EXPLORATION STATUS REPORT

TREATY 4, 5, 7 & STAN 1, 2, 4 CLAIMS

SKEENA MINING DIVISION
NTS MAP 104B & 104C
LAT 56°35-41' N
LONG 130°2-12'W

GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,512

Claim Owner - James F. V. Millar P.Eng.
Operator - James F. V. Millar P. Eng.

Author - James F. V. Millar

August 30th 1992

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1.0 INTRODUCTION

This report will describe the current status of the exploration of the Treaty and Stan Groups of mineral claims located at the divide between the headwaters of the Unuk River and upper Treaty Creek, a main western tributary of the Bell-Irving River, in northwestern British Columbia (Figure 1). It will briefly summarize the work carried out in previous years but concentrate on the most recent exploration carried out during the summer of 1991. This program will be described and the results presented in detail. These new data will be analysed and interpreted in the context of the previously-collected information and models. The specific purpose of this work is as support for an assessment application made in June 1992.

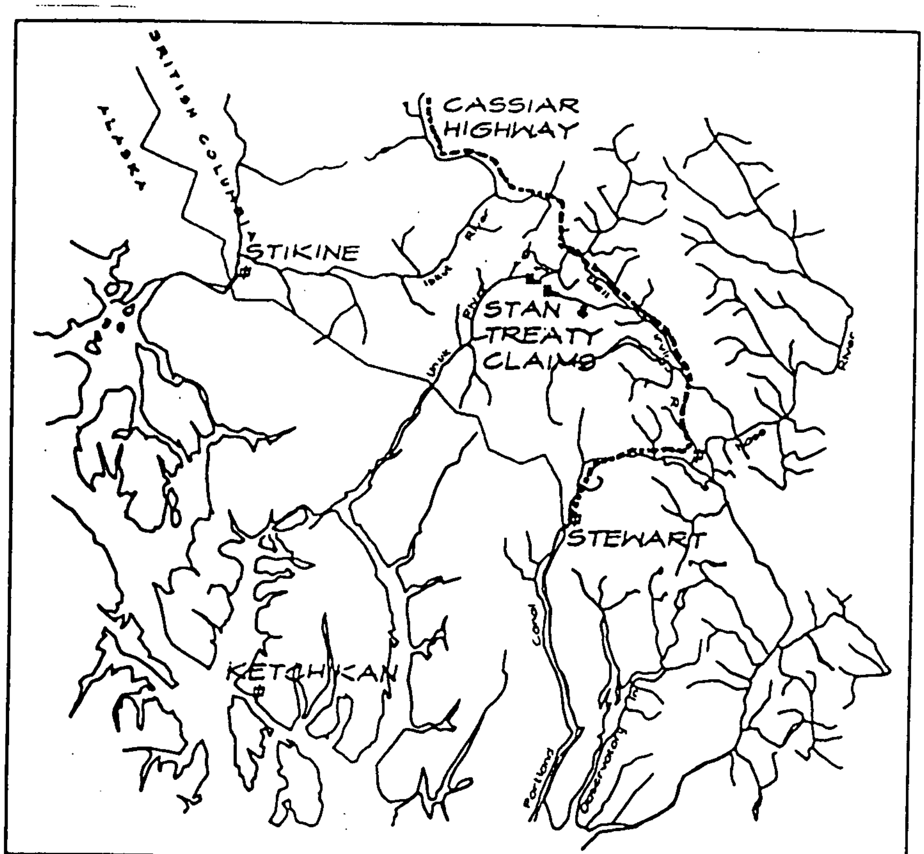


Figure 1 - Map of Stewart-Stikine Area Showing Location of Treaty & Stan Groups

2.0 PROPERTY

Claim Data

The following tabulation shows the 6 claims, organized in two groups of 3 claims each, totalling 120 units.

Groups	Claims	Numbers	Units
Treaty	Treaty 4	5415	20
	Treaty 5	5416	20
	Treaty 7	5418	20
Stan	Stan 1	5419	20
	Stan 2	5420	20
	Stan 4	5422	20

The claim groups are located on NTS map 104 B/9 (John Peaks) and Mineral Claim Map M 104B/9E. They lie between latitudes 56°30′ and 56°40′ North, and between longitudes 130°3′ and 130°13′(Figure 2).

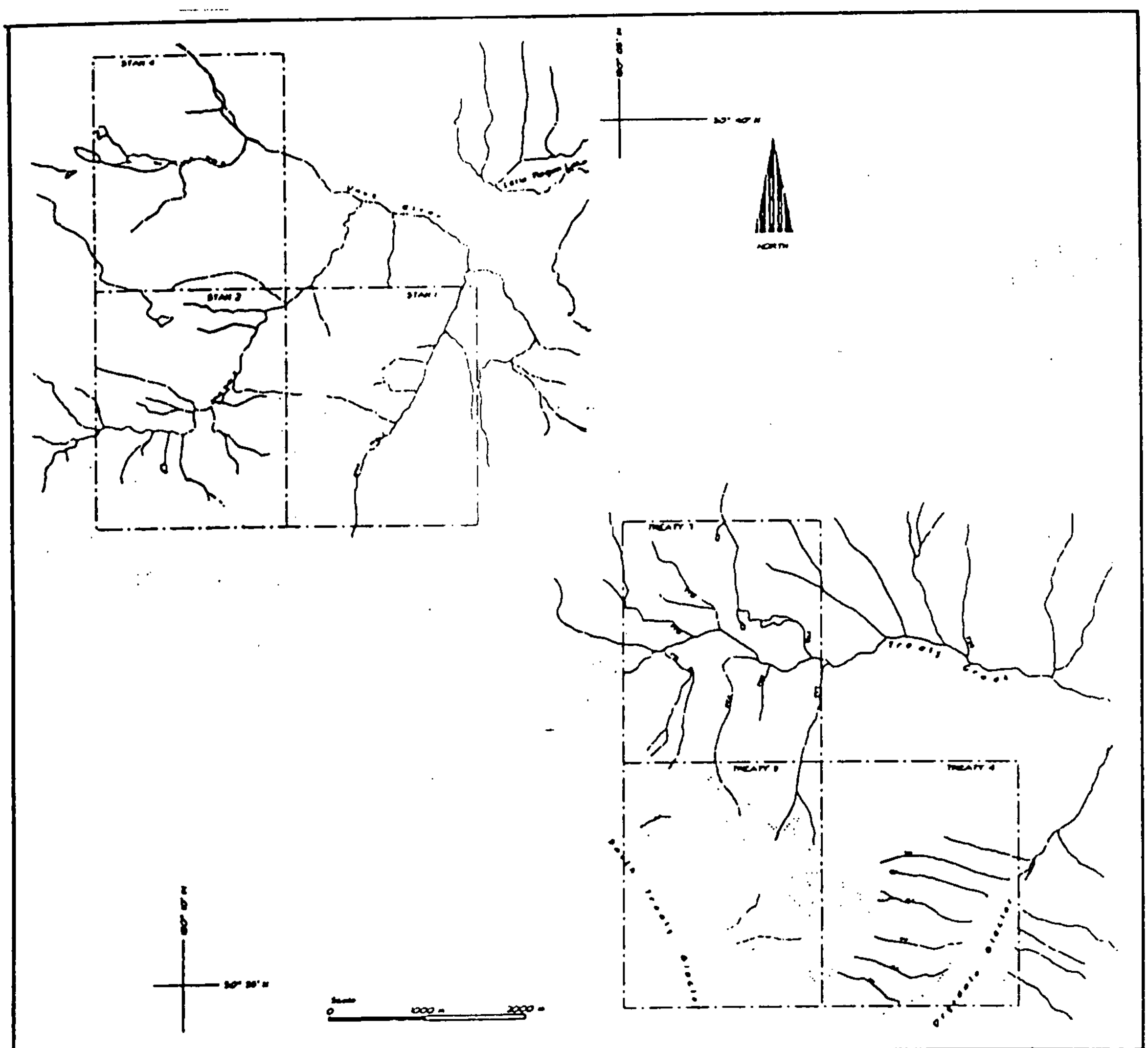
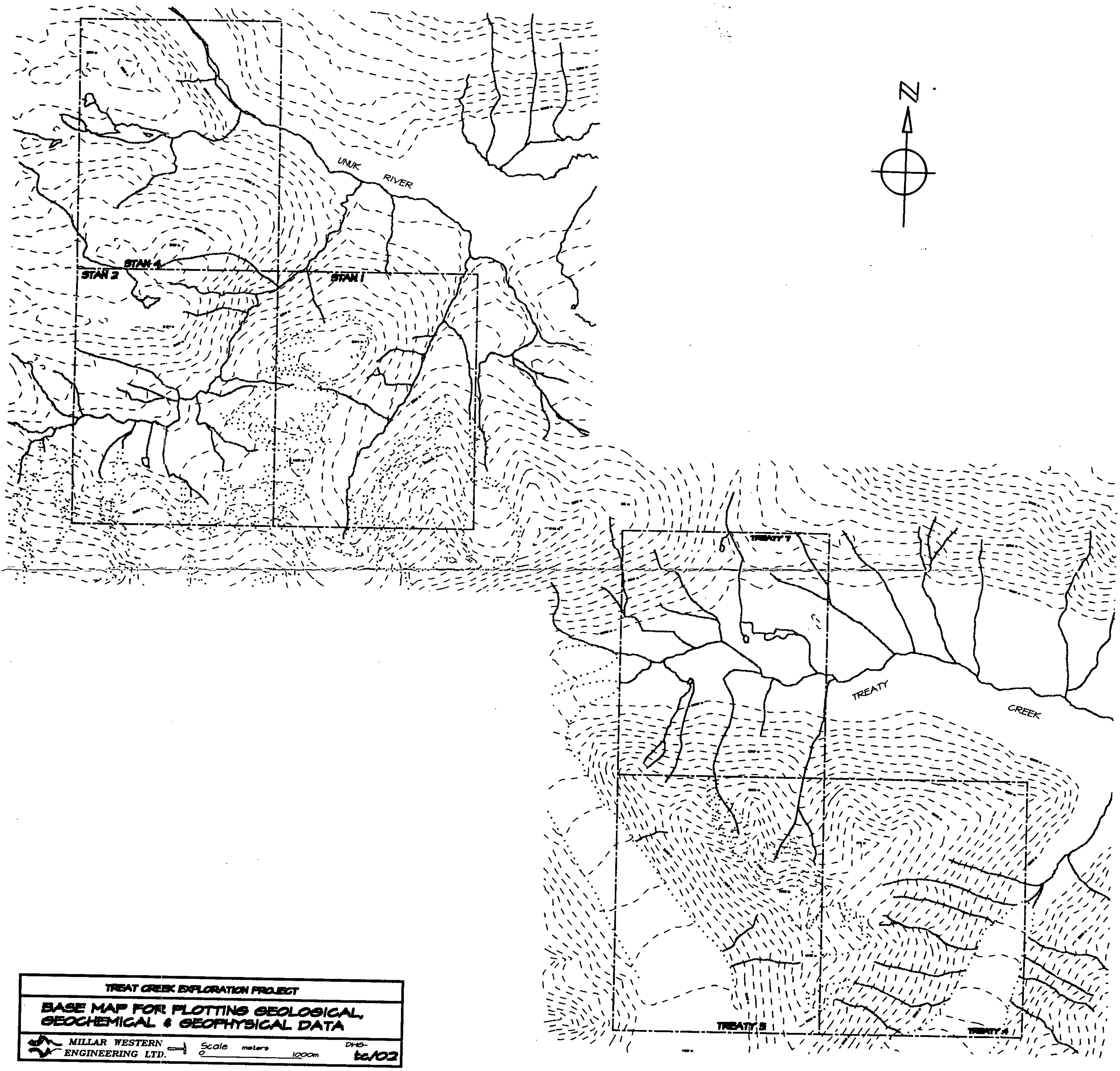


Figure 2 - Map of the Treaty and Stan Claim Blocks



TREAT CREEK EXPLORATION PROJECT

BASE MAP FOR PLOTTING GEOLOGICAL, GEOCHEMICAL & GEOPHYSICAL DATA

MILLAR WESTERN ENGINEERING LTD. Scale meters 0 1000m DWG- tc/02

FIGURE 2
ENLARGED

These claims are six of ten that were staked on the 25th of June 1986 by E. Kruchkowski. During the subsequent five year period they were first owned by Catear Resources Ltd. and Elan Exploration Ltd., then held under option by Bighorn Development Ltd. for several years. The latter company earned an interest in the property under a joint venture with Wydmar Development Ltd. The original ten claims were subsequently split into two sets of six and four, interests in each of which were assigned to several companies. The six claims of the Treaty and Stan Groups shown above are now held in the name of James F. V. Millar in trust for Millar Western Engineering Ltd. Assessment work has previously been recorded on the claim groups for the years 1987 through 1991, consisting mainly of geochemical sampling and analysis. The report filed in the summer of 1991 coordinated and interpreted all the existing data collected by that time, and served to identify a number of specific targets in the otherwise very large area as warranting additional attention. In 1991, a field program was undertaken by Millar Western Engineering Ltd. In addition to the necessary increase in famiarity with much of the property, considerable new data were collected on those areas identified as primary targets.

This report will present the results of the exploration programme carried out during August last year. The information collected at that time revealed certain weaknesses in the data-set available at the time of the 1991 report, requiring a revision of last years analysis. The basis of the revision and updated data-set are included in this report. The status of each of the three main targets is described in terms of the additional geochemical and geological data collected during the 1991 field work.

Hydrology and Topography

The Treaty Group is located at the headwaters of the main source of Treaty Creek, one of the main western tributaries of the Bell-Irving River that flows south into the Nass River (Figure 1). The claims cover the lower ends of both branches of the Treaty Glacier and the Drysdale Glacier, their outwash streams, and the intervening mountains. Streams from both combine to form Treaty Creek that flows easterly for a few miles and then southeasterly to join the Bell-Irving River (Fig.2).

The Stan Group lies a few miles northwesterly from the Treaty Group, covering the upper basins of the southeasterly branch of the Unuk River.

The claims cover an area of high peaks with steep to precipitous topography, and deep U-shaped valleys, that are either still occupied by glacial ice and permanent snowfields, or exhibit fresh scouring of recent glacial cover. Elevations vary from about 2500 feet asl in the valley of the Unuk River, at the north boundary of the Stan Group to nearly 6500 feet asl at the crest of the peak between the Drysdale and South Treaty Glaciers.

The steep valley-sides along the glaciers and upper Treaty Creek are broken rather conveniently into upper and lower segments by a prominent system of kame terraces, representing a still-stand at a glacial maximum (Plates 1 & 4). From the vegetation above and below the kames and the character of the valley bottom, this feature qute likely represents the short glacial advance between A.D. 1200 and 1400.

Vegetation

The claim groups straddle the elevational forest limit, about 4500 feet asl, and no part of either group is in the full forest. Most of the area not covered by ice is an alpine tundra, with highly-variable overburden cover. Parts of the higher ground are covered by permanent snow or ice fields. The creek valleys are characteristically occupied by a ticket of tag alder, willow, and other shrubs, even well above limits of the full coniferous forest. Small patches of grass with White Moss and Red Heather, and Labrador Tea are found on mature slopes up into the higher elevations, separated by areas of talus or mixed talus and morainal remnants. For the most part, rock exposure is excellent in most of the upper elevations above the kame system and only slightly less so in the recently deglaciated zone between ther current ice front and the well-vegetated lower areas, where the forest obscures much of the region.

Accessibility

Currently, access is only by aircraft to one of several lakes that are located in the valley bottoms, or by helicopter. The main supply bases for this part of the mountain area is a small settlements at Bell II and Bob Quinn on the Cassiar Highway, that follows the Bell-Irving River at this latitude (Figure 1). There are several helicopter bases at these locations, only about 20 to 40 miles east of the claims, providing rapid access to all parts of the groups. An airstrip is located at Bob Quinn. A resource access road has been built from Bob Quinn into the Unuk River valley and passes about 10 km north of the Treaty/Stan Groups.

Review of Previous Exploration Work

The previous geological, geochemical and geophysical work (Millar 1991) was sufficient to show that the most attractive portion of both claim groups was that underlain by the western part of Treaty 4 and most of Treaty 5 and 7. The air photograph interpretation work showed that the favourable structures associated with the prominant Mount Dilwork Formation outcropped in a broad band across the latter two claims, and more importantly, were very highly contorted into a fairly tight fold structure. This feature coincided with the most interesting and favourable geochemical and geophysical results. In all, three zones and one geophysical anomaly were identified from this work as warranting further exploration. They were described as follows.

Zone 1 lies just to the north of Treaty Creek about a kilometer east of the toe of the glaciers, and on the eastern edge of the very highly contorted, heavily sheared and, in part, overfolded section of the upper Betty Creek and lower Salmon River. A modest geophysical anomaly (TC1) is recorded immediately to the west and upstream from the lower end tributary TT6, with anomalous readings in gold, lead, antimony and arsenic from both sediments and rocks. While not a particularly strong indication in either set of data, it warrants examination.

Zone 2 combines a set of high geochemical readings on sediment samples and a large zone of anomalous electromagnetic readings, extending from middle of Treaty 7 south to the edge of the South Treaty Glacier on Treaty 5. This coincides with the most intriguing geological structures - a system of folding in the lower Salmon River, the Mount Dilworth and the upper Betty Creek Formations, and very heavy local shearing in the Salmon River. All of the sediment samples from the three streams that drain this area returned high level anomalous values in copper and zinc, and several in antimony. As the geophysical anomaly extends for about 2 kilometers and over a width of 300 to 400 meters, there is ample scope for a reasonably large mineral deposit. The anomaly more or less coincides with a dark, pyritic mudstone/siltstone unit at the bottom of the Salmon River Formation. This is reported to be the same geological environment as the deposits at Eskay Creek. The consistency and coincidence of the anomalies with the favourable geology makes this zone an attractive target for further exploration work.

The 3rd zone on the Treaty Group is on the upper part of the southern tributary on the Drysdale Glacier, DT1. The linear geophysical anomaly, TC4, is recorded to cross the upper parts of the valley above the fairly consistent series of sediment anomalies found along the lower part of the creek.

One other geophysical anomaly was noted in the upper part of Treaty Creek tributary TT7. It is interpreted as a linear zone that is thought to follow the bottom of the creek valley. The only geochemical sampling done on the creek was at the mouth, where the results were not anomalous; this could easily be due to the masking effect of the recent till. (Millar 1991)

The exploration work carried out prior to 1991 was primarily geochemical sampling, typically carried out in two phases, a preliminary phase aimed at a broad coverage of a large area, that attempted to identify those areas or drainages that warranted further, more detailed work. The analytical section of the 1991 report attempted to establish certain reasonable areal background ranges for the elements selected for assay during previous sampling programs. Since the work had been done by other crews and the field notes available did not provide too much assistance, it was not possible to evaluate the significance of the samples, individually or as a group, other than to simply accept them as they were presented.

3.0 GEOLOGY

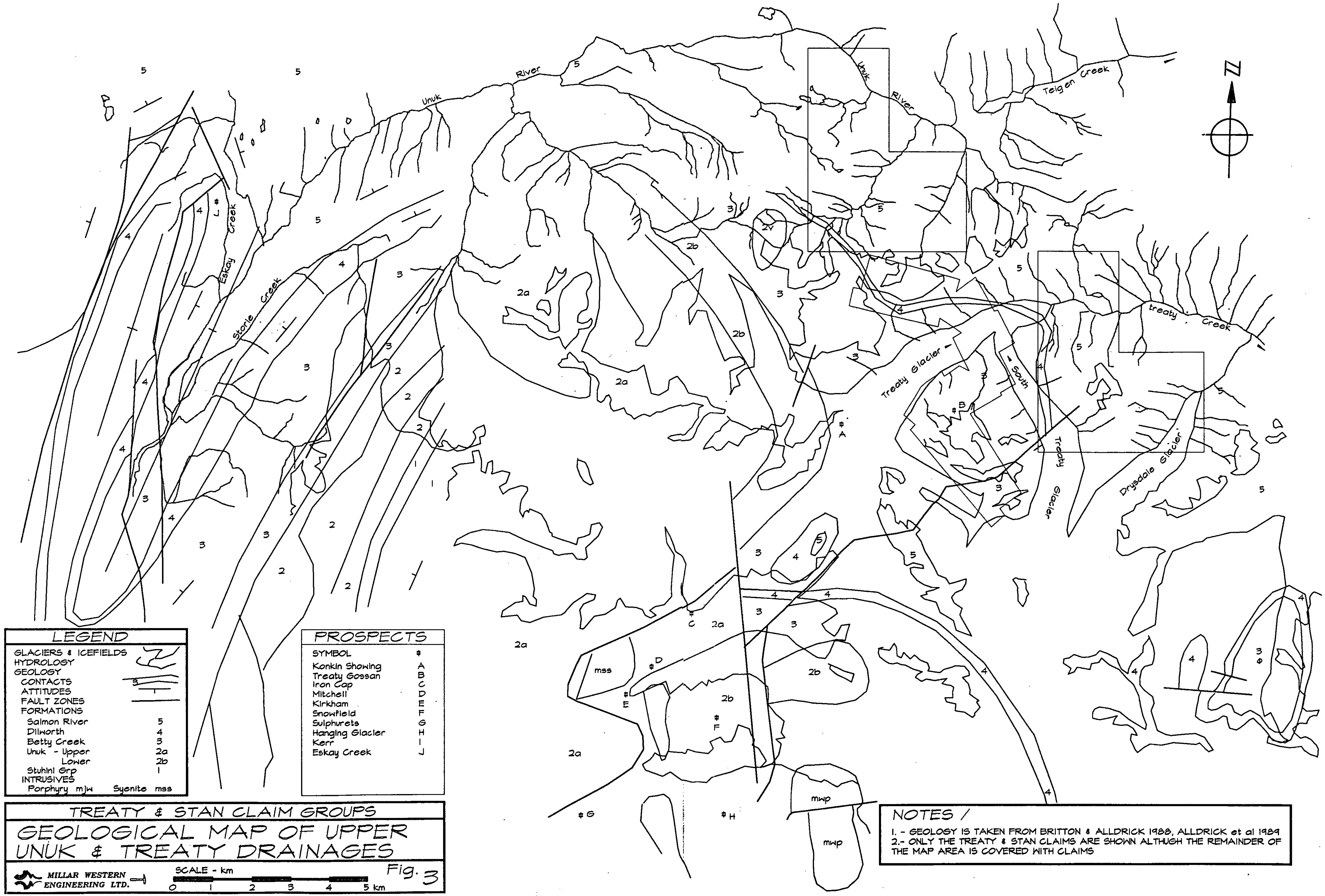
3.1 Regional Geology

The claim groups are located in the northeastern corner of the Sulphurets Map Area, one that extends from there south nearly to Stewart at the north end of Portland Canal. The following geological framework has been summarized from Grove (1986), Britton and Alldrick (1987), Britton, Fletcher and Alldrick (1990), Henderson *et al* 1992, and Alldrick and Britton 1991. The map units used in this report and on the accompanying map (Figure 3) are those from the 1990 report.

The area is underlain by volcanics and sedimentary rocks of upper Triassic to Jurassic age, and included in the widespread **Hazelton Group**. These were highly-folded, faulted and metamorphosed during the Cretaceous and, during at least three episodes between the late Jurassic and early Tertiary, were intruded by small stocks, dykes and sills. Mineralization is often attributed to one or more of these phases of intrusive activity. The Hazelton Group has been tentatively divided into five stratigraphic units, of which the upper four are much more widespread, and more relevant to the northeastern region. All are sequences of volcanic and sedimentary formations, some units predominantly the former and others more commonly the latter. Unit 2, the **Unuk River Formation**, consists of a lower sequence of primarily sedimentary rocks and an upper one of mainly massive volcanics. Within the Sulphurets Map Area, the rocks of this unit seems to form a central core area, around which the Unit 3 units are arranged.

The contact between the Unuk River Formation and the overlying **Betty Creek Formation** (Unit 3) appears conformable, at least locally. The latter is made up of bedded sedimentary rocks, commonly hematitic, from tuffs to various fine sediments. These are interbedded within more-common, massive volcanics of intermediate to felsic in composition. The irregular topography and high relief during the period of its deposition make the sequence difficult to follow with differences in local erosion and deposition cycles. The overlying Unit 4, the **Mount Dilworth Formation**, is volcanic in origin, primarily felsic pyroclastic, and its distinctive appearance and consistency has made it a useful stratigraphic marker. Its relationship with the underlying Betty Creek Formation appears to vary, probably for the same reasons as those responsible for the variation in the local stratigraphy within the Betty Creek Formation. In at least one locality, noted by Henderson *et al* (1991:329), the upper Betty Creek is clearly truncated by an erosional period prior to the deposition of the Mount Dilworth. In the Treaty Creek ridge, the Mount Dilworth appears to be conformable with the top of the Betty Creek. Further, according to Henderson *et al* (1991:329-330),

> The base of the Salmon River Formation is placed at the base of buff-weathering fossiliferous, limy sandstone unit (Fig. 2, locality F) that occurs locally above and interbedded with the Mount


Unuk River
Teigen Creek
Eskay Creek
Storie Creek
Treaty Glacier
South Treaty Glacier
Drysdale Glacier
treaty Creek
N
LEGEND
GLACIERS & ICEFIELDS
HYDROLOGY
GEOLOGY
CONTACTS
ATTITUDES
FAULT ZONES
FORMATIONS
Salmon River 5
Dilworth 4
Betty Creek 3
Unuk - Upper 2a
Lower 2b
Stuhini Grp 1
INTRUSIVES
Porphyry mjw Syenite mss
PROSPECTS
SYMBOL
Konkin Showing A
Treaty Gossan B
Iron Cap C
Mitchell D
Kirkham E
Snowfield F
Sulphurets G
Hanging Glacier H
Kerr I
Eskay Creek J
TREATY & STAN CLAIM GROUPS
GEOLOGICAL MAP OF UPPER UNUK & TREATY DRAINAGES
MILLAR WESTERN ENGINEERING LTD.
SCALE - km
0 1 2 3 4 5 km
Fig. 3
NOTES /
1. - GEOLOGY IS TAKEN FROM BRITTON & ALLDRICK 1988, ALLDRICK et al 1989
2.- ONLY THE TREATY & STAN CLAIMS ARE SHOWN ALTHUGH THE REMAINDER OF THE MAP AREA IS COVERED WITH CLAIMS

Dilworth Formation. Toarcian age fossils have been collected from these limy beds (Anderson and Thorkelson, 1990). The fossiliferous beds are less the ten metres thick but are found locally over an area thousands of square kilometers (D. G. Anderson, personal communication, 1991).

Thin dark-, light- and rusty-weathering mudstone and tuffaceous siltstone occur in places above the Taorcian fossil beds, such as on the ridge north of South Treaty Glacier *(the 'Treaty Creek Ridge' in this report)* and on nunataks in the Knipple Icefield (Fig. 2, locality E). Similar rocks in the same stratigraphic position occur on Troy Ridge and form the distinctive "pajama beds" of the Salmon River Formation (Anderson and Thorkelson, 1990). Locally, thick units of pillowed- and columnar-jointed, amygdaloidal basalt and heterolithic breccia with mafic and felsic volcanic and sedimentary clasts occur in the Salmon River Formation.

Distinction between the Salmon River Formation and the rest of the Bowser Lake Group is based on the disappearance of submarine volcanic components characterizing the former, as well as a general increase of the sandy component in the succession. Salmon River Formation thinly-bedded mudstone and tuffaceous siltstone beds pass gradationally upward into interbedded grey sandstone and carbonaceous siltstone and mudstone locally containing plant fossil debris. The transition between Salmon River Formation and the rest of the Bowser Group is well exposed along Treaty Creek below the Treaty Glacier (Fig. 2, locality F).

The Salmon River Formation appears to be mainly a siltstone - sandstone sequence representing sedimentation following the long period of volcanic activity during which the Betty Creek Formation was deposited. It extends far to the east and north of the map area. The basal unit is the limey sandstone, overlain by bedded siltstones that contain limey lenses, concretions and zones of pyritization. Certain units have been identified as mudstones that are occasionally graphitic and/or pyritic.

These rocks are all late Mesozoic in age and are cut be a series of small stocks and a variety of dykes and sills. Those intrusives that are roughly contemporary with the extrusive rocks are compositionally and tecturally similar, generally monzonitic to granitic. At least one group of these is thought to be related with some of the gold-copper mineralization.

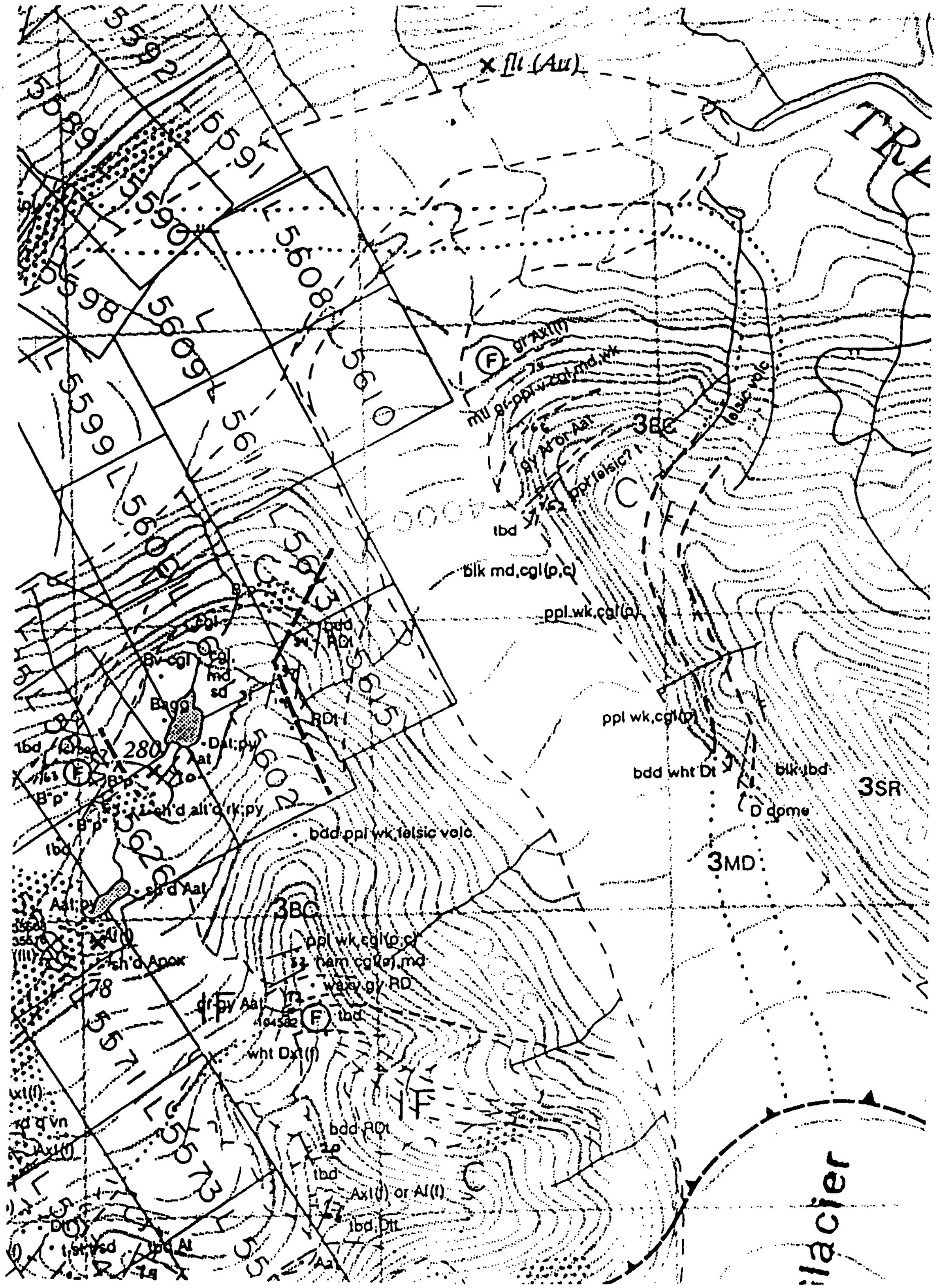


Figure 4 - Photocopy of Relevant Portion of Sheet 3 of Alldrick & Britton 1991 Covering the Treaty Group

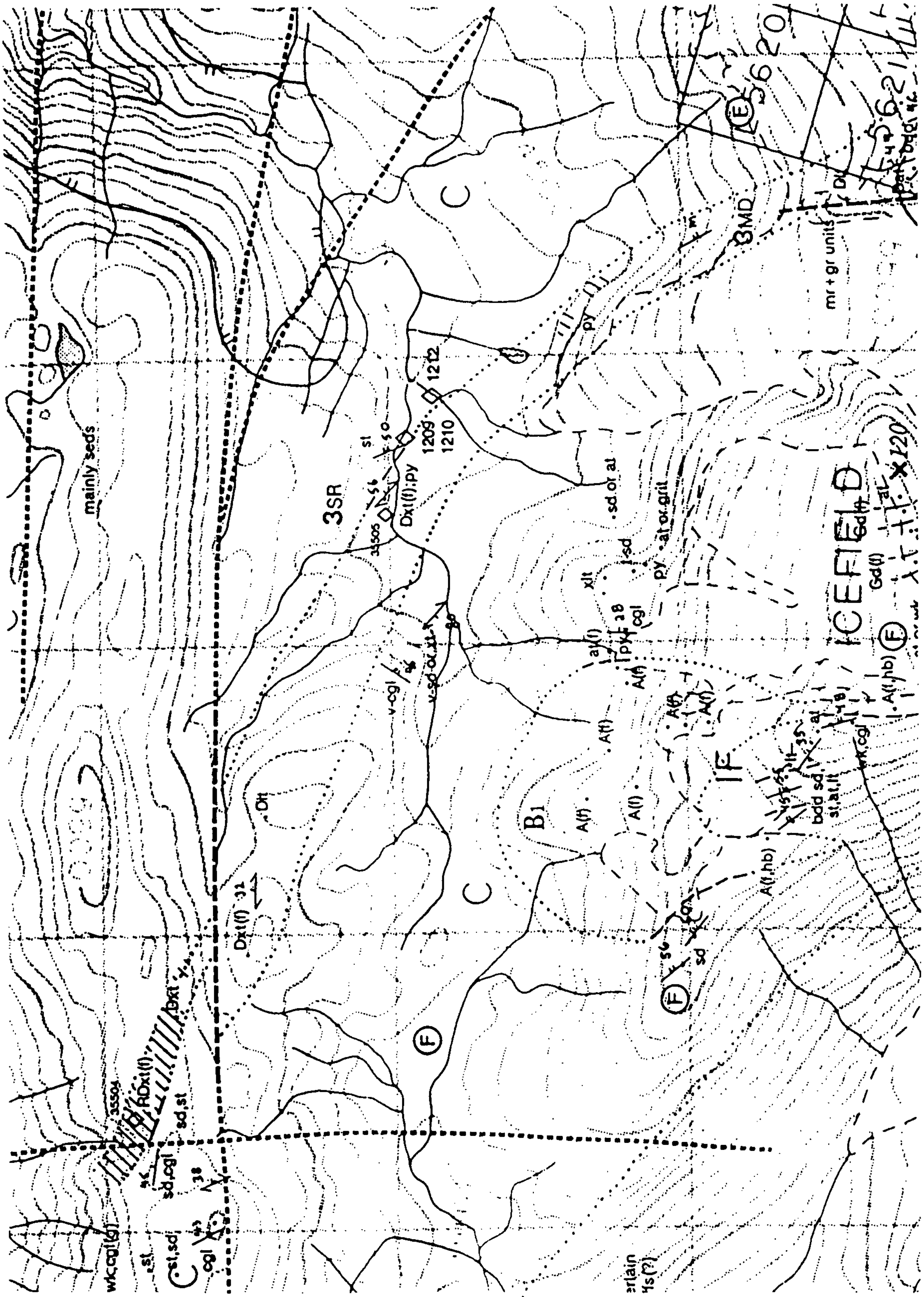


Figure 5 - Photocopy of Relevant Portion of Sheet 2 of Alldrick & Britton 1991 Covering the Stan Group

Among the significant secondary structures of relevance are the regional anticlinal elevation of the older Unit 2 rocks in the central region. Superimposed on that basic structure is the dramatic outline of the relatively thin, but readily identifiable, Mount Dilworth formation (Figure 3) as it twists and turns around the periphery. In addition to periodic flexures, this feature is often displaced by a system of faulting that may be much more complicated than it appears even now. Much more local mapping should provide a means of better understanding these features and their significance with respect to mineralization.

3.2 Local Geology

Although the region of the Treaty and Stan Groups is peripheral to the main areas of exploration activity in the map area, it has received some recent attention from both the Geological Survey and from the Mineral Deposit Research Unit an U. B. C. The main emphasis of this work has been concentrated on the Treaty Nunatak, which lies across the South Treaty Glacier from the property and from the Treaty Creek Ridge. Some of the results of this research activity has been published and additional information is expected after the current field season. It is understood that several small parties traversed the ridge this past summer. While the following description is based primarily on published sources, it includes the results of the geological prospecting work carried out during the 1991 field work.

The western edge of the Treaty Group and the southwestern corner of the Stan Group are underlain by sediments and interbedded andesitic volcanics of the upper part of the Betty Creek Formation (Figures 4 & 5). At the western edge of the Treaty Group they strike about north, or slightly northeasterly, and dip to the east at 55 to 70 degrees (Plates 1 & 2). In that section they outcrop pretty well continuously across the ridge of the mountain and down onto the glacially-scoured slope in the turn of the South Treaty Glacier. The sequence from the lowest exposed bed upward is as follows - a green-brown andesite, a volcanic conglomerate, an grey andesitic flow or ash tuff, a band of mudstone and siltstone, and overlain by a mixed band of conglomerate, breccia and sandstone. At the top of the Betty Creek Sequence here there is a purple felsic lapilli tuff. This is overlain conformably by a felsic tuff some 25 to 30 m in thickness (Kruchkowski 1990:11)), a dacitic tuff and a rusty-weathering fragmental tuff; the latter two of which are thought to represent the Mount Dilworth Formation or its stratigraphic equivalent in this location. These are interpreted as the tops of the Lower Jurassic Hazelton Group. They, in turn, are overlain by the basal part of the Salmon River Formation, the lowest of the Bowser Lake Group. Here they are represented by a limey siltstone, the thickness of which is difficult to estimate due to local very heavy deformation and shearing on the Treaty Creek Ridge. A traverse along the ridge showed a sequence of black and grey limy mudstones, with variable pyrite content. Further south, Kruchkowski (1990:11) reports "...interbedded black argillite with coarse andesitic pyroclastics".

