RENISON LIMITED

748001

E.L. 9/76

BLUE TIER AREA

PROGRESS REPORT

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SUMMARY

A program of track cutting, soil geochemistry and geological mapping was completed over the northern half of E.L. 9/76 in August - November, 1981. Most of the licence area has now been geologically mapped, soil sampled and gridded.

The licence area can be separated into two geochemically and geologically distinct sub-areas. South and east of Doyles Workings the tin geochemistry clearly distinguishes Alkali Granite (the tin granite at the Anchor Mine) from other lithologies; however north-west of there, this relationship breaks down. In addition the granite contact geometry is apparently different in the two sub-areas.

Geological mapping of the Alkali Granite indicates that it outcrops in a number of elongate domes. These, together with the Crystal Creek Lineament, are considered major controls on the location of stanniferous Anchor-style greisens.

Previous work has shown that the Anchor Deposit probably contains insufficient reserves to justify completion of a Definitive Feasibility Study. As a result exploration on the licence area is now being directed towards finding more Anchor-style mineralization in buried cupolas. A percussion and core drilling program, comprising 2000m in 20 holes, is proposed to test for such targets. This program is estimated to cost $110,250, and if commenced in May 1982, should be completed by July 1982.

1. INTRODUCTION

E.L. 9/76 is located 25km north-west of St.Helens, north-east Tasmania (Figure 1). The licence area includes the Blue Tier Tinfield which has produced approximately 4000 tonnes of contained tin from primary deposits since the 1870's.

Renison Limited commenced exploration on the licence in 1977 after signing a Joint Venture Agreement with Hellyer Mining and Exploration Pty. Limited. The aim of exploration then was (and still is) to define large tonneage greisen-style tin deposits. Since 1977 work has concentrated mainly on diamond drill evaluation of mineralization in the vicinity of the Anchor Mine, with a lesser effort directed at exploring the remainder of the licence area.

The Anchor Mine drilling was completed in mid-1981. At that time, the deposit's potential size was assessed at 8.8 million tonnes of 0.18%Sn (0.05%Sn cut off) including 0.5 million tonnes of 0.67%Sn (0.2%Sn cut off) and 2.9 million tonnes of 0.23%Sn (0.1%Sn cut off). This was considered insufficient to justify the completion of a definitive Feasibility study on the deposit. Consequently, since September 1981, effort has been redirected towards finding other concealed Anchor-style deposits with the aim of delineating a sufficient tonneage (of similar or better grade, in several orebodies) to permit a mining operation.

This report describes the results of a regional program of gridding, geochemistry and geological mapping on the northern half of the licence area and recommends follow-up drilling.

2. EXPENDITURE

During the current financial year, $89,137 has been spent on the Blue Tier licence. This sum is reduced in the attached expenditure statement (Appendix 1) by $34,000, because that sum was accrued but not spent in the previous financial year. Costs associated with the regional exploration program totalled $37,866. The Joint Venture has spent a total of $929,667 on the licence to date.

3. LAND TENURE

Renison Limited is the Operator under a Joint Venture Agreement with Hellyer Mining and Exploration Pty. Limited, the holders of E.L. 9/76.

Several mining leases are held by other parties within the licence area, the details of which are dealt with in the 1978 Annual Report. Only two significant changes have occurred since that time:

(1) M.L.'s 1M/77 and 61M/76, totalling 100 ha., over the F.B. Lode, are now held by Mr. P. Reicher of Branxholm (formerly held by R.G. Hyde).

(2) M.L. 12M/77, totalling 96ha, was situated at the north-west edge of the E.L. In early 1981, after it fell vacant, it was pegged and incorporated into E.L. 9/76, thereby enlarging the licence area to approximately 77km^2.

4. PREVIOUS WORK

Details of work completed by other companies on the Blue Tier area are given in the 1978 Annual Report.

Since Renison commenced exploration on the E.L., the following work has been carried out:

4.1 Anchor Mine

(a) Diamond Drilling Five drilling programs, comprising 83 exploration and 16 bulk sample (PQ core) holes, have been completed at the Anchor Mine.

(b) Metallurgical Testwork A minor amount of metallurgical testwork was carried out prior to 1981 on crushed exploration drillcore, however the major program of testwork has been on the Anchor bulk samples; this work is currently continuing and will be the subject of a separate report.

4.2 Elsewhere on the Licence Area

(a) Photogeological Study. This was undertaken by Hunting Geology and Geophysics. The results were generally disappointing, however, as the different granite types could not be effectively distinguished photogeologically.

(b) Ground Surveys. Prior to 1981, cut grid totalling 57 line km was established on the southern half of the licence area. Of this, the southern 44 line km ("the Lottah Grid") was covered by geochemical sampling and geological mapping (Ross, 1980).

(c) Diamond Drilling. A total of seven holes have been completed on the Blue Tier Plateau, near Poimena; two were drilled at the Southern Cross Workings and the other five were completed in the vicinity of the Moon Mine.

5. WORK COMPLETED AUGUST - NOVEMBER 1981

5.1 Grid Cutting

A total of 71 line km of grid was cut in lines mostly 600m apart. The lines south of 90N were cut at 300m spacing to conform with the line spacings of an earlier program. The grid lines were connected by three base lines, designated 00, AA and BB.

5.2 Geochemical Sampling

All of the above grid was soil sampled at 50m spacing by contractor N. Poltock. Soil samples were obtained from the B horizon where possible, however only skeletal soil development is present over much of the area.

Samples were sieved to -180 μm, and assayed at the Renison Laboratory for Sn by XRF, Cu and Zn by AAS and acid soluble fluorine by a specific ion technique. Some acid soluble fluorine results had still not been received at the time of writing this report.

5.3 Geological Mapping

All of the new grid, as well as the 13km of grid cut before 1981 but after the "Lottah Grid", was mapped by contract geologist, R. Poltock. Mapping traverses were completed along grid lines, as well as through the clear ungridded area on the plateau and along creeks and roads. Poltock's report is attached (Appendix 2).

6. RESULTS

6.1 Geology

The regional geology of this area has been adequately described in previous reports. The relatively detailed geological work of the current and 1979 programs has resulted in the following subdivision of granite types for the licence area, interpreted from younger to older (see Figures 2,3).

(1) Alkali Granite Also known as the Lottah Granite and Anchor Granite, this is the same lithology which hosts greisen mineralization at the Anchor Mine. It is clearly associated with the pervasive "floor" - style of greisen

mineralization elsewhere on the Blue Tier Tinfield, and is a tin granite. It is generally medium grained (2-5mm grainsize), leucocratic and comprises quartz, feldspars (plagioclase as albite), and minor biotite and muscovite; the biotite is characteristic, occurring as individually separate, pale brown flakes, similar in grainsize to the quartz and feldspar. In general, it is equigranular but it does grade, in places, into a more porphyritic type with quartz and feldspar phenocrysts set in a 2mm quartz, feldspar, mica groundmass.

(2) Fine Grained to Porphyritic Phases Although these lithologies have been shown as a single unit on the interpretative geology maps, they may be separable into several sub-types. They range from aplites through to fine grained granites (s.l) and quartz/feldspar porphyries; the latter have a much finer groundmass than the Poimena Adamellite.

On the "Lottah Grid" and in the Anchor Mine, Ross (1980,1981) identified a microadamellite (s.s.) which had been correlated with the Alkali Granite previously but is in fact closer petrologically to the Poimena Adamellite. It is assumed that this lithology correlates with the other fine grained to porphyritic phases, however this cannot be demonstrated without additional petrological work; in places field relations suggest that these lithologies are transitional to the Alkali Granite. Minor pervasive-style greisenization occurs within this unit.

(3) Poimena Adamellite Also known as the Poimena Pluton, this is the older, non-tin granite. Mineralization within it is confined to vein-style greisen bodies which are usually thought to be related to underlying Alkali Granite. It is characteristically feldspar porphyritic with phenocrysts up to 4cm in size and groundmass varying from 2mm to 10mm. It comprises quartz, feldspars (plagioclase as oligoclase-andesine) and biotite; the latter is distinctive compared with Alkali Granite biotite in that it is darker and occurs as fine, irregular aggregates.

This classification differs from that of the Mines Department, who have constructed a detailed classification scheme based on phenocryst, plagioclase and mica composition, texture and grainsize (Appendix 3). Although this is a useful scheme for the style of mapping carried out by Mines Department geologists, it tends to complicate an otherwise simple picture from the exploration viewpoint. Although the fine grained to porphyritic phases are not easily pigeonholed, the major contact of exploration significance is that between the Alkali Granite and Poimena Adamellite. This is clearly outlined by the three-way classification described above.

The granites are intruded by minor basic dykes of either Jurassic or Devonian age and overlain by minor Tertiary basalt (except in the Mt.Littlechild area, where basalt outcrop is extensive) and, at one locality, a thin veneer of Permian sediments.

The Alkali Granite occurs in at least three different forms:

(1) Domes The mapping indicated the Alkali Granite roof contact occurs in elongate dome- and trough-like features. Three domes were identified by R. Poltock, as the "Wyniford, Michael and Australia Domes". A fourth probably occurs within the "Lottah Grid" and this has been designated the "Crystal Hill Dome" (Figure 2). The roof contacts dip outwards shallowly in all directions from these features, the steepest dip apparently occurring on the southern flank of the "Australia Dome" where it must be 15-20° to explain the outcrop shape. Greisen mineralization typically occurs near the edge of these features, and it is suggested that Anchor-style bodies may once have occurred at their apices.

(2) Dykes The most obvious of these is the dyke connecting the Southern Cross and Marie Workings. Another possible example occurs at the Moon Mine. Here, several angled drillholes beneath the workings have intersected the sequence Poimena Adamellite-Alkali Granite-Poimena Adamellite.* This is a more complex situation than the first example, however. Mineralization occurs as greisenized "shoots" (not vein-style) well away from the main contact.

(3) Sheets Despite the earlier "Lottah Sheets" name given to the Alkali Granite, only one

* N.B. The results of the Moon drilling will be the subject of a

example of this type can be identified in the mapped area. This occurs approximately 500m north-west of the Southern Cross Workings. No significant mineralization is associated with it.

