm	Zn ppm	P6 pum	As pom	Ha ppm
	3350 N	2680E	ALAB	Shear in Andesitic Congl. w/ Tr. Cpy, Tr. po ; 3% Py	87	2.7	258	85	19	199	170
	3349	2678	genb	Qtz Tenshion gashes (stut?) Tr. Cpy, Tr. Po, 5% Py (Ankerdic Alteration in Andes)	528	2.8	131	3/	40	2163	680
	3320	2680	CrA6	5% Py, Tr. Coy: Sillico shear in Anoes. Congl.	1	0,1	74	24	3	4	100
	335/	2650	grab	Anoes congl. Float wy gtz carbonate veins, Po, Py	60	3.2	139	65	41	130	800
·	3685	- H85	qRAD	Qtz Veins / Anterite Rich 5m. wive shr Tr. Cpy, gn, Py	1	0.1	134	32	11	4	30
	3425	2900	grab	Qtz Yns / Ankerite Rich Tr. Spy, gr				-			
	3420	2890	GRAD	ate Vis /Ank. Tr. Cpy, py in Andesite tuffs?	6	0.7	645	140	8	27	2000
	3425	2815	gent	Qtz filled fractures within 15 muise shear ; Andes cound ; 2-3% py	12	1.7	165-	54	19	57	5400
	3300		GRAD	Phyllitic Schist we massive Py in 3cm wide band (fine)	88	3.6	4	22	31	139	120
	3412	2825	genb_	Atz, By, Ank. Frature Filling	17	0.5	79	27	- (1	127	6400
	3315	2582	GRAD	Qtz-CAZB VNing in Phyllitic Schists	3	0.8	79	85	13	19	260
	3315	2585	GRAD	Qte-CARB VNing in Phyllitic Schists	230	4.0	67	251	105	69	520
	3315	2800	GRAD	Qtz Vhing WITT Spy Po, 2% py	1/	0.1	155	71	9	51	280
	3365	1760	qeab	atz vning in shird Andesites (Ankerite Pig, Tridy	5	0.4	208	66	10	48	200
	(1) 3535	2795	Genb	Qtz filles free 1% Cpy, Tr Ry overwist of 10 cm.	73	0.8	92	16	7	21	150
		2815	ARAb	Qtz Vh. OVER with 10cm Tr Pb, CAN, Py, Sph.	58	1.4	30190	3810	1478	6	18000
	3535	a <i>8</i> 00	grnb	Qtz vn over wisth 10cm Tr Pb, Tr. sph, 395Cpy 18 Pg	5	6.4	5880	1019	4	8	29000
	_	2760	genu	Ty in Qte filles shear : host - Andes.	9	0.1	112	27	11	192	16000
	3480	2670	grab	Py, Tropy, Qtz uns wy Ank. hoster by Andes	28	5.1	181	99	31	157	388
		2750	grab	Atz Pu fearture over 10 cm width in chil, mores cough.	6	0.4	56	24	13	52	1050