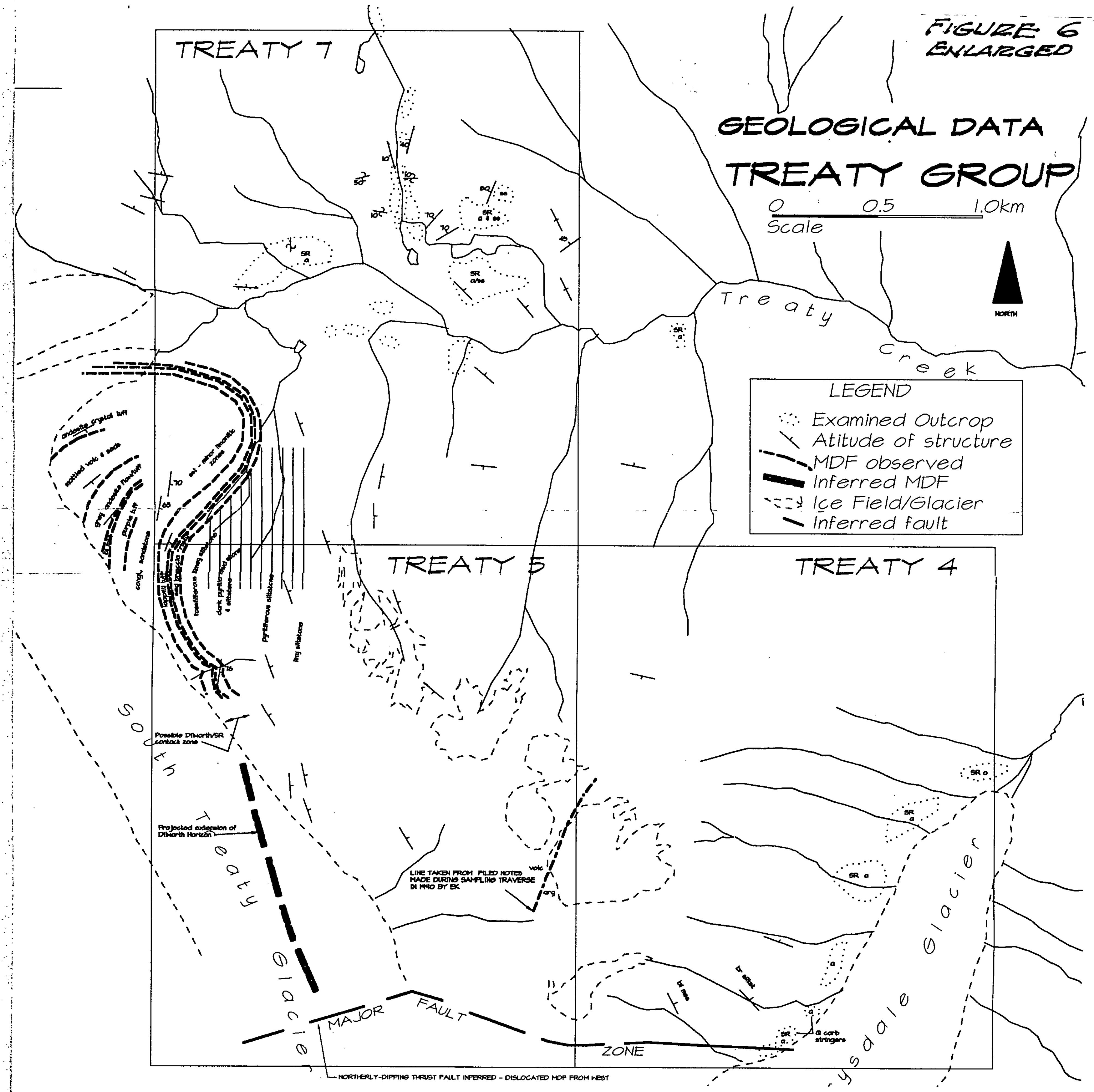
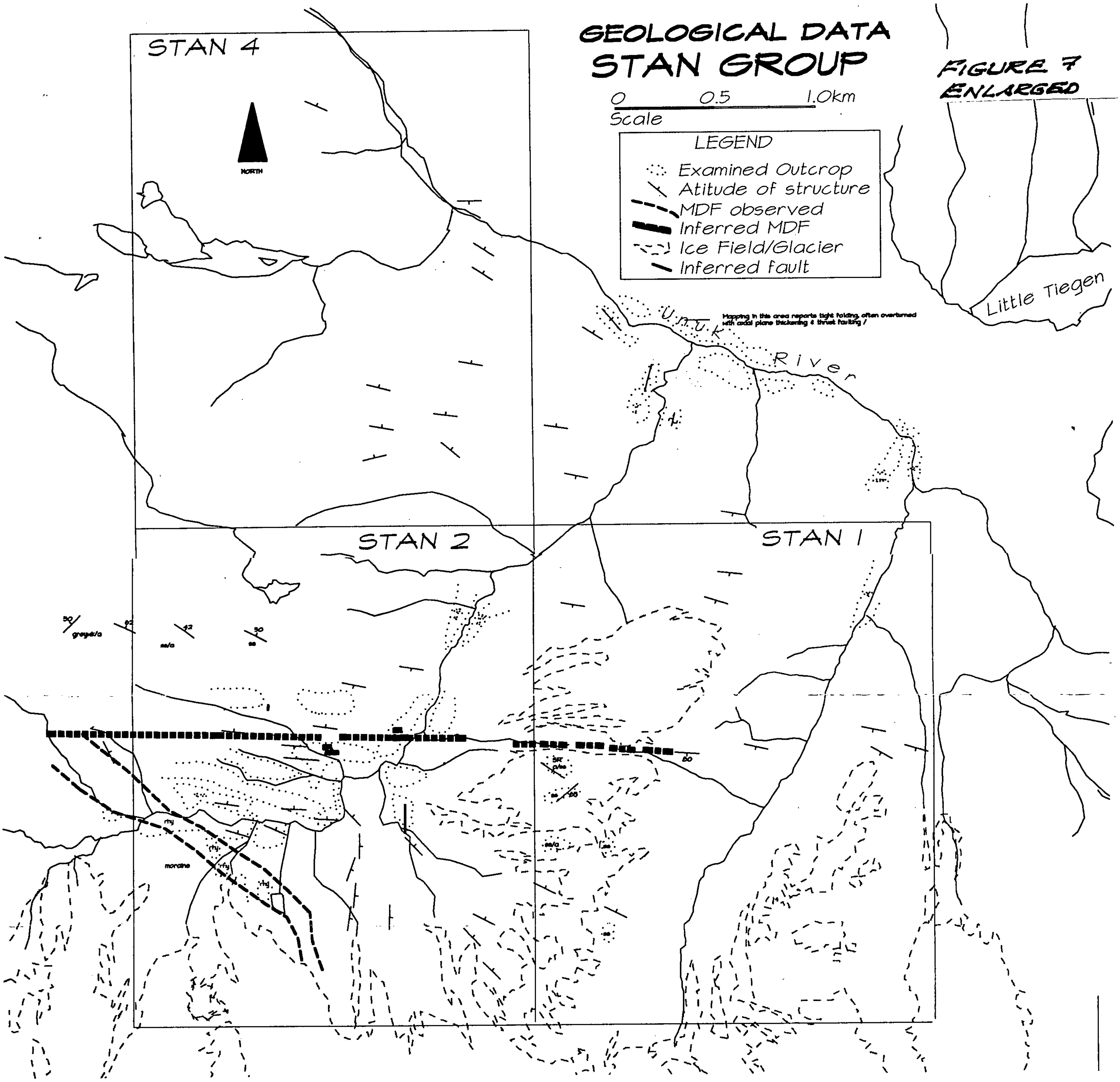


FIGURE 6
ENLARGED
GEOLOGICAL DATA
TREATY GROUP
0 0.5 1.0km
Scale
NORTH
LEGEND
Examined Outcrop
Atitude of structure
MDF observed
Inferred MDF
Ice Field/Glacier
Inferred fault
TREATY 7
TREATY 5
TREATY 4
Treaty Creek
South Treaty Glacier
andesite crystal tuff
mottled volc & seds
gray andesite flow/tuff
purple tuff
congl. sandstone
fossiliferous limey siltstone
dark pyritic mud stone & siltstone
pyritiferous siltstone
limy siltstone
Possible Dilworth/SR contact zone
Projected extension of Dilworth Horizon
LINE TAKEN FROM FILED NOTES MADE DURING SAMPLING TRAVERSE IN 1990 BY EK
MAJOR FAULT ZONE
NORTHERLY-DIPPING THRUST FAULT INFERRED - DISLOCATED MDF FROM WEST


GEOLOGICAL DATA
STAN GROUP
FIGURE 7
ENLARGED
0 0.5 1.0km
Scale
LEGEND
Examined Outcrop
Atitude of structure
MDF observed
Inferred MDF
Ice Field/Glacier
Inferred fault
STAN 4
NORTH
Unuk River
Little Tiegen
Mapping in this area reports tight folding, often overturned with axial plane thickening & thrust faulting /
STAN 2
STAN 1
moraine

As noted by Grove (1982) and Kruchkowski (1990:11) and confirmed in both the photo interpretation and the field observations, the rocks of the Salmon River Formation to the east strike generally in a northerly direction, but with erratic dips. To the north of Treaty Creek the strike is more west northwesterly with dips fairly regular to the north. Current opinion seems to consider the Mount Dilworth Formation as an index, given its reasonably distinct but consistent character (Figure 3, 4 & 5). Recent discoveries at Eskay Creek have been directly associated with the hanging wall structures of the Mount Dilworth, making this structure an attractive exploration environment.

In the area underlying most of the Treaty 5 and 7 claims, there is evidence of some faulting and sharp folding of the formations, both on dip and on strike. A major fault is reported at the south extension (Figures 3 & 4) that is thought to have caused a major displacement to the Mount Dilworth and the adjacent formations. Other much more local faults are shown to cross the structure (Grove 1982: accompanying map) in an east-west direction, and still others in a northeasterly direction. The only fault that can be discerned on the photographs follows Treaty Creek (Figure 4), bifurcates about the centre of the Treaty 6 claim, with one branch cutting almost due west across the structure and the other following the fifth north tributary of Treaty Creek and heading across the low divide into the upper Unuk drainage. No particular displacement can be inferred from the photos; in fact, the beds seem to continue through the fault. This area was not covered in the 1991 field work, so nothing further can be added to the photo analysis.

The western parts of the Treaty 5 and 7 claims cover a very sharp flexure in the general sequence, made obvious by the distinctive Mount Dilworth Formation (Plates 2, 4b & 5). The strike of the formations through the tops of the Betty Creek and through into the bottom of the Salmon River show a consistent sharp change from the regional trend of N 25° W to N 45° E from the south side to the north side of the Treaty Creek Ridge. Dips also change from 55 to 60° northeast to nearly vertical in that same distance. This feature was partly recognized by Grove (1982) and also noted by Kruchkowski (1990). It is shown on the series of maps in Henderson *et el* and in Alldrick & Britton (1991: Sheet 3), but not as accurately as in Figure 3 of this report, probably due to scale.

An even sharper flexure is seen in the valley of the Treaty Creek at the toe of the combined Treaty Glaciers. There the strike of structures shift from the N 45° E found at the top of the ridge to easterly orientation seen where it emerges from the Treaty Glacier several kilometers to the west. Dips also revert to the regional trend in this same distance.

Within a zone a thousand meters or so in width on the hanging wall of the Mount Dilworth Formation, the entire sequence of rock varieties is a confused mass of sheared and folded rocks, seldom traceable for any distance. This lies in contrast to the rocks on the footwall, where the beds maintain their attitude and character quite well (Figures 4 & 6). Immediately north of Treaty Creek the bedding of the lower Salmon River beds is confused, with overturned sections lying adjacent to discordant attitudes on both sides (Plate 1). There is evidence of some shearing and alteration but much less than that to the south, within the bend of the formations along the north side of the ridge.

The Mount Dilworth Formation stands out clearly along the flank of the South Treaty Glacier, across the ridge and down into the Treaty Creek valley (Plates 2 & 4). It can be traced down to the edge of the morainal cover to the south of Treaty Creek not far from the toe of the glaciers (Figure 6). The formations immediately north of Treaty Creek are argillites of the Salmon River Formation, stratigraphically well up from the contact with the Mount Dilworth. Several possible explanations for this omission are suggested in the 1991 report.

The most recent geological maps show the fold option (Alldrick & Britton 1991) in which the formations continue through but are very sharply folded to the west, with the Mount Dilworth being covered by the lower end of the Treaty Glacier (Figure 5). There is no good evidence of major faulting, although there is considerable evidence of minor local shearing and faulting in the good rock exposure in the upper Treaty Creek valley. The evidence continues to support the folding as somehow the main process involved in the stratigraphic confusion.

The regional attitude of the Salmon River beds is more or less west northwest with dips from 50° to vertical; the occasional southwesterly dip has been noted but is uncommon. This continues through the northern part of the Stan Group where the rock types are predominantly greywacke and sandstone (Figure 7). In the southwest corner of Stan 2 there is a crystalline rock that has been alternatively interpreted as an intrusive (Grove 1982) and an extrusive (Britton et al 1990). It is described by Kruchkowski (1990) as a feldspar porphyry stock.

4.0 1991 FIELD RESEARCH PROGRAM

Objectives

The primary aims of the 1991 field work were the following -

- to collect additional geochemical samples according to a systematic plan to provide a better basis for estimating both the local background and threshold counts for the various elements of interest and for tracing more closely the distribution of the high readings to localize the probable sulfide deposit
- to prospect the main areas covered by the geophysical and geochemical anomalies
- to collect sufficient localized geological data to provide a framework for evaluating the results of the more intense geochemical sampling
- to provide information that might provide some guidance on the most propitious and judicious selection of those parts of the claims that might be dropped
- to become more familiar with the general area and the specific area of the claims with respect to logistics and to the factors affecting effective field operations.

It had been the hope that the field program would provide satisfactory explanations for the geochemical and geophysical anomalies identified from previous work. Specifically, it was hoped that some good evidence of metallic sulfide deposits would be for

Field Program

The 1991 field work commenced on the 7th of August and terminated on the 19th. The weather during the period was perfect and no time was lost from the program. The crew of 6 included 4 experienced prospectors, a geochemical and geophysical technician and a geologist/engineer. Three of the team had experience in steep terrain travel. Logistic support was provided by Northern Mountain Helicopters Ltd. from a base at Bell II where a Jet Ranger and Hughes 500D were based.

A camp was established at a small lake just north of Treaty Creek about a kilometer from the present toe of the Treaty Glacier. This camp was suitable for foot-access to the mountain range to the south of Treaty Creek, but not to the Stan Group, the Drysdale Glacier tributaries or to the steep cliffs to the northeast of the lower South Treaty Glacier. For the work on these locations, the helicopter was found necessary; however, where possible, foot travel was used for at least one direction to both control costs and to increase the exposure to as much geology as possible. While some flexibility in tasks was possible, the crew was generally divided into three two-man crews.

Based on the results of the work to date it seemed propitious to continue the geochemical sampling as a major exploration tool, combined with both concurrent prospecting and geological reconnaissance and special traverses. The data base was still insufficient to embark on a complete geological mapping survey. Long shallow trenches were excavated by hand on both the Treaty Creek and Stan Groups.

The main focus of the work was the Treaty Creek Ridge, separating the upper valley of Treaty Creek and the lower reaches of the South Treaty Glacier. This was the area covering the best geophysical and geochemical anomalies described in the 1991 report. A total of 42 man-days were spent carrying out this work. Three man-days was spent traversing the area immediately north of the headwaters of Treaty Creek. The geochemical traverse of TT7 and the upper eastern ridge took 5 man-days. The geochemical sampling and prospecting work on the southwestern three tributaries of the Drysdale Glacier was done by four men over two days, for another 8 man-days. Three men were flown over to the Stan Group for two days to check certain parts of the Stan 2 claim, in preparation for a more extensive program in 1992. The balance of the field work, some 8 man-days was spent prospecting and rock sampling the talus and lower cliffs along the northeast side of the South Treaty Glacier.

5.0 GEOCHEMICAL RESEARCH

5.1 Silt Sampling Programs

Silt sampling was carried out on the Target Zones 2 and 3, as defined from the library research last year and described on pages 5 and 6 of this report. A series of samples were also taken up TT7 to further explore the potential of the aerial geophysical anomaly identified in the 1991 flying.

Methodology

Each two-man team was equipped with a specially designed screening tin into which a sample of stream sediments was trowelled or shovelled. The screened material, now minus 20 mesh, was then transferred to a labelled sample bag for transport. Each samples location was marked in the field by a labelled piece of flagging on the side of the creek channel. The samples were inventoried and matched with the sampling notes in the field. Following return to the office, the samples were again inventoried and submitted to Ecotech laboratories in Kamloops for assay. The location of each sample is shown on Figures 8a & 8b in the pocket of this report. A total of 46 samples were assayed out of a total of 67 samples taken. The remainder of the samples will be submitted prior to the next field season.

5.2 Rock Sampling Program

During the stream sampling program on the upper TT1 and it became apparent that the upper parts of the those intermittent streams contained little stream-transported material and that the clastic fines were probably becoming too local in representation to offer a useful tool for the kind of exploration that was desired. Similarly, the circumstances on the south side of the ridge along the South Treaty Glacier were not favourable for the retrieval of silt samples that are reliable indicators. Consequently, a series of 98 rock samples were taken, of which 78 were assayed. These were predominantly taken from all parts of the cirque area and from the talus and lower cliffs of the steep northeast side of the South Treaty Glacier.

Samples were taken to provide a picture of the distribution of various metallic and known indicator elements over the areas sampled, and to test specific sections, relatively continuously. It was hoped that it would provide a distribution map of those elements, that could be used with the silt sampling to locate a mineral deposit. Some samples were simply specimens of rock that represented an outcrop or, more commonly, a certain part of an outcrop. Others were chipped from a marked surface, in the form of a chip sample. All samples were labelled and stored in sample bags, and inventoried both in the field and in the laboratory. Over the fall and spring, most of the samples were submitted for assay. The location of each sample, with descriptions and resulting assays are shown in tabular form in Appendix II in which they are appended to the previous sampling results from 1987, 1988, and 1990. Each sample is described in detail in the Appendix III, which includes notes as to significance of the samples.

5.3 Analysis

Introduction

The analysis of the results of this years work has been done in the context of the previous sampling results from programs in 1987, 1988, 1989, and 1990. All field work was carried out by E. R. Kruchkowski Consulting Ltd. and reported in the following series of reports:

Horne, E. 1987
"Assessment Report on the Treaty 2 & Stan 1-4 Claims: Treaty Creek Area, NTS 104B/9: Skeena Mining Division".
Stream silt and rock sampling during reconnaissance geological and prospecting program - unsystematic.

Horne, E. 1987
"Assessment Report on the Treaty 3 to 7 Claims: Treaty Creek Area: NTS 104B/9: Skeena Mining Division".
Stream silt and rock sampling during reconnaissance geological and prospecting program - unsystematic.

Konkin, K. & E. R. Kruchkowski 1988
"Assessment Report on the Treaty and Stan Claim Groups: Stewart, British Columbia: Skeena Mining Division".
Detailed stream sediment sampling program based on results of 1987 work, and continued reconnaissance prospecting - systematic sampling of selected streams & unsystematic general.

Kruchkowski, E. R. 1990
"Assessment Report on the Treaty and Stan Claim Groups: Stewart, British Columbia: Skeena Mining Division: NTS 104B/9".
Multi-element analysis of previous samples collected, and further reconnaissance sampling of areas not previously covered. Unsystematic.

A number of circumstantial factors are highly relevant to the efficacy of stream sediment and rock sampling programs aimed at finding and exploring mineral deposits. For an area such as the upper Treaty/Unuk drainages, the highly varied and intensely dissected topography, the glacial history, the mixture of stream profiles, its relatively young age and consequent time of exposure, and the vegetation combine to influence the nature of the elemental dispersion from a mineral deposit and how it might appear as a pattern from a silt sampling program.

The youthful topography and steep stream profiles favour the use of clastic over that of hydromorphic accumulations or depositions material as sampling media. Further, the topography does permit a fairly quick separation of some deposits into glacial outwash sediments and local stream transported deposits. The only exception this comment is the south side of the Treaty Creek Ridge where glacial clay was found smeared on even the steepest parts of the hillside and contaminates most if not all the small streams that drain the cliffs, particularly those parts below the kame terraces. For the cirque area to the north of the ridge, the sharply-dissected hillsides are a distinct advantage as it usually quite clear as to the source of the sediments found in the shallow and sometimes, dry creek channel. Thus, for the mountain sides, the area represented by a sample-set may be relatively small, it is usually well-defined and anomalies should be easily localized. It would be expected that the cline in metal concentration would drop off quickly as sampling proceeded from the older de-glaciated sections to the more recently de-glaciated areas underlain by fresher till.

Field work in 1991 showed that the middle saddle above TT1 has a thin mantle of glacial clay and fine rubble that obscures bedrock in the central section. A few erratics were identified among the rubble in the base of the cirque. Still, it was felt that the validity of the method above the kame terrace is probably good.

A series of 10 silt samples were taken on TT7 from the elevation of the kame terrace to the snow patch at elevation 1400 meters (4600 feet) a.s.l. (Figure 8b). These were taken to test this creek above the kame terrace and to check the area underlain by the reported geophysical anomaly TC2. Two small series of samples were taken in the cirque to the northeast of the Treaty Creek Ridge, from the small intermittent branches of TT1 creek (Figure 8a). This set was taken in the prime target area to test above and beyond the one anomalous reading reported in the 1990 sampling (Kruchowski 1989; Millar 1991:51), which also coincided with the north end of the large geophysical anomaly (Decarlo 1991; Millar 1991: Fig. 34). Three subsets of samples were also taken on three minor northern tributaries of the Drysdale Glacier, the target area 3 as identified in last years report (Millar 1991). These were taken to follow up on a number of anomalous readings received on samples taken the previous year.

In all cases the sampled material was from small streams; in the case of the cirque the streams were intermittent, probably mainly seasonal. Further, it seems likely that it consisted primarily of clastics rather than chemical depositions from solution. Hopefully, the clastics represent the products of erosion within the stream catchment. The sampling, as reported in the field notes, was straightforward and the sampling can be considered adequate under the circumstances. In a few cases, it was not possible to be sure that the sample was made up entirely of stream-transported material and several samples may have included some local material.

Procedure

The sampling results from each year were analysed as independent groups and reported in the yearly reports. The results from this years work were combined with these prior results for the purposes of determining background levels and thresholds for identification of anomalous readings. It should be noted that the assays of each previous year and of each set submitted during this past year, covered a different combination and number of elements.

As in last years analysis, the first step was to divide the samples into three categories, float/silt/rock, based on the kind of sample represented. In last year's analysis, several rock samples were obviously specimens that were undoubtedly collected as float. A number of other similar samples were suspected but not identified as such. Following the 1991 field work, it was apparent that many more of the 'samples' analysed as rock samples last year were actually float specimens; in this years analysis, these were changed to float and removed from the rock sample category. This produced three subsets, Float Specimens, Rock Samples, and Silt Samples, and subsequent analysis was carried out within each of those subsets.

The Float Specimens, given their nature, were not analysed further for the purpose of this report. It may be that some information may someday be extracted from these data but the glacial and alluvial transport are too poorly understood to make any speculative statements as to significance of any of these specimens.

The Rock Samples taken during the 1991 program came mainly from the cirque area, and most commonly from the ridge area of Treaty 5 and 7 claims. As no rock samples from the Stan Claims were felt worthy of analysis no further analysis of the Stan samples was done. The suite of samples were therefore divided into claim blocks, as a first step toward defining a realistic background and threshold. Looking at least years analysis, it was clear that the threshold for the samples from the Stan Group was lower than that for the Treaty Group. Thus, the rock samples from the Treaty Group were analysed separately and background and threshold levels established. For general suitability, these were then compared with regional geochemical results. As much of the sampling has been unsystematic, most of the results are difficult to interpret, much less evaluate. However, the sample is sufficient and, at least partly, systematic in distribution and worthy of detailed interpretation.

The results of the 1991 sampling were incorporated into the tabulation of results from previous work programs. They were digitized with data on the year taken, the sampler, the geological parent material, and with assay values for the each element (Appendix II). These were then used to obtain a series of simple statistics, first on the total sample (Table 1), then on those from the Treaty Claim Group subset (Table 2).

TABLE 1 - DESCRIPTIVE STATISTICS - TOTAL ROCK AND SILT SAMPLES FROM BOTH TREATY AND STAN CLAIM GROUPS

		COUNT	MAX	MIN	VAR	AVG	STDEV	STD
ALL		688						
GOLD	ALL	637	1,001.0	0.0	24,066.4	52.3	155.1	154.
SILVER	ALL	684	31.0	0.0	3.1	0.7	1.8	1.8
COPPER	ALL	621	567.0	3.0	1,533.6	42.7	39.2	39.1
LEAD	ALL	620	1,001.0	1.0	6,130.6	28.7	78.3	78.1
ZINC	ALL	621	3,369.0	8.0	82,769.1	211.7	287.7	287.
ANTIM	ALL	505	90.6	0.1	41.4	3.7	6.4	6.4
ARSEN	ALL	502	540.0	0.0	2,157.7	32.9	46.5	46.3
BISMUTH	ALL	75	5.0	3.0	0.1	3.0	0.2	0.5
COBALT	ALL	124	195.0	1.0	1,242.1	20.3	35.2	35.1
IRON	ALL	97	16.0	2.0	5.6	5.2	2.4	2.3
MOLY	ALL	97	122.0	0.5	381.0	15.6	19.5	19.4
		COUNT	MAX	MIN	VAR	AVG	STDEV	STD
GOLD	FL	20	1,001.0	0.0	158,818.1	282.0	408.9	398.
SILVER	FL	20	16.3	0.0	20.2	3.6	4.7	4.5
COPPER	FL	20	567.0	7.0	22,079.0	120.7	162.3	148.
LEAD	FL	20	1,001.0	30.0	112,991.5	273.5	367.0	336.
ZINC	FL	20	1,001.0	38.0	104,795.2	368.8	332.7	323.
ANTIM	FL	20	90.6	1.4	533.6	17.8	25.4	23.1
ARSEN	FL	20	540.0	4.0	27,406.3	130.0	181.5	165.
BISMUTH	FL	20	0.0	0.0	0.0	-	-	0.0
COBALT	FL	20	0.0	0.0	0.0	-	-	0.0
IRON	FL	20	0.0	0.0	0.0	-	-	0.0
MOLY	FL	20	0.0	0.0	0.0	-	-	0.0
		COUNT	MAX	MIN	VAR	AVG	STDEV	STD
GOLD	RX	247	1,001.0	0.0	8,093.5	18.3	100.7	90.0
SILVER	RX	247	31.0	0.0	5.1	0.8	2.3	2.3
COPPER	RX	247	257.0	3.0	965.1	34.7	31.4	31.1
LEAD	RX	247	768.0	1.0	3,026.5	24.5	61.9	55.0
ZINC	RX	247	2,116.0	8.0	81,640.9	226.7	308.4	285.
ANTIM	RX	247	15.7	0.1	6.6	3.2	3.0	2.6
ARSEN	RX	247	277.0	0.0	750.9	28.3	31.7	27.4
BISMUTH	RX	247	5.0	3.0	1.2	-	-	1.1
COBALT	RX	247	31.0	1.0	17.0	-	-	4.1
IRON	RX	247	16.0	2.0	5.0	-	-	2.2
MOLY	RX	247	0.0	0.5	66.8	-	-	8.2
		COUNT	MAX	MIN	VAR	AVG	STDEV	STD
GOLD	SI	419	1,001.0	0.0	21,116.5	57.6	145.6	145.
SILVER	SI	419	12.4	0.0	0.6	0.4	0.8	0.8
COPPER	SI	419	199.0	8.0	642.8	43.5	25.1	25.4
LEAD	SI	419	185.0	2.0	168.1	21.3	12.8	13.0
ZINC	SI	419	3,369.0	33.0	75,010.9	199.5	275.0	273.
ANTIM	SI	419	40.0	0.1	17.4	3.2	4.3	4.2
ARSEN	SI	419	197.0	2.0	829.6	30.3	29.1	28.8
BISMUTH	SI	419	3.0	3.0	0.7	-	-	0.9
COBALT	SI	419	195.0	9.0	451.3	-	-	21.2
IRON	SI	419	11.0	3.0	3.5	-	-	1.9
MOLY	SI	419	122.0	1.0	94.2	-	-	9.7

TABLE 2 - DESCRIPTIVE STATISTICS - TOTAL ROCK AND SILT SAMPLES FROM TREATY CLAIM GROUP

TREATY ROCKS

ELEM	N	MAX	MIN	VAR	AVG	STDEV	STD
AU	96.0	1,001.0	0.0	20,373.7	29.8	142.7	139.9
AG	144.0	31.0	0.0	7.5	1.0	2.7	2.7
CU	145.0	257.0	3.0	1,121.2	38.5	33.5	33.4
PB	145.0	768.0	1.0	4,788.0	23.7	69.2	68.7
ZN	145.0	2,116.0	24.0	111,363.8	259.3	333.7	332.1
SB	90.0	15.7	0.1	9.0	3.9	3.0	3.0
AS	115.0	277.0	0.0	1,110.1	31.6	33.3	33.1
BI	38.0	5.0	3.0	0.1	3.1	0.3	0.3
CO	87.0	31.0	1.0	26.3	5.9	5.1	5.1
FE	60.0	16.0	2.0	5.1	4.5	2.3	2.2
MO	60.0	47.0	0.5	103.3	15.1	10.2	10.1

TREATY SILTS

ELEM	N	MAX	MIN	VAR	AVG	STDEV	STD
AU	322.0	1,001.0	0.0	22,891.2	61.3	151.3	151.1
AG	322.0	12.4	0.0	0.8	0.5	0.9	0.9
CU	321.0	199.0	8.0	754.6	46.1	27.5	27.4
PB	321.0	101.0	2.0	116.0	21.6	10.8	10.8
ZN	321.0	3,369.0	33.0	96,917.0	207.0	311.3	310.6
SB	289.0	40.0	0.1	20.5	3.4	4.5	4.5
AS	274.0	197.0	2.0	1,039.6	32.4	32.2	32.2
BI	37.0	3.0	3.0	0.0	3.0	0.0	0.7
CO	37.0	195.0	9.0	2,490.1	54.3	49.9	49.2
FE	37.0	11.0	3.0	4.8	6.2	2.2	2.2
MO	37.0	122.0	1.0	845.6	16.4	29.1	28.7

For the purposes of analysis, the statistics from the Treaty Group for both silt and rock were examined for each element to determine a local background, a reasonably practical estimate of a threshold value, and a set of three categories of anomalies. These values were then applied to each sample and tentative anomalous readings were identified. These were then plotted on separate maps.

A number of procedures have been developed to attempt to establish meaningful 'threshold' values; i.e., the concentration of an element above which a sample is considered anomalous. Few data are published on regional or local surveys in the upper Unuk River area, from which regional background assays can be derived, and the data set that is available is more a series of linear sample sets than a systematic survey. For an area at the stage of exploration of the upper Unuk River/Treaty Creek section the only practical method involves analysis of the data set itself, accepting the inherent weaknesses in the methods. The most common methods include -

1. calculation of threshold from mean plus two or three times the standard deviation.

2. graphical representation and identification of background and threshold from the shape of the resulting curve.

3. recognition of clusters of anomalous readings from two dimensional maps.

For the 1991 report, all three methods were used in analysing the data set for the claim groups. First, the data base was analysed for range, mean, and standard deviation for silt and rock samples for each element. These statistics were then used to group the sample results for each element based on the mean and standard deviation (SD). Group 1 in each case covered the range from 0 to the mean, often less than one SD. Group 2 extended from the mean to the mean plus one SD, Group 3 the mean plus two SD, Group 4 the mean plus three SD, etc. The 'threshold' used for this first data set was taken at mean plus two SD, or the top of Group 3. Thus, Groups 1 to 3 are considered to cover the background population with a low probability that any significant anomalous readings would be included (Rose, Hawkes & Webb 1979:39). Any reading in the groups above Group 3 would be anomalous, at least to some degree.

In a population with a normal distribution, it would be expected that the background and high level anomalies would be clearly identifiable on graph of the distribution, the background as a large concentration in the lowest range and the anomalies as extensions, or even small concentrations, into the higher range. In between is a wide range where the higher background readings and lower anomalies overlap. For that reason, the data from the Treaty/Stan Blocks were analysed to sort out three levels of anomaly above the threshold. For each element, both the silt and rock assay populations were sorted to series of up to 19 groups (silver) representing multiples of SD, and the groups above Group 3 were then divided into three sets, with the lower set identified as Level C, the middle as Level B, and the upper as Level A anomalies. This method can be seen as somewhat arbitrary, but can be used as a tentative technique lacking any previous estimates for a region, and pending confirmation by additional sampling.

The Level C anomalies are considered unimportant if they occur as isolated readings spatially and as the only one among the suite of elements. If found as one of a number of anomalous elements in a sample, or spatially related to other anomalous readings, the Level C anomaly takes on more significance. Thus, these lie in that range of overlap between background and anomalies. Statistically, Level B and A anomalies represent readings that are among the top several percent of the population and are clearly anomalous.

For the 1991 report, the use of the multiple standard deviations to decide on backgrounds and thresholds was supplemented with the second method of graphs. As the results were comparable, this second alternative was not repeated for this years data.

The identified anomalies of all levels were then plotted on maps of the two claim blocks, separated by element (Figures 8-26). These were then analysed for spatial clustering of values, that could then be considered anomalous areas, or geochemical targets.

5.4 Discussion

The raw data from all sampling programs is tabulated in Appendix II of this report. The maps of Figures 8a and b show the locations of all samples from the Treaty Group, of Treaty 4, 5, and 7 claims. As no samples from the Stan Group were analysed, no equivalent maps or tables are given for those claims. Similarly, the analytical results from last years work were divided into several additional subsets, based on underlying geology and drainage basin. The nature of the sample this year obviates this exercise; thus the results of the analysis are simply the elemental analyses for each of the silt and rock subsets. In this table (Appendix II) the results are in PPM (parts per million) for all elements except iron, which is shown as a percentage, and gold, which is in PPB, parts per billion. In all cases the discussion below is concerned with the silt and rock samples; other statistics for ALL samples and the FLOAT samples are given for record only.

Like the results for the total sample (Table 1) from last years analysis, most of the statistics for each element show means that are very close to standard deviation, indicating a maximum frequency at the lower extreme; only the rock samples for lead and arsenic, and silt assays for copper and lead have means slightly greater than the respective standard deviations. Most of the figures for the silt/rock sets show sharp differences in those two statistics, and these are matched by the ranges. All show marked differences in the means or standard deviations for the sets. Thus, it is clear that separating the total sample along basic material lines is logical and advisable.

The sample from the Treaty Claim Group shows a slightly different pattern to that of the total with copper, antimony, bismuth, cobalt, iron, and molybdenum showing a higher mean than standard deviation among the rock samples, and copper, lead, bismuth, cobalt and iron among the silt samples, all showing a higher mean than standard deviation. This comparison for the Stan Group shows that copper, lead and arsenic among the rock samples have very slightly higher means than standard deviations, and all but arsenic among the silt samples are either equal or very slightly higher.

TABLE 3 - ANOMALOUS RANGES - TOTAL ROCK AND SILT SAMPLING FROM TREATY CLAIM GROUP

ROCK SAMPLES

ELEM'T	B/GRND	THR/LD	ANOMALIES C	B	A
Au	0-30ppb	30	310-450	450-730	730-1010
Ag	0-6.4ppm	6	6-12	12-20	20-31
Cu	0-105.5ppm	106	106-139	139-206	206-273
Pb	0-161.7ppm	162	162-300	300-507	507-783
Zn	0-927ppm	927	927-1261	1261-1595	1595-2263
Sb	0-9.9ppm	10	10-13		13-16
As	0-98.2ppm	98	98-165	165-198	198-298
Co	0-16.1ppm	16	16-21	21-26	26-31
Fe	0-9.1%	9%	9-11%	11-14%	14-16%
Mo	0-35.5	36	36-46		46-56

SILT SAMPLES

ELEM'T	B/GRND	THR/LD	ANOMALIES C	B	A
Au	0-363.3	363	363-514	514-816	816-1118
Ag	0-2.3	2.5	2.5-4	4-8	8-13
Cu	0-101.1	101	101-129	129-184	184-211
Pb	0-43.2	43	43-65	65-86	86-108
Zn	0-829	829	829-1451	1451-2384	2384-3628
Sb	0-12.4	12	12-21	21-26	26-44
As	0-96.8	97	97-129	129-161	161-226
Co	0-154.1	154	154-204		
Fe	0-10.6%	11%	11-13		
Mo	0-74.6	75	75-133		

The above samples include all samples taken from the Treaty 4, 5, & 6 Claims and analysed from all geochemical sampling programs.

No attempt to contrast the values with respect to the differences in the underlying bedrock as was done for the 1991 report. Virtually all of the rock samples were taken from outcrops of Salmon River sediments and the talus samples were from slopes and cliffs from the same source. The sediment samples were also almost entirely collected from stream beds with sources in the Salmon River for similar reasons there was no real point to comparing results from several drainage basins.

Table 3 provides the derived ranges for the three categories of anomaly present in the data, and based on the statistics shown in Table 2. The next tabulation, Table 4, shows the frequency of each anomaly for each element.

TABLE 4 - FREQUENCY STATISTICS FOR ROCK AND SILT SAMPLES FROM TREATY CLAIM GROUP

ROCK SAMPLES

ELEMENT		STAT	RANGE	FREQ.
Au		N		96
		Range	0-1001	
		Var	20373	
		Mean	30.0	
		StDev	140	
		Groups		
		1	0-30	91
	Bk	2	30-170	4
		3	170-310	
		4	310-450	
		5	450-590	
		6	590-730	
	A	7	730-870	
		8	870-1010	2
Ag		N	144	
		Range	0-31	
		Var	7.5	
		Mean	1.0	
		StDev	2.7	
		Groups		
		1	0-1.0	127
	Bk	2	1.0-3.7	22
		3	3.7-6.4	
		4	6.4-9.1	
		56	9.1-11.8	
	B	7	11.8-14.5	1
		8	14.5-17.2	
		9	17.2-19.9	
		10	19.9-22.6	
		11	22.6-25.3	
	A	12	25.3-28.0	1
		13	28.0-30.7	

Cu		N	145	
		Range	3-257	
		Var	1121	
		Mean	38.5	
		StDev	33.5	
		Groups		
		1	0-38.5	90
	Bk	2	38.5-72.0	43
		3	72.0-105.5	10
	C	4	105.5-139.0	2
		5	139.0-172.5	
		6	172.5-206	
	A	7	206-239.5	1
		8	239.5-273	1

Pb		N	145	
		Range	1-768	
		Var	4790	
		Mean	23.7	
		StDev	69	
		Groups		
		1	0-23.7	119
	Bk	2	23.7-92.7	23
		3	92.7-161.7	
		4	161.7-230.7	1
	C	5	230.7-299.7	1
		6	299.7-368.7	
		7	368.7-437.7	
		8	437.7-506.7	
		9	506.7-575.7	
		10	575.7-644.7	
		11	644.7-713.7	
	A	12	713.7-782.7	1

Zn		N	145	
		Range	24-2116	
		Var	111000	
		Mean	259	
		StDev	334	
		Groups		
		1	0-259	97
	Bk	2	259-593	35
		3	593-927	7
	C	4	927-1261	2
	B	5	1261-1595	1
		6	1595-1929	2
	A	7	1929-2263	1

Sb		N	90	
		Range	0.1-15.7	
		Var	9	
		Mean	3.9	
		StDev	3	
		Groups		
		1	0-3.9	48
	Bk	2	3.9-6.9	35
		3	6.9-9.9	0
	C	4	9.9-12.9	6
	B	5	12.9-15.9	2

As		N	115	
		Range	0-277	
		Var	1110	
		Mean	31.6	
		StDev	33.3	
		Groups		
		1	0-31.6	78
	Bk	2	31.6-64.9	29
		3	64.9-98.2	3
	C	4	98.2-131.5	2
		5	131.5-164.8	2
		6	164.8-198.1	
		7	198.1-231.4	
		8	231.4-264.7	
	A	9	264.7-298.0	1
Co		N	87	
		Range	1-31	
		Var	26	
		Mean	5.9	
		StDev	5.1	
		Groups		
		1	0-5.9	53
	Bk	2	5.9-11.0	23
		3	11.0-16.1	9
		4	16.1-21.2	
	B	5	21.2-26.3	1
		6	26.3-31.4	1
Fe		N	60	
		Range	2-16	
		Var	5.1	
		Mean	4.5	
		StDev	2.3	
		Groups		
		1	0-4.5	37
	Bk	2	4.5-6.8	16
		3	6.8-9.1	6
		4	9.1-11.4	
		5	11.4-13.7	
	B	6	13.7-16.0	1
Mo		N	60	
		Range	0.5-47	
		Var	103	
		Mean	15.1	
		StDev	10.2	
		Groups		
		1	0-15.1	36
	Bk	2	15.1-25.3	14
		3	25.3-35.5	6
		4	35.5-45.7	3
	C	5	45.7-55.9	1

SILT SAMPLES

ELEMENTS		STAT	RANGE	FREQ.
Au		N	322	
		Range	0-1001	
		Var	23000	
		Mean	61.3	
		StDev	151	
		Groups		
		1	0-61.3	269
	Bk	2	61.3-212.3	29
		3	212.3-363.3	10
		4	333.3-514.3	5
	C	5	514.3-665.3	2
	B	6	665.3-816.3	2
		7	816.3-967.3	1
	A	8	967.3-1118.3	4
Ag		N	322	
		Range	0-12.4	
		Var	0.8	
		Mean	0.5	
		StDev	0.9	
		Groups		
		1	0-0.5	249
	Bk	2	1.4	60
		3	1.4-2.3	7
		4	2.3-3.2	4
	C	5	3.2-4.1	2
		6	4.1-5.0	0
	B	7	5.0-5.9	1
		8	5.9-6.8	0
		9	6.8-7.7	0
		10	7.7-8.6	0
		11	8.6-9.5	0
		12	9.5-10.4	0
		13	10.4-11.3	0
		14	11.3-12.2	0
	A	15	12.2-13.1	1
Cu		N	321	
		Range	8-199	
		Var	755	
		Mean	46.1	
		StDev	27.5	
		Groups		
		1	0-46.1	239
	Bk	2	46.1-73.6	46
		3	73.6-101.1	22
	C	4	101.1-128.6	6
		5	128.6-156.1	5
	B	6	156.1-183.6	3
	A	7	183.6-211.1	1

Pb		N	321	
		Range	2-101	
		var	116	
		Mean	21.6	
		StDev	10.8	
		Groups		
	Bk	1	0-21.6	200
		2	21.6-32.4	88
		3	32.4-43.2	20
		4	43.2-54.0	6
	C	5	54.0-64.8	5
		6	64.8-75.6	0
	B	7	75.6-86.4	1
		8	86.4-97.2	0
	A	9	97.2-108.0	1

Zn		N	321	
		Range	35-3369	
		Var	97000	
		Mean	207	
		StDev	311	
		Groups		
	Bk	1	0-207	271
		2	207-518	36
		3	518-829	2
		4	829-1140	4
	C	5	1140-1451	2
		6	1451-1762	2
	B	7	1762-2073	1
		8	2073-2384	1
		9	2384-2695	0
	A	10	2695-3006	1
		11	3006-3317	0
		12	3317-3628	1

Sb		N	289	
		Range	0.1-40	
		Var	20.5	
		Mean	3.4	
		StDev	4.5	
		Groups		
	Bk	1	0-3.4	230
		2	3.4-7.9	23
		3	7.9-12.4	24
		4	12.4-16.9	6
	C	5	16.9-21.4	2
		6	21.4-25.9	1
	B	7	25.9-30.4	0
		8	30.4-34.9	1
	A	9	34.9-39.4	1
		10	39.4-43.9	1

As		N	274	
		Range	2-197	
		Var	1040	
		Mean	32.4	
		StDev	32.2	
		Groups		
	Bk	1	0-32.4	189
	Bk	2	32.4-64.6	64
	Bk	3	64.6-96.8	5
	C	4	96.8-129.0	9
	B	5	129.0-161.2	1
		6	161.2-193.4	5
	A	7	193.4-225.6	1
Co		N	37	
		Range	9-195	
		Var	2500	
		Mean	54.3	
		StDev	49.9	
		Groups		
	Bk	1	0-54.3	27
	Bk	2	54.3-104.2	1
	Bk	3	104.2-154.1	8
	C	4	154.1-204.0	1
Fe		N	37	
		Range	3-11	
		Var	4.8	
		Mean	6.2	
		StDev	2.2	
		Groups		
	Bk	1	0-6.2	25
	Bk	2	6.2-8.4	4
	Bk	3	8.4-10.6	5
	C	4	10.6-12.8	1
Mo		N	37	
		Range	1-122	
		Var	846	
		Mean	16.4	
		StDev	29.1	
		Groups		
	Bk	1	0-16.4	31
	Bk	2	16.4-45.5	1
	Bk	3	45.5-74.6	3
		4	74.6-103.7	0
	C	5	103.7-132.8	2

6.0 INTERPRETATION

The Figures 9 to 26 are two sets of maps, one set for each of the rock and silt samples, separated as to assayed element. These show the location of all anomalous readings listed in Appendix IV. No maps are included if there were no anomalies present in the map area. Both silt and rock samples are shown on the same maps, and both locations (small squares) and anomalous readings (A solid circles, B half-solid circles, and C open circles) are shown with the same symbols for each. However, each kind of sample is clear from the numbering or location on or off a water course.

The **Sediment Samples** for 1991 were taken to test certain indications of interest contained in the 1991 report and to carry out exploratory tests of several stream beds that were not done before.