In the north-west portion of the licence area, the Alkali Granite roof contact does not fit simply into any of the above categories (see Appendix 2, p.7).

The licence area is traversed from south-east to north-west by the Crystal Creek photo-lineament. At its south-eastern end, it passes through the Anchor Mine. Towards the north-west it bends towards the west between Doyles Workings and the F.B. Lode. Interestingly however, on the Landsat scene of the area, the lineament passes directly through the F.B. Lode and Lake Frome. It therefore connects the most significant, known "floor"-type greisen body and the most significant, known vein-type greisen body (the F.B. Lode) on the Blue Tier Tinfield. Thus it seems likely that this structure is an important mineralization control. In addition, the lineament appears to control the margins of the "Crystal Hill" and "Australian Domes" to some degree. Although the mapped geology precludes these contacts from being entirely fault-bounded, some fault movement may have occurred.

6.2 Geochemistry

It is highly unlikely that a significant outcropping stanniferous greisen body remains undiscovered. Therefore the geochemical program on the regional grid was guided by the need to discover hidden greisenized cupolas. The Anchor greisen is an obvious model. Reasons for selecting the elements assayed are as follows:

(1) Tin Hidden stanniferous greisens cannot be detected directly by soil geochemistry because tin in cassiterite does not undergo hydromorphic dispersion. Nevertheless tin shed from outcropping stanniferous greisen veins may signal an underlying greisenized cupola. In addition, experience on the "Lottah Grid" showed the usefulness of tin in soils as a means of discriminating granite types (Ross, 1980).

(2) Copper, Zinc These elements readily undergo hydromorphic dispersion and, if occurring in sufficient quantities within a shallowly hidden greisen body, should cause a soil geochemical anomaly. The soils on Poimena Adamellite overlying the Anchor greisen are not anomalous in copper or zinc, however the greisen only contains patchy, minor amounts of both elements; higher concentrations may be present in other greisen bodies on the Blue Tier.

(3) Acid Soluble Fluorine This only occurs in simple fluorine compounds (e.g. fluorine, apatite) not fluorine-bearing silicates (e.g. topaz). The fluoride ion is mobile in the surface environment, hence hydromorphic dispersion from hidden, fluorite-bearing greisens may occur.

No attempt was made to treat the geochemical data statistically, however some conclusions from Ross's (1980,p9-11) statistical work have been used. The tin, copper and zinc data are presented on contoured 1:5000 plans (Figures 4-6). The acid soluble fluorine results (Figure 7) have not been contoured because the data is incomplete.

6.2.1 Tin Contour intervals were chosen at 55, 160, 250 and 600ppm, in accordance with the results of Ross's (1980) statistical analysis. On the "Lottah Grid", residual soils overlying the Poimena Adamellite generally contain less than 55ppm Sn, whereas residual soils on Anchor Granite are substantially enriched relative to this level. Over much of the rest of the grid, this pattern persists. Alkali Granite within the domes is overlain by tin-enriched soils. However, west and south-west of the "Wyniford Dome", this relationship breaks down. Here, anomalous and low tin values occur over both major granite types in zones which are unrelated to the intra-granite contact. The following points are relevant:

(i) Although tin geochemistry was used as a mapping aid on the "Lottah Grid", this change in the geochemical pattern does not reflect major errors in the interpreted geology. There is sufficient outcrop to map effectively and the Alkali Granite is quite distinctive.

(ii) The north-west portion of the licence area is probably either characterized by a different mineralization style compared with the rest of the area or the bulk chemistry/petrology of the Anchor Granite there is atypical.

Tin responses over the fine grained/porphyritic types are variable - commonly they are similar to the Poimena Adamellite but there are locations (e.g. west end of "Australian Dome") where anomalous tin values can occur. Such examples are perhaps more likely to be transitional to Alkali Granite.

6.2.2 Copper As on the Lottah Grid, copper occurs at low levels in most of the soils overlying the granites. Background levels vary from 10 to 20ppm. Most anomalies are only one or two point "highs" less than 100ppm; as such they are not considered particularly interesting. A number of small anomalies are associated with basic rocks either as scree or outcrop.

The target response was anticipated to be a broad, low-level anomaly reflecting hydromorphic dispersion from a shallowly hidden, chalcopyrite-bearing greisen body. Only one anomaly fits this pattern - this occurs on lines 90 and 96N around 1500E, south-west of the western "arm" of the "Wyniford Dome". Scattered basic scree is recorded in this area, and may account for the anomaly.

6.2.3 Zinc Residual soils over Alkali Granite generally carry 10 to 20ppm zinc, whereas those over Poimena Adamellite contain 20-50ppm. As with the copper, anomalies tend to be one or two point "highs". Again

there is some correlation with scree or outcrop of basic rocks. A broad zinc anomaly coincides with the broad copper anomaly mentioned above.

6.2.4 Acid Soluble Fluorine Values generally range from 40 to 150ppm. Variation is apparently quite random and unrelated to underlying granite type. The source of the fluorine values is either detrital fluorite or some other precipitate from fluorine dissolved in soil waters (absorption on clays?). The widespread presence of fluorine "anomalies" is perhaps indicative of the strong mobility of ionic fluoride in acid surface waters, such as are to be expected at Blue Tier. Alternatively, fluorite on joint facings and the like may be ubiquitous throughout the licence area.

7. DISCUSSION

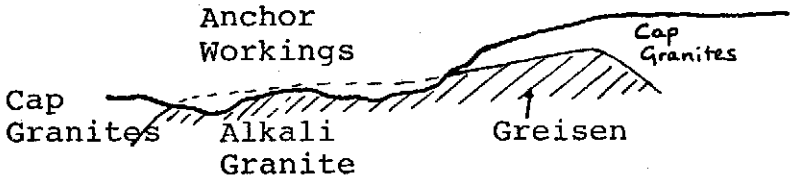
Anchor-style mineralization is clearly the prime exploration target on the Blue Tier. Bodies of this kind should have the size and geometry appropriate to the low- cost, bulk mining techniques necessary for profitable exploitation of stanniferous greisen. The work to date has been directed mainly at outlining extensions of known mineralization, but there has been little indication that other Anchor-style deposits crop out. There are several reasons for this:

(1) A number of the known workings were developed on different ore types i.e. mineralized greisen veins (e.g. F.B.Lode, Cambria) and mineralized greisen bodies within Alkali Granite dykes (e.g. Southern Cross, Moon?). Although such ore types may be

economically attractive if a mining operation existed on the Blue Tier, their geometry (thin, steeply dipping, tabular) and limited size potential precludes them from being the major target.

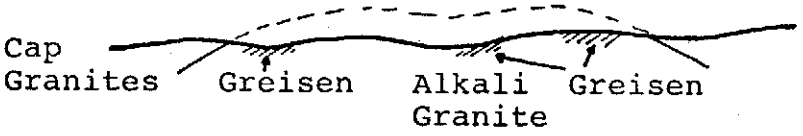
(2) The Anchor deposit occurs in an unusual situation where topography works "in favour" of exploration. It is a mineralized cupola (Ross, 1981) in which only the flank of the cupola is exposed (or there were two small cupolas side by side) i.e.

SECTION VIEW:
(Facing NW)



Much of the economic attractiveness of the Anchor deposit derives from the relatively high grade cap of granular greisen which occurs directly beneath the cupola's apex (Lens A). In most cases one would expect this cap to be eroded first. This has apparently occurred where other "floor" style greisens outcrop. These generally occur near the Alkali Granite margin, probably with this configuration:

SECTION VIEW:



As such they have little exploration potential.

The foregoing explains why further exploration on the Blue Tier should be directed at buried, greisenized cupolas. A number of techniques have now been tested as an aid to such exploration, these include:

(1) Photogeological Analysis This was ineffective in identifying characteristic fracture patterns indicative of hidden cupolas, however it did show the possible importance of the Crystal Creek Lineament.

(2) Soil Geochemistry As discussed previously, this is useful but results are ambiguous. The presence of anomalies may indicate locations for follow-up drilling but lack of anomalies should not downgrade a prospective area.

(3) Lithogeochemistry This was tried on drillcore samples from the Anchor Mine, and indicated that anomalies in Li and Rb occur within Alkali Granite and possibly the microadamellite, but not within Poimena Adamellite (see Appendix 6).

(4) I.P. Depth Sounding This was tested to identify the depth to Alkali Granite but was quite ineffective.

Clearly, drill target definition must rely heavily on a conceptual approach, as other techniques are of limited use. The Anchor greisen is an obvious model. Important features of this deposit are:

(1) It occurs in a cupola. The Alkali Granite contact dips outwards from its apex at 10-20 . The cupola is presumed to have been a structural trap for late magmatic/hydrothermal fluids.

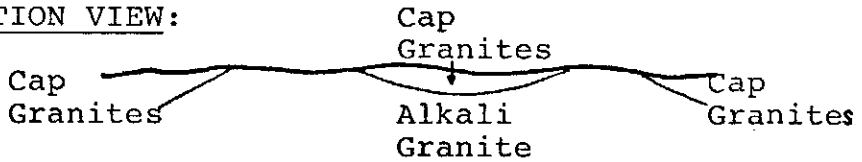
(2) It is traversed by the Crystal Creek lineament which appears to have been a control on both mineralization and structure.

(3) Stanniferous greisen is confined to the Alkali Granite and extends over an area elongated in a north-east direction, with approximate dimensions of 700 x 200m^2

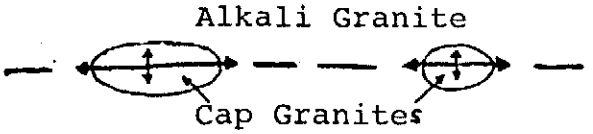
A target greisenized cupola must have its apex within 50m of the surface. A typical deposit (say 30m thick) would therefore have a maximum waste: ore ratio of around 2:1 for an open cut operation. A more deeply buried greisen body is unlikely to be economic unless grades are substantially higher than those at the Anchor. This is considered unlikely.