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ect:	UNUK	YER I	섯 Grid	: U GR'D Type of Sampling:	Туре о	of Analy	vsis:				
E NO.	LOC/	TION	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	Aught	As .	Cu	2n pam	byer 15-1	A= A=	ļ
	3141-6		chip/s	CAEB Alt'S ARGIILITE	3	0.2	2	36	8	11	
	3142-61		chip/sm		୪	0.3	24	75	23	100	1
		QQOOE	ARAR	Qte/CARB bx Along FAUH; 5-10% py Along frac	4415	2.8	106	4466	162	18032	1
	2530	2185	gRAB_	Felsic bx w 10-15% py in shr.	8	0.4	11	14	6	109	4
	2529	2185		Felsichx w/10-15% py E] on frac surfaces	4	0.Z	10	14	9	25	2
	2530		ORAL	Alt'd argillite wy J-10% py Along Shear	8	0.5	57	16	16	42	
	UR-90-		SEAL	Stibnite, Cinnabae, + Malachite insubceop Que, careb bx	IBI	0.10	165	39	6	2	
	D-1-LS	-	[]	Frac. Sample (Resample RS1/11, felsicolyke @ Elev. 6060'	276	20.2	16	12	54	366	_
		-UR-QU		Tr. py, sph in Bx frac. in Immine zone cut by dyke Elev. 6060	4	0.1	6	2006	6	7	
	D-3-15		gent	Frac in felsic dyte: Py, Tr. po. frac@ 127° Across dyte	8	04	7	109	17	16	
	D-4-15-		grab	3% py in Felsic dyke	78	2.0	42	176	16	78	1
	0-5-25-		grab	Cpy, Tr. py + gtz UN from some dyke AS D-4	347	1.0	67	19	64	55	
	D-6-19	-UR-90	arah	Immine Felsic dyke; 1400; 3% Py; Elev. 5700'	19	0.3	111	17	20	57_	
		25356	Grab	shrid, slightly silfer Annesitic compl. 2% py Tr. Cpy	7	0.1	152	8Z	14	22	
	3490		grad	Ant Rich Zone in And. Of opple.cpy	6	0.1	177	44	4	51	4
	3385		grad	shid ankerite / silic zone in and Tr. sph; Trgn; 3% py	1289	4.0	93	3017	387	1401	
		2650	grak	silf'es, chloritic, Qtz Rich Zone in congl. 5% py Trisphyon, c	,308	5.7_	101	940	307	1038	
		2650	grab	SAME AS 3400N/2650E	183	7.1	95	1076	548	496	
		2675		Atz-carb vein @ 1200 in FIAC. 2% B, Tr. Py, Cpy	17	0./	133	65	8	55	
	3400		and	Shear zone ate Filles: host congl: 396 Pt. Tr. cpu, P.	33	1.6	141	58	7	90	

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Project:	UNUK RIVER	# 134 Grid:	U GRID Type of Sampling:	Туре о	f Analy	sis:				
SAMPLE NO.	LOCATION	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	Aupph	Agaz	Cu Ppm	Zn	26	A= PPm	H 04 141 460
	3121-6	chip 0.5m	CARE Altered Arg. wy Qtz filled extension gashes	20	0.1	47	70	29	ii8	460
	3122-6			7	0./	40	65	14	124	330
	3123-6		11	3	ai	4	23	8		100
	3124-6-		CARB Altered Arg/gwkes		0.1	1	18	10	15	70
	3125-6		" "	21	0.3	/	17	3	9	40
	3126-61		11	7	0.3	1	16	5	11	50
	31276		e e		0.1	2	18	2	8	40
	3128-6		i)	2	0.1	1	15	2	7	40
1	3129-6		<i>i</i>)	2	0.2	1	16	2	4	30
	3130-(-			3	0.2	4	20	3	6	40
	3131-6		لر		011	3	21	7	10	60
	3132-6		j#		0. Z	/	14	3	8	50
	3133-6		در		0.2	15	35	8	19	50
	3134-6		li in the second s		0.1	7	28	3	5	50
1	3135-6		"	l	<i>D.Z</i>	10	34	6	4	70
	3136-61		34	Z	0.2	5	22	2	9	60
	3137-6		CARE. Altered ARQ.	a	0.1	5	16	4	18	80
	3138-6		<u>ار ا</u>		0. Z	3	15	5	19	70
	3139-6	Y	/1	9	0.1	2	30	7	51	110
	3140-67	Chip	71	3	V. Z	S	36	8	11	50