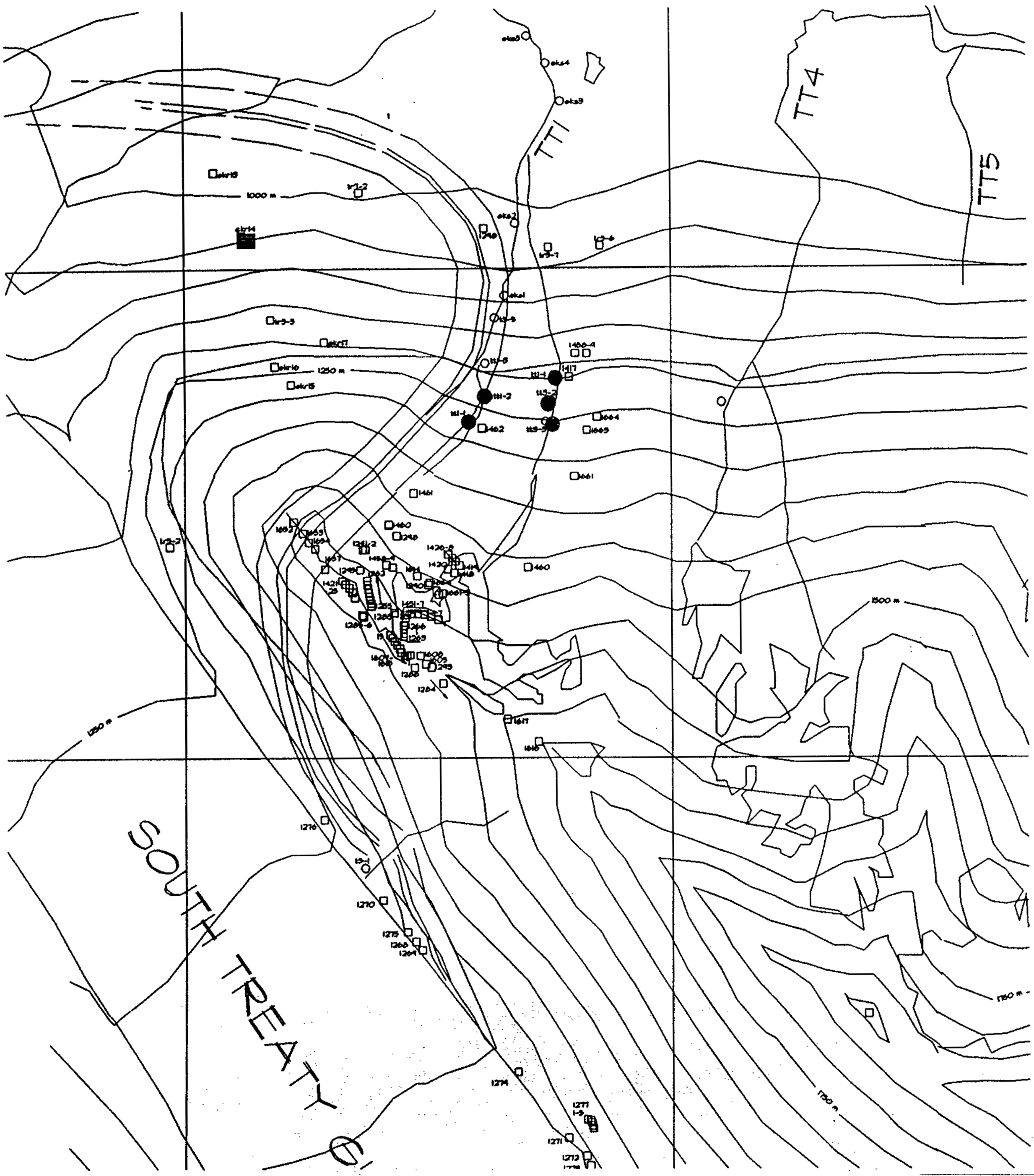
The sampling of the TT1 streams was successful in extending the anomalous readings for multiple elements from the stream bed below the kame up into the lower talus slopes of the upper section of the cirque. As well, the recent samples for both branches of TT1 showed anomalous readings for silver, lead, arsenic, iron and molybdenum, in addition to the copper, zinc and antimony values found last year. The present of obvious anomalous reading in iron suggest that an iron mineral may be a prominent constituent of the source.

The sediments from TT7 were uniformly disappointing, with no values above the background.

The sampling of the streams on the north slope of the lower Drysdale Glacier were very interesting. Of the three streams sampled only the last, DT7 responded to the test, but the values seen in the lower channel were extended to the headwaters. Anomalous readings in silver, copper, antimony, cobalt and iron were assayed, with zinc values well above the mean, but below the threshold.

Rock Sampling was concentrated in two parts of the zone that was last year identified by and with the large geophysical anomaly along the west side of Treaty 5 and 7. A large number of samples were taken in the upper reaches of the cirque drained by the several branches of TT1. A combination of heavy gossans and very intense fracturing and shearing made this area attractive as a place to search for the source or sources of the anomalous silt readings of TT1, as well as a possible explanation for the geophysical anomaly. The samples yielded some high zinc readings and a few high copper readings, but for the most part, were below the threshold values, except in antimony, less iron, some molybdenum, and a very few zinc and copper.

FIGURE 9 - MAP SHOWING SILVER ANOMALIES IN THE CIRQUE ZONE



Also, see Fig. 8a

FIGURE 10 - MAP SHOWING COPPER ANOMALIES IN THE CIRQUE ZONE

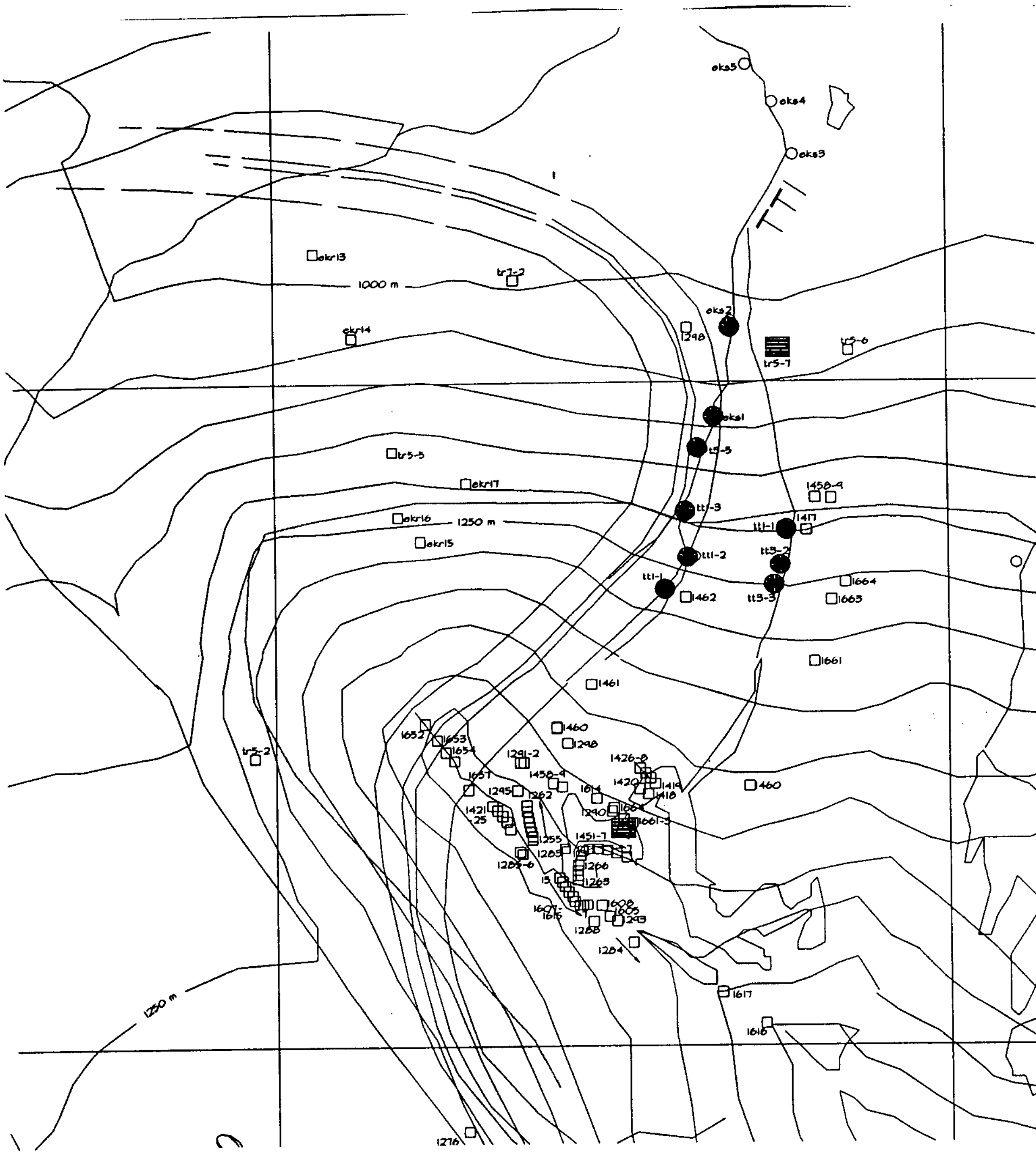


FIGURE 11 - MAP SHOWING LEAD ANOMALIES IN THE CIRQUE ZONE

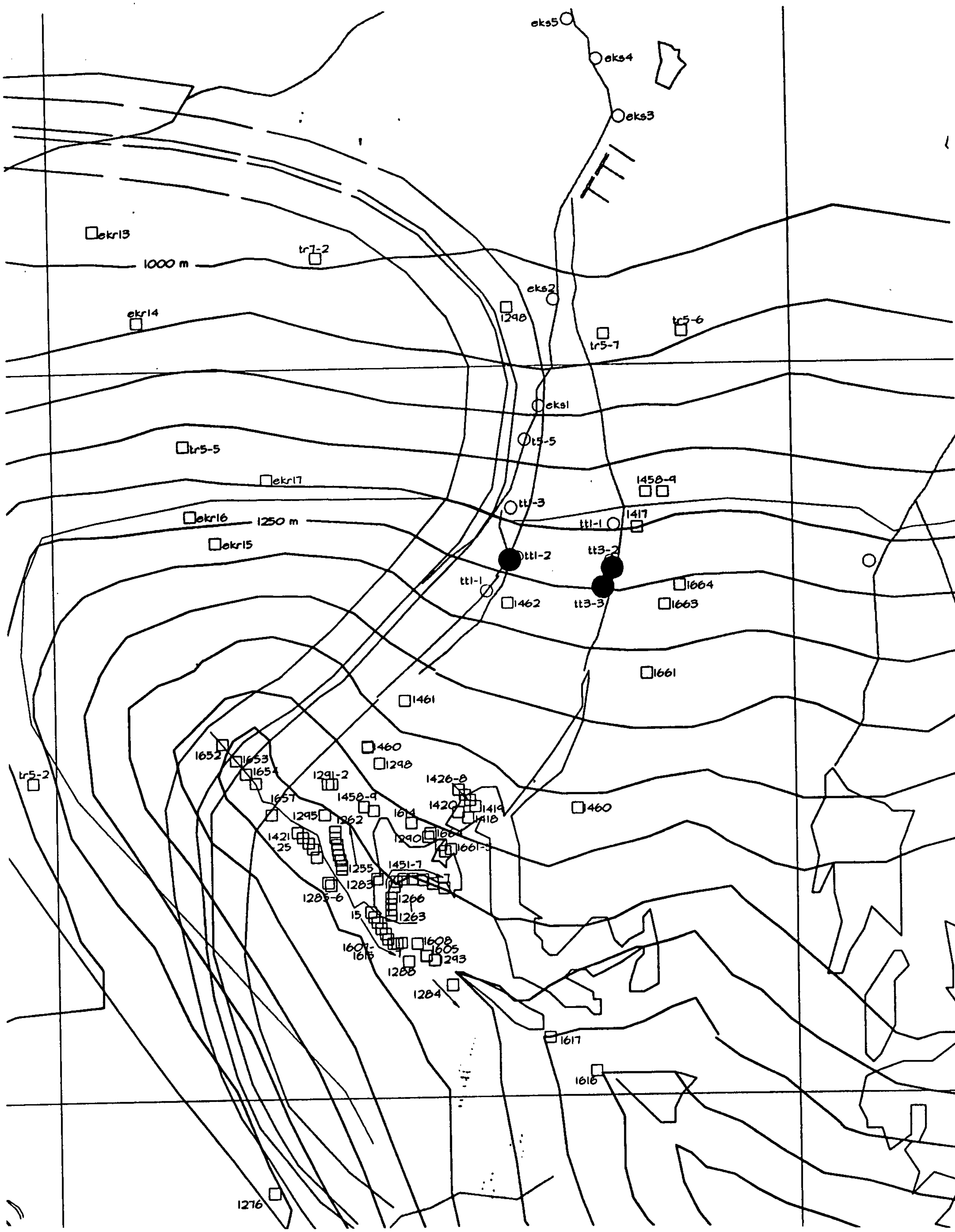


FIGURE 12 - MAP SHOWING ZINC ANOMALIES IN THE CIRQUE ZONE

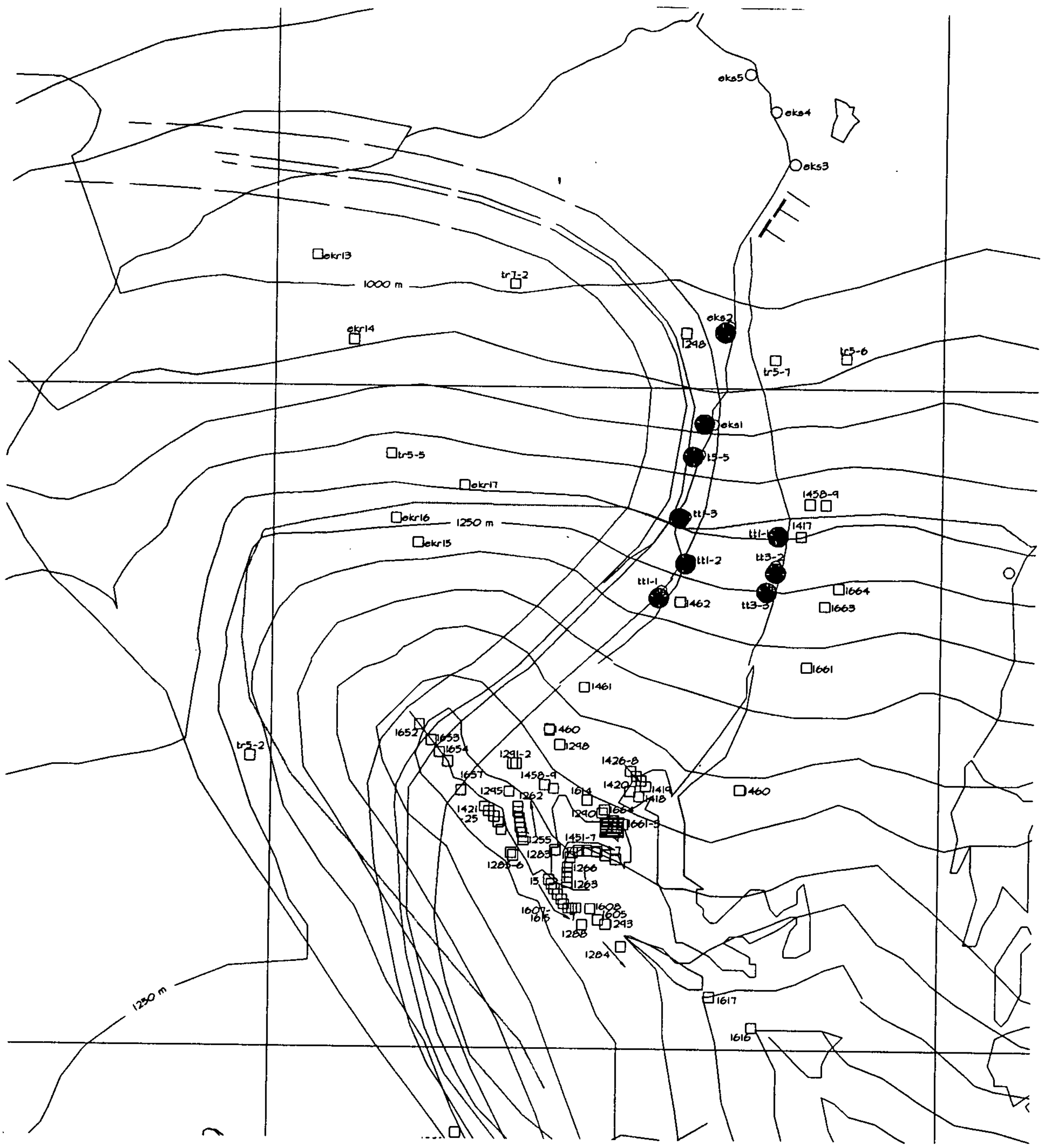


FIGURE 13 - MAP SHOWING ANTIMONY ANOMALIES IN THE CIRQUE ZONE

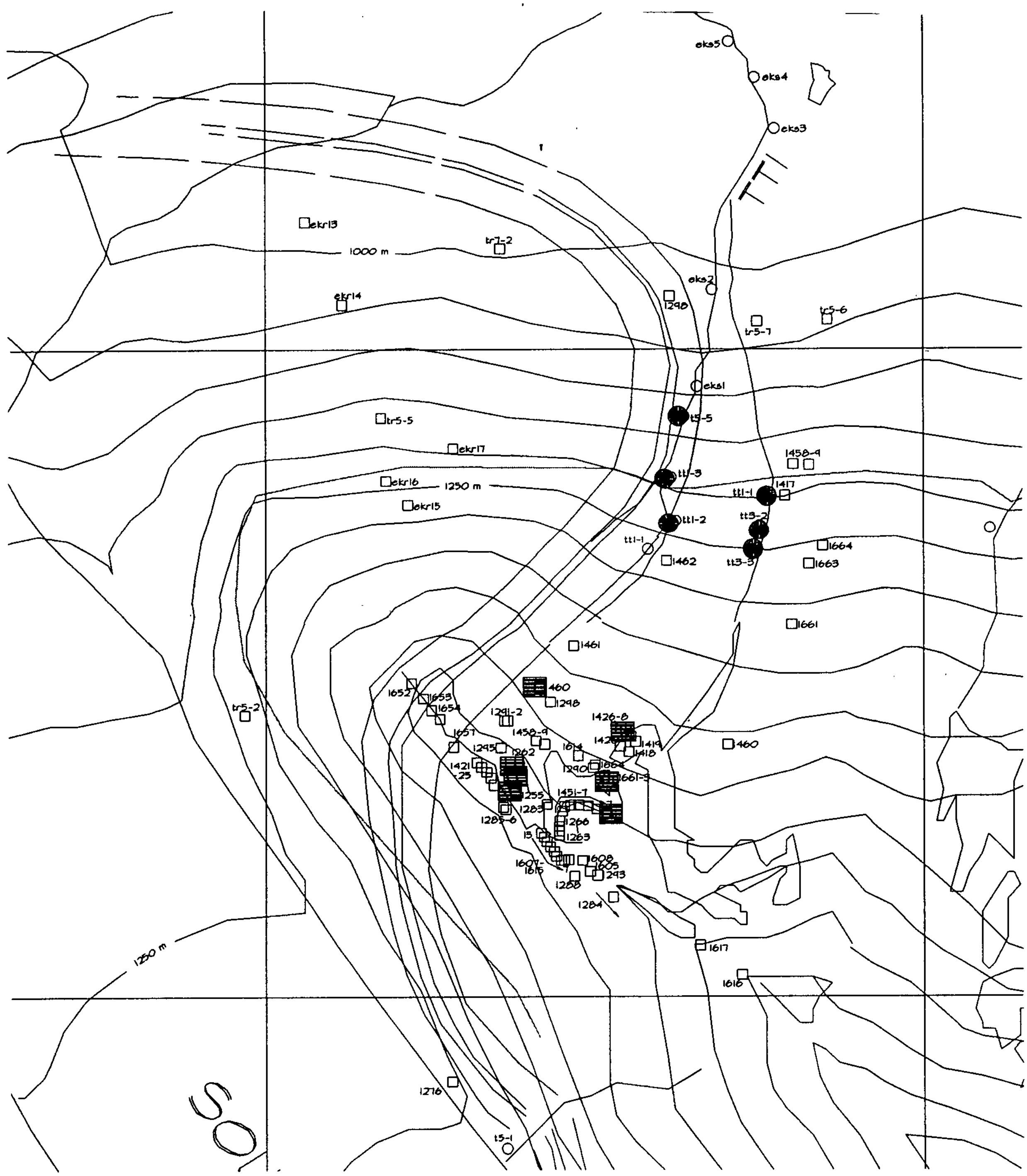


FIGURE 14 - MAP SHOWING ARSENIC ANOMALIES IN THE CIRQUE ZONE

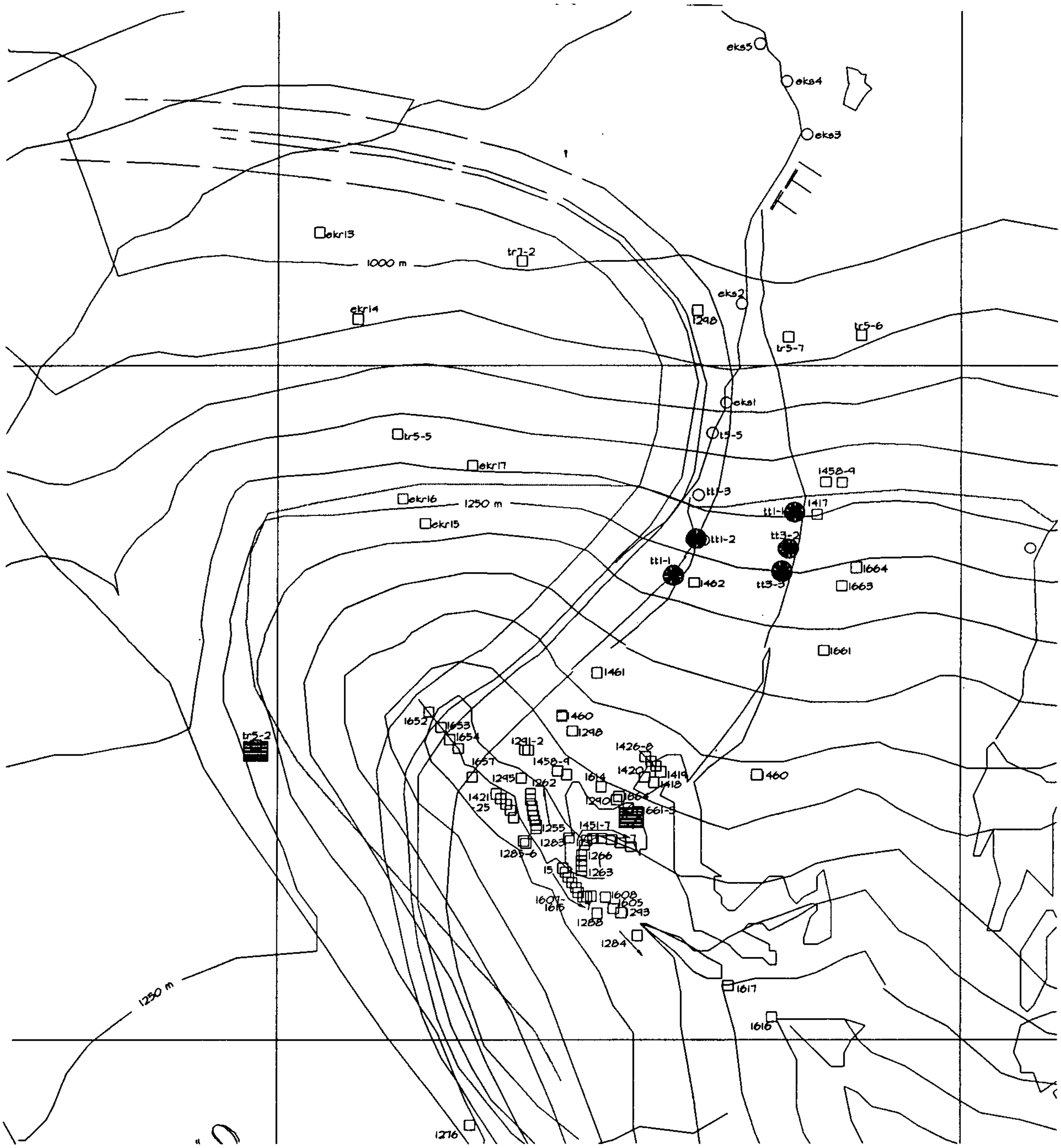


FIGURE 15 - MAP SHOWING COBALT ANOMALIES IN THE CIRQUE ZONE

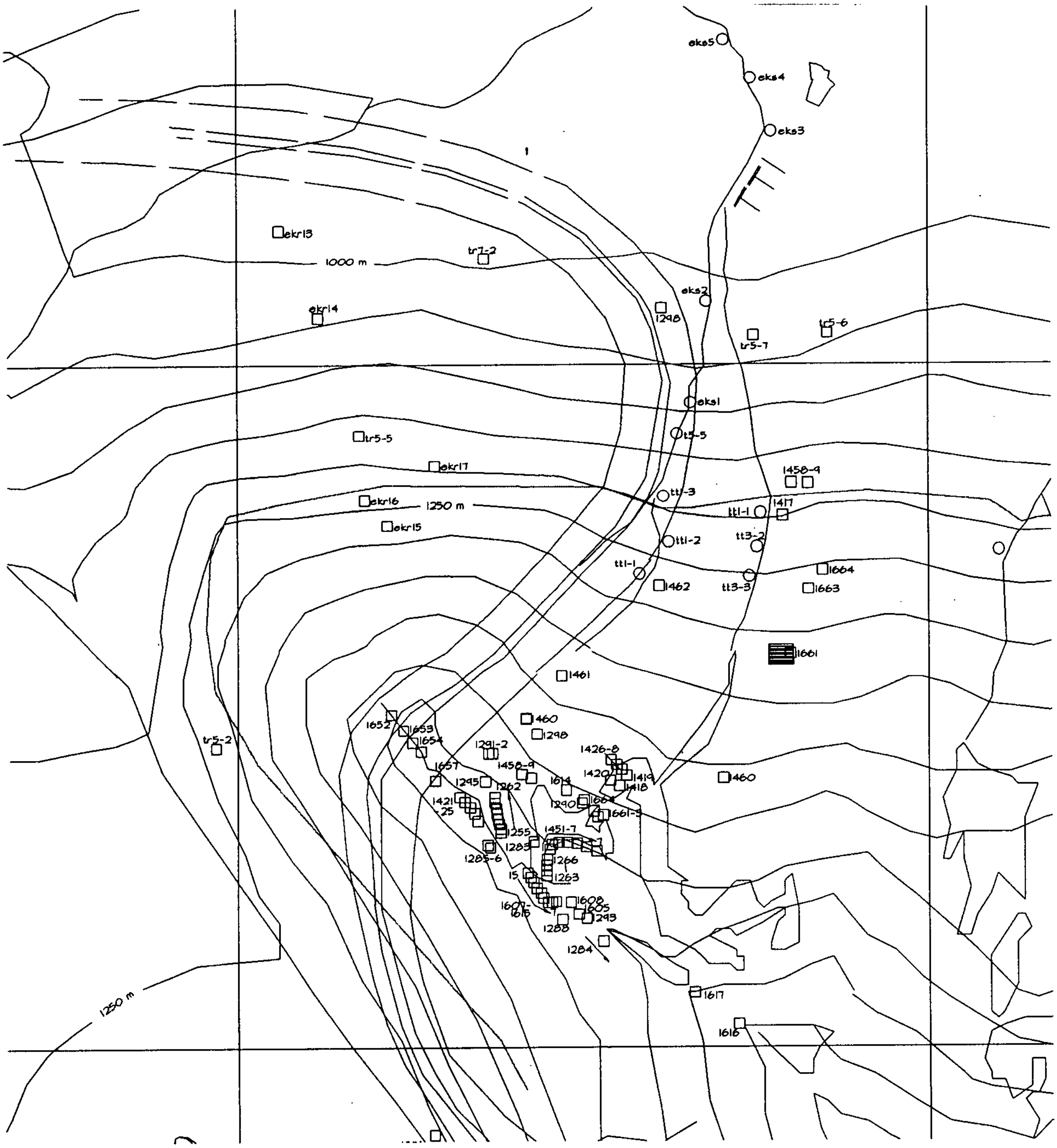


FIGURE 16 - MAP SHOWING IRON ANOMALIES IN THE CIRQUE ZONE

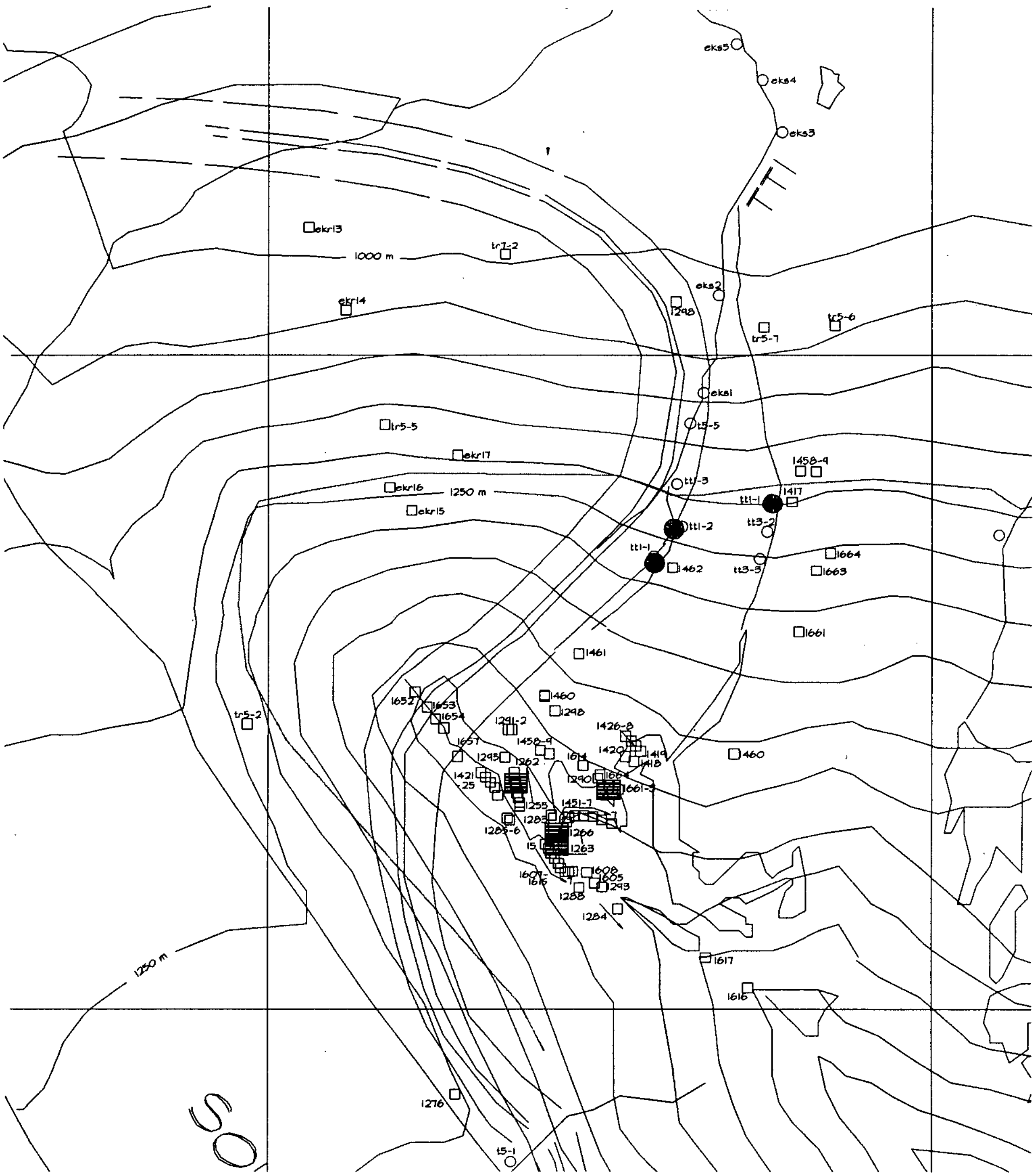


FIGURE 17 - MAP SHOWING MOLYBDENUM ANOMALIES IN THE CIRQUE ZONE

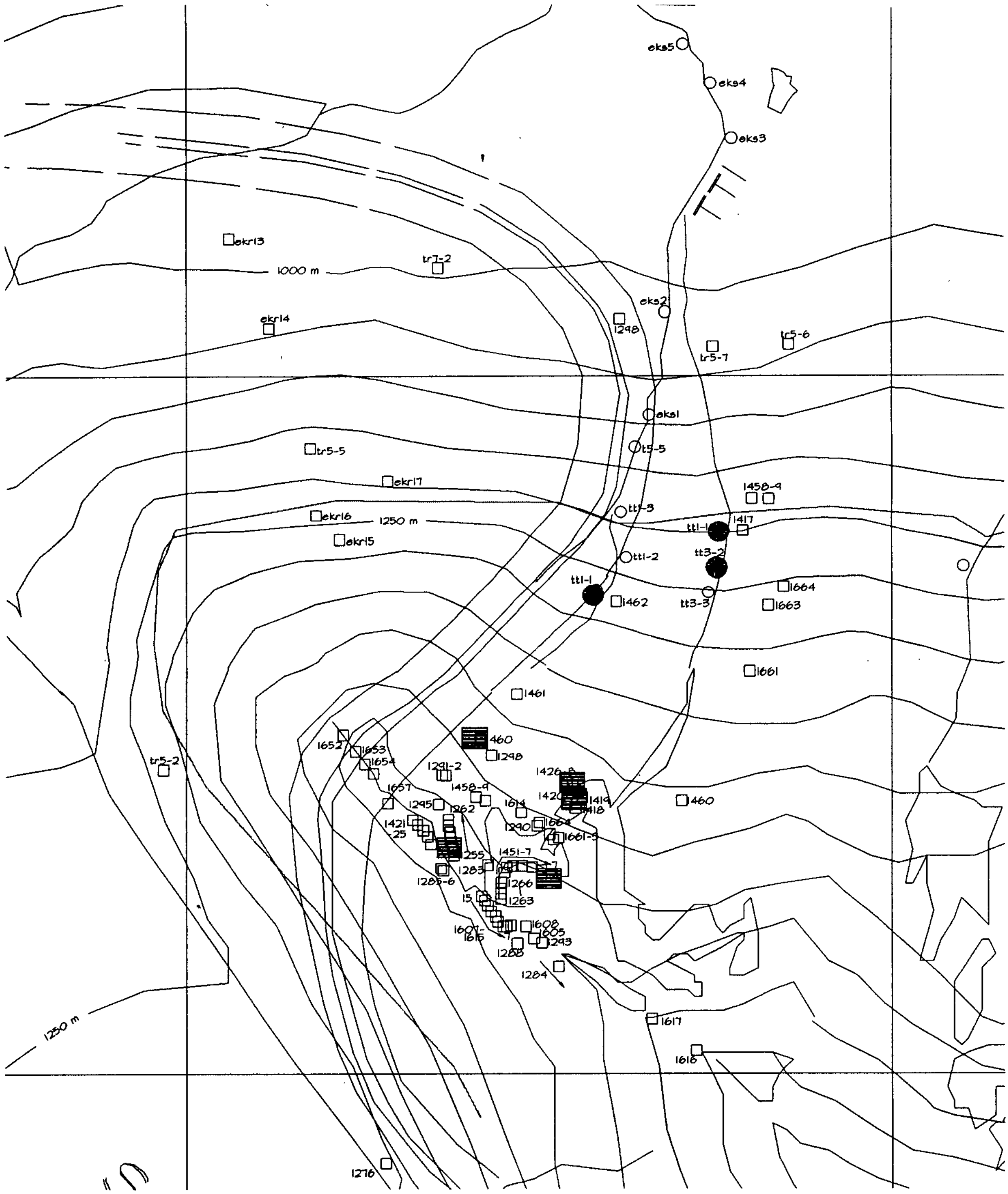
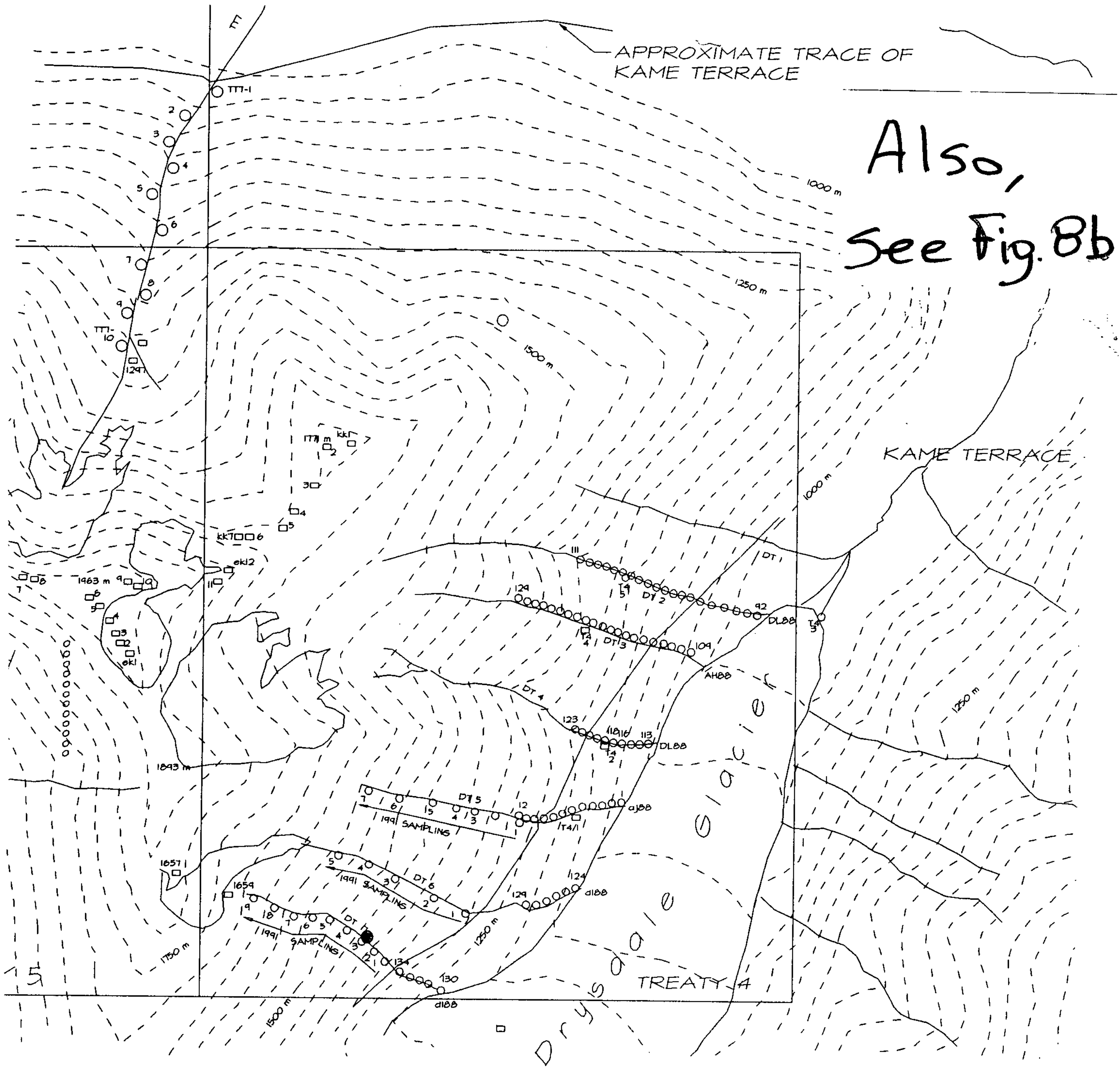


FIGURE 18 - MAP SHOWING SILVER ANOMALIES IN THE D T 7 ZONE



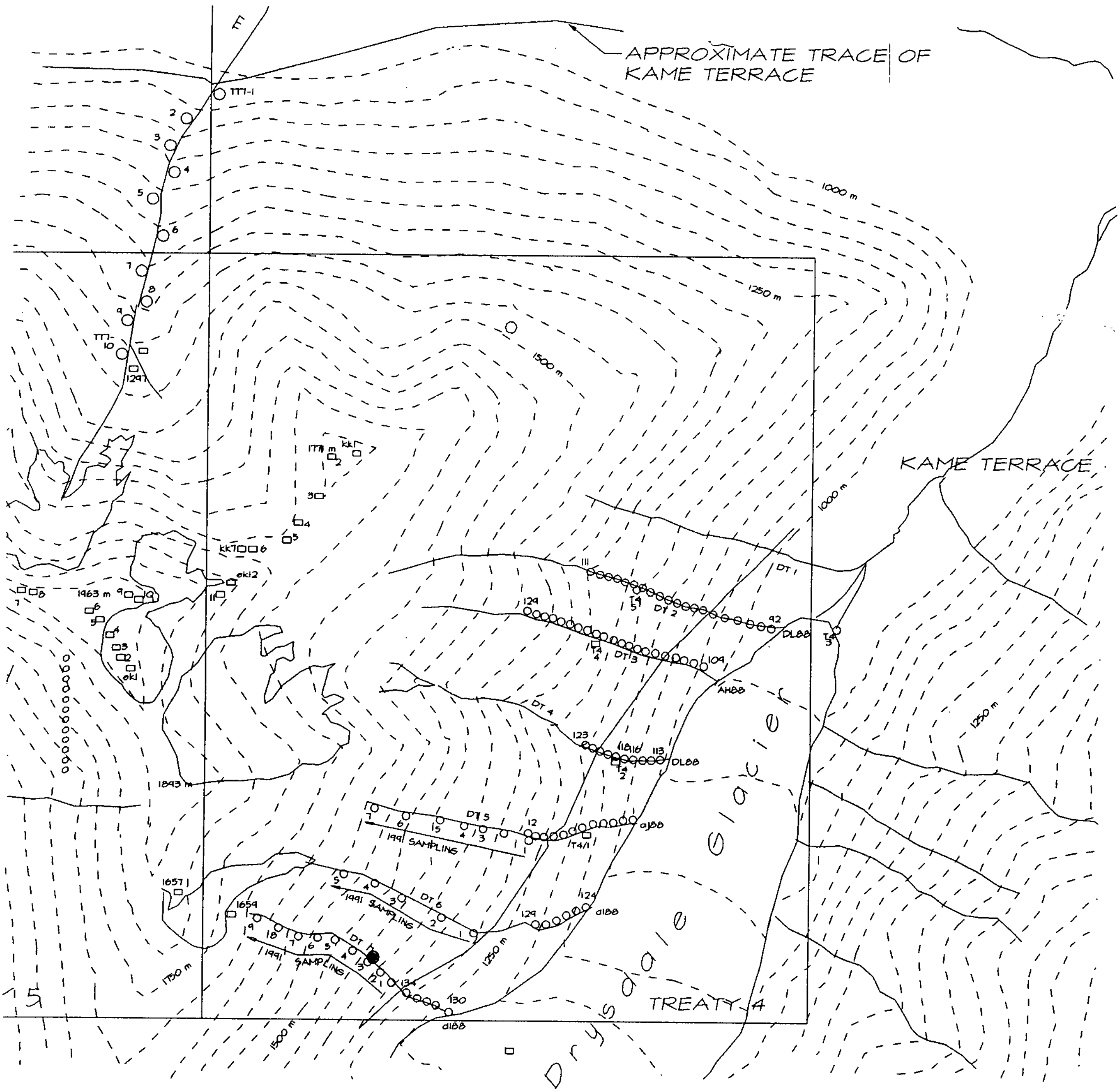
MAP OF TREATY 4 CLAIM & EAST PART OF TREATY 5 SHOWING LOCATION OF SAMPLES TAKEN ON TT-7 AND DT-5 TO 7 IN 1991