The outcrop patterns of the Alkali Granite domes are similar to the core shapes of refolded anticlines. R.Poltock (Appendix 1, p.7) has suggested that the domes reflect fold structures in the overlying Mathinna Beds. The Launceston 1:250,000 sheet Explanatory Notes describes Mathinna fold structures thus: "Folding has taken place resulting in elongate domes and basins with steep axial surfaces...." This suggests that the dome axes may be sinuous i.e.

AXIAL PLANE SECTION VIEW:

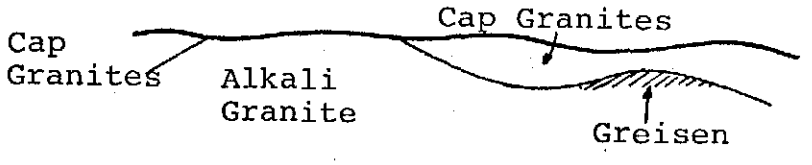


PLAN VIEW:



or if there is an overall plunge to the axes:

AXIAL PLANE SECTION VIEW:



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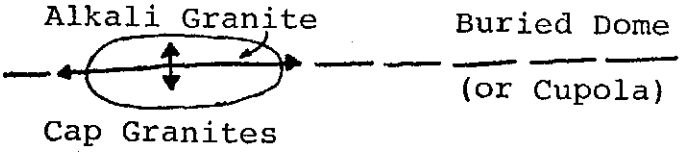

The latter situation is an obvious exploration target.

The planned depth and spacing of drillholes directed at buried greisenized cupolas should be affected by several factors:

(1) Target Size A greisen body of 6 million tonnes, with an average thickness of 25m and s.g. of 2.65 would have a surface area of 90600m^2. If equidimensional it would measure 301 x 301m^2. Smaller targets may be economically attractive but it is unlikely that a completely preserved greisenized cupola would be much smaller than this. Thus a 300m drillhole spacing is suggested. There is a small chance of missing an elongate body but the difficulty of doing this is illustrated by superimposing a 300m square grid on a map of the Anchor greisen.

(2) Target Shape A cupola with an outward dip of 15° and its apex 50m below surface, centrally placed between two drillholes 300m apart might appear as follows:

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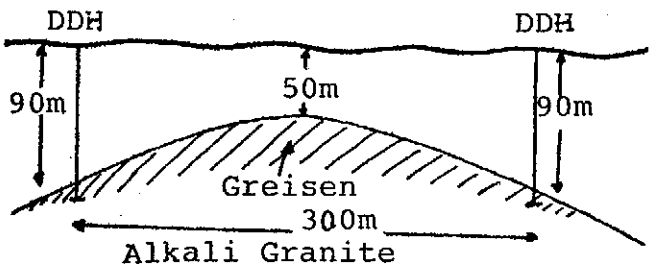

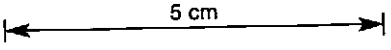

Given that this is a worst case for a cupola with a dip of 15° but that the dip may well be steeper, a planned depth of 100m seems advisable. Should the cupola's outward dip be substantially more than 15°, the economic potential of the greisen would be less because of the increased waste:ore ratios required to reach ore by open-cutting.

(3) Distance from Outcropping Contact If the Alkali Granite contact dips downwards from outcrop, there must be a limiting distance from the contact in which a hidden cupola sufficiently large to host an orebody cannot exist. Assuming that the minimum diameter for an economically attractive greisenized cupola is 300m, the following examples illustrate the point:

(a) Surface horizontal, outcropping contact 5°, cupola contact 15°

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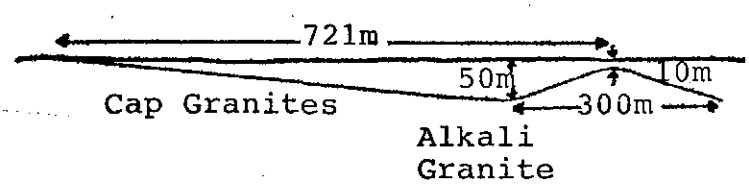

i.e. for the target to be larger, or deeper than 10m, it must occur more than 721m away from the Alkali Granite contact.

(b) Surface horizontal, outcropping contact 15°, cupola contact 15°

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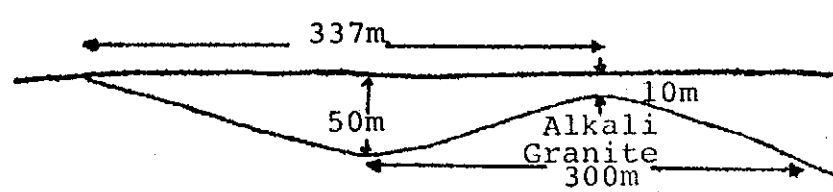
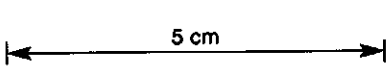
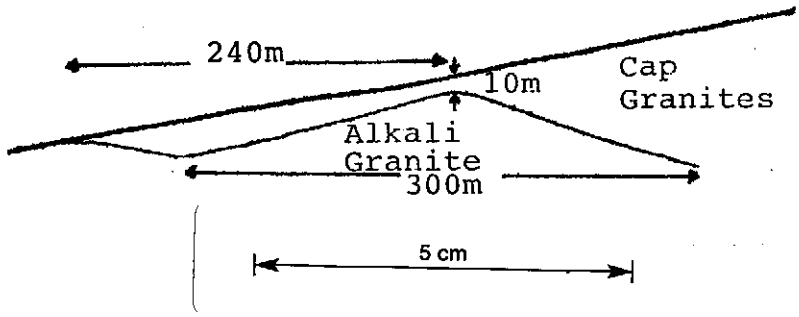




i.e. for the target to be larger, or deeper than 10m, it must occur more than 337m from the Alkali Granite contact.

(e) Surface sloping upwards at 10°, outcropping contact 5°, cupola contact 15°

SECTION VIEW:



i.e. for the target to be larger or deeper than 10m, it must occur more than 240m from the Alkali Granite contact.

In most situations, one would expect the cupola's apex to be more deeply buried than 10m because, with only slight topographic or granite contact irregularities, windows of Alkali Granite should be exposed. As Alkali Granite contacts are interpreted to dip outwards at less than 10°, the above examples suggest that a "safe" distance from the outcropping Alkali Granite contact to position a drillhole would be 500m on horizontal ground and 250-500m on upwardly sloping ground. Drilling into the cap granites downslope of the Alkali Granite contact is unlikely to be successful within 800m of it.

8. CONCLUSIONS AND RECOMMENDATIONS

8.1 Selected areas within the older, non-stanniferous granites should now be tested for buried Anchor-style greisen by reconnaissance drilling.

Percussion drilling is recommended because it should provide sufficient information at the reconnaissance stage at an optimum cost. Although assays of percussion chips may be somewhat inaccurate because of cassiterite loss within drillholes, the most important requirement of the drilling should still be met, namely the identification of stanniferous greisen. If percussion drilling is ineffective because contamination becomes a problem or penetration rates are too slow, the option should be available to complete the holes by diamond drilling.

The drillhole proposals are limited to testing for Alkali Granite cupolas either on line with Alkali Granite dome axes or along the Crystal Creek Lineament, both within areas of outcropping Poimena Adamellite. Drillholes should be 100m deep and spaced 300m apart. The hole (or holes) closest to the Alkali Granite contact should be collared within 250-500m of its outcrop, depending on the topography.

The proposed program comprises 20 holes, totalling 2000m. Details are as follows (Figure 2):

(1) Wyniford West Area Four vertical holes are recommended here in a slightly distorted square pattern. The drill target is the down-

dip extension of the western "arm" of the "Wyniford Dome". Topography is relatively flat, but three of the hole collars are somewhat closer than 500m to the nearest Alkali Granite contact outcrops because the latter occurs both to the north and east.

(2) Crystal Creek Lineament Five holes are proposed here. Of these four lie along the Lineament, and one lies south-west of it, targetted at the down-dip extension of the "Australian Dome". The first four holes should be oriented at right angles to the Lineament's strike and angled at -75° to avoid the possibility of drilling down-dip through greisen veins parallel to the lineament (N.B. at 100m depth, these holes should be 97m below surface). The fifth hole should be vertical. Topography rises at an angle of about 15° towards the west, which explains why the easternmost drillholes are only 300m from the Alkali Granite contact's outcrop.

(3) Wyniford East Area Two vertical holes are proposed here. The drill target is the down-dip extension of the eastern "arm" of the "Wyniford Dome". Topography is relatively flat, but the western collar is somewhat closer than 500m to the nearest Alkali Granite contact outcrops, because the latter occur both to the north and south.

(4) Michael-Moon Area Six vertical holes are proposed here in a rectangular pattern. The drill target is the down-dip extension of the "Michael Dome". Topography rises away from the Alkali Granite contact at about 10° , which explains why the northern drillholes are only 300m from the contact's outcrop. Further to the south-east, the topography drops away sharply and it is difficult to envisage an Alkali Granite cupola occurring there without a window being exposed.

(5) North Anchor Area Three vertical holes are proposed here. Drill intersections and the granite outcrop pattern north of the Anchor Mine indicate that the granite contact is rising shallowly in this direction. At some point, a change of dip is inferred otherwise a window of Alkali Granite should occur.* However, as the slope rises to the north for over 2km (Figure 10), the location of the inflexion point (which may be a greisen "trap") is evidently unclear. However it is possible that a dome of much the same shape and dimensions as the "Australian Dome" occurs in the shallow subsurface (see Figure 2). The holes are designed to test this possibility.

* N.B. If the Alkali Granite contact rises very shallowly, that "window" may be the "Michael Dome".

Clearly this program only covers a small part of the prospective area. Nevertheless it is prudent to undertake this style of exploration in relatively small steps to ensure that there is time to think about the results. There is a real danger of wasting a lot of drilling if the program is pushed on so fast that there is insufficient opportunity to modify the conceptual model in the light of drilling results.

Bearing this in mind, there are several areas on which drilling is suggested, using the present model, which may be covered in a subsequent program. These are east of the "Australia Dome" and west of the "Crystal Hill Dome". A total of 12 vertical holes are recommended, six in each area (see Figure 2).