	GRANGES INC.		SAMPLE RECORD SHEET					DATE:		
roject:	UNUK RIVER #	<u>34</u> Grid	: <u>"U" Grip</u> Type of Sampling:	Туре о	f Analy	sis:				
MPLE NO.	LOCATION	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	Au pp	Agpp	C4 PPm		Pbpp	Asppm	
	3101-6	Chip	Shear Zone wy gtz bx; Thru mub supportes congl. QSm	+, /	0.1 †••	3	42	/ゔ ⁻	6	7
	3102-6		<u> </u>	8	01	46	61	16	//	11
	3103-6			<u> </u>	0.2	75	96	7	13	15
	3104-61		11	9	az	85	67	10	12	12
	3105-6		<i>i</i> ,	Ļ	0.1	75	112	14	14	23
	3106-67		<i>i</i>)	4	0.3	102	94	17	26	18
	3107-6		IP	6	0.2	42	66	25	13	20
J	3108-6		h	5	0.4	70	40	30	14	18
	3109-6		μ	2	0.2	47	99	21	6	15
	3110-G		"	5	0.3	99	99	16	22	20
	3111-6		<i>"</i>	+ 6	0.3	76	77	12	26	2à
1	3112-61		11	_	0.Z	71	89	10	12	/7
	3113 -G		·· ·		0.2	47	12	12	5	/1
	3114-6		"	4	0.1	61	83	14	_ 14	21
	SI15-G		<i>"</i>	4	0.2	7/	97	24	32	2
	3/16-6		<i>ii</i>	1	0.1	60	81	9	15	14
]	3117-6		CARD Altered ARGI Ilite watz filled extension gashes	2	0./	33	74	6	17	15
	3118-6		n	13	0.3	29	80	<u> </u>	_4Z_	ã
]	3119-61	<u> </u>	bi	4	0.1	10	32	5	11	12
ļ	3120-61	Chip	μ	7	0.1	56	87	24	78	3:

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Project: UAUK RIVER #134 Grid: U" (7Rip Type of Sampling: _ Type of Analysis: ... I¥e ≩⊋rr Ha Zr. 7-6 ٨s. Cu SAMPLE Au SAMPLE NO. LOCATION DESCRIPTION/COMMENTS WIDTH/TYPE <u>م</u> <u>د م</u> ppm 0.5 m chip samples near 35N-34N/26E-28E •0.Ť 3163.6 chip 0.1 R B 0.1 3165 6 0.2 3166 Gr 0.3 3167 (1 1.0.1 3168 6 1.1 0.2 3170 12 0.1 3171 /2 0.2 3172 12 0.5 [18 3173 G 0.1 R 151. 3174 6 0.2 3175 6 0.1 3176 6 0.1 700. 3177 6 Stib. Showing @ 6100', 12m. chips Across 8.5m wire dyke 8[2.9 3179.6 2.2 *a*3 1.5 3181G 884 160 1847 5.4

SAMPLE RECORD SHEET

DATE:

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Project: UNUK RIVER Grid: U GRID Type of Sampling: Type of Analysis: 7% Hg Cu Z٨ As Au Ag SAMPLE DESCRIPTION/COMMENTS SAMPLE NO. LOCATION DDM Jum NUM WIDTH/TYPE jen O.I (5632348 ppm stiblite fr. Trench #4 UR-90-BB-1 GRAL 2.6 0.5 m chip JAMples NEWR 35N-34N/26E-ABE Chip 3143 G Ģ 3.4 3144 61 1.4 .59 3145 0 /13 **Υ**3 -34 31-16 0 3.0 3Z 0.7 [23 0.4 3149 6 al JZŚ 0.9 3150 0 \tilde{o}, l 7.4 216. 0.1 3153 61 97. 0.4 <u>, 5</u> 0.4 A - 3 0.4 5. 0.3 93 57 0.1 8. 3160 G <u>540</u> 0,1 0.1 3162/4