SILVER ANOMALIES

Scale

0 1000m 2000m 3000m

FIGURE 18 - MAP SHOWING SILVER ANOMALIES IN THE D T 7 ZONE



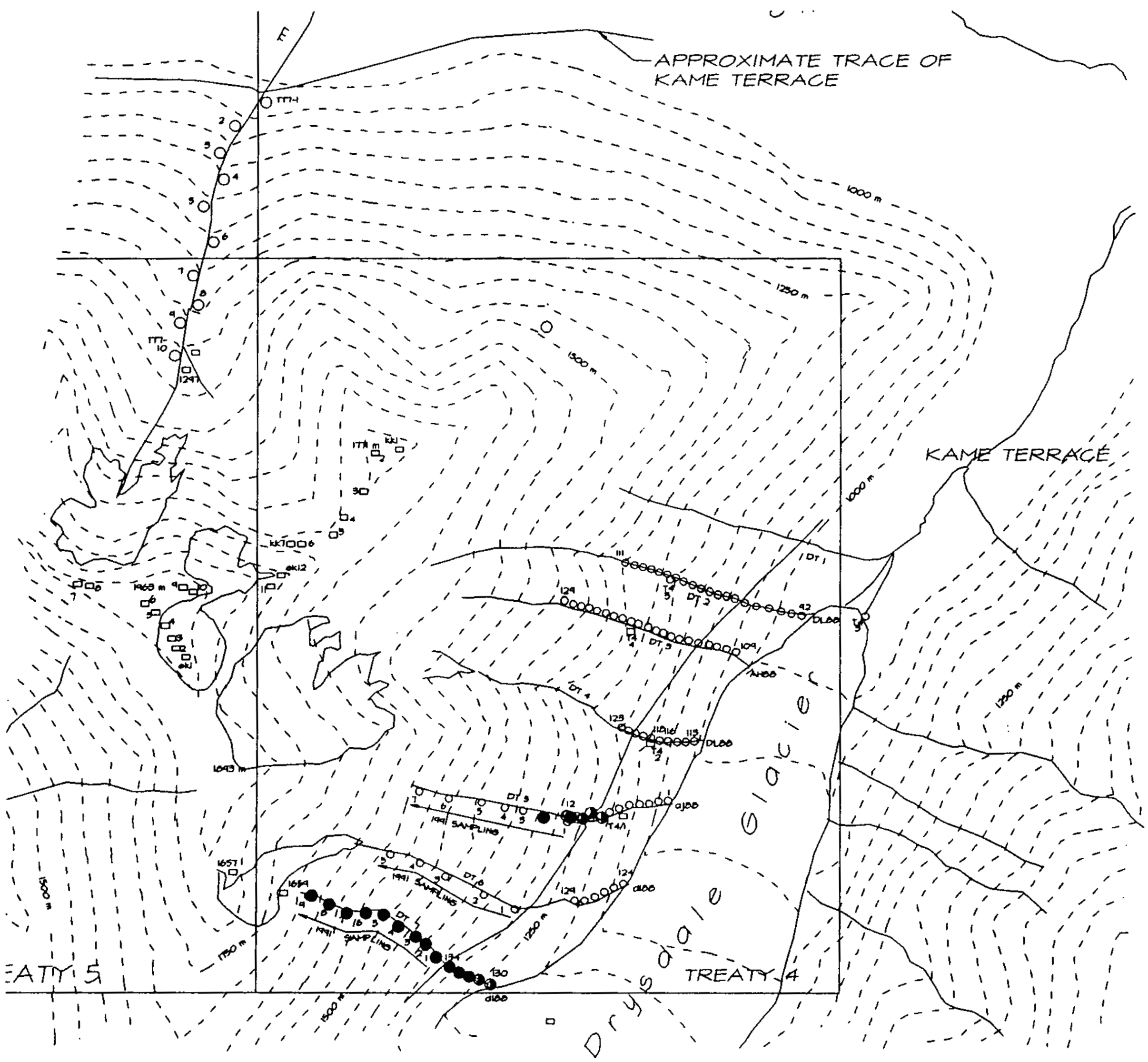
MAP OF TREATY 4 CLAIM & EAST PART OF TREATY 5 SHOWING LOCATION OF SAMPLES TAKEN ON TT-7 AND DT-5 TO 7 IN 1991

SILVER ANOMALIES

Scale

0 1000m 2000m 3000m

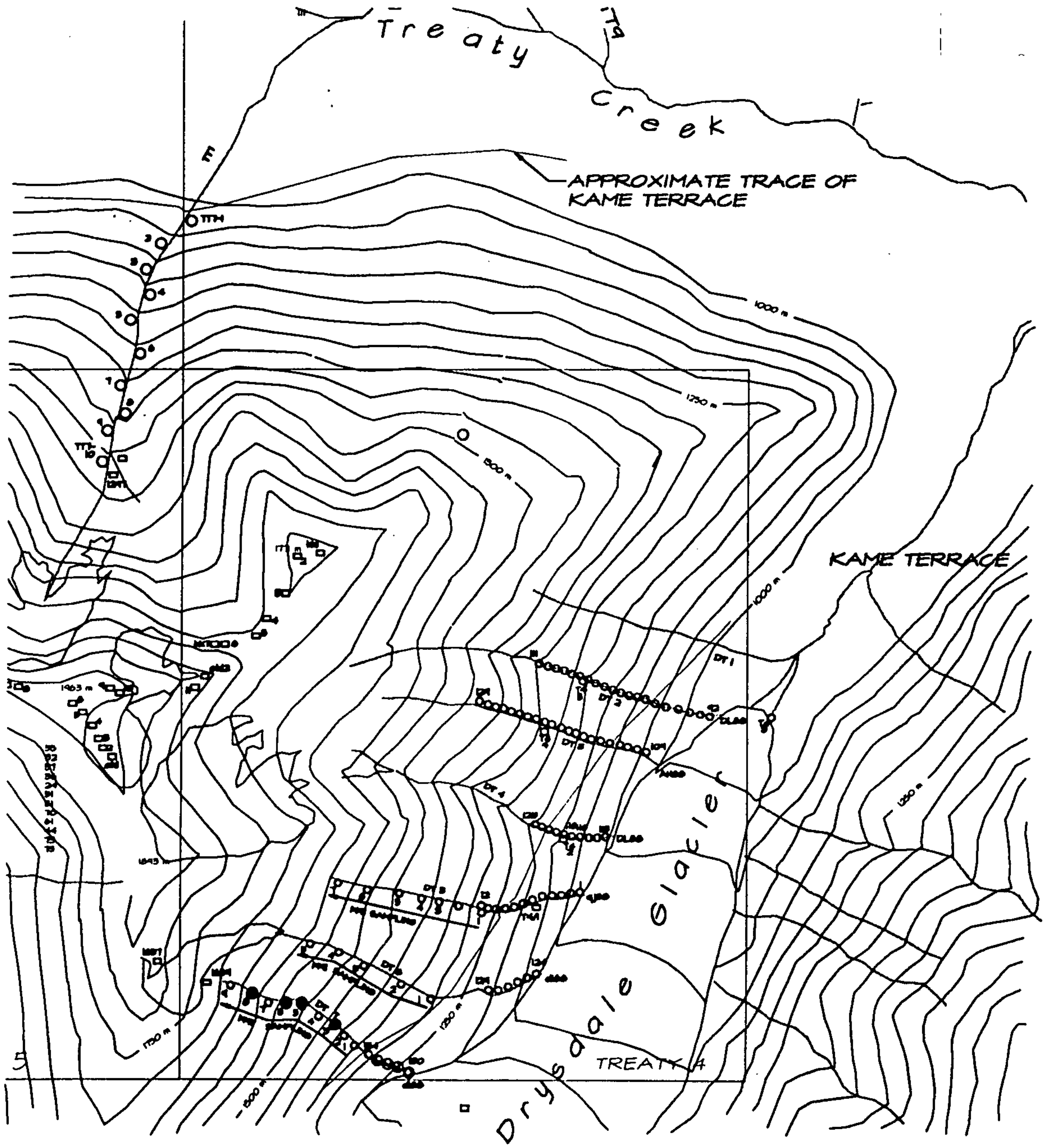
FIGURE 19 - MAP SHOWING COPPER ANOMALIES IN THE D T 7 ZONE



MAP OF TREATY 4 CLAIM & EAST PART OF TREATY 5 SHOWING LOCATION OF SAMPLES TAKEN ON TT-7 AND DT-5 TO 7 IN 1991

COPPER ANOMALIES

FIGURE 20 - MAP SHOWING ZINC ANOMALIES IN THE D T 7 ZONE



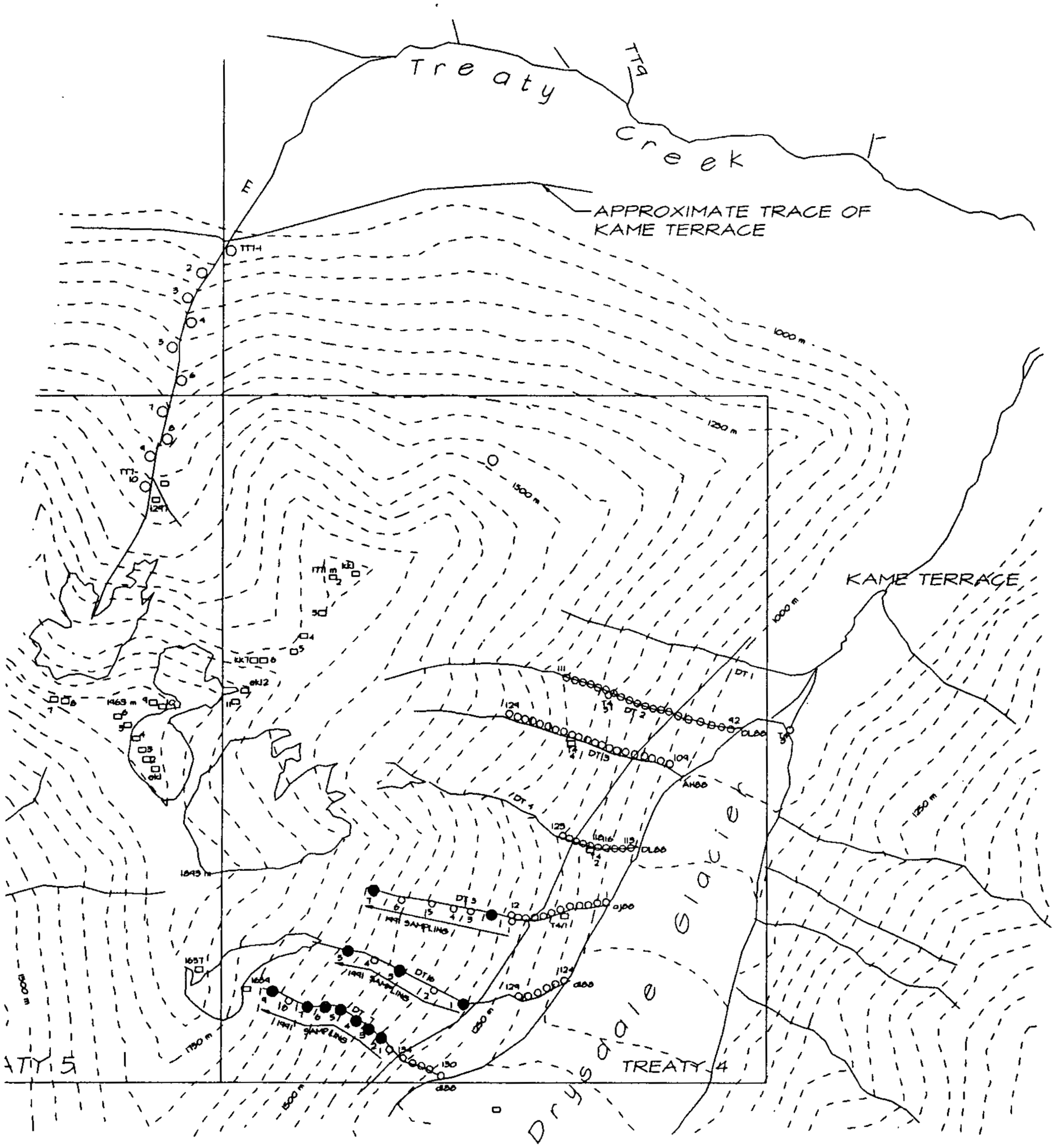
MAP OF TREATY 4 CLAIM & EAST PART OF TREATY 5 SHOWING LOCATION OF SAMPLES TAKEN ON TT-7 AND DT-5 TO 7 IN 1991

ZINC ANOMALIES

Scale

0 1000m 2000m 3000m

FIGURE 21 - MAP SHOWING ANTIMONY ANOMALIES IN THE D T 7 ZONE



MAP OF TREATY 4 CLAIM & EAST PART OF TREATY 5 SHOWING LOCATION OF SAMPLES TAKEN ON TT-7 AND DT-5 TO 7 IN 1991

ANTIMONY ANOMALIES

Scale

0 1000m 2000m 3000m

FIGURE 22 - MAP SHOWING COBALT ANOMALIES IN THE D T 7 ZONE

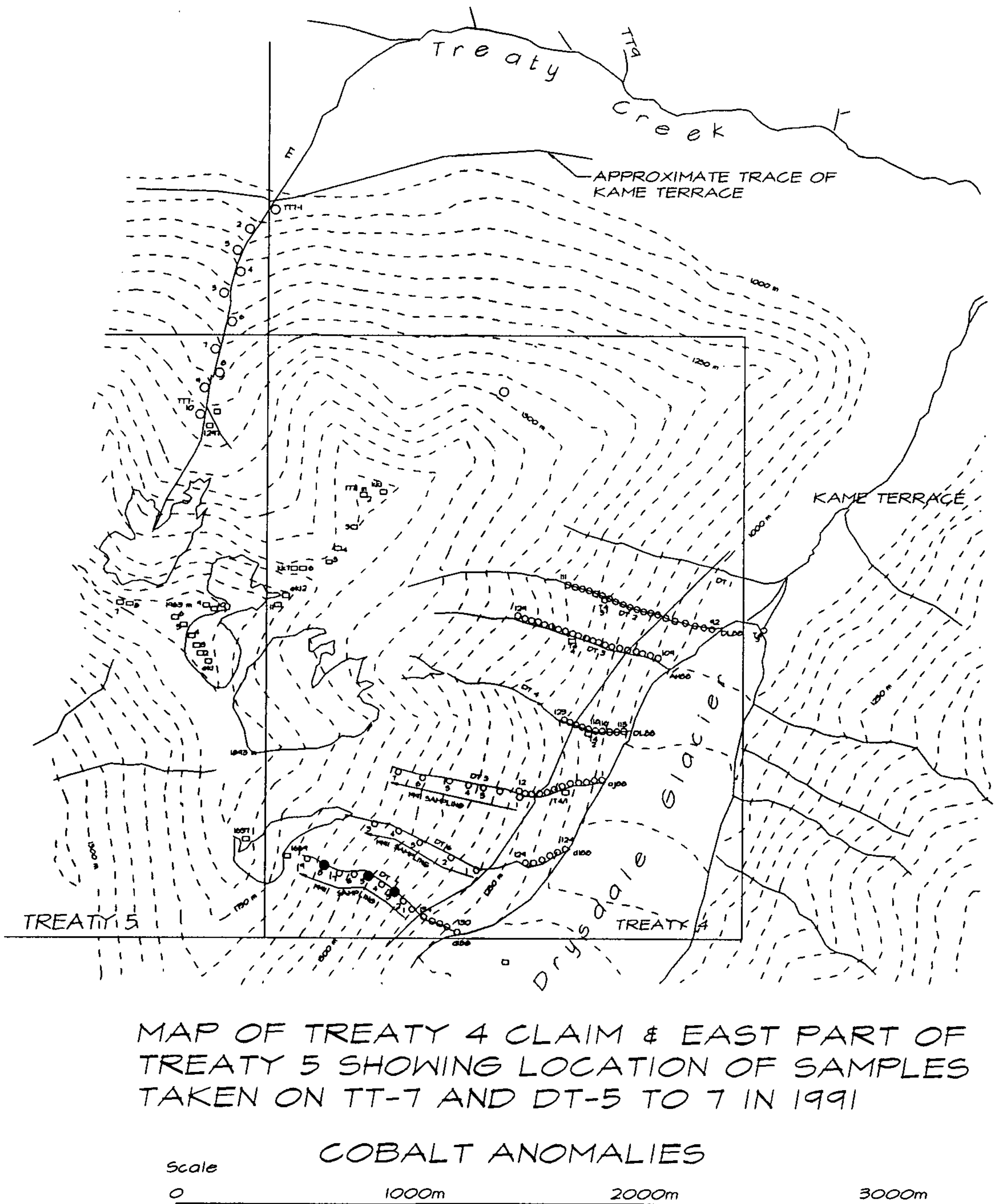
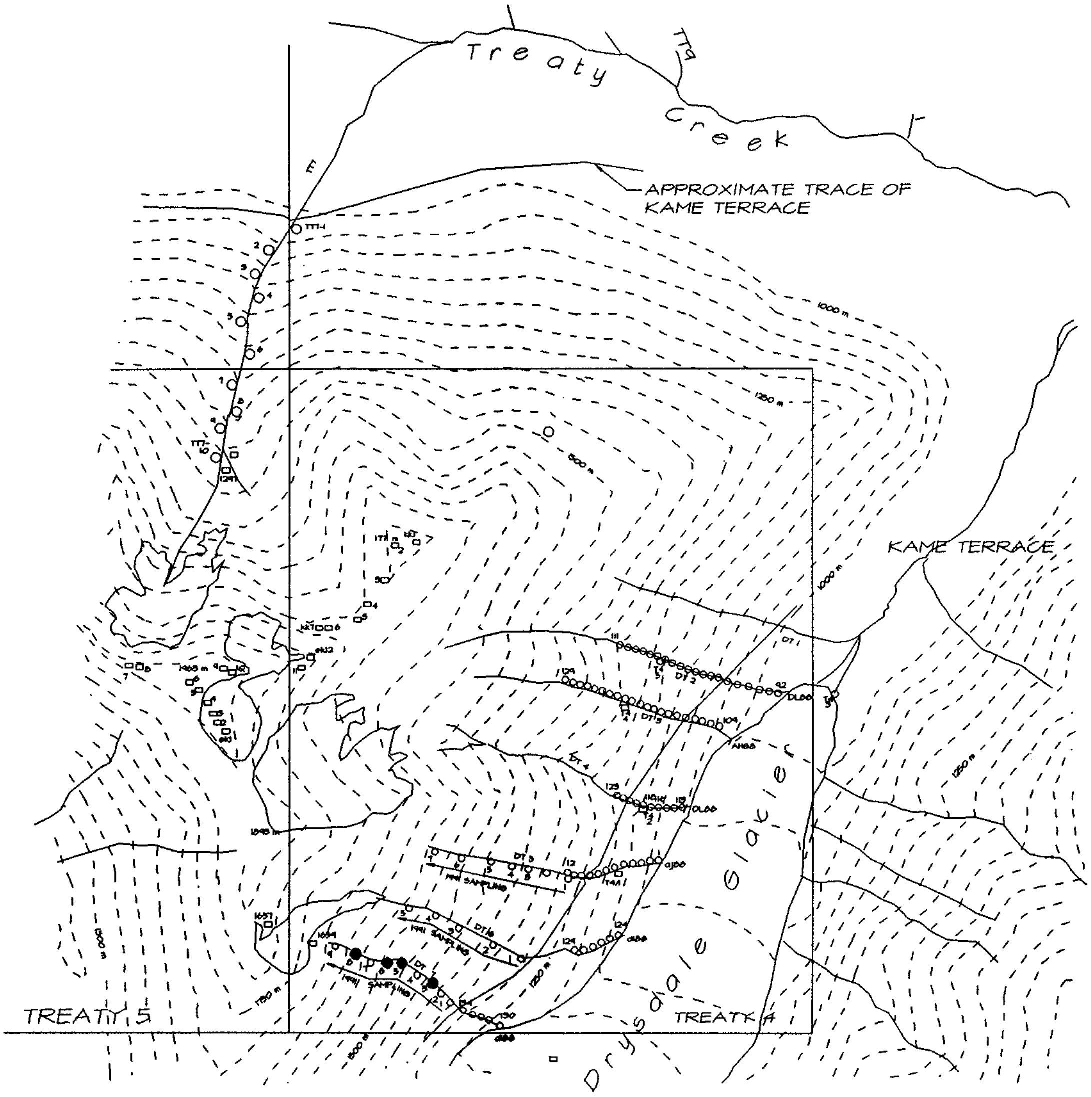


FIGURE 23 - MAP SHOWING IRON ANOMALIES IN THE D T 7 ZONE



MAP OF TREATY 4 CLAIM & EAST PART OF TREATY 5 SHOWING LOCATION OF SAMPLES TAKEN ON TT-7 AND DT-5 TO 7 IN 1991

IRON ANOMALIES

Scale

0 1000m 2000m 3000m

FIGURE 24 - MAP SHOWING ZINC ANOMALIES IN THE SOUTH TREATY ZONE

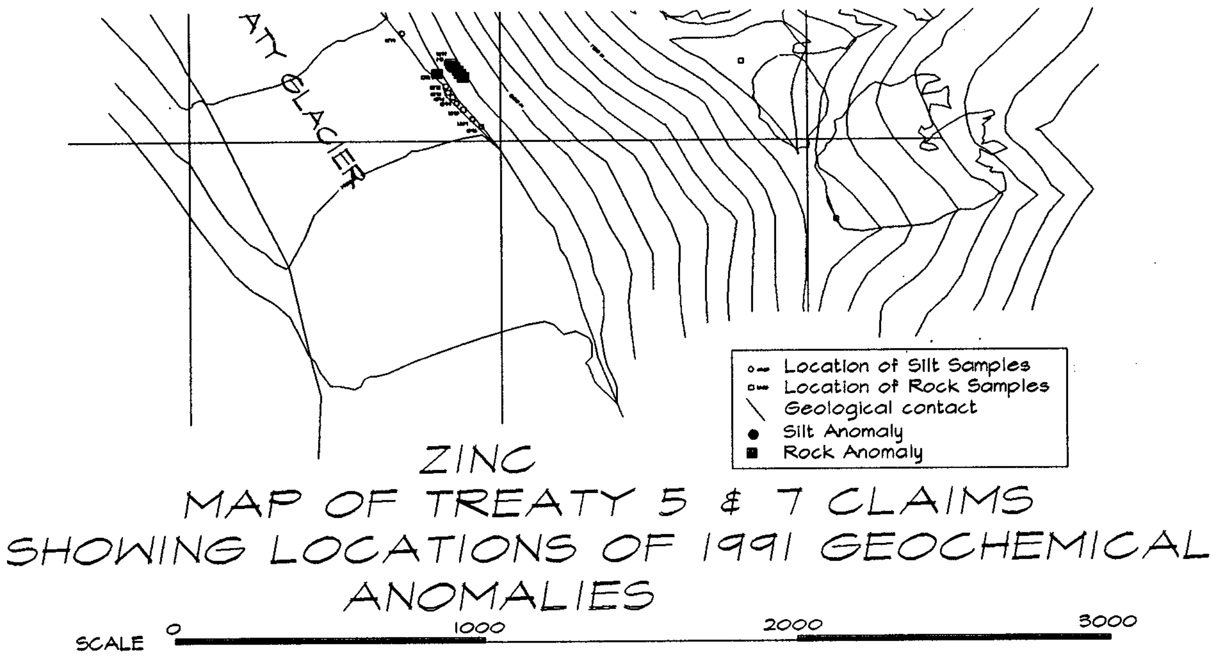


FIGURE 25 - MAP SHOWING ANTIMONY ANOMALIES IN THE SOUTH TREATY ZONE

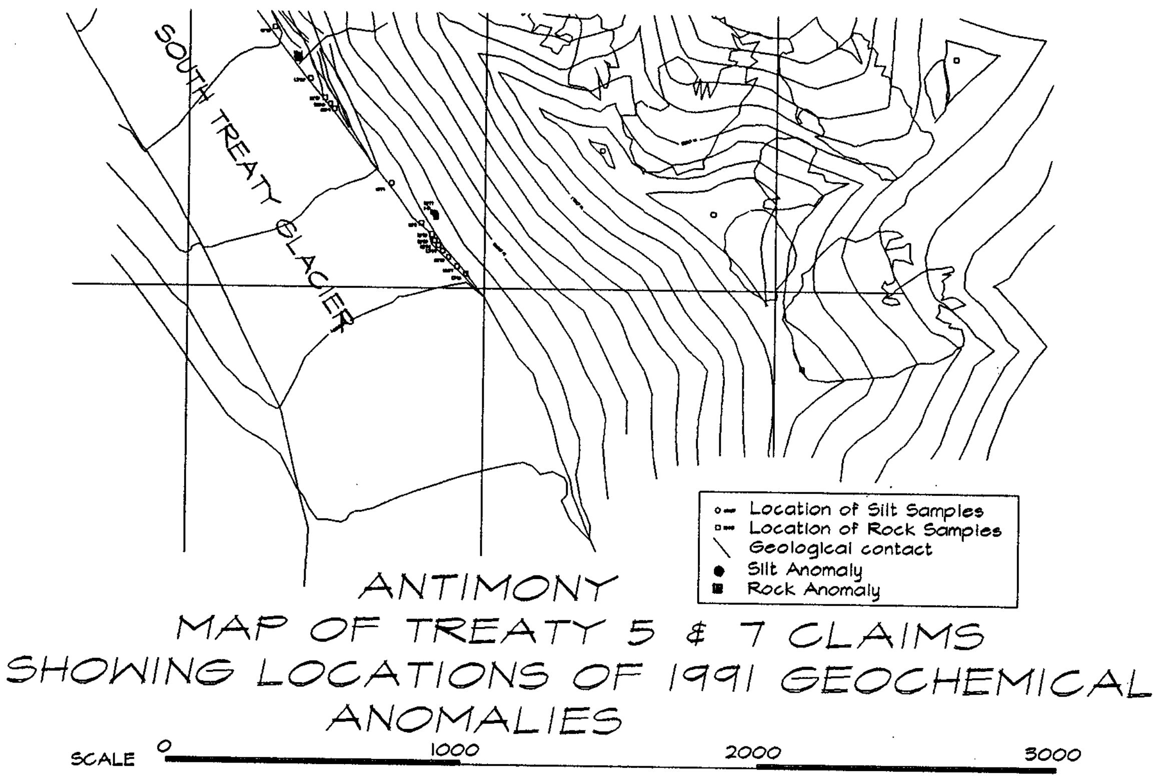
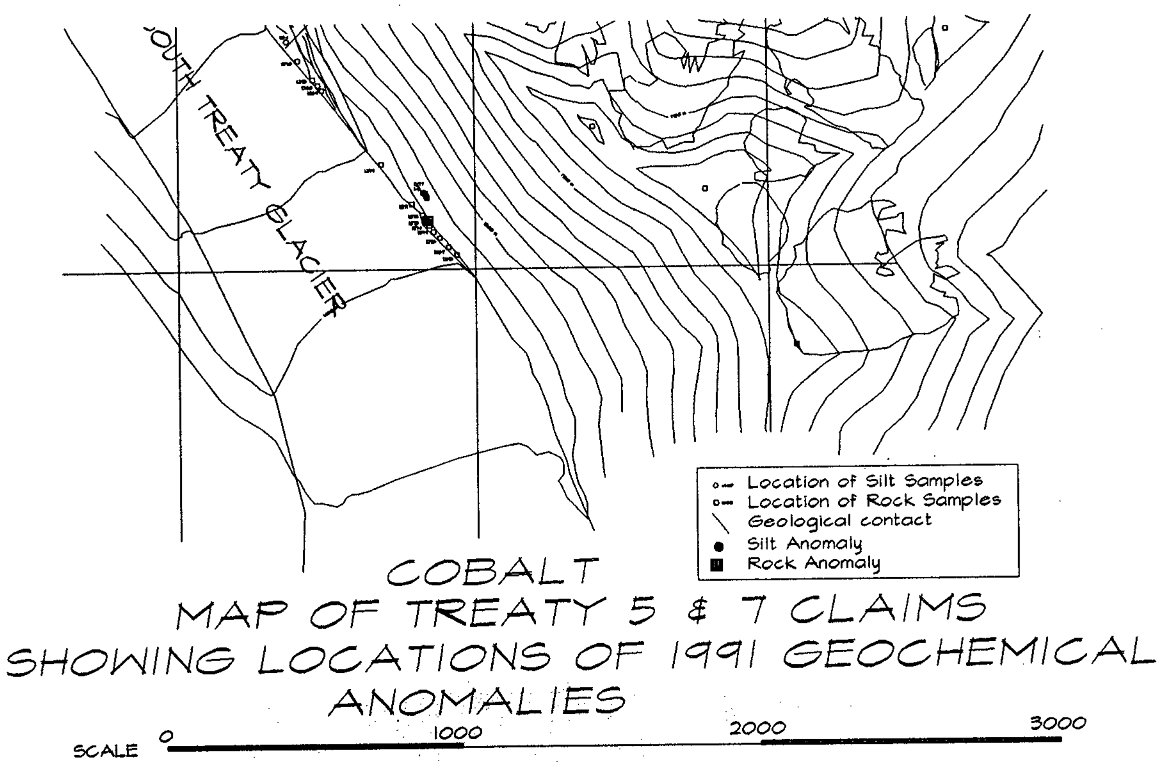


FIGURE 26 - MAP SHOWING COBALT ANOMALIES IN THE SOUTH TREATY ZONE



Very similar results were returned from the attempts to 'sample' the steep terrain on the south-west side of the ridge, above the South Treaty Glacier. In spite of preparations made for steep terrain work, it was not practical for any extensive prospecting of this area, much less sampling. An alternative, resorted to only after many attempts to climb the highly broken and sheared cliffs, was to collect talus from those cliffs. The assays from these rocks were uniformly poor. The one good exposure that was studied and sampled returned very interesting results in copper and zinc, the same association as the silt sample # t5-1, taken in 1987, about 1000 feet to the northwest. No silt samples were collected from this region during this program due to the high glacial clay content noted in all of the depressions and stream banks. As noted previously, this clay was found to extend all the way to the ridge. The results of the 1991 sampling did very little to extend the confidence in this area beyond the geophysical data.

The results provide an good indication that there at least two parts of the Treaty Claim Group that continue to respond well to the exploration efforts; namely, the TT1 basin and DT7 stream valley. No work was done on the TT6 area and the work south of the ridge was inconclusive. For the purposes of future work the targets can be a little more clearly and logically defined (Figure 27). The TT 6 Zone can be defined according to the anomalous geochemical readings reported in 1991. The Cirque Zone includes the Treaty Creek Ridge and the adjoining basin of the two branches of TT1. The South Treaty Zone covers the steep terrain from the ridge down to the glacier from the Mount Dilworth Formation outcrop just below the ridge to the end of the favourable zone to the southeast of the where the Dilworth disappears under the South Treaty Glacier. The DT 7 Zone covers the drainage basin of the DT 7 stream and the adjoining ridge between it and the slope to the South Treaty Glacier to the west.

With respect to the effects of the glacial clay on silt sampling, it would be expected that it would decrease with elevation, even though some clay was noted as high as the ridge. If it is assumed that the presence of anomalous readings in a steep stream bed reflects the presence of a sulfide deposit, it follows that they would continue until the samples were taken above the deposit. The few sample sequences up a stream bed, discussed in this study, are fairly consistent between them. The sequence up TT1 shows a pretty good cline form the lower slopes, up across the kame into the lower part f the upper basin. Similarly, the results on DT7, particularly for copper, show the cline for the lower part and then a fluctuation up to about the 1700 m level, where they decline somewhat. At least some of this is difficult to distinguish when the effects of sampling error are considered.

In the 1991 report, several anomalous associations were recognized. In the samples from the Treaty Group there were two distinctive associations - a Au, Pb, Sb, and As, and a Cu, Zn, and Sb. It is possible that the first has a minor tendency to be accompanied by a low level of Ag. The latter also shows a similar tendency for low levels of Pb and As, particularly with the inclusion of the float samples. The silver association in the first association became much clearer in this years results, and several other elements were added, lead, arsenic, iron and molybdenum. Zinc seems to have dropped out of the second association, but added to it were cobalt and iron.

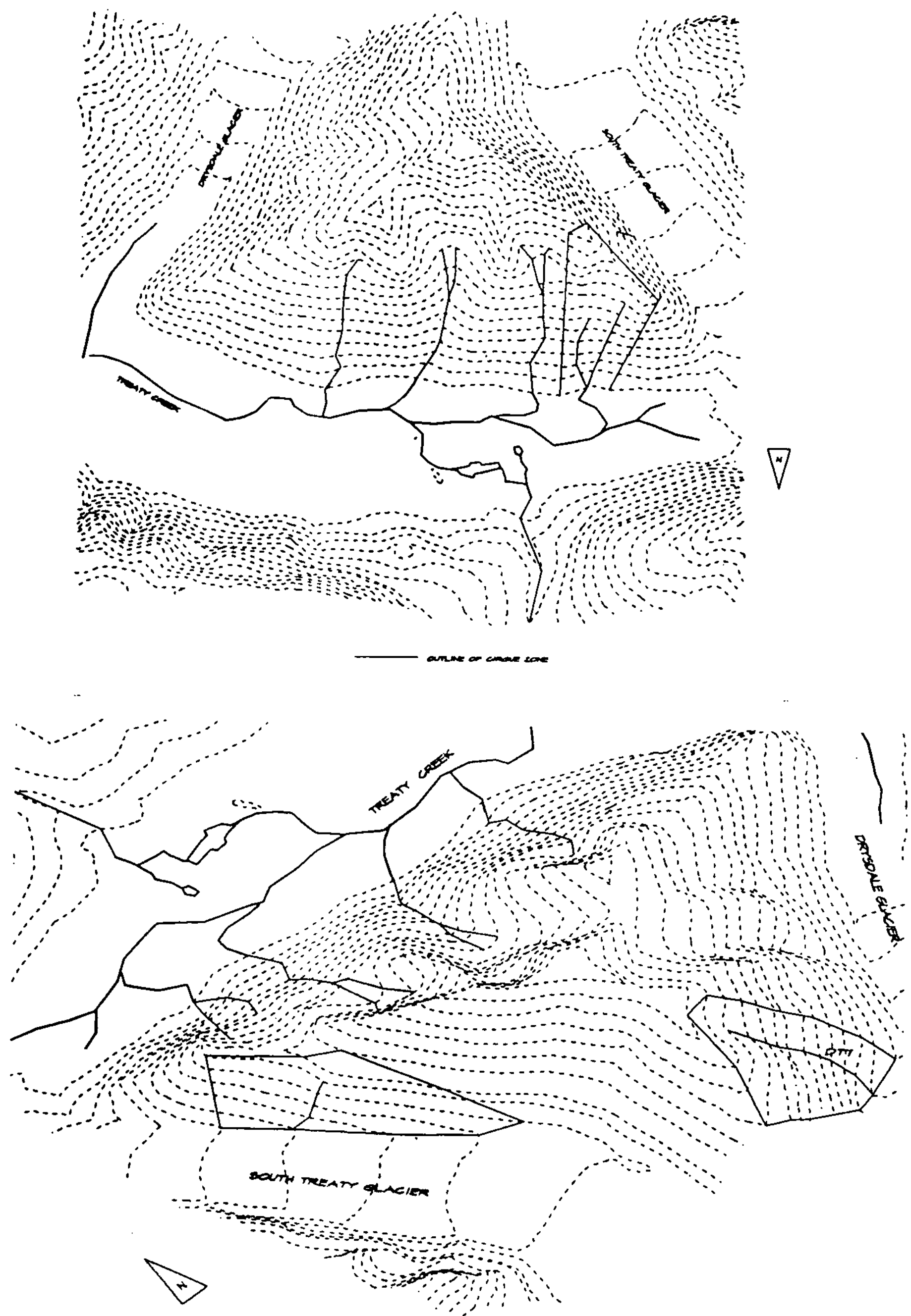
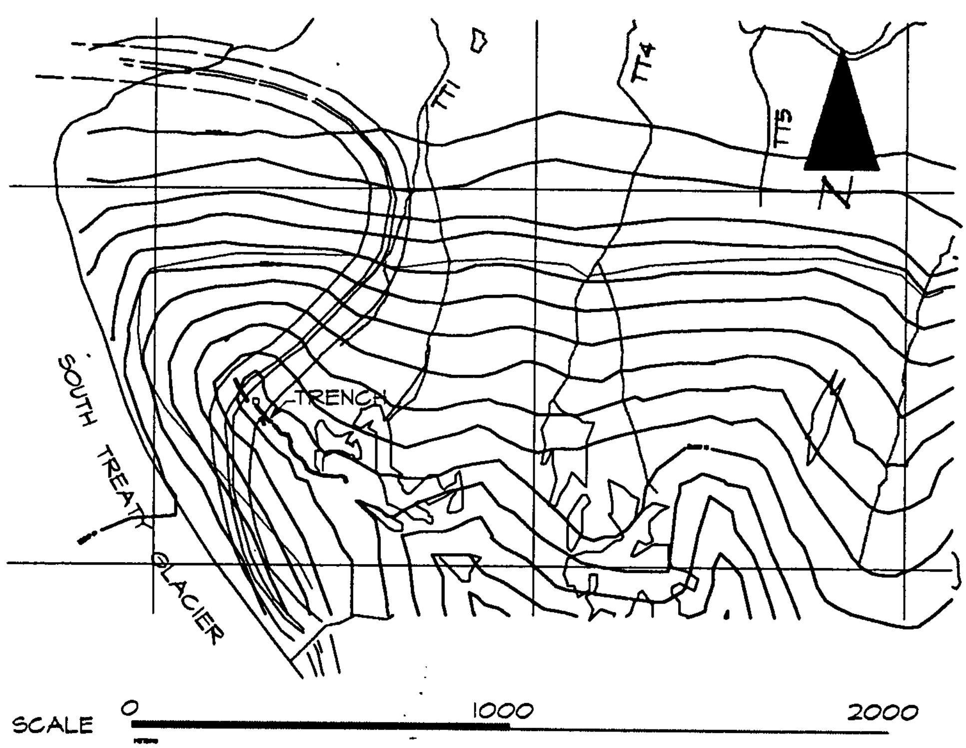


Figure 27 - Isometric Views of Treaty Creek with Zones of Interest Outlined

7.0 NOTES ON TRENCHING AND PROSPECTING

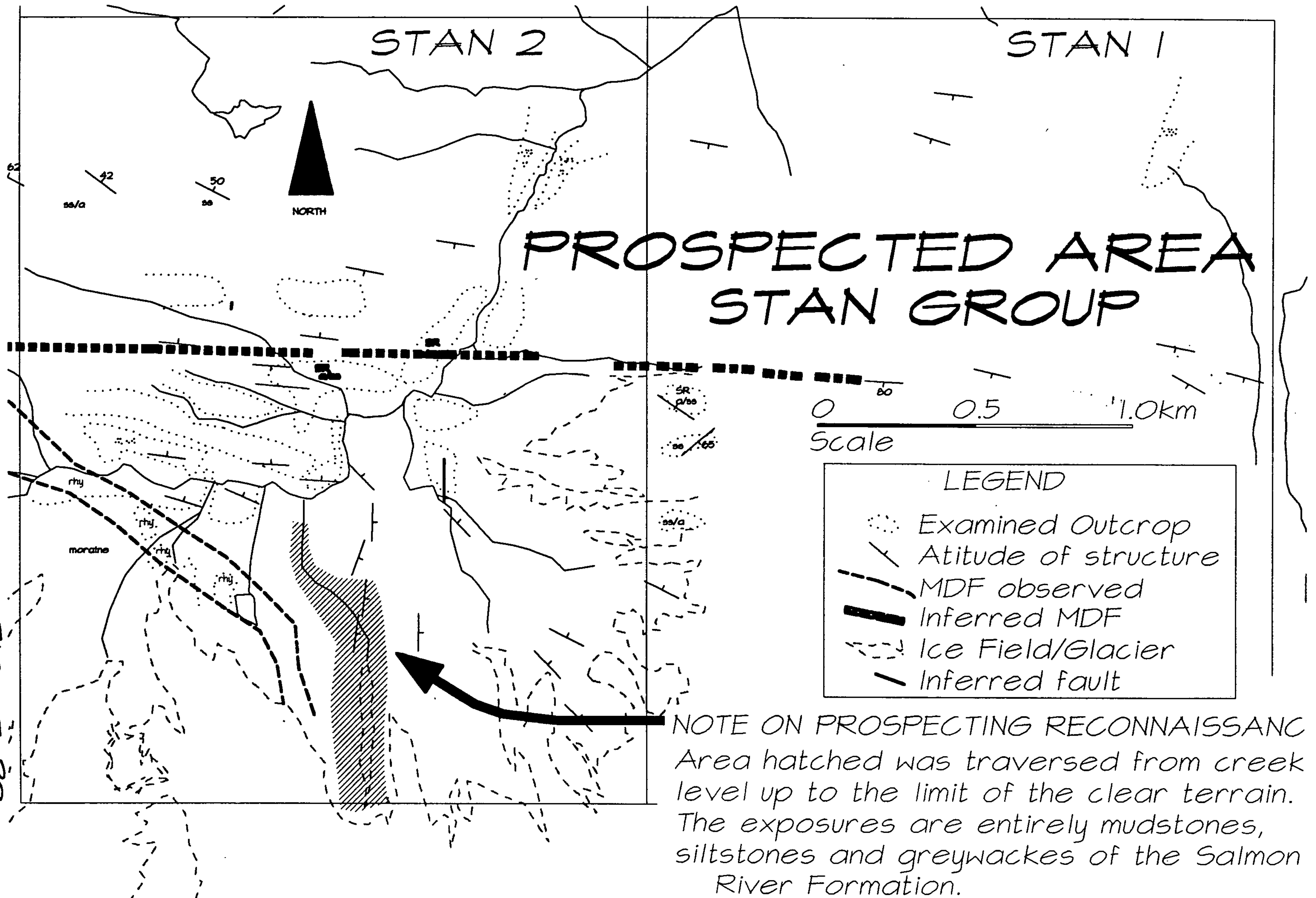
The thin, but relatively continuous, surface layer pf clay, mixed with weathered rock and some low alpine shrubs obscured much of the southwest upper edge of the South Treaty Ridge. Since the northeast crest of the cirque was very steep and very heavily leached, due to the fracturing and shearing, it was hoped that a fresher surface could be exposed on the gentler southwest edge. A nearly continuous set of very shallow trenches was dug along the ridge from close to the claim posts at the extreme west end, easterly along the ridge and up across the top of the cliff outcrop (Figure 28). The total length of the trench was about 500 feet (150m).