8.2 The area west and north-west of Doyles Workings has been deliberately excluded from the follow-up drilling proposals because of the apparently different nature of geochemistry and mineralization there. Some petrology and lithogeochemistry on granite samples from this area is recommended with a view to understanding whether the area is prospective for Anchor-style greisen bodies.

8.3 The best remaining possibility for indirect exploration for hidden cupolas is trace element lithogeochemistry. The early work carried out on the Anchor drillcore was not very encouraging, but a further, more comprehensive sampling program is justified. It is suggested that a series of drillcore samples should be taken within Poimena Adamellite at varying distances from the Anchor greisen and the trace element compositions compared with fresh Adamellite samples taken from elsewhere.

Highly accurate assaying techniques must be used.

9. PROPOSED EXPENDITURE

This program is estimated to cost $110,250. Details are as follows:

	$
Salaries	5,000
Drilling*	90,000
Consumables	4,500
Site/access development	3,000
Vehicles	1,250
Travel and Accommodation	1,500
Survey	1,000
Assay	3,000
Petrological Consultants	1,000
TOTAL	110,250

* Note: This assumes that 80% of the drilling will be percussion and 20% diamond.

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APPENDIX 1

Expenditure to March 30th 1982

RENISON LIMITED
GEOLOGY DEPARTMENT

EL 9/76 BLUE TIER RESPONSIBILITY 078 P/E 30/ 3/82

ACCOUNT NUMBER	ACCOUNT NAME	PERIOD TO DATE ACTUAL	PERIOD TO DATE VARIANCE		YEAR TO DATE ACTUAL	YEAR TO DATE VARIANCE	
010780702	SALARIES	714	2067	G	8345	65866	G
010780703	SALARY LOADING	250	580	G	2920	12853	G
010780705	CONSUMABLES		290	G	648	5175	G
010780708	VEHICLES	283	51	L	3378	1183	L
010780710	TRAVEL & ACCOMMODATION	144	146	G	3915	2521	G
010780722	METALLURGICAL RESEARCH-RENISON	786	786	L	7927	3814	L
010780723	R						
010780724	RENISON SERVICES - OTHER	2382	2382	L	7217	5982	G
010780730	CONTRACTORS - GEOLOGIAL	240	240	L	9754	5850	L
010780734	CONTRACTORS - ASSAYING	1365	1365	L	17607	11982	L
010780735	CONTRACTORS - SITE AND ACC. DE				26260	21760	L
010780736	EXPLOR. DRILLING- DIAMOND				34000-	102487	G
010780738	EXPLOR.DRILLING - PERCUSSIVE					42735	G
010780739	CONTRACTORS - SURVEYING					1712	G
010780740	LEASE PAYMENTS	629	629	L	1167	3333	G
010780750	DEF FEASIBILITY AND ASS. STUDY					193525	G
010780760	SUB TOTAL	6793	2370	L	55137	391600	G
010780770	LESS HELLYERS SHARE 40%	1888-	119	G	21227-	157473	L
	ROUNDING	1	1	L	1		
010789999	TOTAL EL9/7L BLUE TIER	4906	2252	L	33911	234127	G

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APPENDIX 2

Report by R. Poltock on contract gridding,
soil sampling and geological mapping,
Blue Tier Grid

748042

EL 9/76

BLUE TIER GRID

Contract gridding, soil sampling and geological mapping by Poltock Bros., Roger Poltock Geological for Renison Ltd.

August - November, 1981.

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CONTENTS

Appendices:-

(i) Rock samples grid locations

(ii) Field note books No. 1 - 4

(iii) Soil sample descriptions

DWGS.

1.	Fact Geology	1:5,000
2.	Interpretive Geology	1:5,000
3.	Grid line profiles and interpretive geology	1:5,000

References:

- Tas. Dept. Mines 1977
Geological Atlas 1:50,000 Series "Ringarooma Sheet"
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INTRODUCTION

This contract involved geological mapping, soil sampling and line cutting on an E-W grid system connected by several base lines, a total of 83.3 km. This a northern extension of the Anchor grid, the first regional exploration in the Blue Tier area, previously exploration limited to detailed assessment of primary tin mines/prospects and their immediate environs.

The gridded area covers the northern part of EL 9/76 approx. 40 km^2, commencing 0.5km north of Lottah; the only ungridded area being

(a) Rieker's Hyde's lease in the N.W.
(b) N.E. corner, North of Sunflats Road and east of Mt. Michael.

The grid lies N.W. of Weldsborough, vehicle access either by the Emu Flats or Lottah - Poimena Roads. Topography is dominated by Blue Tier - Mt. Michael plateau, with the Wyniford and Frome Rivers draining to N. & N.W. and tributaries of the Groom and Ransom Rivers draining S.E. Topography is relatively gentle - undulating only becoming steep in the Jubilee Hill - Frome River area and the headwaters of the Groom and Ransom Rivers.

Geology is dominated by Devonian Carboniferous granite - adamellite, part of the Blue Tier batholith with associated greizen and sericitic alteration with cassiterite mineralization. Minor primary tin mining has been carried out but secondary alluvial concentrations have been more significant.

Granite contacts with intruded country rocks don't exist in the gridded area, minor Permian sediments and Tertiary volcanics are the only non granitic lithologies.

GRID

The Blue Tier Grid incorporates three main grid systems and sets of coordinates.

(a) Jubilee Hill - Frome River Grid, consists of three lines cut at 104° (True) at 250 metre intervals connected by an eastern base line - bearing 014° (True). The lines numbered 250-500-750N extend from 00 BL to 1000N.

(b) Main grid extends from 3000W (AMG 577,000E - Western lease boundary) to 5000E (AMG 585,000E) with three base lines at

0000.E (AMG 580,000E)
2,500.E (A.M.G. 582,500E)
5,000.E (A.M.G. 585,000E)

Lines labelled from 126N - 81.5N and are spaced at 600 m. except 81.5 and 84N (250m.)

The only ungridded area in this section is:

i) Rieker's/Hyde's Lease 1 km^2 on line 114.N.O - 1500.W.

ii) Poimena mining district which has been covered by Mt. Lyell 1904 - 06 detailed exploration.

iii) North of Sunflats Road, and east of Mt. Michael in the N.E. corner of EL.9/76

Detail in the first two areas was filled in by E-W compass and road traverses.

(c) lines 69 - 84.N, northern extension of the Anchor Grid, grid lines at 300 m. intervals, extending E. & W. of the Lottah-Poimena Road, with the exception of 81 & 84N which are only to the E. The road is the 000 datum all lines except 84N are connected by an eastern base line at A.M.G. 86,800E which has been cut south from the Poimena - Sunflats Road. All grid lines with the exception of the Jubilee Hill/Frome have been cut at 090-270° (True), with base lines at 000-180° (True).

Section c) of the Blue Tier grid was cut by Peter Ashton approx. 2 years ago, some lines tending to be overgrown. Extensions on the western ends of lines 69-78N and sections a) and b) were cut by Poltock Bros. during July - October '81. All recently cut lines are flagged and staked at least each 25m. and coordinates marked on permatags each 50m.

Soil Sampling

All grid lines and base lines listed above have been soil sampled at 50m. intervals. The southern grid cut by Peter Ashton was sampled by him, all western extension and sections a) b) sampled in '81 season, a total of 1390 samples.

Soil samples taken beneath the organic layer and includes material from "B" and "C" horizons, for sample depths and descriptions see appendices iii).

Analysis from Ashton's sampling was available when mapping and '81 season sampling was still being processed at time of writing. Due to lack of time the earlier results won't be discussed at present.

Mapping and Line Locations

Geological mapping and location of grid lines, on 1;5000 plans carried out in the period 7th September - 23rd October 1981. Mapping confined to grid lines with intermediate traversing only in vicinity of major granite contacts see Dwg. 1. With grid lines between 300-600m apart it is possible that significant windows in Poimena or remnants of it on the Anchor granite have been overlooked.

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All lines and extensions north of and including 69N were traversed, a total of approx. 83.3 km. All data systematically recorded in field note books No. 1 - 4 see appendices (ii), notes on geology and clinometre slope angles recorded at least each 50 metres.

This information has then been drafted:

a) Dwg. 1. Fact Geology, line locations etc. on 1:5000 contour plans compiled by A.A. Surveys Pty. Ltd., sheets No. 1, 2, 4 - lines extending 300 m. west and 1500 m. north of sheet 1.

b). Dwg. 3 Grid line profiles and interpretive sections.

These profiles have been compiled from clinometre slope angles which were read each 25-50m along lines and base lines. These sections should be fairly accurate, and haven't been distorted to fit contour plans, may be useful as reference if doubts arise as to exact line locations on contour plans.

Grid lines have been located on plans by

a) definite control points see Dwg. 1, e.g. roads, mines, vegetation changes. This fascilitated by using 1:23,000 colour aerial photographs and enlargements of these superimposed on 1:5000 contour plans.

b) topographic section lines compiled from clinometre readings, these fitted to 1:5000 contour plans using above control points and 100m grid stations marked off.

Frequently difficulties and discrepancies found when fitting profiles to contour plans, this due to

i) incorrectly located topographic features (mainly streams) on 1:5000 contour plans e.g. Crystal Creek lines 72-78N, 2200-2500W, has been located 100m to far west.

ii) distortions up to 50 m. common over 2500 m. sections between base lines where streams and hill tops on profiles don't quite coincide with contour plans. This due to slight ground measurement and plotting errors.

iii)grid line and base line intersections may be up to 75m out due to bearing errors along lines over 2500m between base lines. This most prominent on OCOBL between 81.5N - 108N, some confusion with labelling on the base line occurs - attempt to fit coordinates to line intersections.

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GEOLOGY

Blue Tier area has a long history of tin mining, predominantly shallow eluvial and alluvial with scattered open pit hard rock mining. First detailed exploration carried out by Mt. Lyell in 1904-1906 over mines and prospects between the Anchor and Mount Michael. This and more recent Tas. Mines Dept. mapping 1:50,000 Ringarooma Sheet is the only previous work referred to. The Ringarooma Sheet doesn't quite cover the gridded area - extending to just west of Poimena A.M.G. 583,800E approx. 3800-3900 m. grid east. This Mines Dept. data has been enlarged to 1:25,000 scale "EL 9/76 Blue Tier Area - Regional Geology", also shows location of primary tin deposits.