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Project:	Unuk Rivee #	[‡] 134 Grid			of Analy			PLER:		
SAMPLE NO.	LOCATION	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	Auppe	Lg	Cu	Zn	Pb Par	As .	Happer
	318361	chip.	Stip. Shawing @ 6,100' 12 m chips & core & Smurine Dyke		1.7	<u>μι</u>	88	7	68	110
	31846	_ chip		28	1.1	77	97	5	48	70
	31856	ch:p		4	08	96	84	15	26	60
	31866	chip_		7	0.9	80	86	12	19	40
	31876	chip		15	1.1	_67 _	96	12	19	60
······································	31884	ckip		18	1.4	62	61	/3	38	50
	31896	ch.p		65	1.6	37	lel	17	212	110
	31906	chip		24	0.9	14	136	17	71.	50
	3191 G	<u> </u>		66	1.7	27	172	15	155	1
	31926	chip		36	1.8	58	118	18	117	60
	31936	Chip	\	<u> </u>	1.8	17		20	119	60
	31946	chip	↓\/	74	3.2	20	169	17	268	<u>330</u> 40
	31956	- Chip	ν	<u>13</u>			166	17	58	40
	UR-90-100	- QRAD	Wat Stib shaving & 1000 m: <190 diss py in Andes. Flow flow brid	13	0.1	192	69	18	4	
			minur gossan, Ank Replyminur shr's @ 345- (Sb 19454 ppm)	228	27.3	17	107	12		240
	UR-90-101	- QRAE	dyle at edge of glacie = 200 m along strike from Irenches	200					···-	
	· · · · · · · · · · · · · · · · · · ·		- F.g to aphantic, highly silfed dyke wy 3-53 dos py							
			+ 1-2°6 pp (welly progretic)		1		······			

GRANGES INC.				SAMPLE RECORD SHEET		DATE:					
Project:	UNUK Civ	Er 13	4 Grid	: <u> </u>	Туре о	of Analys					
SAMPLE NO.	T	1	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	Aun	Ag pam	Cu ppm	Zn Pam	Pb ppm	A= Ppm	ttg ppm.
	2388N	2183E	arab	Highly silic. Phys wy ote stors, 1-5% py	631	0.6	17	352	48	108	480
	2412	; I	grab	Ribbon giz Along SCARP	/	0.1	4	158	57	3	200
	1 1	1 1	grab	Qte/CARD BX ACROSS O-15m Along 0-45m steike	/	02	8	118	17	5	120
	1	1810	greb	gossanous Argillite horizon in ss/quite ptg.	7	0.3	77	85	19	9	1100
1		1760	giab	gossanaus Arg. horizon, non-may, 1-24, py Ant. Fracis//bud	6	0.3	233	249	12	9	1200
 		1737	grab	gossame Arg. w/1-2% entredial py, Ant. Vas //6 bed.	16	0.1	58	88	1	4	450
1		1526	grab	str. fol quite wy 3-406 py, CARD Alt.	//	0.4	75	107	1	1	323
, ,	<u> </u>	1515	Grab	gossnows Arg. w/ 2196 V. Fq. Py	10	0.1	40	51	24	10	560
!		1827	1 1 2		38	0.1	70	69	10	8	1050
,		1 1	grab	*	14	0.4	60	66	26		2000
	1	1820		sill et?? contains py pobs+ frags of Sa, minor caeb Alt	1 '		28	38	14	10	680
+	1 - 1	1797	grab	gute bes in ARQ. up py poas and Ant. Vis // to beating.		0.4	30	35	14	26	580
		/770	grab	gossanous lithic mupstone wy 5-8% py, wk carb. Alt	6	0.1	73	59	_#	9	1800
· · · · ·		/577	grab _	geitty Arg in quite sequence wy 5-6% y. F.g. Dy	13	0.2	56	54	28	9	1200
-		1555	grab	geitty Arg. w/ 1-200 V. J.g. py	86	0.3		34	35	20	3600
	2860	1548	grab		1 -	0.4	94	66	13	3/	4700
·	2680	1630	grab	lithic mubstone/AFT wy Thin Arg bess 10% py	8	0.1	22	16	18	17	5#0
	2960	1758	•	matrix supported lithic mudstone of calcile struck, 295 py		0.4	57	29	11	18	360
		1701	4 marsh	gossanars Andesite, CAED+ SER. Alt 2108 py	4	0.1	98	25	7	22	3300
	-	R165	aval	159 East anos (shear tone)	16	1.0	54	107	7	70	220
'	7570	8165	grad	1-5% py in fruit gauge (shear zone)	16	1.0	54	107	+	TO	44