During the traverses carried out on the Stan 2 claim, a number of small trenches and pits were dug to check shears and several clusters of small quartz veins. They were uniformly small, less than 15 feet (5m) in length and a foot (30cm) or so deep. The prospecting work extended from close to the permanent snow down into the stream valley and consisted of traverses along the hillside at several elevations and periodically crossing the structure. The work was done almost entirely within the sediments of the Salmon River Formation, on the hanging wall of the dacitic volcanics band. These are mainly mudstone, siltstone and greywacke much the same as those exposed on South Treaty Ridge.



TRENCHING ON TREATY RIDGE

Figure 28 - Sketch Map of Trenching on South Treaty Ridge



NOTE ON PROSPECTING RECONNAISSANC

Area hatched was traversed from creek level up to the limit of the clear terrain. The exposures are entirely mudstones, siltstones and greywackes of the Salmon River Formation.

FIGURE 29.

35a

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APPENDICES

APPENDIX I

PLATES

1 View to southwest from a helicopter over Treaty Creek. The two prominent small creek valleys (a & b) are the two tributaries of TT1, that headwater in the cirque (c) that lies just below Treaty Ridge (d). The felsic volcanic bands (e) show at the right middle, curving to the west at the bottom of the mountain. This forms the boundary between the Betty Creek Fm.(f) on the right and the Salmon River Fm. on the left (g). The recent glacial activity has scoured the lower slopes and left a remnant of a kame terrace (h) in the middle left.

2 View from the lip of the cirque looking to the west-north-west across the lowest (a) of a series of natural trenches that occur up along the lip from here. Note the regional stratigraphy of the Salmon River Fm. (b) exposed on the hillside across the valley. The present toe of the two branches of the Treaty Glacier are in the valley directly in line with the orientation of the trench.

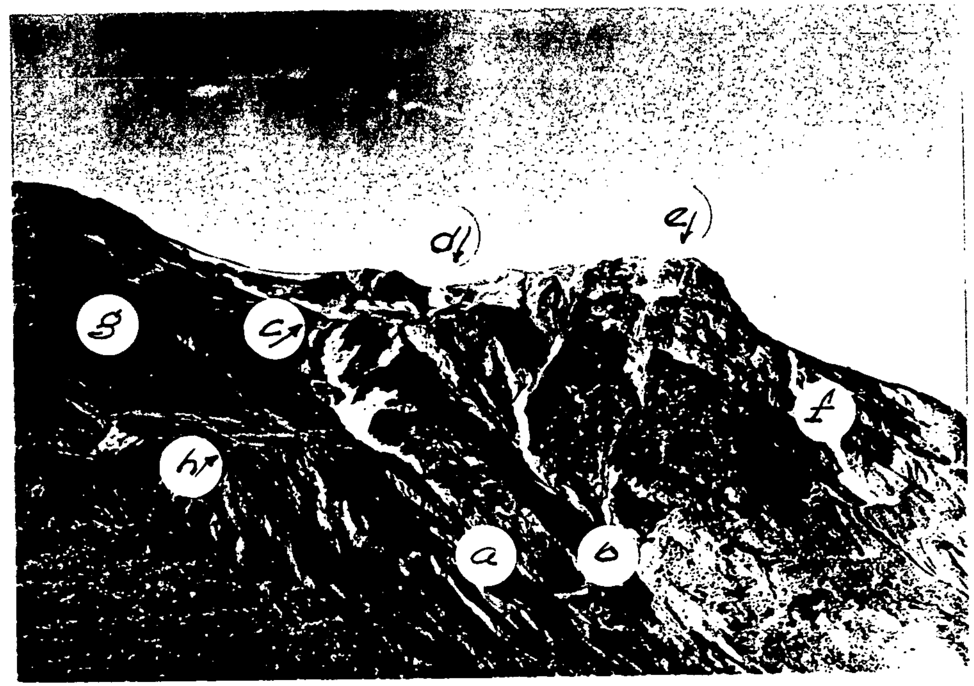
3 View from the edge of the kame terrace noted in Plate 1 looking to the north. Note the discordant stratigraphy in the Salmon River Fm (a) and the scoured valley floor.

4 View of cliffs on the southwest side of Treaty Ridge (a) and the north east side of the South Treaty Glacier (South Treaty Zone). Note the felsic volcanic bands and overlying Salmon River sediments (b).

5 View of lower part of the cliffs shown in Plate 4 showing the southern exposure of the felsic volcanic bands and the prominent white stain (a) that has precipitated from water coming down from the Salmon River sediments (b).

6 View from a helicopter of DT 6 and 7, two of the streams on the north side of the Drysdale Glacier that were sampled in 1991. Note the kame terrace (a) from the recent glacial recession. The 1991 sampling commenced at that point on each stream and continued to the ridge (b) above.

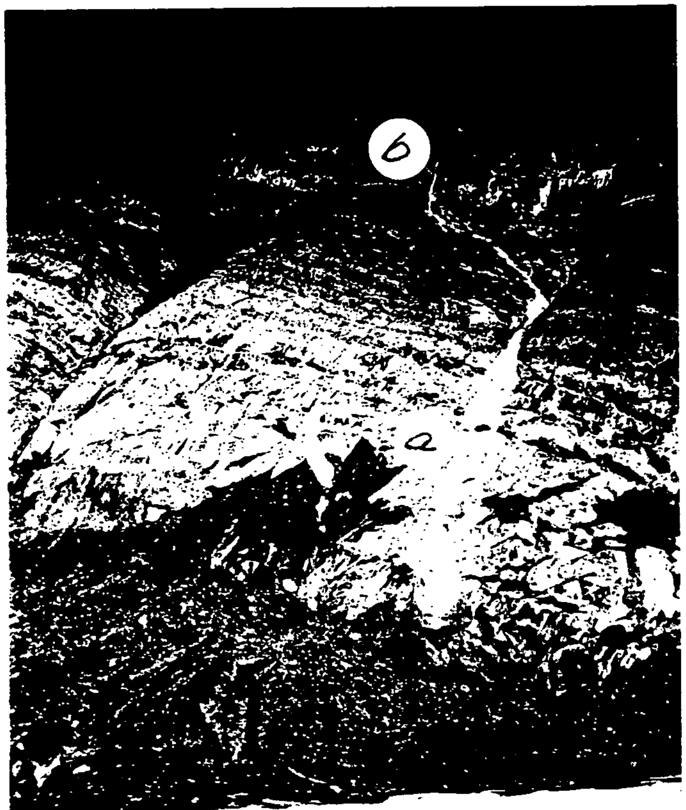
#1



#2

#3

#4



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APPENDIX II

LIST OF GEOCHEMICAL SAMPLES FROM TREATY AND STAN CLAIM GROUPS

GUIDE TO ABREVIATIONS

NO	Sample number from field
YR	Year of sampling
MAT	Material
SPR	Sampler's name
CL	Claim number
TOPO	Rough idea of topographic location or drainage
GEO	Underlying Geology
SR	Salmon River
BC	Betty Creek
D	Dilworth (?)
SR/D	Contact Zone - SR & D
FL	Float
RX	Rock Samples
SI	Silt Samples

NO	YR	MAT	SPR	CL	TOPO	GEO	AU	AG	CU	PB	ZN	SB	AS	HG	BA	BI	CO	FE	MO	SN
01	87	FL		S1	MTN	FL	75	2.9	25	44	174	1	51	4	1,200					
04	87	FL	G	S1	MTN	FL	625	3.3	440	92	710	2	5	5	500					
01	87	FL		S2	UT2	SR	15	4.9	24	250	240	12	38	6	1,600					
02	87	FL		S2	UT2	SR	15	6.1	22	132	390	26	41	5	1,200					
03	87	FL		S2	UT2	SR	30	2.1	47	40	142	19	426	4	5,100					
04	87	FL		S2	UT2	SR	35	16.3	41	880	590	62	52	17	2,700					
05	87	FL		S2	UT2	SR	25	0.9	176	45	240	4	25	2	1,700					
06	87	FL		S2	UT2	SR	20	0.5	7	41	189	3	16	3	3,700					
07	87	RX		S2	UT2	SR	20	0.7	12	49	340	2	5	4	500					
08	87	RX		S2	UT2	SR	25	0.3	18	31	112	0	7	2	800					
01	87	RX		S3	UT2	SR	25	0.7	54	28	400	1	45	2	1,200					
02	87	RX		S3	UT1	SR	20	1.9	67	63	450	1	21	3	2,000					
03	87	RX		S3			25	1.1	56	64	460	1	12	2	1,100					
01	87	RX		T2			10	0.7	60	22	91	1	13	2	1,000					
04	87	RX		T3	T3	TL	SR	0.3	17	15	93	1	14	1	400					
01	87	FL		T37	TL	SR	180	4.2	164	570	760	14	68	4	17,500					
01	87	RX		T4			0	0.4	8	17	95	0	6	1	300					
01	87	RX		T5	MTN	D	0	1.0	6	44	180	0	6	1	1,800					
02	87	RX		T5	MTN	D/BC	0	0.6	43	26	165	3	150	1	300					
03	87	RX		T5	MTN	D/BC	15	0.6	15	33	92	1	18	1	200					
04	87	RX		T5	MTN	D/BC	15	0.6	44	18	62	1	0	1	200					
08	87	RX		T5	TC	SR/D	40	0.6	9	55	97	16	21	4	5,000					
05	87	RX		T57	TT1	D	15	0.6	18	26	201	4	25	3	800					
06	87	RX		T57	TT1	SR/D	0	0.9	15	39	158	1	6	0	200					
07	87	RX		T57	TT1	SR/D	0	0.8	21	28	390	2	17	1	800					
01	87	RX		T6	TC	SR	15	0.7	63	25	169	1	10	2	1,700					
01	87	RX		T7	TLT6	SR	15	1.2	50	89	710	1	277	4	1,500					
02	87	RX		T7	MTN	D	10	0.7	49	41	320	1	105	3	1,700					
02	87	RX		T7	TLT6	SR	5	0.8	35	50	450	2	8	4	1,000					
05	87	RX		T7	TLT6	SR	5	0.5	23	27	139	0	5	3	500					
06	87	RX		T7	TLT6	SR	5	0.7	38	32	128	2	29	5	1,300					
08	87	RX		T7	TT4	SR/D	5	0.6	24	37	77	0	3	3	1,300					
09	87	RX		T7	TT4	SR/D	0	0.5	20	33	76	0	2	2	600					
10	87	RX		T7	TC	SR/D	0	0.5	23	25	129	1	9	1	1,000					
11	87	RX		T7	TC	SR	20	0.8	35	47	182	1	19	4	1,300					
05	87	SI		S1	MTN	SR	35	0.4	35	10	133	1		2	1,000					
06	87	SI		S1	MTN	SR	0	0.6	48	8	240	1		2	900					
07	87	SI		S1	MTN	SR	0	0.2	21	6	122	1		2	1,600					
01	87	SI		S2	UT2	SR/D	35	2.0	64	185	370	29		4	2,100					
02	87	SI		S2	UT2	SR/D	0	1.0	64	36	180	11		6	5,300					
03	87	SI		S2	UT2	SR/D	0	0.6	30	17	190	4		4	3,000					
01	87	SI		S3	UR	SR	0	0.6	25	13	200	2		2	1,700					
02	87	SI		S3	UT1	SR	0	0.4	24	6	134	1		2	1,600					
03	87	SI		S3	UT1	SR	0	0.3	21	6	107	1		2	1,700					
04	87	SI		S3	UT1	SR	0	0.4	31	7	137	1		2	1,000					
05	87	SI		S3	UR	SR	0	0.5	27	7	146	1		3	1,300					
06	87	SI		S3	UR	SR	0	0.5	19	4	176	1		1	700					
02	87	SI		S4	UR	SR	0	0.5	37	5	169	1		2	800					
03	87	SI		S4	UR	SR	5	0.6	49	6	206	1		1	900					
04	87	SI		S4	UT3	SR	5	0.6	45	8	196	1		2	900					
05	87	SI		S4	UR	SR	15	0.6	47	8	198	1		2	800					
01	87	SI		T2			5	0.6	23	7	91	1		3	1,300					

01	87	SI		T3			5	0.8	8	8	66	0		3	700
02	87	SI		T3			10	0.6	35	10	175	1		2	900
03	87	SI		T3			5	0.5	20	6	112	1		2	900
04	87	SI		T3			10	0.6	39	6	143	1		1	1,200
07	87	SI		T3			40	0.5	36	7	120	1		2	1,200
01	87	SI		T4	DT3	SR	870	0.9	44	6	146	2		1	1,000
02	87	SI		T4	DT4	SR	165	0.9	47	10	173	2		3	1,600
03	87	SI		T4	DC	SR	50	0.6	36	8	126	1		2	900
04	87	SI		T4	DT5	SR	25	0.7	23	7	80	1		1	900
05	87	SI		T4	DT6	SR	85	0.5	38	15	135	1		1	1,200
01	87	SI		T5	ST	SR/D	25	0.9	85	10	1,001	12		1	1,500
02	87	SI		T5	MTN	D/BC	25	0.4	37	8	160	2		2	1,300
03	87	SI		T5	MTN	D/BC	5	0.6	27	6	163	2		3	1,400
04	87	SI		T5	MTN	D/BC	10	0.4	25	6	130	2		1	1,000
05	87	SI		T5	TT1	SR/D	10	1.1	97	7	1,001	15		1	1,700
06	87	SI		T5	TC	SR/D	70	0.7	58	22	165	7		2	2,300
01	87	SI		T6	TC	SR	5	0.4	34	6	128	0		1	1,300
02	87	SI		T6	TC	SR	15	0.8	37	9	129	1		2	2,100
03	87	SI		T6	TT9	SR	5	0.3	33	8	120	1		1	1,300
04	87	SI		T6	TT9	SR	5	0.3	33	8	122	1		1	2,300
05	87	SI		T6	TC	SR	5	0.3	38	8	139	1		2	1,700
06	87	SI		T6	TC	SR	0	0.2	35	9	130	1		2	1,000
03	87	SI		T7	TL6	SR	0	0.4	39	6	144	1		2	1,400
04	87	SI		T7	TT4	SR	1,001	3.8	39	11	130				
05	87	SI		T7	TT4	SR	65	0.3	35	35	128	4		2	1,400
06	87	SI		T76	TT7	SR	30	0.5	41	9	112	1		1	1,500
56	88	FL	DL	T7	TC	D/BC	1,001	8.9	185	1,001	1,001	91	158	1	0
66	88	FL	DL	T7	TC	D/BC	30	0.1	44	33	84	3	15	0	2,700
67	88	FL	DL	T7	TC	D/BC	15	0.1	49	77	85	3	4	1	600
68	88	FL	DL	T7	TC	D/BC	1,001	13.7	567	1,001	1,001	35	480	4	200
72	88	FL	DL	T7	TC	D/BC	570	0.8	100	52	146	4	147	1	3,700
73	88	FL	DL	T7	TC	D/BC	1,001	6.5	14	30	110	2	14	0	3,400
74	88	FL	DL	T7	TC	D/BC	1,001	6.5	26	88	38	4	540	0	300
08	88	RX	KK	S1	MTN	SR	10	0.0	9	9	35	0	3	0	300
09	88	RX	KK	S1	MTN	SR	5	0.1	18	17	66	1	17	0	500
23	88	RX	KK	S1	MTN	SR	5	0.1	10	5	8	0	4	0	100
24	88	RX	KK	S1	MTN	SR	20	0.4	44	20	75	1	19	1	900
11	88	RX	KK	S2	MTN	SR	25	0.1	24	20	49	1	9	0	800
12	88	RX	KK	S2	MTN	SR	25	0.0	14	12	44	0	4	0	2,200
13	88	RX	KK	S2	MTN	SR	5	0.0	9	26	22	0	3	0	0
14	88	RX	KK	S2	MTN	SR	15	0.0	6	12	25	0	2	0	200
15	88	RX	KK	S2	MTN	SR	20	0.0	3	7	30	0	3	0	100
16	88	RX	KK	S2	MTN	SR	5	0.0	8	9	34	0	3	0	300
17	88	RX	KK	S2	MTN	SR	20	0.2	47	19	115	1	19	1	1,000
18	88	RX	KK	S2	MTN	SR	15	0.1	23	19	92	1	12	0	500
19	88	RX	KK	S2	MTN	SR	10	0.0	8	11	36	0	13	0	200
20	88	RX	KK	S2	MTN	SR	10	0.1	7	11	32	0	2	0	200
22	88	RX	KK	S2	MTN	SR	10	0.0	6	13	37	0	4	0	300
10	88	RX	KK	S3	MTN	SR	15	0.5	30	32	43	3	28	1	900
21	88	RX	KK	S4	MTN	SR	15	0.1	10	8	66	0	6	0	200
01	88	RX	KK	T4	MTN	SR	5	0.1	9	10	95	0	28	0	1,000
02	88	RX	KK	T4	MTN	SR	15	0.3	48	19	121	1	14	1	1,300
03	88	RX	KK	T4	MTN	SR	15	0.4	47	20	113	1	12	1	1,200
04	88	RX	KK	T4	MTN	SR	20	0.3	36	19	59	1	15	1	900

05	88	RX	KK	T4	MTN	SR	15	0.1	7	11	40	0	4	0	900
06	88	RX	KK	T4	MTN	SR	5	0.0	6	16	49	0	17	0	700
07	88	RX	KK	T4	MTN	SR	15	0.4	42	20	73	1	20	2	1,600
112	88	RX	DL	T7	TC	D/BC	40	1.0	42	63	98	6	49	1	1,800
117	88	RX	DL	T7	TC	D/BC	20	0.3	82	19	132	1	18	1	1,000
130	88	SI	AH					0.2	50	27	206	2	15	0	1,300
10.0	88	SI	DJ	S1	UT1	SR	15	0.2	35	18	171	1	16	1	1,700
06	88	SI	DJ	S1	UT1	SR	10	0.7	35	19	190	1	19	1	2,600
07	88	SI	DJ	S1	UT1	SR	5	0.2	40	20	183	1	18	1	3,000
08	88	SI	DJ	S1	UT1	SR	0	0.3	39	17	180	1	20	1	2,700
09	88	SI	DJ	S1	UT1	SR	5	0.2	38	19	172	1	19	1	2,000
104	88	SI	AH	S1	UT2	SR	40	0.1	32	21	163	3	18	1	1,900
105	88	SI	AH	S1	UT2	SR	60	0.0	31	21	183	2	20	1	1,700
106	88	SI	AH	S1	UT2	SR	5	0.0	33	21	171	3	25	1	2,100
107	88	SI	AH	S1	UT2	SR	30	0.0	36	21	179	2	26	1	3,000
108	88	SI	AH	S1	UT2	SR	15	0.0	37	23	179	3	27	1	3,300
11	88	SI	DJ	S1	UT1	SR	0	0.3	38	19	188	1	19	1	1,200
12	88	SI	DJ	S1	UT1	SR	0	0.3	47	19	242	1	16	1	17,200
13	88	SI	DJ	S1	UT1	SR	25	0.2	48	22	240	1	18	2	2,400
14	88	SI	DJ	S1	UT1	SR	20	0.3	39	19	205	1	19	1	3,400
15	88	SI	DJ	S1	UT1	SR	20	0.3	41	19	186	1	16	2	2,500
16	88	SI	DJ	S1	UT1	SR	45	0.3	37	19	184	1	18	1	4,500
17	88	SI	DJ	S1	UT1	SR	10	0.2	41	19	188	1	18	1	1,900
18	88	SI	DJ	S1	UT1	SR	20	0.2	36	19	185	1	20	1	4,100
19	88	SI	DJ	S1	UT1	SR	5	0.4	93	20	243	2	22	1	1,300
20	88	SI	DJ	S1	UT1	SR	35	0.3	37	19	206	3	18	1	1,500
21	88	SI	DJ	S1	UT1	SR	645	0.5	37	18	189	1	17	1	2,000
22	88	SI	DJ	S1	UT1	SR	5	0.3	36	19	187	1	17	1	2,700
100	88	SI	AH	S2	UT2	SR/D	980	0.2	32	20	171	3	23	1	3,200
101	88	SI	AH	S2	UT2	SR/D	15	0.1	37	18	162	1	11	0	1,100
102	88	SI	AH	S2	UT2	SR/D	20	0.3	44	19	177	1	17	0	900
103	88	SI	AH	S2	UT2	SR/D	30	0.0	30	21	154	3	44	1	2,000
93	88	SI	AH	S2	UT2	SR/D	35	0.3	30	20	161	3	33	1	4,300
94	88	SI	AH	S2	UT2	SR/D	10	0.2	33	22	157	3	33	1	2,300
95	88	SI	AH	S2	UT2	SR/D	65	0.2	33	21	171	4	28	1	3,400
96	88	SI	AH	S2	UT2	SR/D	35	0.2	30	19	150	3	23	1	2,700
97	88	SI	AH	S2	UT2	SR/D	140	0.2	34	21	172	3	29	0	2,600
98	88	SI	AH	S2	UT2	SR/D	15	0.2	34	21	161	4	29	1	3,500
99	88	SI	AH	S2	UT2	SR/D	25	0.1	30	16	120	1	11	0	1,000
01	88	SI	DJ	S3	UT1	SR	10	0.5	30	19	116	1	20	1	1,500
02	88	SI	DJ	S3	UT1	SR	5	0.4	38	19	240	1	20	1	2,900
03	88	SI	DJ	S3	UT1	SR	0	0.4	44	19	203	1	19	1	1,700
04	88	SI	DJ	S3	UT1	SR	5	0.4	38	19	174	1	17	1	2,300
05	88	SI	DJ	S3	UT1	SR	5	0.3	40	19	282	1	19	1	2,500
60	88	SI	AH	S3	UT2	SR/D	10	0.6	31	21	164	2	26	1	2,500
61	88	SI	AH	S3	UT2	SR/D	10	0.2	30	19	170	2	27	1	2,000
62	88	SI	AH	S3	UT2	SR/D	30	0.3	32	26	186	3	29	1	3,000
63	88	SI	AH	S3	UT2	SR/D	15	0.3	33	24	161	3	35	1	3,200
64	88	SI	AH	S3	UT2	SR/D	5	0.3	34	26	178	3	38	5	3,300
65	88	SI	AH	S3	UT2	SR/D	15	0.3	27	21	172	2	26	1	2,100
66	88	SI	AH	S3	UT2	SR/D	5	0.7	33	22	170	3	27	1	1,800
67	88	SI	AH	S3	UT2	SR/D	10	0.6	28	20	163	2	26	1	2,100
68	88	SI	AH	S3	UT2	SR/D	10	0.4	28	20	161	2	27	1	2,000
69	88	SI	AH	S3	UT2	SR/D	10	0.3	32	20	168	2	29	1	1,700

70	88	SI	AH	S3	UT2	SR/D	5	0.7	30	21	169	2	23	1	1,700
71	88	SI	AH	S3	UT2	SR/D	5	0.5	36	23	168	3	28	1	4,700
72	88	SI	AH	S3	UT2	SR/D	10	0.3	33	22	181	2	24	2	2,300
73	88	SI	AH	S3	UT2	SR/D	10	0.3	29	22	173	3	26	1	2,100
74	88	SI	AH	S3	UT2	SR/D	15	0.5	28	21	169	2	20	0	1,700
75	88	SI	AH	S3	UT2	SR/D	10	0.6	30	20	166	2	18	1	1,300
76	88	SI	AH	S3	UT2	SR/D	10	0.3	33	21	166	2	36	1	1,800
77	88	SI	AH	S3	UT2	SR/D	20	0.4	30	20	169	2	20	0	1,500
78	88	SI	AH	S3	UT2	SR/D	10	0.5	30	20	176	3	26	1	2,000
79	88	SI	AH	S3	UT2	SR/D	80	0.2	32	19	162	2	22	1	3,000
80	88	SI	AH	S3	UT2	SR/D	115	0.2	31	22	166	3	31	13	4,000
81	88	SI	AH	S3	UT2	SR/D	130	0.3	29	20	158	3	24	1	2,600
82	88	SI	AH	S3	UT2	SR/D	290	0.4	31	21	169	3	31	1	2,500
83	88	SI	AH	S3	UT2	SR/D	240	0.3	29	19	159	3	25	1	2,500
84	88	SI	AH	S3	UT2	SR/D	100	0.4	29	23	166	3	30	1	2,500
85	88	SI	AH	S3	UT2	SR/D	50	0.2	29	20	173	3	28	1	3,000
86	88	SI	AH	S3	UT2	SR/D	55	0.2	30	17	158	1	13	0	900
87	88	SI	AH	S3	UT2	SR/D	85	0.3	33	21	209	3	39	1	3,400
88	88	SI	AH	S3	UT2	SR/D	55	0.3	24	18	153	1	13	0	900
89	88	SI	AH	S3	UT2	SR/D	140	0.1	25	19	156	3	20	1	2,400
90	88	SI	AH	S3	UT2	SR/D	110	0.2	31	21	168	3	27	1	2,800
91	88	SI	AH	S3	UT2	SR/D	50	0.2	30	19	151	3	24	0	3,000
92	88	SI	AH	S3	UT2	SR/D	90	0.3	32	21	173	3	26	1	3,800
01	88	SI	AJ	T4	DT3	SR	10	0.2	55	20	192	1	15	0	1,100
02	88	SI	AJ	T4	DT3	SR	15	0.2	51	21	187	1	14	0	1,100
03	88	SI	AJ	T4	DT3	SR	15	0.2	59	21	240	1	17	1	1,100
04	88	SI	AJ	T4	DT3	SR	15	0.4	58	21	204	1	15	0	1,100
05	88	SI	AJ	T4	DT3	SR	0	0.3	60	20	202	1	17	0	1,000
06	88	SI	AJ	T4	DT3	SR	20	0.5	53	20	190	2	14	0	1,000
07	88	SI	AJ	T4	DT3	SR	5	0.4	64	21	281	1	19	0	1,000
08	88	SI	AJ	T4	DT3	SR	0	0.3	83	23	293	2	25	1	1,200
09	88	SI	AJ	T4	DT3	SR	5	0.4	81	23	280	2	24	1	1,100
10	88	SI	AJ	T4	DT3	SR	0	0.4	85	24	302	2	27	1	1,100
100	88	SI	DL	T4	DT6	SR	20	0.6	43	21	157	2	12	0	1,300
101	88	SI	DL	T4	DT6	SR	15	0.5	39	20	155	2	12	0	1,200
102	88	SI	DL	T4	DT6	SR	10	0.3	39	21	163	2	11	0	1,300
103	88	SI	DL	T4	DT6	SR	20	0.2	41	21	162	2	14	0	1,300
104	88	SI	DL	T4	DT6	SR	25	0.8	42	21	166	2	11	0	1,300
105	88	SI	DL	T4	DT6	SR	20	0.3	42	20	171	2	12	0	1,300
106	88	SI	DL	T4	DT6	SR	25	0.2	39	20	158	2	17	0	1,300
107	88	SI	DL	T4	DT6	SR	15	0.2	43	20	174	2	13	0	1,300
108	88	SI	DL	T4	DT6	SR	25	0.4	43	21	180	2	13	0	1,300
109	88	SI	AH	T4	DT5	SR	180	0.0	33	17	135	1	12	0	1,000
109	88	SI	DL	T4	DT6	SR	15	0.3	42	21	179	2	15	0	1,300
11	88	SI	AJ	T4	DT3	SR	30	0.4	77	24	270	2	22	1	1,100
110	88	SI	DL	T4	DT6	SR	15	0.3	47	22	185	2	17	0	1,300
110	88	SI	AH	T4	DT5	SR	45	0.0	34	18	137	1	12	0	1,100
111	88	SI	AH	T4	DT5	SR	20	0.2	30	21	116	1	11	1	900
111	88	SI	DL	T4	DT6	SR	15	0.2	48	21	182	2	15	0	1,300
112	88	SI	AH	T4	DT5	SR	280	0.0	26	16	106	1	11	0	1,100
113	88	SI	DL	T4	DT4	SR	20	0.3	49	19	176	1	17	0	1,200
113	88	SI	AH	T4	DT5	SR	25	0.0	26	17	105	1	12	1	1,500
114	88	SI	AH	T4	DT5	SR	250	0.5	27	17	101	1	11	0	1,000
114	88	SI	DL	T4	DT4	SR	29	0.3	51	29	184	2	17	0	1,300

115	88	SI	DL	T4	DT4	SR	20	0.2	47	19	178	2	13	0	1,200
115	88	SI	AH	T4	DT5	SR	30	0.0	26	15	93	1	9	0	1,100
116	88	SI	DL	T4	DT4	SR	30	0.2	40	19	135	2	13	0	1,200
116	88	SI	AH	T4	DT5	SR	0	0.0	26	18	103	1	11	0	1,100
117	88	SI	AH	T4	DT5	SR	0	0.0	28	18	102	1	11	0	1,100
118	88	SI	AH	T4	DT5	SR	0	0.0	30	15	102	1	10	0	1,000
118	88	SI	DL	T4	DT4	SR	50	0.2	47	20	165	2	12	0	1,100
119	88	SI	AH	T4	DT5	SR	50	0.2	26	16	93	1	13	0	1,100
119	88	SI	DL	T4	DT4	SR	25	0.2	38	20	128	1	18	0	1,200
12	88	SI	AJ	T4	DT3	SR	10	0.4	78	25	271	2	25	1	1,100
120	88	SI	AH	T4	DT5	SR	0	0.1	25	16	99	1	10	0	1,000
120	88	SI	DL	T4	DT4	SR	15	0.1	45	21	156	1	12	0	1,200
121	88	SI	DL	T4	DT4	SR	40	0.1	56	18	148	1	13	0	1,100
121	88	SI	AH	T4	DT5	SR	0	0.2	34	20	124	1	11	0	1,000
122	88	SI	AH	T4	DT5	SR	5	0.4	43	25	173	2	16	0	1,300
122	88	SI	DL	T4	DT4	SR	5	0.1	51	19	180	2	17	0	1,100
123	88	SI	DL	T4	DT4	SR	15	0.1	38	19	139	1	13	0	1,200
123	88	SI	AH	T4	DT5	SR	20	0.4	46	26	191	2	15	0	1,300
124	88	SI	AH	T4	DT5	SR	0	0.7	45	24	208	2	15	0	1,300
124	88	SI	DL	T4	DT2	SR	30	0.1	40	16	146	1	15	0	900
125	88	SI	AH	T4	DT5	SR	10	0.5	48	24	184	2	15	0	1,300
125	88	SI	DL	T4	DT2	SR	30	0.2	41	16	138	1	12	0	900
126	88	SI	AH	T4	DT5	SR	5	0.5	47	27	196	2	17	0	1,300
126	88	SI	DL	T4	DT2	SR	10	0.1	41	16	139	1	12	0	900
127	88	SI	DL	T4	DT2	SR	45	0.2	42	17	147	1	13	0	900
127	88	SI	AH	T4	DT5	SR	10	0.6	48	28	199	2	15	0	1,400
128	88	SI	AH	T4	DT5	SR	0	0.5	48	26	193	2	15	0	1,500
128	88	SI	DL	T4	DT2	SR	15	0.2	41	16	144	1	12	0	800
129	88	SI	AH	T4	DT5	SR	0	0.6	49	32	200	2	17	0	1,400
129	88	SI	DL	T4	DT2	SR	20	0.3	50	20	188	1	14	0	900
130	88	SI	DL	T4	DT1	SR	15	0.5	86	30	360	2	13	0	1,100
131	88	SI	DL	T4	DT1	SR	10	0.2	88	32	352	2	21	0	1,100
132	88	SI	DL	T4	DT1	SR	20	0.3	94	33	421	3	22	0	1,100
133	88	SI	DL	T4	DT1	SR	35	0.6	97	32	403	2	23	1	1,200
134	88	SI	DL	T4	DT1	SR	15	0.3	95	32	341	2	19	0	1,100
92	88	SI	DL	T4	DT6	SR	20	0.1	30	14	116	1	7	0	900
93	88	SI	DL	T4	DT6	SR	10	0.1	29	15	111	1	8	0	1,000
94	88	SI	DL	T4	DT6	SR	10	0.1	29	15	108	1	9	0	1,000
95	88	SI	DL	T4	DT6	SR	5	0.1	34	15	109	1	9	0	800
96	88	SI	DL	T4	DT6	SR	10	0.1	29	15	117	1	10	0	900
97	88	SI	DL	T4	DT6	SR	20	0.1	30	16	109	1	10	0	900
98	88	SI	DL	T4	DT6	SR	20	0.1	31	16	121	1	7	0	1,000
99	88	SI	DL	T4	DT6	SR	20	0.1	34	16	108	0	10	0	900
34	88	SI	AH	T6	TC	SR	120	0.5	49	34	198	7	62	0	2,200
35	88	SI	AH	T6	TC	SR	240	0.7	73	55	240	10	119	0	3,100
36	88	SI	AH	T6	TC	SR	120	0.6	46	30	173	5	47	1	1,700
37	88	SI	AH	T6	TC	SR	365	0.7	65	51	169	9	97	0	2,500
38	88	SI	AH	T6	TC	SR	240	1.0	60	43	190	9	90	0	2,600
39	88	SI	AH	T6	TC	SR	550	0.6	54	39	193	9	86	0	2,300
40	88	SI	AH	T6	TC	SR	315	12.4	61	46	206	8	102	0	2,400
01	88	SI	AH	T7	TT2	SR/D	140	0.4	40	38	167	4	74	0	2,100
01	88	SI	JP	T7	TT5	SR	40	0.3	41	19	200	1	20	1	3,400
02	88	SI	AH	T7	TT2	SR/D	65	0.2	23	22	86	2	37	0	1,300
02	88	SI	JP	T7	TT5	SR	10	0.3	41	18	202	1	17	1	1,400

03	88	SI	AH	T7	TT2	SR/D	70	0.4	30	48	120	4	54	0	1,900
03	88	SI	JP	T7	TT5	SR	5	0.1	35	18	241	2	16	1	1,200
04	88	SI	AH	T7	TT2	SR/D	50	0.3	28	28	109	3	50	0	2,300
04	88	SI	JP	T7	TT5	SR	15	0.2	41	20	243	2	14	1	1,200
05	88	SI	AH	T7	TT2	SR/D	35	0.3	24	23	96	3	39	0	1,600
05	88	SI	JP	T7	TT5	SR	20	0.5	36	24	262	2	14	1	1,300
06	88	SI	JP	T7	TT5	SR	20	0.3	41	22	208	2	18	1	1,400
06	88	SI	AH	T7	TT2	SR/D	30	0.2	25	21	93	3	38	0	1,600
07	88	SI	JP	T7	TT5	SR	15	0.3	36	12	197	2	15	1	1,400
07	88	SI	AH	T7	TT2	SR/D	30	0.3	24	22	81	3	32	0	1,500
08	88	SI	JP	T7	TT5	SR	5	0.3	35	20	201	3	16	0	1,300
08	88	SI	AH	T7	TT2	SR/D	30	0.2	23	26	79	2	31	0	1,700
09	88	SI	JP	T7	TT5	SR	5	0.3	31	18	189	2	15	1	1,500
09	88	SI	AH	T7	TT2	SR/D	35	0.3	23	25	89	3	33	0	1,900
10	88	SI	AH	T7	TT2	SR/D	30	0.2	24	25	76	2	32	0	1,700
10	88	SI	JP	T7	TT5	SR	5	0.3	32	18	202	1	18	0	1,700
11	88	SI	JP	T7	TT5	SR	15	0.3	31	19	199	2	17	1	1,600
11	88	SI	AH	T7	TT2	SR/D	35	0.2	20	22	82	3	34	0	1,800
12	88	SI	JP	T7	TT5	SR	35	0.5	34	18	195	2	14	1	1,200
12	88	SI	AH	T7	TT2	SR/D	25	0.3	25	41	82	3	37	0	1,800
13	88	SI	JP	T7	TT5	SR	40	0.8	34	19	208	3	15	1	1,300
13	88	SI	AH	T7	TT2	SR/D	30	0.3	22	24	84	3	35	0	1,700
135	88	SI	DL	T7	TT4	SR/D	5	0.2	37	21	184	1	21	0	1,100
136	88	SI	DL	T7	TT4	SR/D	10	0.2	36	21	166	2	24	0	1,100
137	88	SI	DL	T7	TT4	SR/D	10	0.1	37	24	177	2	25	0	1,300
138	88	SI	DL	T7	TT4	SR/D	10	0.2	38	21	171	2	22	0	1,300
139	88	SI	DL	T7	TT4	SR/D	40	0.1	36	22	165	2	24	0	1,200
14	88	SI	AH	T7	TT2	SR/D	30	0.2	22	21	74	3	33	0	1,400
14	88	SI	JP	T7	TT5	SR	5	0.3	35	17	206	3	17	1	1,100
140	88	SI	DL	T7	TT4	SR/D	15	0.3	35	29	178	2	27	0	1,100
141	88	SI	DL	T7	TT4	SR/D	15	0.8	35	21	165	2	26	0	1,200
142	88	SI	DL	T7	TT4	SR/D	20	0.2	38	21	153	2	22	0	1,400
143	88	SI	DL	T7	TT4	SR/D	5	0.4	36	25	161	2	22	0	1,300
144	88	SI	DL	T7	TT4	SR/D	15	0.3	37	20	154	2	20	0	1,300
145	88	SI	DL	T7	TT4	SR/D	15	0.1	36	19	152	2	19	1	1,300
146	88	SI	DL	T7	TT4	SR/D	0	0.2	39	27	163	2	21	1	1,100
147	88	SI	DL	T7	TT4	SR/D	10	0.1	38	20	161	2	21	1	1,200
148	88	SI	DL	T7	TT4	SR/D	20	0.1	45	22	161	2	23	1	1,100
149	88	SI	DL	T7	TT4	SR/D	15	0.4	39	21	147	2	22	1	1,200
15	88	SI	AH	T7	TT2	SR/D	35	0.3	23	25	74		38		
15	88	SI	JP	T7	TT5	SR	5	0.4	33	18	192	2	17	1	1,100
150	88	SI	DL	T7	TT4	SR/D	20	0.1	39	19	149	2	21	1	1,200
151	88	SI	DL	T7	TT4	SR/D	25	0.2	38	21	152	2	22	0	1,100
152	88	SI	DL	T7	TT4	SR/D	20	0.1	37	26	139	2	22	0	1,200
153	88	SI	DL	T7	TT4	SR/D	55	0.1	39	23	152	2	26	0	1,200
154	88	SI	DL	T7	TT4	SR/D	0	0.1	39	22	147	2	28	0	1,200
155	88	SI	DL	T7	TT4	SR/D	10	0.1	38	21	145	2	21	1	1,300
156	88	SI	DL	T7	TT4	SR/D	10	0.1	40	23	144	2	18	1	1,200
157	88	SI	DL	T7	TT4	SR/D	5	0.1	41	23	159	2	20	1	1,200
158	88	SI	DL	T7	TT4	SR/D	15	0.1	40	20	140	2	22	1	1,100
159	88	SI	DL	T7	TT4	SR/D	10	0.2	42	20	150	2	23	1	1,100
16	88	SI	AH	T7	TT2	SR/D	140	0.5	33	26	84		58		
16	88	SI	JP	T7	TT5	SR	40	0.2	36	19	185	2	17	1	1,200
160	88	SI	DL	T7	TT4	SR/D	15	0.1	40	21	138	2	22	1	1,100