Devonian - Carboniferous Blue Tier Batholith

This a large multiphase granitic intrusive which has been completely unroofed in the licence, the nearest intrusive contact with Siluro-Devonian Mathina beds, occurs 3 km. S.W. of Weldborough. Two major granitic phases outcrop in the grid area, the older Poimena Biotite Granite/Adamellite and the younger intrusive Lottah Sheets/Anchor Granite. In addition an intermediate phase, aplites and possible lamprophyres have been mapped the former probably related to the Anchor granite. All rock descriptions are based on hand specimens no thin sections have been described.

Tin mineralization is associated with greizen and sericitic alteration which is directly related to the Anchor granite.

Poimena Biotite Granite/Adamellite.

This is typically pale grey, ranging from fine-coarse grained, consistently porphyritic with abundant white feldspar phenocrysts up to 4 cm. (minor pink feldspar in the Poimena occur N.W. of Mt. Marie in the Wyniford River), occasionally feldspars are roughly orientated. Biotite is the only mafic mineral, occuring in fine irregular aggregates, rarely as distinct large flakes, muscovite is absent except where greizenisation has occured.

The granite/adamellite has been subdivided into three mapable units on the basis of grainsize:

coarse 5 - 10 mm
medium 2 - 5 mm
fine <2mm

All are feldspar porphyritic and the finer ones tend to be quartz porphyritic also. Contacts between divisions are gradational and difficult to map, many minor changes occur which have been overlooked.

The Poimena forms the most prominent topography, particularly the coarser grained variety e.g. Mount O'Rielly, Mount Marie, Masher and Poimena Hills. Soils are typically brown - orange brown clayey supporting myrtle - (Nothofagus cunninghamii) - sassafras (Atherosperma moschatum) dominated rainforest with open understory. Abundant myrtle logs cover the ground on cleared Poimena granite, these remnants of the above type of rainforest.

Lottah Sheet/Anchor Granite

This the younger tin granite is associated with late stage aplite/pegmatites. Usually it is fine - medium grained equigranular with both biotite and muscovite, the latter may be secondary associated with alteration which is more prevalent in this granite than the older Poimena. Unlike biotites in the Poimena they occur as distinct flakes which are equigranular with quartz and feldspar.

The anchor granite includes several variations based on grain size and degree of equigranularity:-

-: 2-5 mm equigranular quartz, biotite, cream-pink/orange feldspars.

-: quartz muscovite/biotite 2-5mm dominant with intersitial $<$2mm groundmass of quartz and feldspar Coarser quartz tends to be porphyritic, forming an interlocking mesh of crystals. Outcrops typically have a sugary - granular appearance.

-: quartz-feldspar porphyritic in 2 mm. quartz feldspar muscovite/biotite groundmass. This porphry is distinct from those of the Poimena.

These variations haven't been subdivided into mappable units due to continual variation, and subtle differences which are difficult to consistently recognize regionally. In more detailed local mapping they could be seperated.

Typically outcrop of this granite is more subdued but forms some positive features e.g. Australia Hill, and Mount Michael. Soils are grey, tend to sandy, more acid than Poimena, supporting rainforest still dominated by myrtle but with celery top pine subdominant (Phyllocladus asplenifolius) and an epacridaceous understory.

Intermediate Granite

Located between the Poimena and Anchor granites, it is a non descript unit having features of both the major units, and is difficult to allocate to either. On Mines Dept. Ringarooma sheet there is quite good correspondence to Dbapf:Porphyritic, fine medium grained, biotite-muscovite granite/adamellite with feldspar phenocrysts.

In the Kent mining leases the intermediate type is associated with greizenisation and minor sericitization in Tin Dish Creek 75N/750-800W.

Aplites

These appear to be contemporaneous with the Anchor granite - this assumption based on the fact that they've only been recognised in the Poimena. However aplites only contain muscovite and are always fresh-unaltered indicating that they may be associated with a later phase.

Aplites occur as dykes and sills ranging from a few cm. - 10 metres thick, with no preferred orientation apparently intruding along joints and fractures. Usually they are fine, equigranular, cream-pink, often with feldspar muscovite pegmatite selveages.

Variations of the basic type occurs:

(a) very fine grained with appearance of a quartzose hornfels/xenolith, but contains scattered quartz phenocrysts.

(b) fine grained pale grey-green with pink feldspar and rounded quartz phenocrysts.

(c) fine grained orange-pink equigranular with scattered coarse muscovite segregations.

This latter type forms larger bodies than a & b.

Basic Intrusives

These occur throughout the mapped area predominantly in the Poimena, only in the Wyniford River upstream of Line 114N. were dykes observed in the Anchor granite. These basics are fine-medium grained, crystalline, black, occasionally with feldspar? phenocrysts 2000W/120N, the dykes or sills are usually less than 5m thick and are commonly associated with aplites - appear to have intruded the same joint.

There is no certainty about the age of these dykes but they are quite different from Tertiary basalts, may be associated with Jurassic dolerites but due to above spatial relationship with aplites it is presumed that they are Devonian - Carboniferous lamprophyres.

Occasionally the basics are slightly pyritic and have been prospected by pits and an adit 96N/2300E but don't appear to be related to tin mineralization.

Permian Sandstone - Conglomerate.

Outcrop of probably Permian quartzose sandstones and pebble conglomerates is restricted to line 81.5N 1900-2350E. These sediments have probably been derived from hornfelsed

Mathina beds, granitic detritus is a minor component.

The sandstone-conglomerate outcrops as a thin skin of sediment, underlying granite is frequently exposed. The presence of Permian sediments here may be significant indicating that the present Blue Tier plateau may have changed little since the early Permian, widespread secondary tin concentrations may not neccessarily indicate significant primary tin source but are the result of a long period of decomposition, erosion and concentration of very low primary tin grades.

Tertiary Basalt & Sediments

Like the Permian these are of very limited extent on the grid, remnants of basalt flows outcropping at 81.5N 000 & 1600E and granite-basalt derived sediments and possible flows at 96N 1600-1700E. This latter location may overly shallow tin bearing deep lead sediments - but would be of limited extent. More extensive basalts occur S.E. of the grid at Mt. Littlechild.

With this range of basalt remnants occuring at elevations from at least 650 - 850 m indicates a rugged early Tertiary terrain. The alluvial tin concentrations in the head of the Frome Valley may be remnants of Tertiary deepleads.

Regional Structures - Alteration and Mineralization

From 1:50,000 Mines Dept. mapping the Blue Tier area is the highest regionally - both topographically and in regards to level of intrusion of the Anchor granite. Within this possible domal feature in the licence several northerly trending domes and troughs can be recognized. These may reflect fold trends in the Mathinna Beds and possible associated intrusive granite contacts both with the country rocks and earlier granite phases.

The presence of these domes/troughs is based on interpretations of 1:5,000 line profiles and geological plans see Dwg. 2. & 3. Dips of intergranite contacts weren't observed and in the interpretation it is assumed that faulting is minimal. These domal features have only been interpretted in the north and east where Poimena cover on the Anchor granite is very thin or absent see profiles Dwg. 3, in the S.W. Poimena forms a complete cover, interpretations haven't been extended (extrapolated) to here. The most difficult section to interpret is in the Jubilee Hill/Frome River area, here it seems possible that the Poimena may be a remnant sill like megaxenolith within the Anchor granite.

Wyniford Dome

The axis of this feature strikes N.N.W. bifurcating at the southern end between lines 96-108N (axis N.E. & N.W.). To the west it is flanked by gently dipping contacts of approximately 5^{0} which extend 4 km. to a shallow N.N.E. - N.E. trending trough coinciding with the N.W.

limit of Poimena overlying the Anchor granite. An E-W trending dome may be superimposed in this feature trending subparallel to the Emu Flats - Wyniford River track.

Michael Dome

This axis is approximately 1.5 km. east of the above feature and parralleling it, striking through Little Mount Michael and approximately 200m west of Mount Michael. The eastern contacts dip more steeply see Dwg. 2 & 3.

Australia Dome

This centred on Australia Hill the E-W axis parralleling line 78N., this a true domal feature contacts apparently dipping away in all directions, 15° to Sth., < 5° to N, E and W. see Dwg. 3. The steep southerly dip explains the odd outcrop pattern of the Anchor granite between 69-78N. Within this feature major E.W. jointing and possible alteration may occur, this trend can also be seen in the Little Mount Michael - Line 114N area where strong E-W trending ridges and valleys can be seen in the Anchor granite.

Alteration in the Blue Tier Batholith is of two distinct types, sericitization and greizenisation. The former is more extensive but occurs only in the Anchor granite, where partial replacement of feldspars by pale yellow-green sericite has occured. Sericitization is diffuse and seems to be associated with domal features with the steepest dipping contacts in the Mt. Michael and Australia Hill area, the latter most extensive and has been interpretted as a contact capping effect in proximity to the Poimena see Dwg. 2. Although sericitization is usually diffuse - partial alteration it becomes more intense in some joints indicated by stoping and trenching in deeper primary tin workings.

The alteration may be more widespread, large areas of Anchor granite outcrops poorly - this may be due to less resistant sericitized granite.

Greizenisation is typically limited to steeply dipping veins a few cm. - 10 cm. thick, the alteration having occured along joints in the Poimena granite. The greizens vary from predominantly quartz - quartz muscovite, (both quartzs remnants of Poimena textures) the alteration commonly has a quartz vein core which occasionally carries coarse cassiterite. This style of alteration is best exposed in shallow elluvial workings 00E 10,050N, 78N 600E, 69N 600W. The most intense greizenization was observed in the Frome River 350m N.W. of the F.B. prospect, a shallow open cut has been excavated with a crusher located nearby.