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SAMPLER: _____ Grid: <u>Beedee Rone</u> Type of Sampling: <u>Grab</u> (vock) Type of Analysis: <u>A geochem</u> 30 elevent KP 134 **Project:** (pplo) (ab) 3n Pb SAMPLE Å4 Gr. As DESCRIPTION/COMMENTS LOCATION SAMPLE NO. WIDTH/TYPE .5 219 42 34 150 gtz-carb stors in shear trending Az 025/8842 20 100 BDR 10001 700E 3 30 14 2 23 gtz-carb by u argillite fragmants (15cm company) BDR 1345N 2015E 5 . 2 53 5 40 cakte - ankerit, visiting at contact w felsie dike ; to pr 102 50R-90-1 5117 1.6 19 112 21 2234 (resonable 89-GUR-22) relative veining in availities along dike contact BOR-90-2 .5 63 119 caleite - ankonte stors along faut - fracture (argilite) 69 48 9 BD2-90-3 8 57 .3 35 32 sheared availlity est by random calcite stors 54 8DR-9-4 2 15 . Z. H 23 27 ankerite - adjuit win 35 m wide (based arguit frage in vein) BDR-90-5 .6 39 19 82 200 bred graillite: 50% arkenite-carbonate alteration. 20 808-90-6 4794 21 38 78 2745 19 of a days at South contact of dike ; minor ankrite; 30 cm with BDR-90-7 31 5 5 -1 12 10 same as BOR-90-7 ; 50 m along strike to east BDR-9-10 7 40 9 Ì 38 48 calcite/anterite Fracture in limmitic sed ; 5-1.5 an very 108-90-11 67] 2 315 .1 12 24 califie stopes in verity weathering shear , 11 to Azaro frech BR-90-12 3 39 18 ,2 42 65 cyleite lank reining in greywacke forgill. BOR-90-55 solute lank veining w argill. frags BR-90-26 9 6 . 1 ank. altered argillite near dike costud 71 80 58 DR-90-27 ,1 32 5 38 altered angillity dike contact 12 6DR-90-28 2.7 52 49 150 ank reining in greywackes, reining contains orgill bass 4 416 104 BOR-90-29 ank-attered greywacke pear dike contact DR-90-30

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IPLE NO.	LOCATION	SAMPLE WIDTH/TYPE	DESCRIPTION/COMMENTS	PPOAn	Ag	Gr.	Zn	Рb	As	H9 _¢
- 90-LS		with the	f.g. tuffs - chert rhydlite ; tr py.	12.	.1	57	22	z	2	Zo
2-90-15		C	gtz vein in contact with f.g. diarite; 3% py; tr (pr, po	3	- 1	40	68	3	2	18
5-90-LS		ven }	atz vein- over strike i west at R-2; 37-5% py ; tropy, po			36	- 30.	6	4	
1-90-15		#	gta vein ; 5% py ; tr cpy-boinite ; tr po	8	.1	41	84	סוו	2	
5-90-15		von = 2	dz von ; 3% py , tr (py , boin , po	22	- 1	25	97	18	5	
6-90-15			atz vein ; tr-1% py ; tr po	43	.1	29	35	4	<u>z</u>	
7-90-15			greywarke ss, near contact in diabase dioxite inters it- 1804, ty	. 15		46	59	13	1	
-52-1			weakly sheared argillite, gtz valls ; 1-29, cpy ; tr sph.	7	9.8	z736	139	93	2	
-52-2			float - talus, bred argillite; 2-3% PY in 9t7	11	•]	83	10	ح	2	
-51-1			greywacke w 1% py	79	1,2	170	39	10	z	
-51-Z			black Lissile shale = 5% Py	17	.3	142	100	19	6	
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