161	88	SI	DL	T7	TT4	SR/D	10	0.2	39	23	143	2	22	0	1,100
162	88	SI	DL	T7	TT4	SR/D	10	0.2	40	23	151	2	26	0	1,200
163	88	SI	DL	T7	TT4	SR/D	5	0.2	40	20	140	2	23	1	1,300
164	88	SI	DL	T7	TT4	SR/D	0	0.1	40	23	154	2	23	1	1,200
165	88	SI	DL	T7	TT4	SR/D	0	0.2	39	20	143	2	22	0	1,100
166	88	SI	DL	T7	TT4	SR/D	0	0.2	38	20	139	2	23	1	1,100
167	88	SI	DL	T7	TT4	SR/D	5	0.2	39	20	141	2	21	0	1,100
168	88	SI	DL	T7	TT4	SR/D	5	0.2	38	20	142	2	23	0	1,400
169	88	SI	DL	T7	TT4	SR/D	0	0.1	41	20	142	1	26	0	1,600
17	88	SI	AH	T7	TT2	SR/D	55	0.7	26	101	78	3	45	0	1,900
17	88	SI	JP	T7	TT5	SR	10	0.1	36	18	230	2	22	1	1,100
170	88	SI	DL	T7	TT4	SR/D	0	0.1	39	22	127	2	22	0	1,500
171	88	SI	DL	T7	TT4	SR/D	0	0.1	42	23	136	2	17	0	1,500
172	88	SI	DL	T7	TT4	SR/D	10	0.5	44	27	143	1	17	1	1,500
18	88	SI	AH	T7	TT2	SR/D	60	0.4	30	26	87	4	59	0	2,000
19	88	SI	AH	T7	TT2	SR/D	40	0.3	29	24	123	4	39	0	2,100
20	88	SI	AH	T7	TT2	SR/D	55	0.3	21	24	111	3	42	0	2,100
21	88	SI	AH	T7	TT2	SR/D	510	0.4	25	44	84	3	36	0	2,000
22	88	SI	AH	T7	TT2	SR/D	30	0.3	23	19	80	3	31	0	1,900
23	88	SI	AH	T7	TT2	SR/D	40	0.2	25	40	33	3	43	0	2,600
24	88	SI	AH	T7	TT2	SR/D	70	0.5	22	20	80	3	32	0	2,200
25	88	SI	AH	T7	TC	SR/D	1,001	0.7	77	62	272	10	193	2	3,100
26	88	SI	AH	T7	TC	SR/D	1,001	1.4	55	61	250	10	123	1	3,100
27	88	SI	AH	T7	TT6	SR	690	0.7	62	58	205	9	179	0	1,900
28	88	SI	AH	T7	TT6	SR	435	1.0	74	83	196	9	183	0	2,900
29	88	SI	AH	T7	TT6	SR	1,001	0.6	54	43	253	7	107	0	2,600
30	88	SI	AH	T7	TT6	SR	25	0.3	25	21	96	2	21	0	1,500
31	88	SI	AH	T7	TT6	SR	25	0.2	28	21	93	2	22	0	1,700
32	88	SI	AH	T7	TT6	SR	50	0.4	31	22	106	2	19	0	1,600
33	88	SI	AH	T7	TT6	SR	35	0.4	34	20	87	1	25	0	1,400
40	88	SI	DL	T7	TC	SR/D	400	0.7	69	55	204	10	197	1	2,400
41	88	SI	AH	T7	TL6	SR	50	0.3	32	22	132	2	26	0	1,400
41	88	SI	DL	T7	TC	SR/D	440	1.2	77	45	241	10	115	1	2,600
42	88	SI	DL	T7	TC	SR/D	680	0.9	57	43	170	7	91	1	2,600
42	88	SI	AH	T7	TL6	SR	30	0.3	23	18	102	2	17	0	1,400
43	88	SI	AH	T7	TL6	SR	25	0.2	26	18	108	2	22	0	1,400
43	88	SI	DL	T7	TT3	SR	50	0.7	35	21	124	2	35	0	1,600
44	88	SI	AH	T7	TL6	SR	310	0.2	25	18	106		31		
44	88	SI	DL	T7	TT3	SR	65	0.7	40	19	110	7	33	0	1,600
45	88	SI	DL	T7	TT3	SR	0	0.6	34	17	112	2	26	0	1,600
45	88	SI	AH	T7	TL6	SR	30	0.3	28	19	105	2	27	0	1,500
46	88	SI	DL	T7	TT3	SR	30	0.6	28	19	107	2	36	0	1,400
46	88	SI	AH	T7	TL6	SR	25	0.3	24	18	110	2	24	0	1,300
47	88	SI	DL	T7	TT3	SR	15	0.5	35	18	109	25	21	0	1,500
47	88	SI	AH	T7	TL6	SR	220	0.4	26	19	112		28		
48	88	SI	AH	T7	TL6	SR	20	0.3	23	18	108	2	20	0	1,100
48	88	SI	DL	T7	TT3	SR	20	0.5	32	18	108	1	28	0	1,600
49	88	SI	AH	T7	TL6	SR	140	0.2	26	19	108		25		
49	88	SI	DL	T7	TT3	SR	60	0.4	28	19	105	2	36	0	1,500
50	88	SI	AH	T7	TL6	SR	105	0.8		19	113		31		
50	88	SI	DL	T7	TT3	SR	90	0.7	29	17	101	3	41	0	1,700
51	88	SI	AH	T7	TL6	SR	20	0.3	35	20	138	2	17	0	1,400
51	88	SI	DL	T7	TT3	SR	245	0.6	39	24	126	3	60	0	1,600
52	88	SI	DL	T7	TT3	SR	30	0.6	31	18	94	3	36	0	1,600

52	88	SI	AH	T7	TL6	SR	20	0.3	32	18	137	2	16	0	1,500
53	88	SI	AH	T7	TL6	SR	10	0.2	29	18	112	2	17	0	1,500
53	88	SI	DL	T7	TT3	SR	315	0.6	30	20	143	3	45	0	1,600
54	88	SI	AH	T7	TL6	SR	10	0.2	24	17	110	2	15	0	1,400
54	88	SI	DL	T7	TT3	SR	100	0.4	29	20	109	3	41	0	1,700
55	88	SI	AH	T7	TL6	SR	20	0.2	28	18	119	2	23	0	1,600
56	88	SI	AH	T7	TL6	SR	15	0.2	26	18	114	2	18	0	1,500
57	88	SI	DL	T7	TT3	SR	15	0.5	44	23	121	0	60	0	1,600
57	88	SI	AH	T7	TL6	SR	15	0.1	26	17	113	1	19	0	1,400
58	88	SI	DL	T7	TT3	SR	10	0.5	33	20	101	2	43	0	1,400
58	88	SI	AH	T7	TL6	SR	60	0.1	32	18	114	2	18	1	1,000
59	88	SI	DL	T7	TT3	SR	10	0.6	34	27	120	4	59	0	1,400
59	88	SI	AH	T7	TL6	SR	200	0.2	36	17	115	1	22	0	1,000
60	88	SI	DL	T7	TT3	SR	15	0.5	36	21	117	4	56	1	1,600
61	88	SI	DL	T7	TT3	SR	90	0.6	38	21	118	4	50	1	1,300
62	88	SI	DL	T7	TT3	SR	45	0.5	33	20	111	2	39	0	1,500
63	88	SI	DL	T7	TT3	SR	65	0.6	60	23	107	3	47	0	1,800
64	88	SI	DL	T7	TT3	SR	25	0.6	31	34	71	2	26	0	1,200
65	88	SI	DL	T7	TT3	SR	60	0.6	37	22	127	3	60	1	1,500
69	88	SI	DL	T7	TT3	SR	110	1.1	41	23	131	2	174	0	1,500
70	88	SI	DL	T7	TT3	SR	85	0.7	40	22	114	3	61	0	1,600
71	88	SI	DL	T7	TT3	SR	70	1.1	38	22	115	3	54	1	1,500
75	88	SI	DL	T7	TL6	SR	100	0.4	38	23	105	3	72	0	3,900
76	88	SI	DL	T7	TL6	SR	60	0.3	35	21	107	3	55	0	1,400
77	88	SI	DL	T7	TL6	SR	60	0.2	43	23	117	3	43	1	1,500
78	88	SI	DL	T7	TL6	SR	90	0.3	47	22	103	3	62	0	1,500
79	88	SI	DL	T7	TL6	SR	600	0.3	38	25	109	2	42	1	1,800
80	88	SI	DL	T7	TL6	SR	15	0.2	39	18	121	2	37	1	1,200
81	88	SI	DL	T7	TL6	SR	20	0.3	40	19	121	1	35	1	1,400
82	88	SI	DL	T7	TL6	SR	25	0.3	37	19	121	2	20	1	1,200
83	88	SI	DL	T7	TL6	SR	25	0.1	36	18	112	1	34	1	1,400
84	88	SI	DL	T7	TL6	SR	20	0.2	41	19	125	2	35	1	1,300
85	88	SI	DL	T7	TL6	SR	25	0.4	40	18	119	1	34	1	1,300
86	88	SI	DL	T7	TL6	SR	40	0.3	43	18	130	1	37	2	1,100
87	88	SI	DL	T7	TL6	SR	20	0.3	43	19	134	2	37	1	1,500
88	88	SI	DL	T7	TL6	SR	15	0.2	48	21	141	2	41	1	1,700
89	88	SI	DL	T7	TL6	SR	5	0.3	42	22	135	2	44	2	1,700
90	88	SI	DL	T7	TL6	SR	15	0.4	45	21	142	2	43	1	1,461
91	88	SI	DL	T7	TL6	SR	20	0.3	42	20	135	2	39	1	1,600
10	90	FL	PA	S1	UT1	SR	0	0.0							
7	90	FL	PA	S1	UT1	SR	0	0.0							
8	90	FL	PA	S1	UT1	SR	0	0.0							
9	90	FL	PA	S1	UT1	SR	0	0.0							
1	90	RK	EK	T45	MTN	SR	0	0.0	18	26	55				
21	90	RX	EK				120	6.6	41	112	63				
22	90	RX	EK				60	3.0	49	27	63				
23	90	RX	EK				25	2.3	14	80	35				
24	90	RX	EK				0	0.8	43	20	238				
25	90	RX	EK				0	3.5	30	27	245				
26	90	RX	EK				30	0.0	8	8	158				
27	90	RX	EK				0	0.3	8	15	127				
28	90	RX	EK				50	0.0	6	17	39				
29	90	RX	EK				0	0.8	78	21	878				
30	90	RX	EK				0	0.0	20	14	66				

31	90	RX	EK				0	0.0	16	5	96
32	90	RX	EK				0	3.0	9	39	54
33	90	RX	EK				0	0.1	28	6	38
34	90	RX	EK				0	1.0	10	24	31
35	90	RX	EK				0	2.8	10	136	302
36	90	RX	EK				0	0.9	15	22	20
37	90	RX	EK				0	2.3	10	32	42
38	90	RX	EK				0	0.0	7	9	33
39	90	RX	EK				10	0.0	20	13	43
40	90	RX	EK				5	0.2	8	19	17
19	90	RX	EK				25	1.4	31	25	59
20	90	RX	EK				35	2.2	22	35	28
37	90	RX	PA				0	0.0			
38	90	RX	PA				0	0.2			
1	90	RX	CC	S1	UT1	SR	0	0.2			
1	90	RX	BN	S1	MTN	SR	0	0.1			
1	90	RX	PA	S1	UT1	SR	0	0.0			
10	90	RX	CC	S1	UT1	SR	0	0.0			
2	90	RX	PA	S1	UT1	SR	10	0.0			
2	90	RX	BN	S1	MTN	SR	0	0.0			
2	90	RX	CC	S1	UT1	SR	0	0.1			
3	90	RX	BN	S1	MTN	SR	0	0.0			
3	90	RX	PA	S1	UT1	SR	0	0.0			
4	90	RX	CC	S1	UT1	SR	0	0.1			
4	90	RX	PA	S1	UT1	SR	0	0.0			
5	90	RX	PA	S1	UT1	SR	0	0.0			
5	90	RX	CC	S1	UT1	SR	0	0.0			
5	90	RX	BN	S1	MTN	SR	0	0.0			
6	90	RX	BN	S1	MTN	SR	0	0.0			
6	90	RX	CC	S1	UT1	SR	0	0.0			
6	90	RX	PA	S1	UT1	SR	0	0.0			
7	90	RX	CC	S1	UT1	SR	0	0.0			
7	90	RX	BN	S1	MTN	SR	0	0.0			
8	90	RX	CC	S1	UT1	SR	0	0.0			
8	90	RX	BN	S1	MTN	SR	0	0.1			
9	90	RX	BN	S1	MTN	SR	0	0.0			
9	90	RX	CC	S1	UT1	SR	0	0.0			
10	90	RX	BN	S2	UT2	SR/D	0	0.0			
11	90	RX	BN	S2	UT2	SR/D	0	0.0			
11	90	RX	CC	S2	MTN	SR	0	0.0			
12	90	RX	BN	S2	UT2	SR/D	0	0.0			
12	90	RX	CC	S2	MTN	SR	0	0.0			
13	90	RX	CC	S2	MTN	SR	0	0.0			
13	90	RX	BN	S2	UT2	SR/D	0	0.0			
14	90	RX	BN	S2	UT2	SR/D	0	0.0			
14	90	RX	CC	S2	MTN	SR	0	0.0			
15	90	RX	BN	S2	UT2	SR/D	0	0.0			
15	90	RX	CC	S2	MTN	SR	0	0.0			
16	90	RX	BN	S2	UT2	SR/D	0	0.0			
16	90	RX	CC	S2	MTN	SR	0	0.0			
17	90	RX	CC	S2	MTN	SR	0	0.2			
18	90	RX	CC	S2	MTN	SR	0	0.0			
19	90	RX	CC	S2	MTN	SR	15	0.0			
20	90	RX	CC	S2	MTN	SR	10	0.0			

21	90	RX	CC	S2	MTN	SR	0	0.2					
23	90	RX	PA	S2	MTN	D	0	0.2					
24	90	RX	PA	S2	MTN	D	0	0.0					
25	90	RX	PA	S2	MTN	D	0	0.0					
26	90	RX	PA	S2	MTN	D	0	0.0					
27	90	RX	PA	S2	MTN	D	0	0.0					
28	90	RX	PA	S2	MTN	D	0	0.0					
29	90	RX	PA	S2	MTN	D	0	0.0					
30	90	RX	PA	S2	MTN	D/SR	0	0.0					
31	90	RX	PA	S2	MTN	D/SR	0	0.0					
32	90	RX	PA	S2	MTN	D/SR	0	0.2					
33	90	RX	PA	S2	UT2	SR/D	0	0.0					
34	90	RX	PA	S2	UT2	SR/D	0	0.0					
35	90	RX	PA	S2	UT2	SR/D	0	9.4					
36	90	RX	PA	S2	UT2	SR/D	0	0.1					
10	90	RX	EK	T45	MTN	SR	0	0.0	10	8	44		
11	90	RX	EK	T45	MTN	SR	0	0.0	20	9	73		
12	90	RX	EK	T45	MTN	SR	0	0.0	28	8	75		
2	90	RX	EK	T45	MTN	SR	0	0.0	9	8	32		
3	90	RX	EK	T45	MTN	SR	0	0.0	19	10	57		
4	90	RX	EK	T45	MTN	SR	0	0.0	12	9	36		
5	90	RX	EK	T45	MTN	SR	0	0.0	9	6	24		
6	90	RX	EK	T45	MTN	SR	0	0.0	10	19	51		
7	90	RX	EK	T45	MTN	SR	0	0.0	10	19	51		
8	90	RX	EK	T45	MTN	SR	0	0.0	27	38	70		
9	90	RX	EK	T45	MTN	SR	0	0.0	21	15	61		
11	90	RX	PA	T7	TT6B	D/SR	0	0.0	13	1	30		
12	90	RX	PA	T7	TT6B	D/SR	0	0.0	6	7	27		
13	90	RX	PA	T7	TT6B	D/SR	1,001	11.0	57	175	33		
13	90	RX	EK	T7	MTN	SR/D	0	0.0	21	3	70		
14	90	RX	PA	T7	TT6B	D/SR	20	0.0	23	12	57		
14	90	RX	EK	T7	MTN	SR/D	0	0.0	7	16	81		
15	90	RX	EK	T7	MTN	SR/D	0	0.0	6	8	54		
15	90	RX	PA	T7	TT6B	D/SR	15	0.0	23	13	47		
16	90	RX	PA	T7	TT6B	D/SR	0	0.0	20	17	47		
16	90	RX	EK	T7	MTN	SR/D	0	0.0	30	13	112		
17	90	RX	EK	T7	MTN	SR/D	0	0.0	9	1	48		
17	90	RX	PA	T7	TT6B	D/SR	15	1.5	60	768	86		
18	90	RX	EK	T7	MTN	SR/D	1,001	31.0	49	295	42		
18	90	RX	PA	T7	TT6B	D/SR	40	0.2	23	18	83		
19	90	RX	PA	T7	MTN	D/SR	30	0	13	10	56		
20	90	RX	PA	T7	MTN	D/SR	0	0.0	7	4	29		
21	90	RX	PA	T7	MTN	D/SR	20	0.0	8	13	44		
22	90	RX	PA	T7	MTN	D/SR	15	0.0	9	26	68		
1	90	SI	HC	S1	UT1	SR	0	0.1	23	7	92		
2	90	SI	HC	S1	UT1	SR	0	0.2	26	8	120		
3	90	SI	HC	S1	UT1	SR	0	0.0	37	7	120		
30	90	SI	BN	S2	UT2	SR/D	0	0.0					
31	90	SI	BN	S2	UT2	SR/D	0	0.0					
32	90	SI	BN	S2	UT2	SR/D	0	0.0					
33	90	SI	BN	S2	UT2	SR/D	0	0.0					
6	90	SI	EK	S2	UT2	SR/D	0	0.0	23	11	71	2	16
7	90	SI	EK	S2	UT2	SR/D	0	0.0	26	11	82	3	20
8	90	SI	EK	S2	UT2	SR/D	0	0.0	25	15	90	2	21

4	90	SI	EK	T7	TT1	SR/D	0	0.0	45	16	319		2	34					
1	90	SI	EK	T7	TT1	SR/D	0	0.5	106	10	925		2	62					
1	90	SI	BN	T7	TT6C	SR	40	0.1	30	36	112								
10	90	SI	BN	T7	TT6C	SR	0	0.1	30	6	145								
11	90	SI	BN	T7	TT6C	SR	0	0.0	32	30	126								
12	90	SI	BN	T7	TT6C	SR	0	0.0	33	2	109								
13	90	SI	BN	T7	TT6C	SR	0	0.0	37	2	154								
14	90	SI	BN	T7	TT6C	SR	40	0.1	35	15	106								
15	90	SI	BN	T7	TT6C	SR	0	0.1	31	11	102								
16	90	SI	BN	T7	TT6C	SR	50	0.0	39	20	141								
2	90	SI	BN	T7	TT6C	SR	0	0.1	35	18	131								
2	90	SI	EK	T7	TT1	SR/D	0	0.5	101	10	938		9	56					
3	90	SI	EK	T7	TT1	SR/D	0	0.4	54	6	689		2	34					
3	90	SI	BN	T7	TT6C	SR	325	0.0	30	21	150								
4	90	SI	HC	T7	TT6B	SR	25	0.0	33	22	164								
4	90	SI	BN	T7	TT6C	SR	0	0.1	45	25	154								
5	90	SI	EK	T7	TT1	SR/D	0	0.1	51	8	413		4	34					
5	90	SI	HC	T7	TT6B	SR	140	0.2	46	34	122								
5	90	SI	BN	T7	TT6C	SR	20	0.0	35	22	121								
6	90	SI	HC	T7	TT6B	SR	70	0.0	61	25	184								
6	90	SI	BN	T7	TT6C	SR	165	0.1	46	11	205								
7	90	SI	HC	T7	TT6B	SR	20	0.0	44	16	162								
7	90	SI	BN	T7	TT6C	SR	0	0.1	34	15	138								
8	90	SI	BN	T7	TT6C	SR	0	0.0	30	12	130								
8	90	SI	HC	T7	TT6B	SR	0	0.0	39	16	111								
9	90	SI	BN	T7	TT6C	SR	0	0.1	36	11	150								
1280	91	RX	MM	T4	TT7	SR	30	0.6	15	70	53	3	85		15	3	4	7.0	5.0	10.0
1283	91	RX	MM	T4	RIDG	SR	5	T	38	12	424	3	15		150	3	4	3.0	14.0	10.0
1616	91	RX	MM	T4	RIDG	SR	5	0.4	27	12	142	3	13		130	3	2	3.0	6.0	10.0
1616	91	RX	MM	T4	RIDG	SR	15	0.8	96	22	500	3	45		95	3	5	6.0	32.0	10.0
1657	91	RX	MM	T4	DT6	SR		0.1	18	10	51	5	30				3	4.0	1.0	
1255	91	RX	JM	T5	CIRQ	SR/D	10	1.6	75	16	542	5	45		45	3	8	6.0	15.0	10.0
1256	91	RX	MM	T5	CIRQ	SR/D	5	1.4	32	8	366	5	20		130	3	1	3.0	39.0	10.0
1257	91	RX	JM	T5	CIRQ	SR/D	35	1.8	45	10	430	10	45		260	3	3	5.0	22.0	10.0
1258	91	RX	JM	T5	CIRQ	SR/D	5	2.0	40	10	324	5	40		105	3	4	5.0	14.0	10.0
1259	91	RX	JM	T5	CIRQ	SR/D	5	1.4	70	14	518	3	25		80	3	6	9.0	16.0	10.0
1260	91	RX	JM	T5	CIRQ	SR/D	10	1.0	27	8	329	5	35		60	3	4	6.0	13.0	10.0
1261	91	RX	JM	T5	CIRQ	SR/D	5	1.2	48	8	412	10	30		60	3	11	6.0	9.0	10.0
1262	91	RX	JM	T5	CIRQ	SR/D	5	2.2	62	16	903	10	45		90	3	16	7.0	29.0	10.0
1263	91	RX	MM	T5	CLIF	SR	30	0.6	79	14	871	5	25		95	3	12	8.0	14.0	10.0
1264A	91	RX	MM	T5	CLIF	SR	5	1.2	66	12	375	3	25		115	3	6	5.0	18.0	10.0
1264B	91	RX	MM	T5	CLIF	SR	5	0.8	29	6	141	5	15		130	3	1	3.0	15.0	10.0
1265	91	RX	MM	T5	CLIF	SR	5	0.6	92	14	506	3	20		100	3	4	9.0	9.0	10.0
1266	91	RX	MM	T5	CLIF	SR	5	1.0	64	10	334	5	15		125	3	4	5.0	12.0	10.0
1267	91	RX	MM	T5	ST	SR/D	10	0.2	3	20	87	3	24		55	3	2	4.0	2.0	10.0
1270	91	RX	SM	T5	ST	SR/D	10	1.2	19	10	343	3	28		75	3	1	2.0	19.0	10.0
1270	91	RX	MM	T5	ST	SR/D	5	1.8	62	16	942	5	39		105	3	4	5.0	24.0	10.0
1270	91	RX	SM	T5	ST	SR/D	10	1.8	55	22	866	3	52		110	3	7	6.0	28.0	10.0
1271	91	RX	JM	T5	ST	SR/D		1.0	115	16	1,513		70				13			
1272	91	RX	SM	T5	ST	SR/D	5	1.0	56	12	290	5	30		20	3	10	4.0	12.0	10.0
1273	91	RX	SM	T5	ST	SR/D	15	0.2	31	8	286	5	9		80	3	24	6.0	3.0	10.0
1274	91	RX	SM	T5	ST	SR/D		0.2	35	6	108		25				9			
1275	91	RX	SM	T5	ST	SR/D	10	0.2	54	8	224	5	12		20	3	12	4.0	18.0	10.0
1276	91	RX	SM	T5	ST	SR/D	10	0.2	42	8	104	3	17		20	3	8	3.0	18.0	10.0

1277	91	RX	JM	T5	ST	SR/D		0.8	87	6	1,814					15				
1277	91	RX	JM	T5	ST	SR/D		1.0	69	2	1,627		30			6				
1277	91	RX	JM	T5	ST	SR/D		1.4	99	2	2,116		30			4				
1277	91	RX	JM	T5	ST	SR/D		1.8	76	4	1,237		40			7				
1277	91	RX	JM	T5	ST	SR/D		1.4	38	2	716		25			4				
1279	91	RX	JM	T5	ST	SR/D		0.2	49	6	133		10			16				
1284	91	RX	MM	T5	RIDG	SR		0.2	32	14	92		35			16				
1285	91	RX	PP	T5	CLIF	SR		1.4	14	2	161		20			1				
1286	91	RX	PP	T5	RIDG	SR		0.2	31	6	99		15			6				
1288	91	RX	PP	T5	RIDGSR			0.2	257	1	661		35			13				sdl2
1290	91	RX	JM	T5	TT3	SR	5	1.0	48	10	163	5	35	95	3	8	4.0	19.0	10.0	sdl2
1291	91	RX	JM	T5	TT1	SR/D		1.4	43	1	435		40			3				sdl2
1293	91	RX	SM	T5	CLIF	SR	5	0.6	4	6	27	3	3	70	3	4	2.0	13.0	10.0	sdl2
1294	91	RX	JM	T5	ST	SR/D		0.1	31	1	104		5			8				sdl2
1295	91	RX	PP	T5	TT13	SR/D		1.8	19	10	67		20			1				sdl2
1296	91	RX	SM	T5	ST	SR/D		0.1	19	10	67		20			1				sdl2
1296	91	RX	JM	T5	ST	SR/D		0.4	29	2	78		5			8				sdl2
1297	91	RX	SM	T5	TT7	SR		0.2	14	2	36		4			11				topside
1298	91	RX	MM	T5	TT1	SR/D		0.8	44	1	179		20			7				side
1421	91	RX	TN	T5	RIDG	SR/D		1.2	36	1	140		10			4				side
1424	91	RX	JJ	T5	RIDG	SR/D		2.2	27	16	193	5	45			5	3.0	13.0		side
1427	91	RX	JJ	T5	RXTR	SR/D		1.4	65	4	285		20			2				side
1428	91	RX	JJ	T5	RIDG	SR/D		1.4	26	16	145	5	30			1	2.0	29.0		tals
1451	91	RX	MM	T5	CLIF	SR	15	1.2	43	8	371	3	22	60	3	4	4.0	12.0	10.0	tals!1.0
1453	91	RX	MM	T5	CLIF	SR		0.8	30	10	114	5	40			2	3.0	8.0		tals22.0
1454	91	RX	MM	T5	CLIF	SR		1.6	35	10	251	5	30			3	3.0	16.0		tals3
1455	91	RX	MM	T5	CLIF	SR		1.2	31	8	264	5	30			3	3.0	13.0		
1457	91	RX	MM	T5	CLIF	SR		2.2	16	10	175	15	50			1	2.0	47.0		tals
1458	91	RX	JM	T5	TT3	SR/D	10	1.2	124	20	337	5	25	50	3	4	6.0	14.0	10.0	tals A
1459	91	RX	JM	T5	TT3	SR/D	20	1.4	43	10	190	5	20	85	5	3	4.0	11.0	10.0	
1460	91	RX	MM	T5	TT1	SR/D		1.0	51	12	292	10	45			4	4.0	30.0		tals
1461	91	RX	MM	T5	TT1	D	10	2.2	44	12	273	3	30	60	3	3	4.0	20.0	10.0	tals
1462	91	RX	MM	T5	TT1	SR/D		1.2	68	12	432	5	50			7	5.0	16.0		
1608	91	RX	SM	T5	RIDG	SR		2.2	39	8	484	5	40			5	3.0	15.0		
1611	91	RX	SM	T5	RIDG	SR		0.8	35	2	199		20			3				
1612	91	RX	JM	T5	RIDG	D		0.6	33	10	118	5	40			2	4.0	8.0		
1615	91	RX	JM	T5	RIDG	D		0.8	21	10	105	3	25			2	2.0	5.0		
1652	91	RX	JJ	T5	RIDG	D		0.1	5	16	36	3	30			3	4.0	4.0		
1653	91	RX	JJ	T5	RIDG	D		0.1	5	14	44	3	30			4	4.0	6.0		uppr
1654	91	RX	JJ	T5	RIDG	D		0.1	8	14	33	5	35			5	4.0	2.0		spec
1663	91	RX	JJ	T5	TT3	SR/D		0.6	67	1	371		30			6				east
1664	91	RX	JJ	T5	TT3	SR	5	2.4	34	12	382	5	35	120	3	2	4.0	18.0	10.0	
1281	91	RX		T7	TC1	SR/D	10	0.4	51	40	128	5	135	35	3	31	7.0	2.0	10.0	
1292	91	RX	JM	T7	TT3	SR	5	1.2	40	10	174	3	25	85	3	2	4.0	10.0	10.0	
1417	91	RX	MM	T7	KAME	SR		0.2	30	40	162	5	30			6	4.0	0.5		
1418	91	RX	TN	T7	RXTR	SR	5	2.4	51	14	414	5	36	130	3	6	4.0	26.0	10.0	tals
1419	91	RX	TN	T7	RXTR	SR	5	1.8	35	6	269	5	22	100	3	2	3.0	37.0	10.0	
1420	91	RX	TN	T7	ext ~~TT13~~	SR/D		1.0	34	60	132	5	35			4	3.0	4.0		tals
1661	91	RX	JJ	T7	TT3	SR/D		1.0	87	6	725	10	65			13	6.0	10.0		ridg
1662	91	RX	JJ	T7	TT3	SR/D		0.1	216	16	313	3	120			11	16.0	7.0		
1.0	91	SI	TN	T4	DT5	SR	3	0.6	96	14	205	5	25	95	3	50	5.0	4.0	10.0	
1.0	91	SI	MM	T4	DT7	SR	10	2.0	140	14	331	5	35	255	3	132	8.0	6.0	10.0	
1.0	91	SI	JJ	T4	DT6	SR	5	0.4	57	8	177	10	20	95	3	24	5.0	4.0	10.0	
1.0	91	SI	MM	T4	DT67	SR	5	0.6	30	8	109	10	15	35	3	9	4.0	5.0	10.0	

2.0	91	SI	MM	T4	DT67	SR	10	1.0	32	12	96	10	15	30	3	25	4.0	5.0	10.0		
2.0	91	SI	MM	T4	DT7	SR	10	2.0	145	28	477	10	40	275	3	107	8.0	7.0	10.0		*
2.0	91	SI	TN	T4	DT5	SR	3	1.2	131	14	327	10	40	115	3	88	7.0	10.0	10.0	trench	
3.0	91	SI	MM	T4	DT7	SR	3	4.0	199	28	650	20	60	390	3	195	9.0	13.0	10.0	trench	
3.0	91	SI	TN	T4	DT5	SR	3	0.4	84	14	232	5	20	85	3	43	5.0	7.0	10.0	rx at kame	
3.0	91	SI	JJ	T4	DT6	SR	5	0.4	58	15	182	15	20	85	3	15	5.0	5.0	10.0		
4.0	91	SI	TN	T4	DT5	SR	3	0.4	76	12	191	3	15	80	3	34	5.0	2.0	10.0		
4.0	91	SI	MM	T4	DT7	SR	10	1.8	136	36	41	10	40	215	3	126	8.0	8.0	10.0	chan	
5.0	91	SI	TN	T4	DT5	SR	10	0.6	77	14	184	3	20	75	3	37	5.0	4.0	10.0	chan	
5.0	91	SI	MM	T4	DT7	SR	10	2.0	167	30	451	15	45	230	3	153	9.0	10.0	10.0	chan	
5.0	91	SI	JJ	T4	DT6	SR	3	0.2	38	12	99	10	10	65	3	22	3.0	2.0	10.0		
6.0	91	SI	TN	T4	DT5	SR	3	0.6	78	20	179	10	15	75	3	40	5.0	4.0	10.0	chan	
6.0	91	SI	MM	T4	DT7	SR	10	2.2	140	24	491	10	45	290	3	117	9.0	11.0	10.0	base	
7.0	91	SI	MM	T4	DT7	SR	3	1.4	121	34	330	10	25	225	3	111	7.0	8.0	10.0	base	
7.0	91	SI	TN	T4	DT5	SR	3	0.4	52	22	127	10	20	105	3	40	4.0	5.0	10.0	base	
8.0	91	SI	MM	T4	DT7	SR	10	1.6	108	38	353	5	30	325	3	151	9.0	4.0	10.0	base	
9.0	91	SI	MM	T4	DT7	SR	5	1.2	95	38	289	15	30	160	3	118	7.0	3.0	10.0	base A	
1.0	91	SI	SM	T7	TT7	SR	3	0.2	51	26	233	3	20	85	3	22	4.0	4.0	10.0	tals up	
1.0	91	SI	TN	T7	TT3	SR/D	3	3.2	181	36	3,369	20	125	170	3	42	9.0	104.0	10.0	tals up	
1.0	91	SI	MM	T7	TT1	SR/D	3	2.8	188	26	2,108	5	120	135	3	26	11.0	72.0	10.0	topE	
2.0	91	SI	MM	T7	TT1	SR/D	5	5.2	107	36	1,204	15	115	160	3	14	10.0	63.0	10.0	upr	
2.0	91	SI	TN	T7	TT3	SR/D	5	2.6	120	44	1,665	35	180	165	3	34	8.0	122.0	10.0	uprE	
2.0	91	SI	SM	T7	TT7	SR	5	0.2	43	26	222	3	15	85	3	21	5.0	2.0	10.0	topA	
3.0	91	SI	SM	T7	TT7	SR	10	0.4	48	22	199	3	25	95	3	23	5.0	5.0	10.0	topB	
3.0	91	SI	MM	T7	TT1	SR/D	3	1.8	103	24	1,666	15	60	130	3	21	8.0	29.0	10.0	topA	
3.0	91	SI	TN	T7	TT3	SR/D	3	3.2	165	36	2,887	40	135	170	3	45	8.0	60.0	10.0		
4.0	91	SI	SM	T7	TT7	SR	10	0.2	48	30	199	3	45	125	3	26	5.0	4.0	10.0		
5.0	91	SI	SM	T7	TT7	SR	5	0.4	44	22	184	5	50	90	3	19	5.0	2.0	10.0	topA	
6.0	91	SI	SM	T7	TT7	SR	3	0.2	37	10	102	3	15	70	3	16	4.0	2.0	10.0		
7.0	91	SI	SM	T7	TT7	SR	3	0.1	36	18	141	10	10	115	3	16	4.0	1.0	10.0		
8.0	91	SI	SM	T7	TT7	SR	3	0.2	33	10	92	5	10	70	3	15	3.0	3.0	10.0	topA	
9.0	91	SI	SM	T7	TT7	SR	3	0.1	39	16	131	5	5	90	3	17	4.0	3.0	10.0	top	
10.0	91	SI	SM	T7	TT7	SR	5	0.2	33	12	99	5	15	65	3	15	4.0	2.0	10.0	estA	
1422	91	RX	TN	T5	RIDG	SR/D		2.0	44	1	290		15			6				estB	
1423	91	RX	JJ	T5	RIDG	SR/D		0.6	41	12	216	5	40			7	5.0	5.0		west	
1426	91	RX	TN	T5	RIDG	SR\D		1.4	37	14	186	10	35			2	2.0	36.0		west	
1607	91	RX	SM	T5	RIDG	SR	10	1.2	22	8	274	3	34	90	3	2	3.0	19.0	10.0	west	
1607	91	RX	SM	T5	RIDG	SR	10	1.6	24	8	315	3	23	100	3	2	2.0	16.0	10.0	top	
1609	91	RX	SM	T5	RIDG	SR		2.0	25	1	157		25			3				tren	
1609	91	RX	SM	T5	RIDG	SR		2.4	17	2	95		20			1				tren	
1610	91	RX	SM	T5	RIDG	SR		0.8	36	2	180		15			3					
1610	91	RX	SM	T5	RIDG	SR		0.6	52	12	345	5	50			5	5.0	10.0		oc	

APPENDIX III

1991 GEOCHEMICAL SAMPLING

SAMPLE DESCRIPTIONS

GUIDE TO DATA

RECORD LAYOUT

Sample # Sampler SampleRef# Claim #

Hydroref Outcrop # Outcrop Desc.

Location

Sample Description
Mineralogical Description

Rock class Mineralization Class
Purpose
Miscellaneous
Assays

RECORD DESCRIPTIONS

Sample # - Tag number used as field & lab reference
Sampler - Person who took sample -
- MM - Michael Millar
- TN - Tom Nelson
- JJ - James Johnson
- SM - Stephen Millar
- JM - James Millar
- PP - Pat Post

Sample Reference - temporary number applied by sampler & used in his notes
Claim - Name & number of claim from which the sample was taken
Hydrological Reference - Identification of the general and specific drainage from which the sample was taken.
Outcrop Description - short description of location of out crop or sample location
Location - sample location on outcrop or stream cut
Sample Description - description of outcrop geology
Mineral Description - description of any mineralization or alteration
Rock Class - short description of rock matrix
Mineral Class - short description of mineralization type
Purpose - suggestion as to why the sample was taken?
Miscellaneous - any other notes felt to be relevant
Assays - Except for Au, which is measured in ppb, the remainder are reported in ppm

1255 JM 302-1 TR5

TT1-3 302 Saddle 2 - rim of cirque

easternmost, lowest strat'y, of series 1255-1262

8 - 12' thick section - bl & dk gr ms - very heavy sheared
well-leached - good hem rime-

bl ms fractfill
1 of series of 8 to smpl 42' thich section ms o/c
specimen

ASSAY
AU 10 AG 1.6 AS 45 BA 140 BI <5 CO 8
CU 75 FE 6.06 MO 15 PB 16 SB 5
SN <20 ZN 542

1256 MM 302-6 TR5

TT1-3 302 Saddle 2 - rim over cirque

middle stratig'y of series 1255-1262

6' section - bl ms - very heavy sheared
well-leached - good hem rime - white dust & stain -

ms fractfill
6th in seq & at top of series

ASSAY
AU 5 AG 1.4 AS 20 BA 130 BI <5 CO 1
CU 32 FE 3.43 MO 39 PB 8 SB 5
SN <20 ZN 366

1257 MM 302-2 TR5

TT3 302 Saddle 2 - rim over curque

second in series from east 1255-1262

4' section - bl & gr ms - very heavy sheared -
well-leached (sintered look) - good hem rime -

bl & gr ms fractfill
2nd in series of 8

ASSAY
AU 35 AG 1.8 AS 45 BA 260 BI <5 CO 3
CU 45 FE 4.56 MO 22 PB 10 SB 10
SN <20 ZN 430

1258 MM 302-3 TR5

TT3 302 Saddle 2 - rim over curque

Third in series from east 1255-1262

3' section - mainly massive ms
minor leaching & iron staining - some white staining - minor rime

ms fractfill
3rd of series of 8

ASSAY
AU 5 AG 2 AS 40 BA 105 BI <5 CO 4
CU 40 FE 5.25 MO 14 PB 10 SB 5
SN <20 ZN 324

1259 MM 302-4 TR5

TT3 302 Saddle 2 - rim over curque

Fourth in series from east 1255-1262

3' section - mainly massive ms with minor shearing
minor leaching - thin rime - flecks of white gossan

ms fractfill
4th of series of 8

ASSAY
AU 5 AG 1.4 AS 25 BA 80 BI <5 CO 6
CU 70 FE 9.05 MO 16 PB 14 SB <5
SN <20 ZN 518

1260 MM 302-4 TR5

TT3 302 Saddle 2 - rim over curque

Fifth in series from east 1255-1262

4' section - mainly fractured, massive bl ms
minor hem rime - some pyr cubes - minor white gossan -

ms fractfill
5th of series of 8

ASSAY
AU 10 AG 1 AS 35 BA 60 BI <5 CO 4
CU 27 FE 6.4 MO 13 PB 8 SB 5
SN <20 ZN 329

1261 SM 302-7 TR5

TT3 302 Saddle 2 - rim over curque

Seventh in series from east 1255-1262

4 ' section - very heavily sheared ms - coarse grained
good hem rime and white gossan

ms fractfill
#7 of series of 8 across strata

ASSAY

AU	5	AG	1.2	AS	30	BA	60	BI	<5	CO	11
CU	48	FE	5.59	MO	9	PB	8	SB	10		
SN	<20	ZN	412								

1262 SM 302-7.5 TR5

TT3 302 saddle 2 - rim over curque

Eighth in series from east 1255-1262

6' section - very heavily sheared
heavily leached - very good hem rime & white staining

ms fractfill
#8 in series of 8 across o/c

ASSAY

AU	5	AG	2.2	AS	45	BA	90	BI	<5	CO	16
CU	62	FE	7.13	MO	29	PB	16	SB	10		
SN	<20	ZN	903								

1263 MM cliff-1 TR5

TT3 303 large cliff E of saddle 2

upper sample of series down the side of cliff

well-sheared bl ms of ms with lots of fe & wh gossan - well sheared -
well-leached - heavy iron and white gossan - good hem rime -some qtz with

ms fractfill & qtz vn
1st of series across side of clifff

ASSAY

AU	30	AG	.6	AS	25	BA	95	BI	<5	CO	12
CU	79	FE	7.77	MO	14	PB	14	SB	5		
SN	<20	ZN	871								

1264A MM cliff 2A TR5

TT3 303 large cliff E of saddle 2

second sample of series down the side of cliff

mainly blank grey ms, blocky fractured , sm amount of fe stain & little w
minor leaching - minor fe & white stain

ms fractfill
1st of series across side of clifff
smpl split in half A & B -

ASSAY
AU 5 AG 1.2 AS 25 BA 115 BI <5 CO 6
CU 66 FE 5.05 MO 18 PB 12 SB <5
SN <20 ZN 375

1264B MM cliff-2B TR5

TT3 303 cliff E of saddle 2

2nd smpl down side of cliff at base

as 1264A - this smpl was sorted from A & is about 1/2 wt of A & should be
unmineralized gray and black ms

ms
to smpl the base of cliff
should test the blank ms for dissem sulf

ASSAY
AU 5 AG .8 AS 15 BA 130 BI <5 CO 1
CU 29 FE 3.2 MO 15 PB 6 SB 5
SN <20 ZN 141

1265 MM cliff-3 TR5

TT7 303 cliff E of saddle 2

3rd smpl down side of cliff at scree

highly oxidized, almost sintered - leached badly
good thick rime with shiny sulf?

ms fractfill
3rd smpl in series to test base of cliff
Specimen

ASSAY
AU 5 AG .6 AS 20 BA 100 BI <5 CO 4
CU 92 FE 9.24 MO 9 PB 14 SB <5
SN <20 ZN 506

1266 MM cliff 4 TR5

TT3 303 cliff E of saddle 2

4th smpl down side of cliff at scree

mostly gray ms, blocky & massive with little shearing
some white staining and little hem rime

ms fractfill
4th smpl in series to test base of cliff
specimen of wh stained grey ms

ASSAY

AU	5	AG	1	AS	15	BA	125	BI	<5	CO	4
CU	64	FE	5.32	MO	12	PB	10	SB	5		
SN	<20	ZN	334								

1267 SM Talus TR5

ST Talus Talus

South of outcrop area 'D'

crystalline rock with scattered ba xtls
very heavy leaching & lim stain with patches of white xtline stain

volc
test specimens from talus below ST cliff

ASSAY

AU	10	AG	.2	AS	24	BA	55	BI	65	CO	2
CU	3	FE	3.8	MO	2	PB	20	SB	<5		
SN	<20	ZN	87								

1268 JM Talus TR5

ST Talus Talus

North of outcrop area 'D'

black massive ms with blocky fracturing
much white staining as dusting of wh xstls

ms nil
Check of heavy white staining for mineralization
probably no assay

ASSAY

AU		AG		AS		BA		BI		CO	
CU		FE		MO		PB		SB			
SN		ZN									

1269 JM Talus T5

ST Talus Talus

collected from talus north of area 'D'

massive ms
Barite vein

ms ba
test of barite vein
specimen

ASSAY

AU		AG		AS		BA		BI		CO	
CU		FE		MO		PB		SB			
SN		ZN									

1270.1 SM Talus TR5

ST Talus Talus

Collected from talus along edge of glacier

graphitic ms
heavy hem rime and well leached with much white staining, some dusting and

bl ms oxidized
Test heaviest leached specimens of 1270 sample
specimens

ASSAY

AU	5	AG	1.8	AS	39	BA	105	BI	<5	CO	4
CU	62	FE	5	MO	24	PB	16	SB	<5		
SN	<20	ZN	942								

1270.2 SM Talus TR5

ST Talus Talus

Collected from talus along edge of glacier

graphitic ms
some heavy hem rime and leaching with minor white staining, some dusting a

bl ms oxidized
Test medium leached specimens of 1270 sample
specimens

ASSAY

AU	10	AG	1.2	AS	28	BA	75	BI	<5	CO	1
CU	19	FE	2	MO	19	PB	10	SB	<5		
SN	<20	ZN	343								

1270.3 SM Talus TR5

ST Talus Talus

Collected from talus along edge of glacier

graphitic ms
minor hem rime and some leaching and white staining

bl ms oxidized
Test less-well-leached specimens of 1270 sample specimens

ASSAY

AU	10	AG	1.8	AS	52	BA	110	BI	<5	CO	7
CU	55	FE	6	MO	28	PB	22	SB	<5		
SN	<20	ZN	866								

1271A JM ST5 TR5

ST Talus Talus

Collected from talus along edge of glacier

graphitic ms
streaks of massive hem rime in heavily oxidized ms

bs mass of hem rime
test of high grade ?