These two styles of mineralized alteration occur throughout the grid area and have shed cassiterite into most streams encountered in mapping, frequently stream channels have been worked and where these flow in broader valleys alluvium up to 4 metres deep has been sluiced over large areas. The most extensive in the headwaters of the Frome River in Rieker's/Hyde's Lease and further upstream.

748054

APPENDICES (i)

ROCK SAMPLES GRID LOCATIONS

748055

EL 9/76 **ROCK SAMPLE LOCATIONS** Total 112

Line 750.N	275W. 640W. 870W	Jubilee Hill - Frome River Grid
500.N	750W.	
250.N	1000W	
Line 126.N	150.W 340.W 725.W 975.W 1275.W 2350.W 2900.W 3300.W	
Line 120.N	10.W 650.W 790.W 1310.W 2000.W 2825.W 850.E 950.E 1025.E 1450.E 2100-2150.E 3460.E 3850-3900E, 4050.E 4150-4200.E 4830.E	
Line 114.N	3150.N 3250.W 540.E 1475.E 2800-2950.E 3000-3050E 3650-3700E 3900-3950E 4160E 4600-4650.E	
Line 108.N	100.W 3075.W 60.E 400.E 1150.E, 3350-3400E, 3750.E 4950.E	
Line 102.N	1775.W 2175.W	
Line 96.N	1400-1440W 520.E 1600.E 2000-2100E	
Line 90.N	1350.E 1500-1550E	
Line 84.N	300.E, 1850.E, 1960.E, 2150.E 3300-3315E 84.4N/3150E.	
Line 81.5N	100.E 475.E, 1575.E, 1900.E 2175.E - 2275.E 3000.E	
Line 81.N	650.E 2175.E	
Line 78.N	650.W, 725.W 790.W, 1000.W 600.E 1025.E	
Line 75.N	600.W 800-850W 950-1000W, 1025W 1525.W 2090.W 675.E 1550.E 2175.E	
Line 72.N	1250.W 2425.W 2525.W 125.E 450.E 1175.E 1325.E	
Line 69.N	200.W, 370.W, 560.W, 1150.W, 1350.W 1725.W, 950.E, 1350.E	
BL 000	100.5N, 104.N, 109.5N, 112.6N	

748056

Samples between grid lines.

No.	Grid Coords approx.
1.	11700N/000E Wyniford River
2	11375N/1100E " "
3	11250N/1275E " "
4	10950N/1450E " "
5	9600N/4100E " "
6	10350N/4725E
7	200N/300E Frome River N.W. Lease
8	10425N/1250E
9	900N/3800E

APPENDIX 3

McClenaghan and Williams, 1981 : Distribution of major granitoid bodies in the Blue Tier Quadrangle. Mines Department Unpublished Report 1981/22

1981/22. Distribution of major granitoid bodies in the Blue Tier Quadrangle.

M.P. McClenaghan
P.R. Williams

Abstract

Granitoid rocks in the Blue Tier 1:50 000 Quadrangle fall into fourteen distinct classes distinguishable by their physical and chemical characteristics. Map distribution patterns show the complex nature of alkali feldspar granite and adamellite relationships in the Blue Tier area and point to the multiplicity of intrusion events in the Blue Tier batholith.

INTRODUCTION

Recently completed geological mapping of the Blue Tier 1:50 000 Quadrangle has led to a revision of the method of subdivision of granitoid rocks in the Blue Tier area. These new criteria are evident from the following legend. The provisional geological map presents the rock distribution of major granitoids in the area only, and ignores several minor granite types and intrusions, the divisions of the Cainozoic deposits and the structural geology of the quadrangle. The purpose of this provisional publication is to make available the revised terminology for granitoids and the detailed rock distribution, in an area of potential economic interest.

LEGEND

Q — Quaternary and Tertiary deposits, consisting of alluvium and marsh deposits, beach sand, mobile dune sand and older alluvium. The Tertiary deposits are sand, gravel, granule conglomerate, silcrete and ferricrete.

Sdsm — Contact metamorphosed quartz-wacke and mudstone sequences. Mathinna Beds.

IGNEOUS ROCKS

Tb — Tertiary alkali-olivine basalt.

Jdl — Jurassic dolerite.

DCdl — Probably Devonian deuterically altered dolerite dykes.

Devonian Granitoid Rocks

Dbage — Fine- to medium-grained biotite and white-mica bearing alkali-feldspar granite. Equigranular varieties.

Dbagm — Fine- to medium-grained alkali-feldspar granite with large pale-brown mica aggregates. Pegmatitic patches frequent.

Dbape — Porphyritic to equigranular fine-grained greisenised adamellite with small feldspar phenocrysts (<15 mm) and larger than average quartz grains in porphyritic varieties. Muscovite dominant over biotite in equigranular varieties.

Medium- to coarse-grained biotite, minor muscovite adamellite varieties:

Dbapc with K-feldspar phenocrysts of approximately 25 mm mean size.

Dbapm with K-feldspar phenocrysts (<25 mm mean size), plagioclase phenocrysts and quartz phenocrysts in medium-grained matrix.

Dbaec Equigranular.

Fine-grained biotite-muscovite adamellite varieties:

Dbaf Equigranular.

Dbapf with small plagioclase (<15 mm) and quartz phenocrysts.

Coarse- to very coarse-grained biotite adamellite varieties:

Dbasc with very abundant K-feldspar phenocrysts (>30 mm mean size) or with seriate texture.

Dbacg containing garnet.

Granodiorite bodies.

Dbg Medium- to coarse-grained biotite hornblende granodiorite.

Dbb Medium- to coarse-grained biotite granodiorite.

Minor granitic intrusions:

Dba Aplite

Dbqfp Quartz-feldspar porphyry.

[5 May 1981]

TABLE 2

Plagioclase Composition	Texture	Phenocryst Composition	Phyllosilicate Composition	Grainsize	Symbol Number	Rock Name
Albite	Equigranular	-	Biotite/ muscovite	Medium	1	Equigranular alkali-feldspar granite
Albite	Phyric	Quartz/ K-feldspar	Biotite	Medium	2	Phyric alkali-feldspar granite
Oligoclase/Andesine	Phyric	Orthoclase	Biotite	Coarse	3	Phyric coarse-grained adamellite
Oligoclase/Andesine	Phyric	Plagioclase/ Orthoclase/ Quartz	Biotite/ muscovite	Medium	4	Phyric medium-grained adamellite
Oligoclase/Andesine	Phyric	Plagioclase/ Quartz/ Orthoclase	Biotite/ muscovite	Fine	5	Phyric fine-grained adamellite
Oligoclase/Andesine	Equigranular	-	Biotite	Coarse	6	Equigranular coarse-grained adamellite
Albite/Oligoclase	Equigranular/ Phyric	Quartz/ Orthoclase	Muscovite/ biotite	Fine	7	Altered (greisenized) adamellite

APPENDIX 4

Soil sample descriptions (by contractor N. Poltock)

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FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Ties TRAVERSE 69 North DATE Sept-81 OBS Pollock

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
9S0W		.4	Can.
10000W		.6	grey/brown.
10S0W		.4	Can.
11000W		.5	dark/grey
11S0W		.6	Can/grey
12000W		.6	" "
12S0W		.6	" / brown.
13000W		.7	"
13S0W		.2	Can o/c organic.
14000W		.6	red/brown.
14S0W		.7	buff.
15000W		.8	"
15S0W		.6	"
16000W		.2	dark grey.
16S0W		.7	grey/brown.
17000W		.5	Can.
17S0W		.3	dark grey o/c
18000W		.7	grey/brown.
18S0W		.4	buff.
19000W		.5	Can.
19S0W		.6	"
20000W		.5	"
20S0W		.6	" / brown.
21000W		.7	"
21S0W		.5	"
22000W		.6	"

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FIELD SHEET FOR GEOCHEMICAL SURVEY 748063

AREA Blue Tiers TRAVERSE 69 North DATE Sept '81 OBS. Rock.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
22Sow		.5	brown.
23Sow		.7	can/ " — cabbage patch.
23Sow		.6	" " " " "
24Sow		.5	brown.
24Sow		.7	light / brown.
24E			
25Sow		.8	dark / grey
25Sow		.8	grey / brown.

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FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Ties. TRAVERSE 7L North DATE Oct '81 OBS Pollock

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
11S0W		.6	dark grey.
12OOW		.5	" "
12S0W		.5	" "
13OOW		.6	" "
13S0W		.4	tan.
14OOW		.5	grey/brown.
14S0W		.4	" "
15OOW		.2	grey o/c.
15S0W.		.2	" "
16OOW		.4	"
16S0W		.2	" "
17OOW		.5	grey.
17S0W		.5	" /brown.
18OOW		.6	buff.
18S0W.		.6	grey.
19OOW		.5	brown.
19S0W		.6	grey/brown
20OOW		.5	brown.
20S0W		.4	grey.
21OOW		.5	" /brown.
21S0W		.6	" "
22OOW		.5	grey organic.
22S0W		.6	"
23OOW		.5	"
23S0W		.4	"
24OOW		.25	"
24S0W		.4	tan/brown.

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FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 72 North. DATE Oct. 81 OBS Elliott.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
2500W		. 4	grey/brown.
2525W		. 6	" "
2600W		. 6	tan/ "
2650W		. 45	" "
2700W.		. 6	grey/brown.
2750W		. 3	grey o/c organic.
2800W.		. 5	tan.

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FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 75 North DATE Oct 81. OBS Tait.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
1350W		.6	Brown.
1400W		.7	"
1450W		.6	" workings.
1500W		.3	"
1550W		.3	
1600W		.4	
1650W		.4	grey.
1700W		.2	" o/c
1750W		.2	" "
1800W		.4	light grey.
1850W		.6	"
1900W		.2	buff o/c organic.
1950W		.7	light grey.
	no soils		
2100		.2	grey o/c organic.
2150		.3	" " "
2200		.25	" " "
2250W		.3	" "
2300W		.4	Clay.
2350W		.4	olive grey clay.
2400W		.4	" " "
2450W		.4	Clay.
2500W		.6	"
2550W		.4	Brown.
2600W		.6	Buff.