ASSAY

AU		AG	1.0	AS	70	BA		BI		CO	13
CU	115	FE		MO		PB	16	SB			
SN		ZN	1513								

1272 JM ST6 TR5

ST Talus Talus

Collected from edge of ST glacier

Interbedded bl and gr ms - mostly massive
minor fracturing with some fractures cemented with ca containing small spec

bl ms fractfill
test specimen

ASSAY

AU	5	AG	1	AS	30	BA	20	BI	<5	CO	10
CU	56	FE	4	MO	12	PB	12	SB	5		
SN	<20	ZN	290								

1273A SM ST7-1 TR5

ST Talus Talus

Collected from edge of ST glacier

cryst rx - poss volc? - resembles MDF
heavy white staining with ca stringers

volc? white stain
test white stain

ASSAY
AU 15 AG .2 AS 9 BA 286 BI <5 CO 24
CU 31 FE 5.5 MO <5 PB 8 SB 5
SN ZN 286

1273B SM ST7-1 TR5

ST Talus Talus

Collected from edge of ST glacier

cryst rx - poss volc? - resembles MDF
heavy white staining with ca stringers

volc? white stain
specimen kept to study white stain
specimen

ASSAY
AU AG AS BA BI CO
CU FE MO PB SB
SN ZN

1274 SM ST-A-1 TR5

ST Talus Talus

Collected from edge of ST glacier

banded ms
pyritized ms with lim and white staining

ms oxidized
test banded ms

ASSAY
AU AG <.2 AS 25 BA BI CO 9
CU 35 FE MO PB 6 SB
SN ZN 108

1275 SM ST-A-2 TR5

STG Talus Talus

Collected from edge of ST glacier just north area D

bl ms
white crust - wh qtz & ba veinlets - massive with little shearing & scatt

ms fractfill - qtz vn
to test white gossan
specimen of white stain

ASSAY
AU 10 AG .2 AS 12 BA 20 BI <5 CO 12
CU 54 FE 4.08 MO 18 PB 8 SB 5
SN <20 ZN 224

1276 SM STA-3 TR5

ST Talus Talus

collected from talus at edge of St glacier - Area 4

ms banded lt & dark
heavy hem & lim staining/leaching

ms
test ms
specimen

ASSAY
AU 10 AG .2 AS 17 BA 20 BI <5 CO 8
CU 42 FE 3 MO 18 PB 8 SB <5
SN <20 ZN 104

1277-1 JM ST-B-1 TR5

ST D white-stained patch on cliff

100m above o/c D (volc lens) top of section & 1977 smpl set

10" section across wh stained bl ms
thin fract with thin hem rime & white stain on surface & cracks - tiny ba

bl ms wh staining
second from top of 6 to test white stained ms
specimens

ASSAY
AU AG .8 AS 25 BA BI CO 15
CU 87 FE MO PB 6 SB
SN ZN 1814

1277-2 JM ST-B-1 TR5

ST D white-stained patch on cliff

100m above o/c D (volc lens) middle of 1977 smpl set

across 6" width of bl ms - massive but banded with shiny sheen in some band
some vitreous white crystals - no py

bms
third from top of outcrop

ASSAY

AU		AG	1.4	AS	25	BA		BI		CO	4
CU	38	FE		MO		PB	2	SB			
SN		ZN	716								

1277-3 JM ST-B-1 TR5

ST D white-stained patch on cliff

100m above o/c D (volc lens) middle of 1977 smpl set

across 6" width of bl ms - heavy shearing
little wh staining - mostly barren bms with brown oxidized stain or sheen w

bl ms
fourth from top of outcrop

ASSAY

AU		AG	1.4	AS	30	BA		BI		CO	7
CU	99	FE		MO		PB	2	SB			
SN		ZN	2116								

1277-4 JM ST-B-1 TR5

ST D white-stained patch on cliff

100m above o/c D (volc lens) middle of 1977 smpl set

width 12" across bl ms
bms with hvy wh staining, but occasional hvy white rime, & minor brown sheei

bl ms
fifth from top of outcrop

ASSAY

AU		AG	1	AS	30	BA		BI		CO	6
CU	69	FE		MO		PB	2	SB			
SN		ZN	1627								

1277-5 JM ST-B-1 TR5

ST D white-stained patch on cliff

100m above o/c D (volc lens) bottom of 1977 smpl set

width 24" of bl ms
mostly fe staining from band of disseminated py - sm qv & minor hem rime

bl ms
bottom sample of outcrop

ASSAY

AU		AG	1.8	AS	40	BA		BI		CO	7
CU	76	FE		MO		PB	4	SB			
SN		ZN	1237								

1278 JM ST-B-2 TR5

ST Talus Talus

collected from talus south of area D

miscellaneous specimens of bl ms
variable

bl ms
specimens collected for study

ASSAY

AU		AG		AS		BA		BI		CO	
CU		FE		MO		PB		SB			
SN		ZN									

1279 JM ST-B-3 TR5

ST Talus Talus

collected from talus along edge of glacier

mainly bl and gr ms - miscellaneous specimens collected for their white st
variable

bl & gr ms -
collected for testing

ASSAY

AU		AG	<.2	AS	10	BA		BI		CO	16
CU	49	FE		MO		PB	6	SB			
SN		ZN	133								

1280 SM TC-4 An TR5

TT7 across edge of 30m shear zone

Towards edge of Treaty 5 between TT7 & ridge to Drysdale Gl

12" section of heavily sheared zone in gr ms -
hvy pyr with poss cp?? - hvy lim gossan -

ms shear zone
to test anomaly TC-4

ASSAY
AU 30 AG .6 AS 85 BA 15 BI <5 CO 4
CU 15 FE 6.92 MO 5 PB 70 SB <5
SN <20 ZN 53

1281 MM TC1 TR7

TT6 unk unk -

southeast of camp lake

ms
minor vivid stain

ms nil
test of ms in TC valley

ASSAY
AU 10 AG .4 AS 135 BA 35 BI <5 CO 31
CU 51 FE 7.18 MO 2 PB 40 SB 5
SN <20 ZN 128

1282 JM TC1 TR7

TC west of camp lake

float - collected on survey traverse

bl to dk gray ms
hvy lim staining & possible sulf?

ms fractfill
test interesting specimen

ASSAY
AU AG AS BA BI CO
CU FE MO PB SB
SN ZN

1283 MM SS3 TR5

TT3 303 cliff east of saddle 2

about half way down cliff

bl ms - heavily fractured
qtz vn with sulf & heavy white stain

ms fractfill
test of specimen

ASSAY
AU 5 AG <.2 AS 15 BA 150 BI <5 CO 4
CU 38 FE 3.17 MO 14 PB 12 SB <5
SN <20 ZN 424

1284 MM MM1/SS4 TR5

TT3 Ridge above TT3/5

east of Saddle 3

blocky ms with moderate fracturing
scattered py with small pockets of more dense - clusters of wh columnar cr

ms dissem'd
specimen collected

ASSAY
AU AG .2 AS 35 BA BI CO 16
CU 32 FE MO PB 14 SB
SN ZN 92

1285 PP SS2 TR5

Ridge edge of cliff at ridge

Saddle 2

moderately fractured ms
good hem rime on fracture planes, with wh stain

bl ms fractfill

ASSAY
AU AG 1.4 AS 20 BA BI CO 1
CU 14 FE MO PB 2 SB
SN ZN 161

1286 PP S3 TR5

TT3 302 edge of rim above TT3

collection of interesting specimens from ridge

mainly massive bl ms ction of fe stain, mainly well-fract'd - some pces
some specimens well leached with moderate rime & thin white staining on ri

ms fractfill
test

ASSAY

AU	AG <.2	AS 15	BA	BI	CO 6
CU 31	FE	MO	PB 6	SB	
SN	ZN 99				

1287 PP SS7 TR5

TT1 304 ridge above TT1

west of sadddle 1 across o/c

across outcrop of fragmental tuff or flow - vy dk gray
oxidized with lim staining and with white qtz vein & some thin rime

Volc Frag
test MDF

ASSAY

AU	AG	AS	BA	BI	CO
CU	FE	MO	PB	SB	
SN	ZN				

1288 PP SS9 TR5

TT3 305 ridge in saddle 3

east of cliff

porous, leached ms
soft and well leached with minor white stain, but with vitreous streaks

ms fractfill/vns

ASSAY

AU	AG <.2	AS 35	BA	BI	CO 13
CU 257	FE	MO	PB <2	SB	
SN	ZN 661				

1289 PP SS9 TR5

TT1 306 north side of ridge

head of TT1/3

moderately well fract'd ms
veinlets of hem rime with dusting of wh xstls

ms fractfill/veins

ASSAY

AU	AG	AS	BA	BI	CO
CU	FE	MO	PB	SB	
SN	ZN				

1290 JM SS10 TR5

TT3 Talus- Talus

collected from talus below 303 cliff

ms with moderate fracturing
fractures laced with thick hem rime & possible cobalt bloom? generally feav

ms fractfill

ASSAY

AU 5	AG 1	AS 35	BA 95	BI <5	CO 8
CU 48	FE 4.03	MO 19	PB 10	SB 5	
SN <20	ZN 163				

1291 JM SS11 TR5

TT1 Talus Talus

From below outcrop on east side of head of TT1

well fractured bl ms
thick hem rime on fracture planes

ms fractfill

ASSAY

AU	AG 1.4	AS 40	BA	BI	CO 3
CU 43	FE	MO	PB <2	SB	
SN	ZN 435				

1292 JM SS11 TR5

TT1 Talus Talus

From below outcrop on east side of head of TT1

well fractured bl ms
as 1291

ms fractfill

as 1291

ASSAY
AU 5 AG 1.2 AS 25 BA 85 BI <5 CO 2
CU 40 FE 4.46 MO 10 PB 10 SB <5
SN <20 ZN 174

1293 JM SS12A TR5

TT3 303 top of cliff

about half way up ridge above cliff

bl ms
qtz with Au? & shiny silver colored sulf?

ms qtz veins

ASSAY
AU 5 AG .6 AS 3 BA 70 BI <5 CO 4
CU 4 FE 1.67 MO 13 PB 6 SB <5
SN <20 ZN 27

1294 JM SS12 TR5

ST Talus

collected from edge of glacier south of area D

bl ms
quartz vn cutting ms - poss mineralized with fine sulf? and leached with B

ms Q-Ba vns

ASSAY
AU AG <.2 AS 5 BA BI CO 8
CU 31 FE MO PB <2 SB
SN ZN 104

1295 PP SS13 TR5

TT1/3 talus talus

collected from upper part of TT1/3 cirque

bl ms both massive & fractured
leached heavily with much lim sgtaining and some hem rime

ms fractfill
test heavy oxidization

ASSAY

AU		AG	1.8	AS	20	BA		BI		CO	<1
CU	19	FE		MO		PB	10	SB			
SN		ZN	67								

1296A SM TR5

ST Talus Talus

collected from edge of ST glacier

miscellaneous specimens separated into 3 parts A, B, C in lab
barite specimen

ba in ms ba
test high barite specimen

ASSAY

AU		AG	<.2	AS	20	BA		BI		CO	<1
CU	19	FE		MO		PB	10	SB			
SN		ZN	67								

1296B JM TR5

ST Talus Talus

collected from edge of glacier

separated into three parts in lab
qtz veinlets in bms, several with small barite crystals -

bl ms qtz vn with ba
test qtz vn

ASSAY

AU		AG		AS		BA		BI		CO	
CU		FE		MO		PB		SB			
SN		ZN									

1296C JM TR5

ST Talus Talus

collected from edge of glacier

separated into three parts in lab
hem rime & little disseminated py

bl ms hem
test hem rime

ASSAY

AU		AG	.4	AS	5	BA		BI		CO	8
CU	29	FE		MO		PB	2	SB			
SN		ZN	78								

1297 SM TR7

TT7 between branches of TT7

headwaters of TT7

collected from several outcrops
qtz/ca veinlets cutting bms & breccia - white staining and little lim stai

bl ms

ASSAY

AU		AG	.2	AS	<5	BA		BI		CO	11
CU	14	FE		MO		PB	2	SB			
SN		ZN	36								

1298 MM Spec D TR5

TT1 talus talus

Part way up east side of TT1

bl ms with heavy fracturing
heavy brown rime and no wh staining

bl ms

ASSAY

AU		AG	.8	AS	20	BA		BI		CO	7
CU	44	FE		MO		PB	<2	SB			
SN		ZN	179								

1417 MM TR7

TT3 Mike Showing

at heliport on kame east of TT1

channel smpl across 15 feet - bl ms well sheared
med br rime, heavy shearing, very few pieces show any py or heavy leaching

bl ms fractfill

Specimen

ASSAY

AU		AG	0	AS	30	BA		BI		CO	6
CU	30	FE	4	MO	1	PB	40	SB	5		
SN		ZN	162								

1418 TN Sta 8 TR7

TT3 RockTr 3 deep natural trenches

on lower side of upper basin just west of TT1

across trench face - well fractured bl ms with gray clastic
much of sample is well leached with moderate hem rime with gray-white stai

bl ms fractfilling
one of series of samples to check trenches
specimens saved A,B,C

ASSAY

AU	5	AG	2.4	AS	36	BA	130	BI	<5	CO	6
CU	51	FE	4	MO	26	PB	14	SB	5		
SN	<20	ZN	414								

1419 TN 7-12 TR7

TT3 Rocktr 3 deep natural trenches

on lower side of upper basin just west of TT1

collected and cut from wall of trench
bl ms with fe stain and brown rime & lots of white staining

bl msbms fractfill
test trenches
specimens A & B

ASSAY

AU	5	AG	1.8	AS	22	BA	100	BI	<5	CO	2
CU	35	FE	3	MO	37	PB	6	SB	5		
SN	<20	ZN	269								

1420 TN D-7 TR5

TT1-3 bluff over creek cut

o/c between TT1 & TT3 above Mike Showing

generally massive bl ms
Brown rime on fracture faces and heavy iron leaching

bl ms fractfill

specimen

ASSAY

AU		AG	1	AS	35	BA		BI		CO	4
CU	34	FE	3	MO	4	PB	60	SB	5		
SN		ZN	132								

1421 TN 6+90 TR5

TT1/3 Ridge ridge between TT1 & ST

6+90 from MDF along ridge to east

chipped from hand trench 690 ft from MDF - gray & black ms with variable
some fe staining & wh gossan - cut by tiny ca veinlets & qtz veinlets some

bl ms fractfill

ASSAY

AU		AG	1.2	AS	10	BA		BI		CO	4
CU	36	FE		MO		PB	<2	SB			
SN		ZN	140								

1422 TN 6+40 TR5

TT1/3 Ridge Ridge between TT1 & ST

6+40 from MDF along ridge to east

chipped from hand trench 640 ft from MDF - mainly vuggy bl ms with variable
some fe staining & wh gossan - lots of hem rime on the heavier fractured pi

bl ms fractfill

Specimens A & B

ASSAY

AU		AG	2	AS	15	BA		BI		CO	6
CU	44	FE		MO		PB	<2	SB			
SN		ZN	290								

1426 TN JJ1 TR5

TT1/3 Ridge outcrop along ridge

chipped from hand trench east of MDF

bl ms with much fracturing & some shearing
10% leached & fe stained with lots of white stain & hem rime on cracks

bl ms fractfill

specimens A = dk gr ms with hem rime - B massive ms

ASSAY
AU AG 1.4 AS 35 BA BI CO 2
CU 37 FE 2.16 MO 36 PB 14 SB 10
SN ZN 186

1423 TN 6+00 TR5

TT1/3 Ridge Ridge between TT1 & ST

6+00 from MDF along ridge to east

broken bl ms
heavy fe staining & wh gossan - lots of hem rime on the fractured planes

bl ms fractfill

Specimen A

ASSAY
AU AG .6 AS 40 BA BI CO 7
CU 41 FE 4.94 MO 5 PB 12 SB 5
SN ZN 216

1653 JJ 502 TR5

Ridge 304 outcrop on ridge

25 ft so of claim posts on west ridge

5 ft chip sample from frag volc
small patch of rime with white crust & lots of heavy iron stain

MDF Volc
test MDF
specimens 3

ASSAY
AU AG <.2 AS 30 BA BI CO 4
CU 5 FE 3.75 MO 6 PB 14 SB <5
SN ZN 44

1654 JJ TR5

Ridge 304 Ridge above TT1

15 ft south of Sta 2

5' width - Upper MDF
hvy to med fe staining & some qtz

Volc - flow
test MDF
Specimen

ASSAY
AU AG <.2 AS 35 BA BI CO 5
CU 8 FE 4.07 MO 2 PB 14 SB 5
SN ZN 33

1424 TN 7A TR5

TT1/3 Ridge Saddle 2 on ridge

in Saddle 2 along from MDF along ridge to east

gray siltstone
stained white & yellow - little fe staining but minor hem rime

Si nil

low grade

ASSAY
AU AG 2.2 AS 45 BA BI CO 5
CU 27 FE 2.75 MO 13 PB 16 SB 5
SN ZN 193

1427 JJ #2 TR7

TT3 Rocktr Natural trenches above kame & w TT1

Chip sample across wall of # 2 trench

bl ms - fairly well fractured and some shearing
heavy layer of hem rime on fracture planes, with poss sulf

bl ms fractfill

Specimen

ASSAY
AU AG 1.4 AS 20 BA BI CO 2
CU 65 FE MO PB 4 SB
SN ZN 285

1428 JJ JJ#3 TR7

TT3 Rocktr Natural trenches above kame & w TT1

#3 trench wall

bl ms
heavy rime with white stain but quite variable

bl ms fracture

specimen

ASSAY

AU		AG	1.4	AS	30	BA		BI		CO	1		
CU	26	FE	1.65	MO	29	PB	16	SB	5				
SN		ZN	145										

1451 MM TR5

TT3 303 cliff at east end of Saddle 2

1st of series across structure along base of cliff

heavily fractured bl mss
heavly oxidized with much iron stain and laced with small qtz vns & graphi

Bl ms fractfill

ASSAY

AU	15	AG	1.2	AS	22	BA	60	BI	<5	CO	4
CU	43	FE	3.54	MO	12	PB	8	SB	<5		
SN	<20	ZN	371								

1454 MM TR5

TT3 303 cliff at east end of Saddle 2

4th series across structure along base of cliff

bl ms heavily sheared
mainly heavily iron stained with white staining with sm ba vn

bl ms fractfill

ASSAY

AU		AG	1.6	AS	30	BA		BI		CO	3
CU	35	FE	2.6	MO	16	PB	10	SB	5		
SN		ZN	251								

1452 MM TR5

TT3 303 cliff at east end of Saddle 2

2nd series across structure along base of cliff

sheared bl ms with graphite in plates on shear planes
heavy fe and white staining with hem in vugs in qtz vns & graphite on sh

bl ms fractfill & qtz vns

Specimen

ASSAY

AU		AG	2.2	AS	20	BA		BI		CO	8
CU	109	FE		MO		PB	<2	SB			
SN		ZN	675								

1453 MM TR5

TT3 303 cliff at east end of Saddle 2

3rd series across structure along base of cliff

mixed massive & heavily sheared and bl ms - few pieces of gray ms
leached and iron stained with some white staining and xstals - some piec

bl & gr ms fractfill

specimen

ASSAY

AU		AG	.8	AS	40	BA		BI		CO	2
CU	30	FE	3.28	MO	8	PB	10	SB	5		
SN		ZN	114								

1455 MM TR5

TT3 303 cliff at east end of Saddle 2

5th in series across base of cliff - 30 ft chip sample

heavily-sheared bl ms
heavy leaching with iron staining and some white staining

bl ms fractfill

ASSAY

AU		AG	1.2	AS	30	BA		BI		CO	3
CU	31	FE	2.71	MO	13	PB	8	SB	5		
SN		ZN	264								

1456 MM TR5

TT3 303 cliff at east end of Saddle 2

5th in series across base of cliff - 20 ft chip sample

well sheared bl ms
very heavy leaching with iron stain and some white xstals & staining -

bl ms fract & qtz veins

ASSAY

AU		AG	2.8	AS	55	BA		BI		CO	4
CU	75	FE		MO		PB	4	SB			
SN		ZN	502								

1457A MM TR5

TT3 303 cliff at east end of Saddle 2

6th in series across base of cliff - 25 ft chip sample

bl & gr ms with most well-sheared - 75% of total sample
poorly mineralized but few pieces with iron staining and little white stain

bl & gr ms nil

ASSAY

AU		AG	2.2	AS	50	BA		BI		CO	1
CU	16	FE	2.17	MO	47	PB	10	SB	15		
SN		ZN	175								

1457B MM TR5

TT3 303 cliff at east end of Saddle 2

6th in series across base of cliff - 25 ft chip sample

bl & gr ms with most well-sheared - 75% of total sample
some good quartz veins with oxidized sulf? & leached sheared ms with iron &

bl & gr ms possible?

ASSAY

AU		AG		AS		BA		BI		CO	
CU		FE		MO		PB		SB			
SN		ZN									

1458 MM TR5

TT3 talus from west side of cliff

collected from talus

mixed heavily fractured & massive bl ms
large pieces of ms with lots of rime and hematite

bl ms fractfill

Specimen

ASSAY

AU	10	AG	1.2	AS	25	BA	50	BI	<5	CO	4
CU	124	FE	6	MO	14	PB	20	SB	5		
SN	<20	ZN	337								

1459 MM TR5

TT3 talus from east side of cliff

collected from talus below cliff

broken bl ms
heavy rime & related iron staining

bl ms fractfill

ASSAY

AU	20	AG	1.4	AS	20	BA	2.5	BI	5	CO	3
CU	43	FE	4	MO	11	PB	10	SB	<5		
SN	<20	ZN	190								

1460 MM TR5

TT1 talus from east side of upper part TT1

collected from talus

bl & gr ms with moderate shearing
few pieces of leached qtz vns and some iron stained & leached

bl & gr ms

ASSAY

AU		AG	1	AS	45	BA		BI		CO	4
CU	51	FE	4.18	MO	30	PB	12	SB	10		
SN		ZN	292								

1461 MM TR5

TT1 talus from east side of upper part TT1

collected from talus a little lower than 1460

heavily sheared ms - badly leached
few pieces with little rime and some qtz vns with leached sulfides

bl ms

specimens (2)

ASSAY

AU	10	AG	2.2	AS	30	BA	60	BI	3	CO	44
CU	4	FE	20	MO	12	PB	<5	SB	<20		
SN		ZN	273								

1462 MM TR5

TT1 talus from east side of middle part TT1

top of kame bluff

25% well leached ms & remainder massive
leached to some extent with some hem rime & few qtz vns

bl ms

ASSAY

AU		AG	1.21	AS	50	BA		BI		CO	7
CU	68	FE	5.46	MO	16	PB	12	SB	5		
SN		ZN	432								

1463 TN TR4

TT7 small nunatak

near TC1 (geophysical anomaly) on upper TT7

fine gray greywacke with mod iron staining
no wh stain

gr greywacke

ASSAY

AU		AG		AS		BA		BI		CO	
CU		FE		MO		PB		SB			
SN		ZN									

1602 PP A7 TR5

TT3 302 edge of rim at ridge head TT3

specimen

med-fractured ms
good hem rime on fracture planes with much iron & white stains

bl ms fractfill

specimen

ASSAY
AU AG AS BA BI CO
CU FE MO PB SB
SN ZN

1605 PP B2 TR5

TT3 304 sm o/c east of cliff & saddle 3

spec collected from o/c

mixed gr & bl ms
mainly blank with fe stain - little min'd qtz?

bl ms qtz vn

ASSAY
AU AG AS BA BI CO
CU FE MO PB SB
SN ZN

1464 TN TR4

TT7 small nunatak

near TC1 (geophysical anomaly) on upper TT7

fine gray greywacke with mod iron staining
no wh stain

gr greywacke

ASSAY
AU AG AS BA BI CO
CU FE MO PB SB
SN ZN

1607A SM S210W TR5

Ridge East along ridge from Saddle 2

first of series in trench along crest of ridge

massive gr & bl ms with minor fracturing
white and gray gossan with some hem rime

bl & gr ms fractfill
to test heavy brown stained pieces

ASSAY
AU 10 AG 1.2 AS 34 BA 90 BI <?5 CO 2
CU 22 FE 2.8 MO 19 PB 8 SB <5
SN <20 ZN 274

1607B SM S210W TR5

Ridge East along ridge from Saddle 2

first of series in trench along crest of ridge

massive gr & bl ms with minor fracturing
white and gray gossan with some hem rime

bl & gr ms fractfill
test heavy white staining pieces

ASSAY
AU 10 AG 1.6 AS 23 BA 100 BI <5 CO 2
CU 24 FE 2.01 MO 16 PB 8 SB <5
SN <20 ZN 315

1608A SM S220W TR5

Ridge East along ridge from Saddle 2

second of series in trench along crest of ridge

massive gr & bl ms with minor fracturing
some heavy white gossan mixed with moderate iron leached gossan - smal amo

bl graph ms fracture
half sample

ASSAY
AU AG 2.2 AS 40 BA BI CO 5
CU 39 FE 2.6 MO 15 PB 8 SB 5
SN ZN 484

1608B SM S220W TR5

Ridge East along ridge from Saddle 2

third of series in trench along crest of ridge

graphitic bl ms
some heavy white gossan mixed with moderate iron leached gossan - smal amo

bl graph ms fracture
half sample

ASSAY

AU	AG	AS	BA	BI	CO	
CU	FE	MO	PB	SB		
SN	ZN					

1609A SM S230W TR5

Ridge East along ridge from Saddle 2

fourth of series in trench along crest of ridge

massive bl & gr ms with minor fracturing
moderate iron staining on fracture faces - mostly massive with light dusti

bl & gr ms
test heavy iron stained fraction
Specimen

ASSAY

AU	AG 2	AS 25	BA	BI	CO 3
CU 25	FE	MO	PB <2	SB	
SN	ZN 157				

1609B SM S2-30W TR5

Ridge East along ridge from Saddle 2

fourth of series in trench along crest of ridge

massive bl & gr ms with minor fracturing
moderate iron staining on fracture faces - mostly massive with light dusti

bl & gr ms
test white stained fraction
specimen

ASSAY

AU	AG 2.4	AS 20	BA	BI	CO 1
CU 17	FE	MO	PB 2	SB	
SN	ZN 95				

1610A SM S240 TR5

Ridge East along ridge from Saddle 2

fifth of series in trench along crest of ridge

light gray ms - porous -
heavy limonitic & white gossans - well leached - small qtz vns and some rin

gr ms
limonitic & white gossan with qtz
specimen

ASSAY
AU AG .6 AS 50 BA BI CO 5
CU 52 FE 5.27 MO 10 PB 12 SB 5
SN ZN 345

1610B SM S240 TR5

ridge East along ridge from Saddle 2

sixth of series in trench along crest of ridge

light gray ms - porous -
heavy limonitic & white gossans - well leached - small qtz vns and some rin

gr ms
test massive ms

ASSAY
AU AG 1 AS 20 BA BI CO 3
CU 36 FE MO PB 2 SB
SN ZN 180

1611A SM S250 TR5

ridge East along ridge from Saddle 2

seventh of series in trench along crest of ridge

mainly bl ms with occas. calcareous banded ms
good hem rime on some, some leaching, sheared, but generally massive - calc

bl ms
test leached fraction 20%

ASSAY
AU AG .8 AS 15 BA BI CO 3
CU 35 FE MO PB 2 SB
SN ZN 199

1612 SM S260W TR5

Ridge East along ridge from Saddle 2

eigth of series in trench along crest of ridge

bl ms massive & dull lustre
much iron stain & leaching and some white xstals & stain

bl ms

ASSAY
AU AG .6 AS 40 BA BI CO 2
CU 33 FE 3.89 MO 8 PB 10 SB 5
SN ZN 118

1616A MM TR5

TT3/5 rim of ridge near top of west peak

talus just below rim

ms with hvy leaching in some pieces, nearly sintered - well fract'd - few
few sm qtz vns with min'n - leached & min'd well

ms fractfill/q vns
Part A is well oxidized & leached with min'n?

ASSAY
AU 15 AG .8 AS 45 BA 95 BI <5 CO 5
CU 96 FE 5.9 MO 32 PB 22 SB <5
SN <20 ZN 500

1616B MM TR5

TT3/5 rim of ridge near top of west peak

talus just below rim

ms with hvy leaching in some pieces, nearly sintered - well fract'd - few
few sm qtz vns with min'n - leached & min'd well

ms fractfill/q vns
part B of two - more massive specs with less fe stain

ASSAY
AU 5 AG .4 AS 13 BA 130 BI <5 CO 2
CU 27 FE 3.5 MO 6 PB 12 SB <5
SN <20 ZN 142

1611B SM S250 TR5

ridge East along ridge from Saddle 2

seventh of series in trench along crest of ridge

mainly bl ms with occas. calcareous banded ms
good hem rime on some, some leaching, sheared, but generally massive - ca

bl ms
test massive ms about 50%

ASSAY
AU AG AS BA BI CO
CU FE MO PB SB
SN ZN

1613 SM S260W TR5

Ridge East along ridge from Saddle 2

ninth of series in trench along crest of ridge

bl ms massive & dull lustre
little leaching

bl ms

ASSAY
AU AG AS BA BI CO
CU FE MO PB SB
SN ZN

1652 JJ 501 TR5

TT1 304 hump west of saddle 1

across 10' of MDF

frag flow or tuff -
some qtz with silver sulf & patches of f gr py - weathered and leached wi

MDF

ASSAY
AU AG <.2 AS 30 BA BI CO 3
CU 5 FE 3.85 MO 4 PB 16 SB <5
SN ZN 36

1657 JJ DT6 TR4

DT6 hdwtr above snowfield

o/c

ms with vugs & br staining - sheen on fract & med/hvy frat'g-
well fe stained with lotsof colours & ms is br stained & no wh stain

ms ?

ASSAY
AU AG <.2 AS 30 BA BI CO 3
CU 18 FE 4.24 MO 1 PB 10 SB 5
SN ZN 51

1659 JJ TR4

DT6 o/c 300'<summit of cirque

about 300 ft below summit in creek side

med fractured ms
fe stained fract with good rime - no wh stain

ms fractfill

ASSAY
AU AG AS BA BI CO
CU FE MO PB SB
SN ZN

1661 JJ TR5

TT3 talus talus above natural trenches

talus

hvy fractured ms
hvy oxid'n with lots of wh stain & some heavy hem rime

ms fractfill

ASSAY
AU AG 1 AS 65 BA BI CO 13
CU 87 FE 6.02 MO 10 PB 6 SB 10
SN ZN 725

1662B JJ TR5

TT3 talus talus>nat trenches

talus from cliff east of saddle 2

agglomerate of ms cemented with fe rime -
fine gr hem & thin bands of sph?-

ms
second part of two - kept for study specimens

ASSAY

AU	AG	AS	BA	BI	CO
CU	FE	MO	PB	SB	
SN	ZN				

1663A JJ TR5

TT3 talus talus below cliff

talus below cliff 303

mostly hvy fract'd ms
heavy hem rime on fracture planes with some pieces very highly leached

ms fractfill
part A of two -

ASSAY

AU	AG .6	AS 30	BA	BI	CO 6
CU 67	FE	MO	PB <2	SB	
SN	ZN 371				

1663B JJ TR5

TT3 talus talus below cliff

talus below cliff 303

mostly hvy fract'd ms
heavy hem rime on fracture planes with some pieces very highly leached

ms fractfill
part B of two - saved for study

ASSAY

AU	AG	AS	BA	BI	CO
CU	FE	MO	PB	SB	
SN	ZN				

1664 JJ 301 TR5

TT3 301 small but prom knob 30'x50'

in mid cirque below cliff

mix of sheared & mass ms -
very heavy leaching & oxidization with much limonite staining

ms fractfill
test - selected mat
specimen

ASSAY

AU	5	AG	2.4	AS	35	BA	120	BI	<5	CO	2
CU	34	FE	4.2	MO	18	PB	12	SB	5		
SN	<20	ZN	382								

APPENDIX IV

ASSAY CERTIFICATES
1991 SAMPLING PROGRAM

ECO-TECH LABORATORIES LTD.
ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

MILLAR WESTERN ENGINEERING LTD.
P.O. BOX 460
CLEARWATER, B.C.
V0E 1N0

JUNE 9, 1992

ANALYTICAL RESULTS ETK 92-212

ATTENTION: J. MILLAR

SAMPLE IDENTIFICATION: 37 ROCK samples received JUNE 1, 1992
--------------------PROJECT: TC. 91

VALUES IN PPM UNLESS OTHERWISE REPORTED

ET#	Description	AG	AS (%)	CO	CU	PB	ZN
1 -	1271- A	1.0	70	13	115	16	1513
2 -	1271- B	1.2	15	2	9	<2	445
3 -	1271- C	1.6	25	<1	16	6	54
4 -	1271- D	.6	15	2	7	2	501
5 -	1271- E	<.2	70	35	119	6	1445
6 -	1274	<.2	25	9	35	6	108
7 -	1277- 1	.8	25	15	87	6	1814
8 -	1277- 2	1.4	25	4	38	2	716
9 -	1277- 3	1.4	30	7	99	2	2116
10-	1277- 4	1.0	30	6	69	2	1627
11-	1277- 5	1.8	40	7	76	4	1237
12-	1279	<.2	10	16	49	6	133
13-	1284	.2	35	16	32	14	92
14-	1285	1.4	20	1	14	2	161
15-	1286	<.2	15	6	31	6	99
16-	1288	<.2	35	13	257	<2	661
17-	1291	1.4	40	3	43	<2	435
18-	1294	<.2	5	8	31	<2	104
19-	1295 A	1.8	20	<1	19	10	67
20-	1295 B	<.2	40	17	255	<2	684
21-	1296 A	<.2	25	5	39	<2	235
22-	1296 C	.4	5	8	29	2	78
23-	1297	.2	<5	11	14	2	36
24-	1298	.8	20	7	44	<2	179
25-	1421	1.2	10	4	36	<2	140
26-	1422	2.0	15	6	44	<2	290

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PHONE - 573 -5700
FAX - 573-4557

MILLAR WESTERN ENGINEERING ETK 91-881
BOX 460
CLEARWATER, B.C.
V0E 1N0

NOVEMBER 22, 1991

SAMPLE IDENTIFICATION: 22 ROCK SAMPLES RECEIVED NOVEMBER 6,1991
PROJECT: NONE GIVEN

VALUES IN PPM UNLESS OTHERWISE REPORTED

ET#	Description	AG	AS	CD	CO	CU	FE (%)	MN	MO (%)	NI	PB	SB	ZN
1 -	1417	<.2	30	<1	6	30	4.34	462	<1	37	40	5	162
2 -	1420	1.0	35	<1	4	34	3.49	97	4	4	60	5	132
3 -	1423	.6	40	<1	7	41	4.94	269	5	11	12	5	216
4 -	1424	2.2	45	1	5	27	2.75	136	13	13	16	5	193
5 -	1426	1.4	35	1	2	37	2.16	91	36	16	14	10	186
6 -	1428	1.4	30	2	1	26	1.65	67	29	12	16	5	145
7 -	1453	.8	40	<1	2	30	3.28	62	8	6	10	5	114
8 -	1454	1.6	30	4	3	35	2.6	297	16	13	10	5	251
9 -	1455	1.2	30	4	3	31	2.71	344	13	12	8	5	264
10-	1457A	2.2	50	<1	1	16	2.17	30	47	15	10	15	175
11-	1460	1.0	45	1	4	51	4.18	138	30	22	12	10	292
12-	1462	1.2	50	2	7	68	5.46	364	16	25	12	5	432
13-	1608A	2.2	40	10	5	39	2.6	433	15	31	8	5	484
14-	1610A	.6	50	<1	5	52	5.27	146	10	15	12	5	345
15-	1612A	.6	40	<1	2	33	3.89	61	8	5	10	5	118
16-	1615	.8	25	<1	2	21	2.18	70	5	5	10	<5	105
17-	1652	<.2	30	<1	3	5	3.85	142	4	1	16	<5	36
18-	1653	<.2	30	<1	4	5	3.75	221	6	4	14	<5	44
19-	1654	<.2	35	<1	5	8	4.07	157	2	<1	14	5	33
20-	1657	<.2	30	<1	3	18	4.24	1291	1	24	10	5	51
21-	1661	1.0	65	19	13	87	6.02	742	10	32	6	10	725
22-	1662	<.2	120	<1	11	216	>15	33	7	7	16	<5	313

NOTE:< = LESS THAN

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FAX - 573-4557

MILLAR WESTERN ENGINEERING ETK 91-744
BOX 460
CLEARWATER, B.C.
V0E 1N0

SEPTEMBER 24, 1991

SAMPLE IDENTIFICATION: 19 ROCK SAMPLES RECEIVED SEPTEMB
PROJECT: NONE GIVEN

VALUES IN PPM UNLESS OTHERWISE REPORTED

ET#	Description		AU (ppb)	AG	AS	BA	BI	CO	CU	FE (%)	MO	PB	SB	SN	ZN
1 -	1267	SO/ST	10	.2	24	55	<5	2	3	3.81	2	20	<5	<20	87
2 -	1270.1	NO/ST	5	1.8	39	105	<5	4	62	5.14	24	16	5	<20	942
3 -	1270.2	NO/ST	10	1.2	28	75	<5	1	19	2.32	19	10	<5	<20	343
4 -	1270.3	NO/ST	10	1.8	52	110	<5	7	55	5.66	28	22	<5	<20	866
5 -	1272	'D'ST	5	1.0	30	20	<5	10	56	4.27	12	12	5	<20	290
6 -	1273.A	'D'/ST	15	.2	9	80	<5	24	31	5.51	3	8	5	<20	286
7 -	1275	SO/ST	10	.2	12	20	<5	12	54	4.08	18	8	5	<20	224
8 -	1276	SO/ST	10	.2	17	20	<5	8	42	3.44	18	8	<5	<20	104
9 -	1293	CLIFF-TOP	5	.6	3	70	<5	4	4	1.67	13	6	<5	<20	27
10-	1418	TRENCH /TT3	5	2.4	36	130	<5	[illegible]	51	4.35	26	14	5	[illegible]	414
11-	1419	TRENCH /TT3	5	1.8	22	100	<5	2	35	2.93	37	6	5	<20	269
12-	1451	CLIFF BASE	15	1.2	22	60	<5	4	43	3.54	12	8	<5	<20	371
13-	1458	TALUS - UPPER TT3	10	1.2	25	50	<5	4	124	5.91	14	20	5	<20	337
14-	1459	TALUS - UPPER TT3	20	1.4	20	85	5	3	43	4.38	11	10	5	<20	190
15-	1461	UPPER TT1	10	2.2	30	60	<5	3	44	4.23	20	12	<5	<20	273
16-	1607.A	CLIFF TOP	10	1.2	34	90	<5	2	22	2.80	19	8	<5	<20	274
17-	1607.B	CLIFF TOP	10	1.6	23	100	<5	2	24	2.01	16	8	<5	<20	315
18-	1616.A	FAR EAST RIDGE	15	.8	45	95	<5	5	96	5.90	32	22	<5	<20	500
19-	1616.B	FAR EAST RIDGE	5	.4	13	130	<5	2	27	3.46	6	12	<5	<20	142

NOTE: < = LESS THAN

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MYERS WESTERN ENGINEERING ETK 91-690
BOX 460
CLEARWATER, B.C.
V0E 1N0

SEPTEMBER 5, 1991

SAMPLE IDENTIFICATION: 21 ROCK SAMPLES RECEIVED AUGUST 23,1991
PROJECT: NONE GIVEN

ET#	Description	AU (ppb)	AG (ppb)	AS (ppb)	BA (ppb)	BI (ppb)	CO (ppb)	CU (ppb)	FE (%)	MO (ppb)	PB (ppb)	SB (ppb)	SN (ppb)	ZN (ppb)
1 -	1255	10	1.6	45	140	<5	8	75	6.06	15	16	5	<20	542
2 -	1256	5	1.4	20	130	<5	1	32	3.43	39	8	5	<20	366
3 -	1257	35	1.8	45	260	<5	3	45	4.56	22	10	10	<20	430
4 -	1258	5	2.0	40	105	<5	4	40	5.25	14	10	5	<20	324
5 -	1259	5	1.4	25	80	<5	6	70	9.05	16	14	<5	<20	518
6 -	1260	10	1.0	35	60	<5	4	27	6.40	13	8	5	<20	329
7 -	1261	5	1.2	30	60	<5	11	48	5.59	9	8	10	<20	412
8 -	1262	5	2.2	45	90	<5	16	62	7.13	29	16	10	<20	903
9 -	1263	30	.6	25	95	<5	12	79	7.77	14	14	5	<20	871
10-	1264	5	2.4	35	120	<5	2	34	4.20	18	12	5	<20	382
11-	1264 A	5	1.2	25	115	<5	6	66	5.05	18	12	<5	<20	375
12-	1264 B	5	.8	15	130	<5	1	29	3.20	15	6	5	<20	141
13-	1265	5	.6	20	100	<5	4	92	9.24	9	14	<5	<20	506
14-	1266	5	1.0	15	125	<5	4	64	5.32	12	10	5	<20	334
15-	1280	30	.6	85	15	<5	4	15	6.92	5	70	<5	<20	53
16-	1281	10	.4	135	35	<5	31	51	7.18	2	40	5	<20	128
17-	1283	5	<.2	15	150	<5	4	38	3.17	14	12	<5	<20	424
18-	1290	5	1.0	35	95	<5	8	48	4.03	19	10	5	<20	163
19-	1292	5	1.2	25	85	<5	2	40	4.46	10	10	<5	<20	174
20-	S1	5	.4	20	95	<5	24	57	5.13	4	8	10	<20	177
21-	S3	5	.4	20	85	<5	15	58	5.25	5	6	15	<20	182

NOTE: < = LESS THAN

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ET#	Description		AU (ppb)	AG	AS	BA	BI	CO	CU	FE (%)	MO	PB	SB	SN	ZN
26-	TT 7	S- 2	5	.2	15	85	<5	21	43	4.55	2	26	<5	<20	222
27-	TT 7	S- 3	10	.4	25	95	<5	23	48	4.55	5	22	<5	<20	199
28-	TT 7	S- 4	10	.2	45	125	<5	26	48	5.29	4	30	<5	<20	199
29-	TT 7	S- 5	5	.4	50	90	<5	19	44	4.77	2	22	5	<20	184
30-	TT 7	S- 6	<5	.2	15	70	<5	16	37	3.67	2	10	<5	<20	102
31	-TT 7	S- 7	<5	<.2	10	115	<5	16	36	3.59	1	18	10	<20	141
32-	TT 7	S- 8	<5	.2	10	70	<5	15	33	3.28	3	10	5	<20	92
33	-TT 7	S- 9	<5	<.2	5	90	<5	17	39	3.66	3	16	5	<20	131
34-	TT 7	S- 10	5	.2	15	65	<5	15	33	3.51	2	12	5	<20	99
35-	S -5	TAG # 1660	<5	.2	10	65	<5	22	38	3.44	2	12	10	<20	99

NOTE:< = LESS THAN

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MILLAR WESTERN ENGINEERING ETK 91-697
BOX 460
CLEARWATER, B.C.
V0E 1N0

COPY

SEPTEMBER 5, 1991

R E V I S E D

SAMPLE IDENTIFICATION: 35 SILT SAMPLES RECEIVED AUGUST 23,1991
PROJECT: NONE GIVEN

VALUES IN PPM UNLESS OTHERWISE REPORTED

ET#	Description		AU (ppb)	AG	AS	BA	BI	CO	CU	FE (%)	MO	PB	SB	SN	ZN
1 -	DT 5	S- 1	<5	.6	25	95	<5	50	96	5.36	4	14	5	<20	205
2 -	DT 5	S- 2	<5	1.2	40	115	<5	88	131	6.87	10	14	10	<20	327
3 -	DT 5	S- 3	<5	.4	20	85	<5	43	84	5.29	7	14	5	<20	232
4 -	DT 5	S- 4	<5	.4	15	80	<5	34	76	5.09	2	12	10	<20	191
5 -	DT 5	S- 5	10	.6	20	75	<5	37	77	5.40	4	14	<5	<20	184
6 -	DT 5	S- 6	<5	.6	15	75	<5	40	78	4.88	4	20	5	<20	179
7 -	DT 5	S- 7	<5	.4	20	105	<5	40	52	4.33	5	22	10	<20	127
8 -	DT 6- 7	S- 1	5	.6	15	35	<5	9	30	3.77	5	8	5	<20	109
9 -	DT 6- 7	S- 2	10	1.0	15	30	<5	25	32	3.94	5	12	10	<20	96
10-	DT 7	S- 1	10	2.0	35	255	<5	132	140	8.08	6	14	5	<20	331
11-	DT 7	S- 2	10	2.0	40	275	<5	107	145	8.33	7	28	10	<20	477
12-	DT 7	S- 3	<5	4.0	60	390	<5	195	199	9.40	13	28	20	<20	650
13-	DT 7	S- 4	10	1.8	40	215	<5	126	136	8.43	8	36	10	<20	441
14-	DT 7	S- 5	10	2.0	45	230	<5	153	167	9.03	10	30	15	<20	451
15-	DT 7	S- 6	10	2.2	45	290	<5	117	140	8.83	11	24	10	<20	491
16-	DT 7	S- 7	<5	1.4	25	225	<5	111	121	7.07	8	34	10	<20	330
17-	DT 7	S- 8	10	1.6	30	325	<5	151	108	8.58	4	38	5	<20	353
18-	DT 7	S- 9	5	1.2	30	160	<5	118	95	7.10	3	38	15	<20	289
19-	TT 1	S- 1	<5	2.8	120	135	<5	26	188	11.11	72	26	5	<20	2108
20-	TT 1	S- 2	5	5.2	115	160	<5	14	107	9.98	63	36	15	<20	1204
21-	TT 1	S- 3	<5	1.8	60	130	<5	21	103	8.45	29	24	15	<20	1666
22-	TT 3	S- 1	<5	3.2	125	170	<5	42	181	9.43	104	36	20	<20	3369
23-	TT 3	S- 2	5	2.6	180	165	<5	34	120	8.01	122	44	35	<20	1665
24-	TT 3	S- 3	<5	3.2	135	170	<5	45	165	8.26	60	36	40	<20	2887
25-	TT 7	S- 1	<5	.2	20	85	<5	22	51	4.49	4	26	<5	<20	233

ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING
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PAGE TWO MILLAR WESTERN ENGINEERING LTD. ETK 92-212 JUNE 9, 1992

ET#	Description	AG	AS (%)	CO	CU	PB	ZN
27-	1425	3.0	20	5	50	2	430
28-	1427	1.4	20	2	65	4	285
29-	1452	2.2	20	8	109	<2	675
30-	1456	2.8	55	4	75	4	502
31-	1609 A	2.0	25	2	25	<2	157
32-	1609 B	2.4	20	1	17	2	95
33-	1610 B	1.0	20	3	36	2	180
34-	1611 A	.8	15	3	35	2	199
35-	1614 A	1.4	10	2	32	<2	147
36-	1617	.4	15	6	43	2	126
37-	1663 A	.6	30	6	67	<2	371

QC DATA
========

		AG	AS	CO	CU	PB	ZN
GEO STD		1.2	45	19	77	12	63
REPEAT #							
-	1277-2	1.4	15	4	37	<2	673
	1610 B	1.0	20	3	36	2	180

NOTE: < = LESS THAN

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ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti,
Certified Assayer

APPENDIX V

LIST OF ANOMALIES IN TREATY GROUP SAMPLES

LIST OF ANOMALIES - BASED ON CATEGORIES SET BY 1992 ANALYSI

GUIDE TO ABBREVIATIONS -

NO	Sample number from field	
YR	Year of sampling	
MAT	Material	
SPR	Sampler name	
CL	Claim	
TOPO	Rough idea of topographic loc'n n or drainage	
GEO	Underlying geology	
	SR	Salmon River
	BC	Betty Creek
	D	Mount Dilworth
	SR/D	Contact zone - Salmon River & Dilworth

SORTED BY YEAR, MATERIAL, CLAIM, SAMPLER, SAMPLE NUMBER
RANGES FOR ANOMALIES ARE GIVEN IN THE TEXT - ADDITION OF AN * INDICATES
A VALUE ONLY SLIGHTLY BELOW THE INDICATED ANOMALOUS CATEGORY

NO	YR	MAT	SPR	CL	TOPO	GEO	AU	AG	CU	PB	ZN	SB	AS	HG	BA
01	87	FL	?	T37	TL	SR			C	A	C*	C			A
01	87	RX	?	T2	------------										
01	87	RX	?	T2	------------										
04	87	RX	?	T3	TL	TL									
01	87	RX	?	T4	------------										
01	87	RX	?	T5	MTN	D									
02	87	RX	?	T5	MTN	D/BC							B*		
03	87	RX	?	T5	MTN	D/BC									
04	87	RX	?	T5	MTN	D/BC									
08	87	RX	?	T5	TC	SR/D						B			
05	87	RX	?	T57	TT1	D									
06	87	RX	?	T57	TT1	SR/D									
07	87	RX	?	T57	TT1	SR/D									
01	87	RX	?	T6	TC	SR									
01	87	RX	?	T7	TLT6	SR							A		
02	87	RX	?	T7	MTN	D							C		
02	87	RX	?	T7	TLT6	SR									
05	87	RX	?	T7	TLT6	SR									
06	87	RX	?	T7	TLT6	SR								C*	
08	87	RX	?	T7	TT4	SR/D									
09	87	RX	?	T7	TT4	SR/D									
10	87	RX	?	T7	TC	SR/D									
11	87	RX	?	T7	TC	SR									
01	87	SI	?	T3	------------									C	
02	87	SI	?	T3	------------										
03	87	SI	?	T3	------------										
04	87	SI	?	T3	------------										
07	87	SI	?	T3	------------										
01	87	SI	?	T4	DT3	SR	A								
02	87	SI	?	T4	DT4	SR								C*	
03	87	SI	?	T4	DC	SR									
04	87	SI	?	T4	DT5	SR									
05	87	SI	?	T4	DT6	SR									
01	87	SI	?	T5	DT7	SR/D					C	C			
02	87	SI	?	T5	?	D?									
03	87	SI	?	T5	?	D?								C	
04	87	SI	?	T5	?	D?									
05	87	SI	?	T5	TT1	SR/D					C	C			
06	87	SI	?	T5	TC	SR/D									
01	87	SI	?	T6	TC	SR									
02	87	SI	?	T6	TC	SR									
03	87	SI	?	T6	TT9	SR									
04	87	SI	?	T6	TT9	SR									
05	87	SI	?	T6	TC	SR									
06	87	SI	?	T6	TC	SR									
03	87	SI	?	T7	TL6	SR									
04	87	SI	?	T7	TT4	SR	A	C							
05	87	SI	?	T7	TT4	SR				C*					
06	87	SI	?	T76	TT7	SR									
56	88	FL	DL	T7	TC	D/BC	A	C	B	A	C	A	C		
66	88	FL	DL	T7	TC	D/BC									

67	88	FL	DL	T7	TC	D/BC							
68	88	FL	DL	T7	TC	D/BC	A	B	A	A	C	A	A
72	88	FL	DL	T7	TC	D/BC	B						C
73	88	FL	DL	T7	TC	D/BC	A	C					
74	88	FL	DL	T7	TC	D/BC	A	C					A
01	88	RX	KK	T4	MTN	SR							
02	88	RX	KK	T4	MTN	SR							
03	88	RX	KK	T4	MTN	SR							
04	88	RX	KK	T4	MTN	SR							
05	88	RX	KK	T4	MTN	SR							
06	88	RX	KK	T4	MTN	SR							
07	88	RX	KK	T4	MTN	SR							
112	88	RX	DL	T7	TC	D/BC							
117	88	RX	DL	T7	TC	D/BC							
109	88	SI	AH	T4	DT5	SR							
110	88	SI	AH	T4	DT5	SR							
111	88	SI	AH	T4	DT5	SR							
112	88	SI	AH	T4	DT5	SR							
113	88	SI	AH	T4	DT5	SR							
114	88	SI	AH	T4	DT5	SR							
115	88	SI	AH	T4	DT5	SR							
116	88	SI	AH	T4	DT5	SR							
117	88	SI	AH	T4	DT5	SR							
118	88	SI	AH	T4	DT5	SR							
119	88	SI	AH	T4	DT5	SR							
120	88	SI	AH	T4	DT5	SR							
121	88	SI	AH	T4	DT5	SR							
122	88	SI	AH	T4	DT5	SR							
123	88	SI	AH	T4	DT5	SR							
124	88	SI	AH	T4	DT5	SR							
125	88	SI	AH	T4	DT5	SR							
126	88	SI	AH	T4	DT5	SR							
127	88	SI	AH	T4	DT5	SR							
128	88	SI	AH	T4	DT5	SR							
129	88	SI	AH	T4	DT5	SR							
01	88	SI	AJ	T4	DT3	SR							
02	88	SI	AJ	T4	DT3	SR							
03	88	SI	AJ	T4	DT3	SR							
04	88	SI	AJ	T4	DT3	SR							
05	88	SI	AJ	T4	DT3	SR							
06	88	SI	AJ	T4	DT3	SR							
07	88	SI	AJ	T4	DT3	SR							
08	88	SI	AJ	T4	DT3	SR							
09	88	SI	AJ	T4	DT3	SR							
10	88	SI	AJ	T4	DT3	SR							
11	88	SI	AJ	T4	DT3	SR							
12	88	SI	AJ	T4	DT3	SR							
100	88	SI	DL	T4	DT6	SR							
101	88	SI	DL	T4	DT6	SR							
102	88	SI	DL	T4	DT6	SR							
103	88	SI	DL	T4	DT6	SR							
104	88	SI	DL	T4	DT6	SR							
105	88	SI	DL	T4	DT6	SR							
106	88	SI	DL	T4	DT6	SR							
107	88	SI	DL	T4	DT6	SR							
108	88	SI	DL	T4	DT6	SR							
109	88	SI	DL	T4	DT6	SR							
110	88	SI	DL	T4	DT6	SR							
111	88	SI	DL	T4	DT6	SR							
113	88	SI	DL	T4	DT4	SR							
114	88	SI	DL	T4	DT4	SR							
115	88	SI	DL	T4	DT4	SR							
116	88	SI	DL	T4	DT4	SR							
118	88	SI	DL	T4	DT4	SR							
119	88	SI	DL	T4	DT4	SR							
120	88	SI	DL	T4	DT4	SR							
121	88	SI	DL	T4	DT4	SR							
122	88	SI	DL	T4	DT4	SR							
123	88	SI	DL	T4	DT4	SR							
124	88	SI	DL	T4	DT2	SR							
125	88	SI	DL	T4	DT2	SR							
126	88	SI	DL	T4	DT2	SR							

127	88	SI	DL	T4	DT2	SR						
128	88	SI	DL	T4	DT2	SR						
129	88	SI	DL	T4	DT2	SR						
130	88	SI	DL	T4	DT1	SR						
131	88	SI	DL	T4	DT1	SR						
132	88	SI	DL	T4	DT1	SR						
133	88	SI	DL	T4	DT1	SR						
134	88	SI	DL	T4	DT1	SR						
92	88	SI	DL	T4	DT6	SR						
93	88	SI	DL	T4	DT6	SR						
94	88	SI	DL	T4	DT6	SR						
95	88	SI	DL	T4	DT6	SR						
96	88	SI	DL	T4	DT6	SR						
97	88	SI	DL	T4	DT6	SR						
98	88	SI	DL	T4	DT6	SR						
99	88	SI	DL	T4	DT6	SR						
34	88	SI	AH	T6	TC	SR						
35	88	SI	AH	T6	TC	SR			C		C	
36	88	SI	AH	T6	TC	SR						
37	88	SI	AH	T6	TC	SR	C		C		C	
38	88	SI	AH	T6	TC	SR			C		C*	C*
39	88	SI	AH	T6	TC	SR	B				C*	
40	88	SI	AH	T6	TC	SR	C*	A	C		C	
01	88	SI	AH	T7	TT2	SR/D						
02	88	SI	AH	T7	TT2	SR/D						
03	88	SI	AH	T7	TT2	SR/D			C			
04	88	SI	AH	T7	TT2	SR/D						
05	88	SI	AH	T7	TT2	SR/D						
06	88	SI	AH	T7	TT2	SR/D						
07	88	SI	AH	T7	TT2	SR/D						
08	88	SI	AH	T7	TT2	SR/D						
09	88	SI	AH	T7	TT2	SR/D						
10	88	SI	AH	T7	TT2	SR/D						
11	88	SI	AH	T7	TT2	SR/D						
12	88	SI	AH	T7	TT2	SR/D			C*			
13	88	SI	AH	T7	TT2	SR/D						
14	88	SI	AH	T7	TT2	SR/D						
15	88	SI	AH	T7	TT2	SR/D						
16	88	SI	AH	T7	TT2	SR/D						
17	88	SI	AH	T7	TT2	SR/D			A			
18	88	SI	AH	T7	TT2	SR/D						
19	88	SI	AH	T7	TT2	SR/D						
20	88	SI	AH	T7	TT2	SR/D						
21	88	SI	AH	T7	TT2	SR/D	C		C			
22	88	SI	AH	T7	TT2	SR/D						
23	88	SI	AH	T7	TT2	SR/D			C*			
24	88	SI	AH	T7	TT2	SR/D						
25	88	SI	AH	T7	TC	SR/D	A		B*	C*	A	C*
26	88	SI	AH	T7	TC	SR/D	A		B*	C*	B*	C*
27	88	SI	AH	T7	TT6	SR	B		C	C*	A	
28	88	SI	AH	T7	TT6	SR	C		A*	C*	A	C*
29	88	SI	AH	T7	TT6	SR	A		C		C	C*
30	88	SI	AH	T7	TT6	SR						
31	88	SI	AH	T7	TT6	SR						
32	88	SI	AH	T7	TT6	SR						
33	88	SI	AH	T7	TT6	SR						
41	88	SI	AH	T7	TL6	SR						
42	88	SI	AH	T7	TL6	SR						
43	88	SI	AH	T7	TL6	SR						
44	88	SI	AH	T7	TL6	SR	C*					
45	88	SI	AH	T7	TL6	SR						
46	88	SI	AH	T7	TL6	SR						
47	88	SI	AH	T7	TL6	SR						
48	88	SI	AH	T7	TL6	SR						
49	88	SI	AH	T7	TL6	SR						
50	88	SI	AH	T7	TL6	SR						
51	88	SI	AH	T7	TL6	SR						
52	88	SI	AH	T7	TL6	SR						
53	88	SI	AH	T7	TL6	SR						
54	88	SI	AH	T7	TL6	SR						
55	88	SI	AH	T7	TL6	SR						
56	88	SI	AH	T7	TL6	SR						

57	88	SI	AH	T7	TL6	SR					
58	88	SI	AH	T7	TL6	SR					
59	88	SI	AH	T7	TL6	SR					
135	88	SI	DL	T7	TT4	SR/D					
136	88	SI	DL	T7	TT4	SR/D					
137	88	SI	DL	T7	TT4	SR/D					
138	88	SI	DL	T7	TT4	SR/D					
139	88	SI	DL	T7	TT4	SR/D					
140	88	SI	DL	T7	TT4	SR/D					
141	88	SI	DL	T7	TT4	SR/D					
142	88	SI	DL	T7	TT4	SR/D					
143	88	SI	DL	T7	TT4	SR/D					
144	88	SI	DL	T7	TT4	SR/D					
145	88	SI	DL	T7	TT4	SR/D					
146	88	SI	DL	T7	TT4	SR/D					
147	88	SI	DL	T7	TT4	SR/D					
148	88	SI	DL	T7	TT4	SR/D					
149	88	SI	DL	T7	TT4	SR/D					
150	88	SI	DL	T7	TT4	SR/D					
151	88	SI	DL	T7	TT4	SR/D					
152	88	SI	DL	T7	TT4	SR/D					
153	88	SI	DL	T7	TT4	SR/D					
154	88	SI	DL	T7	TT4	SR/D					
155	88	SI	DL	T7	TT4	SR/D					
156	88	SI	DL	T7	TT4	SR/D					
157	88	SI	DL	T7	TT4	SR/D					
158	88	SI	DL	T7	TT4	SR/D					
159	88	SI	DL	T7	TT4	SR/D					
160	88	SI	DL	T7	TT4	SR/D					
161	88	SI	DL	T7	TT4	SR/D					
162	88	SI	DL	T7	TT4	SR/D					
163	88	SI	DL	T7	TT4	SR/D					
164	88	SI	DL	T7	TT4	SR/D					
165	88	SI	DL	T7	TT4	SR/D					
166	88	SI	DL	T7	TT4	SR/D					
167	88	SI	DL	T7	TT4	SR/D					
168	88	SI	DL	T7	TT4	SR/D					
169	88	SI	DL	T7	TT4	SR/D					
170	88	SI	DL	T7	TT4	SR/D					
171	88	SI	DL	T7	TT4	SR/D					
172	88	SI	DL	T7	TT4	SR/D					
40	88	SI	DL	T7	TC	SR/D	C	C	C*	A	
41	88	SI	DL	T7	TC	SR/D	C	C	C*	C	C*
42	88	SI	DL	T7	TC	SR/D	B	C			C*
43	88	SI	DL	T7	TT3	SR					
44	88	SI	DL	T7	TT3	SR					
45	88	SI	DL	T7	TT3	SR					
46	88	SI	DL	T7	TT3	SR					
47	88	SI	DL	T7	TT3	SR			A*		
48	88	SI	DL	T7	TT3	SR					
49	88	SI	DL	T7	TT3	SR					
50	88	SI	DL	T7	TT3	SR					
51	88	SI	DL	T7	TT3	SR					
52	88	SI	DL	T7	TT3	SR					
53	88	SI	DL	T7	TT3	SR	C*				
54	88	SI	DL	T7	TT3	SR					
57	88	SI	DL	T7	TT3	SR					
58	88	SI	DL	T7	TT3	SR					
59	88	SI	DL	T7	TT3	SR					
60	88	SI	DL	T7	TT3	SR					
61	88	SI	DL	T7	TT3	SR					
62	88	SI	DL	T7	TT3	SR					
63	88	SI	DL	T7	TT3	SR					
64	88	SI	DL	T7	TT3	SR					
65	88	SI	DL	T7	TT3	SR					
69	88	SI	DL	T7	TT3	SR				A	
70	88	SI	DL	T7	TT3	SR					
71	88	SI	DL	T7	TT3	SR					
75	88	SI	DL	T7	TL6	SR					B
76	88	SI	DL	T7	TL6	SR					
77	88	SI	DL	T7	TL6	SR					
78	88	SI	DL	T7	TL6	SR					

79	88	SI	DL	T7	TL6	SR	B				
80	88	SI	DL	T7	TL6	SR					
81	88	SI	DL	T7	TL6	SR					
82	88	SI	DL	T7	TL6	SR					
83	88	SI	DL	T7	TL6	SR					
84	88	SI	DL	T7	TL6	SR					
85	88	SI	DL	T7	TL6	SR					
86	88	SI	DL	T7	TL6	SR					
87	88	SI	DL	T7	TL6	SR					
88	88	SI	DL	T7	TL6	SR					
89	88	SI	DL	T7	TL6	SR					
90	88	SI	DL	T7	TL6	SR					
91	88	SI	DL	T7	TL6	SR					
01	88	SI	JP	T7	TT5	SR					C
02	88	SI	JP	T7	TT5	SR					
03	88	SI	JP	T7	TT5	SR					
04	88	SI	JP	T7	TT5	SR					
05	88	SI	JP	T7	TT5	SR					
06	88	SI	JP	T7	TT5	SR					
07	88	SI	JP	T7	TT5	SR					
08	88	SI	JP	T7	TT5	SR					
09	88	SI	JP	T7	TT5	SR					
10	88	SI	JP	T7	TT5	SR					
11	88	SI	JP	T7	TT5	SR					
12	88	SI	JP	T7	TT5	SR					
13	88	SI	JP	T7	TT5	SR					
14	88	SI	JP	T7	TT5	SR					
15	88	SI	JP	T7	TT5	SR					
16	88	SI	JP	T7	TT5	SR					
17	88	SI	JP	T7	TT5	SR					
130	88	SI	AH	?	?	?					
1	90	RK	EK	T45	MTN	SR					
10	90	RX	EK	T45	MTN	SR					
11	90	RX	EK	T45	MTN	SR					
12	90	RX	EK	T45	MTN	SR					
2	90	RX	EK	T45	MTN	SR					
3	90	RX	EK	T45	MTN	SR					
4	90	RX	EK	T45	MTN	SR					
5	90	RX	EK	T45	MTN	SR					
6	90	RX	EK	T45	MTN	SR					
7	90	RX	EK	T45	MTN	SR					
8	90	RX	EK	T45	MTN	SR					
9	90	RX	EK	T45	MTN	SR					
13	90	RX	EK	T7	MTN	SR/D					
14	90	RX	EK	T7	MTN	SR/D					
15	90	RX	EK	T7	MTN	SR/D					
16	90	RX	EK	T7	MTN	SR/D					
17	90	RX	EK	T7	MTN	SR/D					
18	90	RX	EK	T7	MTN	SR/D		A	B*		
11	90	RX	PA	T7	TT6B	D/SR					
12	90	RX	PA	T7	TT6B	D/SR					
13	90	RX	PA	T7	TT6B	D/SR	A	C	C		
14	90	RX	PA	T7	TT6B	D/SR					
15	90	RX	PA	T7	TT6B	D/SR					
16	90	RX	PA	T7	TT6B	D/SR					
17	90	RX	PA	T7	TT6B	D/SR			A		
18	90	RX	PA	T7	TT6B	D/SR					
19	90	RX	PA	T7	MTN	D/SR					
20	90	RX	PA	T7	MTN	D/SR					
21	90	RX	PA	T7	MTN	D/SR					
22	90	RX	PA	T7	MTN	D/SR					
19	90	RX	EK	?	?	?					
20	90	RX	EK	?	?	?					
21	90	RX	EK	?	?	?		C			
22	90	RX	EK	?	?	?					
23	90	RX	EK	?	?	?					
24	90	RX	EK	?	?	?					
25	90	RX	EK	?	?	?					
26	90	RX	EK	?	?	?					
27	90	RX	EK	?	?	?					
28	90	RX	EK	?	?	?					
29	90	RX	EK	?	?	?				C*	

30	90	RX	EK	?	?	?					
31	90	RX	EK	?	?	?					
32	90	RX	EK	?	?	?					
33	90	RX	EK	?	?	?					
34	90	RX	EK	?	?	?					
35	90	RX	EK	?	?	?					
36	90	RX	EK	?	?	?					
37	90	RX	EK	?	?	?					
38	90	RX	EK	?	?	?					
39	90	RX	EK	?	?	?					
40	90	RX	EK	?	?	?					
37	90	RX	PA	?	?	?					
38	90	RX	PA	?	?	?					
1	90	SI	BN	T7	TT6C	SR					
10	90	SI	BN	T7	TT6C	SR					
11	90	SI	BN	T7	TT6C	SR					
12	90	SI	BN	T7	TT6C	SR					
13	90	SI	BN	T7	TT6C	SR					
14	90	SI	BN	T7	TT6C	SR					
15	90	SI	BN	T7	TT6C	SR					
16	90	SI	BN	T7	TT6C	SR					
2	90	SI	BN	T7	TT6C	SR					
3	90	SI	BN	T7	TT6C	SR					
4	90	SI	BN	T7	TT6C	SR					
5	90	SI	BN	T7	TT6C	SR					
6	90	SI	BN	T7	TT6C	SR					
7	90	SI	BN	T7	TT6C	SR					
8	90	SI	BN	T7	TT6C	SR					
9	90	SI	BN	T7	TT6C	SR					
4	90	SI	EK	T7	TT1	SR/D					
1	90	SI	EK	T7	TT1	SR/D	C	C			
2	90	SI	EK	T7	TT1	SR/D	C	C			
3	90	SI	EK	T7	TT1	SR/D					
5	90	SI	EK	T7	TT1	SR/D					
4	90	SI	HC	T7	TT6B	SR					
5	90	SI	HC	T7	TT6B	SR					
6	90	SI	HC	T7	TT6B	SR					
7	90	SI	HC	T7	TT6B	SR					
8	90	SI	HC	T7	TT6B	SR					
1255	91	RX	JM	T5	CIRQ	SR/D					
1256	91	RX	MM	T5	CIRQ	SR/D					
1257	91	RX	JM	T5	CIRQ	SR/D			C		
1258	91	RX	JM	T5	CIRQ	SR/D					
1259	91	RX	JM	T5	CIRQ	SR/D					
1260	91	RX	JM	T5	CIRQ	SR/D					
1261	91	RX	JM	T5	CIRQ	SR/D			C		
1262	91	RX	JM	T5	CIRQ	SR/D		C*	C		C
1263	91	RX	MM	T5	CLIF	SR					
1264A	91	RX	MM	T5	CLIF	SR					
1264B	91	RX	MM	T5	CLIF	SR					
1265	91	RX	MM	T5	CLIF	SR					
1266	91	RX	MM	T5	CLIF	SR					
1267	91	RX	MM	T5	ST	SR/D					
1270	91	RX	SM	T5	ST	SR/D					
1270	91	RX	SM	T5	ST	SR/D		C*			
1270	91	RX	MM	T5	ST	SR/D		C			
1271	91	RX	JM	T5	ST	SR/D	C	B			
1272	91	RX	SM	T5	ST	SR/D					
1273	91	RX	SM	T5	ST	SR/D					B
1274	91	RX	SM	T5	ST	SR/D					
1275	91	RX	SM	T5	ST	SR/D					
1276	91	RX	SM	T5	ST	SR/D					
1277	91	RX	JM	T5	ST	SR/D	C*	A			
1277	91	RX	JM	T5	ST	SR/D	C*	A			
1277	91	RX	JM	T5	ST	SR/D	C*	A			
1277	91	RX	JM	T5	ST	SR/D		C			
1277	91	RX	JM	T5	ST	SR/D					
1280	91	RX	SM	T4	TT7	SR				C*	
1281	91	RX	MM	T7	TC1	SR/D				C	A
1283	91	RX	MM	T4	RIDG	SR					
1290	91	RX	JM	T5	TT1	SR					
1292	91	RX	JM	T7	TT1	SR					

1293	91	RX	SM	T5	CLIF	SR						
1417	91	RX	MM	T7	KAME	SR						
1418	91	RX	TN	T7	RXTR	SR						
1419	91	RX	TN	T7	RXTR	SR						
1420	91	RX	TN	T7	TT1	SR/D						
1422	91	RX	TN	T5	RIDG	SR/D						
1423	91	RX	JJ	T5	RIDG	SR/D						
1424	91	RX	JJ	T5	RIDG	SR/D						
1426	91	RX	TN	T5	TT1	SR/D					C		
1428	91	RX	JJ	T5	RIDG	SR/D						
1451	91	RX	MM	T5	CLIF	SR						
1453	91	RX	MM	T5	CLIF	SR						
1454	91	RX	MM	T5	CLIF	SR						
1455	91	RX	MM	T5	CLIF	SR						
1457	91	RX	MM	T5	CLIF	SR					B		
1458	91	RX	JM	T5	TT1	SR/D		C					
1459	91	RX	JM	T5	TT1	SR/D							
1460	91	RX	MM	T5	TT1	SR/D					C		
1461	91	RX	MM	T5	TT1	D							
1462	91	RX	MM	T5	TT1	SR/D							
1607	91	RX	SM	T5	RIDG	SR							
1607	91	RX	SM	T5	RIDG	SR							
1608	91	RX	SM	T5	RIDG	SR							
1609	91	RX	SM	T5	RIDG	SR							
1609	91	RX	SM	T5	RIDG	SR							
1610	91	RX	SM	T5	RIDG	SR							
1610	91	RX	SM	T5	TT1	SR							
1612	91	RX	JM	T5	RIDG	D							
1615	91	RX	JM	T5	RIDG	D							
1616	91	RX	MM	T4	RIDG	SR							
1617	91	RX	MM	T4	RIDG	SR							
1652	91	RX	JJ	T5	RIDG	D							
1653	91	RX	JJ	T5	RIDG	D							
1654	91	RX	JJ	T5	RIDG	D							
1657	91	RX	MM	T4	DT6	SR							
1661	91	RX	JJ	T7	TT1	SR/D					C		C*
1662	91	RX	JJ	T7	TT1	SR/D		A				C	
1664	91	RX	JJ	T5	TT1	SR							
1	91	SI	JJ	T4	DT6	SR					C*		
3	91	SI	JJ	T4	DT6	SR					C		
5	91	SI	JJ	T4	DT6	SR					C*		
1	91	SI	MM	T4	DT67	SR					C*		
2	91	SI	MM	T4	DT67	SR					C*		
1	91	SI	MM	T4	DT7	SR		B					
2	91	SI	MM	T4	DT7	SR		B			C*		
3	91	SI	MM	T4	DT7	SR	B	A			B*		C
4	91	SI	MM	T4	DT7	SR		B			C*		
5	91	SI	MM	T4	DT7	SR		B			C		C
6	91	SI	MM	T4	DT7	SR		B			C*		
7	91	SI	MM	T4	DT7	SR		C			C		
8	91	SI	MM	T4	DT7	SR		C					C*
9	91	SI	MM	T4	DT7	SR		C*			C		
1	91	SI	TN	T4	DT5	SR		C*					
2	91	SI	TN	T4	DT5	SR		B			C*		
3	91	SI	TN	T4	DT5	SR							
4	91	SI	TN	T4	DT5	SR							
5	91	SI	TN	T4	DT5	SR							
7	91	SI	TN	T4	DT5	SR					C*		
1	91	SI	MM	T7	TT1	SR/D	C	A		B		C	
2	91	SI	MM	T7	TT1	SR/D	B	C	C*	C	C	C	
3	91	SI	MM	T7	TT1	SR/D		C		B	C		
1	91	SI	SM	T7	TT7	SR							
2	91	SI	SM	T7	TT7	SR							
3	91	SI	SM	T7	TT7	SR							
4	91	SI	SM	T7	TT7	SR							
5	91	SI	SM	T7	TT7	SR							
6	91	SI	SM	T7	TT7	SR							
7	91	SI	SM	T7	TT7	SR					C*		
8	91	SI	SM	T7	TT7	SR							
9	91	SI	SM	T7	TT7	SR							
10	91	SI	SM	T7	TT7	SR							
1	91	SI	TN	T7	TT1	SR/D	C	A*		A	B*	B*	

2	91	SI	TN	T7	TT1	SR/D	C	C	C	B	A	A
3	91	SI	TN	T7	TT1	SR/D	C	B	C*	A	A	B

CERTIFICATION

I, James F. V. Millar, of # 1 Dunn Lake Road, British Columbia, do hereby certify that:

1. I hold a B. A. Sc. in Mining Engineering from the University of British Columbia.

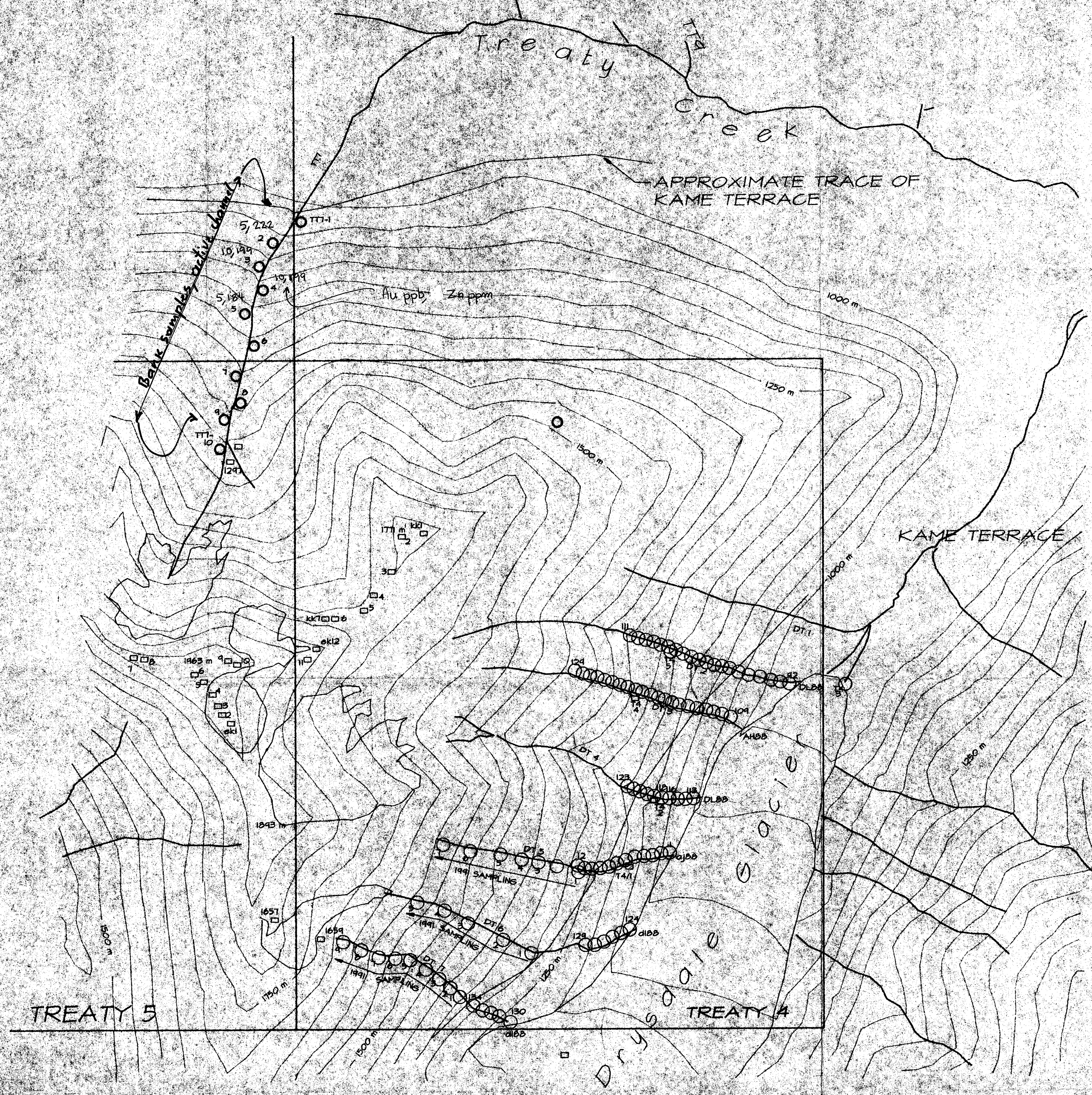
2. I have been engaged in the mineral industry since 1947.

3. I am a member in good standing of the Associations of Professional Engineers in the provinces of Alberta, British Columbia and Saskatchewan.

4. This report was prepared by me from materials and information provided by the series of reports referenced in the body of the report.

5. I hold a 60% interest in the property described in this report in trust for Millar Western Engineering Ltd., in which company I hold a 60% interest.

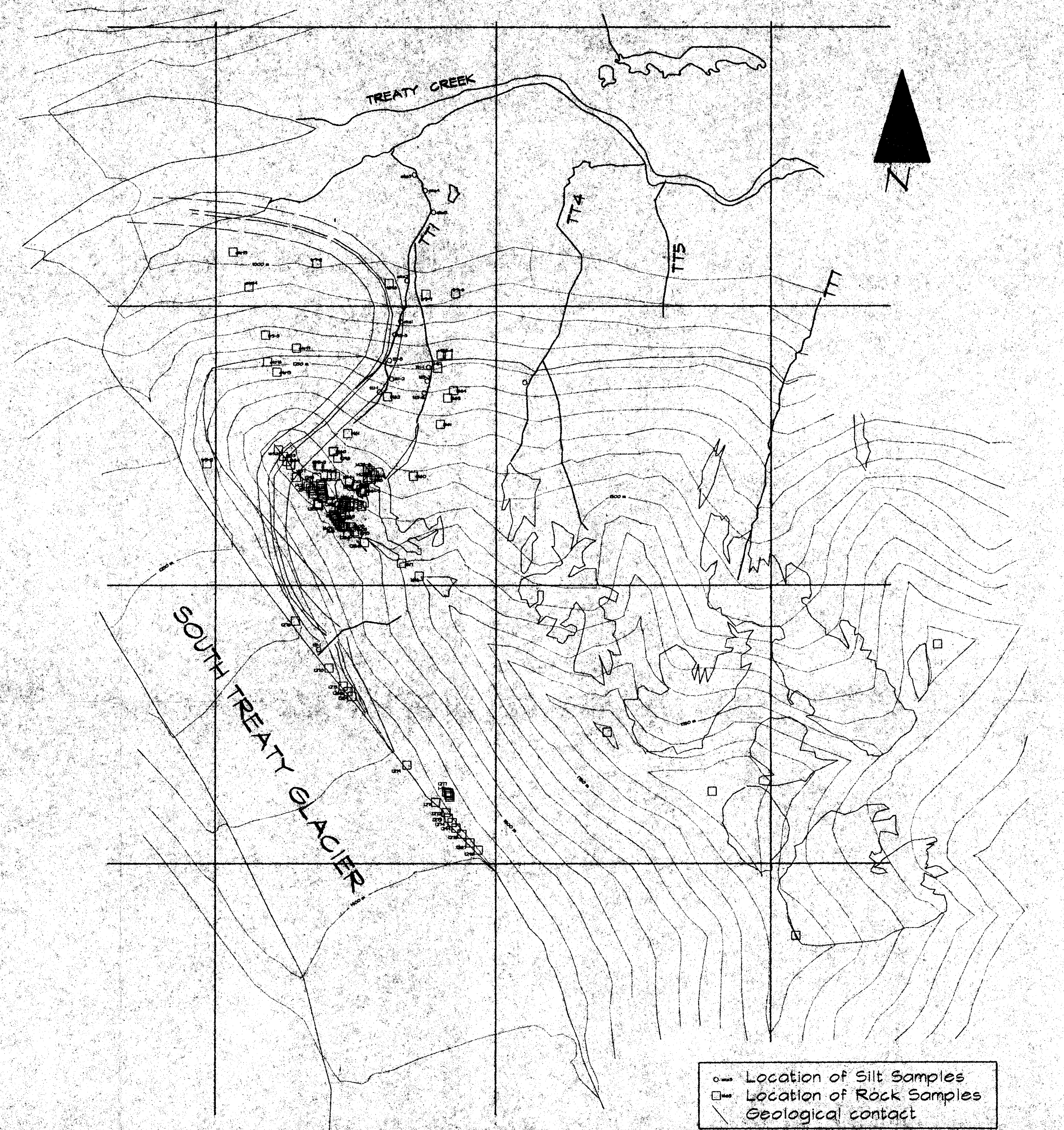
Signed -



MAP OF TREATY 4 CLAIM & EAST PART OF TREATY 5 SHOWING LOCATION OF SAMPLES TAKEN ON TT-7 AND DT-5 TO 7 IN 1991

Scale
0 1000m 2000m 3000m

FIGURE 8b



MAP OF TREATY 5 & 7 CLAIMS SHOWING LOCATIONS OF 1991 GEOCHEMICAL SAMPLES

SCALE 0 1000 2000 3000

GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,512

FIGURE 8a