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FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 75 North DATE Oct 81 OBS Black

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
000W		.4	Light brown.
050W		.4	" grey o/c.
100W		.2	dark " " organic.
150W		.5	Light brown.
200W		.2	dark grey o/c organic.
250W		.3	" " " "
300W		.6	brown.
350W		.7	"
400W		.7	Sandy.
450W		.7	"
500W		.8	Light brown.
550W		.4	" "
600W		.9	grey/brown workings.
650W		.3	" "
700W		.5	Sandy.
750W		.5	brown.
800W		.4	"
850W		.6	"
900W		.6	" workings.
950W		.5	"
1000W		.9	" "
1050W		.4	" "
1100W		.5	" "
1150W		.4	" "
1200W		.5	"
1250W		.7	"
1300W		.3	"

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FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tuss TRAVERSE 81 North DATE Oct 81 OBS Tolloc

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
2800E		.3	Light brown.
2850E		.5	grey / brown.
2900E		.4	dark brown.
2950E		.1	skelital soils
3000E		.2	"

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FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 81 NorL DATE Oct. 81 OBS Tolbert

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
1450E		.2	Colus Soils.
1500E		.3	dark grey/brown.
1550E			
1600E		.3	light grey.
1650E		.3	dark brown.
1700E		.4	" "
1750E		.3	light grey.
1800E		.3	" "
1850E		.3	grey/orange.
1900E		.3	" /cream.
1950E		.4	light grey.
2000E		.3	" " /brown.
2050E		.3	" " /cream.
2100E		.5	grey/brown.
2150E		.4	dark "
2200E		.4	" "
2250E		.4	light brown.
2300E		.3	" "
2350E		.4	dark grey/brown.
2400E		.5	light " "
2450E		.3	" brown
2500E		.3	"
2550E		.4	" grey.
2600E		.1	fine granitic gravels.
2650E		.5	grey brown.
2700E		.3	light "
2750E		.3	" "

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748070

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 81 North DATE Oct-81 OBS Tolla

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
50E		.6	light grey / brown.
100E		.5	" "
150E		.6	" "
200E		.4	" "
250E		.5	" "
300E		.5	" "
350E		.4	" "
400E		.6	grey / brown
450E		.4	light / brown
500E		.5	" "
550E		.4	" "
600E		.4	" "
650E		.5	" "
700E		.5	grey / brown
750E		.4	light brown
800E		.4	" "
850E		.4	" "
900E		.5	" "
950E		.4	" "
1000E		.6	" "
1050E		.7	brown.
1100E		.7	light "
1150E		.7	" "
1200E		.4	brown
1250E		.6	"
1300E		.8	light brown.
1350E		.7	" "

748071

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 84 North DATE Oct. 81 OBS Pollock

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
1400E		.5	brown
1450E		.6	light brown.
1500E		.4	" "
1550E		.4	" "
1600E		.5	brown.
1650E		.5	" "
1700E		.4	light brown.
1750E		.6	grey/ "
1800E		.4	brown.
1850E		.6	light brown.
1900E		.4	" "
1950E		.5	brown.
2000E		.3	" workings.
2050E		.3	light " "
2100E		.4	" "
2150E		.4	grey/ " workings.
2200E		.3	" "
2250E		.3	light brown.
2300E		.4	" "
2350E		.3	" "
2400E		.3	" "
2450E		.5	" "
2500E		.4	grey/brown.
2550E		.4	" "
2600E		.3	" "

748072

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 84 North DATE Oct 81 OBS Tolluck

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
000		.9	Light brown.
050E		.8	" "
100E		.7	" "
150E		.7	" "
200E		.7	
250E		.6	
300E		.6	brown
350E		.5	Light brown.
400E		.7	grey brown.
450E		.6	Light brown
500E		.5	" "
550E		.6	" "
600E		.4	" "
650E		.5	" "
700E		.5	" "
750E		.6	brown.
800E		.6	" "
850E		.6	"
900E		.5	Light brown.
950E		.6	" "
1000E		.6	" "
1050E		.5	grey / brown.
1100E		.2	" "
1150E		.5	reddy / brown.
1200E		.6	Light brown.
1250E		.5	grey brown.
1300E		.6	Light brown.
1350E		.2	" "

RENISON LIMITED

748073

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 90 North. DATE Oct 81 OBS Pollock

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
1450E		.5	Light brown.
1500E		.5	brown
1550E		.4	dark grey.
1600E		.6	light brown.
1650E		.4	" "
1700E		.3	dark grey/brown.
1750E		.4	light brown.
1800E		.5	" "
1850E		.5	" "
1900E		.4	grey/brown.
1950E		.6	light brown.
2000E		.5	" "
2050E		.4	" " workings.
2100E		.5	" " "
2150E		.4	grey.
2200E		.4	" "
2250E		.4	" "
2300E		.3	light brown.
2350E		.3	" "
2400E		.3	" "
2450E		.4	brown.
2500E		.3	grey brown
2550E		.3	" "

748074

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 90 North DATE Oct-81 OBS Tolloch

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
050E		.4	Light brown.
100E		.5	grey / " workings
150E		.6	brown.
200E		.5	Light "
250E		.4	" "
300E		.4	" "
350E		.5	" "
400E		.4	" "
450E		.5	" "
500E		.6	" "
550E		.4	" "
600E		.5	brown
650E		.5	grey.
700E		.3	brown.
750E		.4	"
800E		.6	"
850E		.5	"
900E		.6	"
950E		.5	"
1000E		.5	
1050E		.7	Light brown
1100E		.6	grey.
1150E		.5	"
1200E		.3	Light brown
1250E		.4	" "
1300E		.5	brown.
1350E		.4	Light "
1400E		.5	" "

RENISON LIMITED

748075

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers. TRAVERSE 96 North. DATE Sept '81 OBS Polak.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
2750W		.4	fawn.
2800W		.6	grey/brown.
2850W		.5	fawn.
2900W		.5	"
2950W		.4	tan.
3000W		.5	"
3050W		.6	"
3100W		.8	"
3150W		.6	"
3200W		.8	brown.
3250W		.7	"
3300W		.6	fawn.

RENISON LIMITED

748076

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 96 North DATE Sept. '81 OBS Smith

STATION	SAMPLE NO.	DEPTH Metres.	DESCRIPTION
1400W		.6	O/C brown.
1450W		.4	grey / "
1500W		.3	dark grey.
1550W		.4	brown.
1600W		.7	tan.
1650W		.7	"
1700W		.7	"
1750W.		.6	"
1800W		.5	fawn.
1850W.		.6	" / brown.
1900W.		.6	" "
1950W		.4	" "
2000W		.4	" "
2050W		.6	" "
2100W		.5	" "
2150W		.5	"
2200W		.6	"
2250W.		.7	"
2300W		.6	"
2350W		.5	fawn.
2400W		.6	"
2450W		.8	brown.
2500W		.6	"
2550W		.4	"
2600W		.2	O/C dark grey - organic
2650W		.5	red/brown.
2700W		.4	brown.

RENISON LIMITED

FIELD SHEET FOR GEOCHEMICAL SURVEY

748077

AREA Blue Tiers TRAVERSE 96 North DATE Sept 81 OBS Pollock

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
50W		.7	Can
100W		.6	"
150W		.4	O/C Brown
200W		.8	Can/Brown
250W		.4	" "
300W		.6	" "
350W		.6	workings " "
400W		.4	Can.
450W		.4	"
500W		.5	"
550W		.5	"
600W		.4	grey gravels
650W		.5	Can.
700W		.5	"
750W		.7	"
800W		.8	"
850W		.6	" /Brown.
900W		.6	"
950W		.7	"
1000W		.6	"
1050W		.7	"
1100W		.5	Brown.
1150W		.5	"
1200W		.4	O/C "
1250W		.6	" "
1300W		.8	"
1350W		.6	" grey/Brown.

RENISON LIMITED

748078

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tier TRAVERSE 96 North DATE Oct-81 OBS Pollock

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
2850E		.4	grey/brown o/c.
2900E		.3	" " "
2950E		.5	" " "
3000E		.5	Can
3050E		.5	" workings
3100E		.4	grey/ " "
3150E		.5	fawn
3200E		.6	"
3250E		.7	red/brown
3300E		.6	" "
3350E		.6	" "
3400E		.5	" "

RENISON LIMITED

748079

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 96 North DATE Oct '81 OBS Pollock

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
1450E		.3	yellow brown.
1500E		.3	" "
1550E		.2	dark brown.
1600E		.4	" "
1650E		.4	" "
1700E		.4	" "
1750E		.4	" "
1800E		.5	yellow brown.
1850E		.5	grey brown
1900E		.4	alluvial ground clays.
1950E		.3	orange brown.
2000E		.3	grey. gritty.
2050E		.3	" "
2100E		.3	" "
2150E		.3	brown.
2200E		.4	" clayy.
2250E		.3	yellow / brown.
2300E		.3	brown
2350E		.3	"
2400E		.2	"
2450E		.2	dark brown
2500E		.4	grey / orange / brown
2550E		.3	grey sands.
2600E		.5	tan / brown
2650E		.3	" " ok
2700E		.4	dark grey.
2750E		.5	grey / brown ok
2800E		.3	

RENISON LIMITED

748080

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 96 North DATE Oct '81 OBS Pollock

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
50E		.4	Can / Brown.
100E.		.4	" "
150E		.3	dark grey o/c.
200E		.5	Can / Brown.
250E		.6	Brown.
300E		.5	Can.
350E		.4	"
400E		.5	"
450E		.3	Brown.
500E		.6	Can / Brown
550E		.5	" "
600E		.6	"
650E		.5	"
700E		.2	orange / Brown
750E		.4	Brown
800E		.3	yellow / " crumbly
850E		.3	" " "
900E.		.4	dark Brown
950E		.2	" "
1000E		.2	" "
1050E		.5	cream yellow
1100E		.5	" "
1150E		.3	yellow Brown
1200E		.2	Brown
1250E		.4	"
1300E.		.4	grey / Brown
1350E.		.3	Brown

RENISON LIMITED

748081

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 102 North DATE Sept 81 OBS [illegible]

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
000E.			
050E.		.5	grey gravels workings
100E		.6	orange " "
150E.		.6	grey/ " "
200E.		.6	" " "
250E		.5	Can.
300E.		.4	" / brown.
350E		.6	" "
400E		.4	grey gravels.
450E.		.6	Can / brown.
500E.		.5	" "
550E.		.3	red / brown.
600E.		6	" "
650E.		.7	" "
700E		.4	grey. o/c
750E		.6	" / buff.
800E.		.5	orange / brown.
850E.		.4	" "
900E		.3	" "
950E.		.6	" / buff.
1000E		.4	grey o/c
1050E		.5	red / brown
1100E		.6	" "
1150E		.6	" "
1200E.		.4	dark brown o/c
1250E.		.5	red/ " "
1300E		.2	grey o/c

RENISON [illegible]

748082

FIELD SHEET FOR G[illegible]ICAL SURVEY

AREA Blue Tiers TRAVERSE 102 North DATE Sept 81 OBS Tolloch

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
1400E		.2	grey o/c.
1450E		.6	" gravels
1500E.		.6	Can. "
2000E.		.6	~~fawn/brown~~ grey gravels
2050E.		.5	orange grey.
2100E.		.4	grey gravels.
2150E.		.2	" o/c
2200E.		.4	" "
2250E.		.4	" "
2300E.		.4	red/grey.
2350E.		.3	grey o/c.
2400E.		.7	"
2450E		.4	Crown
2500E.		.2	grey o/c.
2550E.		.4	"
2600E		.2	" o/c.
2650E.		.3	grey gravels o/c.
2700E.		.4	Can.
2750E.		.5	grey
2800E		.5	"
2850E		.6	"
2900E		1.2	workings flood plains.
2950E		1.0	" " "
3000E		1.1	" fawn.
3050E.		.4	dark grey.
3100E.		.5	fawn/tan clay.
3150E		.4	" o/c

RENISON LIMITED

748083

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 10Z North DATE Sept 81 OBS Tolcock.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
3200E		.6	Can / brown
3250E		.6	" "
3300E		.8	workings grey sands.
3350E		.5	Can.
3400E		.5	dark grey.
3450E		.6	Can.
3500E		.6	" / grey workings.
3550E		.6	" "
3600E		.5	" "
3650E.		.6	yellow fawn.
3700E.		.7	Can / brown.
3750E		.6	" " workings.
3800E		.5	grey.
3850E		.6	"
3900E		.5	"
3950E		.5	light grey.
4000E	4000E	.4	grey.
4050E		.5	"
4100E		.3	"
4150E		.5	light "
4200E		.2	" "
4250E		.8	grey / brown.
4300E		.4	—
4350E		.8	dark / grey.
4400E		.5	" "
4450E		1.00	" " clay
4500E		1.00	" " "

748084

RENISON LIMITED

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers. TRAVERSE 102 North DATE Sept-81 OBS Black

STATION	SAMPLE NO.	DEPTH metres	DESCRIPTION
~~4650E~~	4530E	.8	grey / brown.
4600E		.4	" gravels.
4650E.		.2	" workings.
4700E		1.00	dark grey.
4750E		.8	"
4800E		1.00	"
4850E.		.9	grey / brown.
4900E		.8	light grey sandy gravels
4950E		.9	dark / grey / brown.
~~5000E~~		.6	tan / grey.

RENISON LIMITED

748085

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 102 North DATE August 81 OBS Rick

STATION	SAMPLE NO.	DEPTH inches	DESCRIPTION
0S0W		.8	orange / brown.
100W		.6	buff.
150W		.8	"
200W		.25	grey
250W		.5	" / brown.
300W		.5	grey
350W		.8	"
400W		.7	tan.
450W		.25	grey
500W		.6	tan.
550W		.7	"
600W		.9	"
650W		.7	"
700W		.6	workings orange.
750W		.2	o/c grey
800W		.7	tan.
850W		.6	workings tan.
900W		.6	" "
950W		.4	"
1000W		.7	brown.
1050W		.6	" workings
1100W		.4	"
1150W		.4	"
1200W		.25	"
1250W		.4	"
1300W		.5	grey
1350W		.4	buff workings.

RENISON LIMITED

748086

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Ties TRAVERSE 102 North DATE August '81 OBS Black

STATION	SAMPLE NO.	DEPTH Metres	DESCRIPTION
1400W		.3	grey workings.
1450W		.6	fawn.
1500W		.5	"
1550		.4	"
1600W.		.5	"
1650W		.4	"
~~1700W~~		.6	grey
1750		.5	"
1800W		.4	fawn.
1850W		.3	"
1900W		.6	Red/brown.
1950		.7	orang/brown.
2000W		.5	brown.
2050W		.7	Red/brown.
2100W		.6	" "
2150W		.5	" "
2200W		.45	" "
2250W		.5	brown.
2300W		.8	fawn.
2350W		1.00	orange/brown
2400W		.7	" "
2450		.8	" "
2500		1.2	" "
2550		.9	brown.
2600		.8	grey/brown
2650		.5	fawn
2700		.6	tan.

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748087

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 10Z North DATE July '81. OBS Pollock

STATION	SAMPLE NO.	DEPTH metres		DESCRIPTION
27S0W		.	8	fawn.
28 00W		.	8	"
28S0W		.	6	"
29 00W		.	8	working orange/brown.
29S0W		.	2	" cream clay.
3000W		1	00	" grey
30S0W		.	5	"
3100W		.	6	"
31S0W		.	7	workings tan.
3200W		.	35	fawn.
32S0W		.	7	brown.
3300W		.	6	tan.

KENNECOTT EXPLORATION

748088

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 108 North DATE August 81 OBS Pilcher

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
2850W		.65	red/brown
2900W		.45	" "
2950W.		.45	" "
3000W		.5	brown.
3050W.		.25	grey/brown
3100W		.6	" "
3150W		.6	" "
3200W		.6	brown.
3250W		.5	dark grey
3300W		.5	" "

RENISON LIMITED

748089

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 108 Grid DATE August 81 OBS Tillock

STATION	SAMPLE NO.	DEPTH Metres	DESCRIPTION
1350W.		.5	brown.
1400W.		.6	"
1450W		.7	"
1500W		.5	"
1550W		.6	"
1600W		.7	"
1650W		.6	"
1700W.		.8	workings red/brown.
1750W.		.6	" " "
1800 ~ 1950		nolés	washed out.
2000W		.5	red brown
2050		.5	" "
2100		.4	" "
2150		.5	brown.
2200		.6	"
2250		.8	fawn.
2300		.7	" /brown.
2350		.6	" "
2400		.7	orange/brown.
2450		.8	" "
2500W		.6	brown.
2550W		.5	fawn clay
2600		.5	" "
2650		.25	grey/brown
2700W.		.6	brown.
2750W		.6	
2800W		.5	fawn/brown.

KENTSON LIMITED

748090

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 108 North DATE August 81. OBS Polak

STATION	SAMPLE NO.	DEPTH metres	DESCRIPTION
000KL		.3	grey
050W		.4	Red/brown clay
100W		.6	" " "
150W		.6	" "
200W.		.7	workings grey
250W		.3	" "
300W		.25	" fawn.
350W.		.4	" orange.
400W		.3	" grey
450W		.6	" "
500W		.2	" "
550W		.5	" "
600W		.3	" "
650W		.4	orange/brown.
700W		.5	" "
750W		.4	brown.
800W		.3	Flood plain gravels — fair worked
850W		.3	" " " " "
900W		.3	workings orange brown.
950W		.2	" " "
1000W		.2	" " "
1050W		.4	" " "
1100W		.8	" " "
1150W		.3	brown.
1200W		.5	"
1250		.8	workings brown.
1300		.5	" "

RENISON LIMITED

748091

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 108 North DATE Oct 81 OBS Tolk

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
050E		.5	brown
100E		.5	"
150E.		.6	"
200E.		.6	"
250E.		.4	"
300E.		5	"
350E.		.7	"
400E		.2	dark brown.
450E.		.6	brown workings
500E		.7	" "
550E		.6	"
600E		.6	"
650E		.6	"
700E		.6	"
750E		.7	" workings.
800E.		.4	" "
850E.		.8	"
900E.		.7	red/- workings.
950E		.5	brown.
1000E		.5	"
1050E.		.8	grey/ "
1100E.		.6	"
1150E.		.8	"
1200E.		.8	grey/ "
1250E		.8	"
1300E		.6	"
1350E.		.7	Can.

RENISON LIMITED

FIELD SHEET FOR GEOCHEMICAL SURVEY 748092

AREA Blue Tiers TRAVERSE 108 North DATE Oct 81 OBS Tolbert

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
1400E		.6	brown
1450E		.3	grey
1500E		.3	" / brown
1550E		.2	o/c
1600E		.7	brown
1650E		.7	
1700E		.5	Can.
1750E		.6	
1800E		.6	grey
1850E		.7	brown
1900E		.2	o/c dark grey
1950E		.3	o/c
2000E		.2	o/c
2050E		.3	o/c grey
2100E		.8	
2150E		.4	o/c grey / brown
2200E		.2	o/c dark grey
	Line	Star 68	@ 'BB' Base Line (2600E)
2650E		.3	grey / Can.
2700E		.5	brown
2750E		.8	Can.
2800E		.9	dark grey gravels
2850E		.4	" " "
2900E		.2	" " "
2950E		.9	grey Can gravels
3000E		.7	" — "
3050E		.8	" clay

RENISON LIMITED

748093

FIELD SHEET FOR GEOCHEMIC Y

REA Blue Ties TRAVERSE 108 North E Oct '81 OBS Pollock

STATION	SAMPLE NO.	DEPTH Metres		RIPTION
4450E		.	7	grey gravels
4500E.		.	6	" "
4550E		.	7	" "
4600E		.	8	dark grey
4650E.		.	8	" "
4700E		.	7	" "
4750E		.	7	" "
4800E		1.	2	Can grey.
4850E.		.	8	" "
4900E		.	8	" "
4950E		.	7	Can.
5000E.		.	6	" grey.

RENISON LIMITED

748094

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 108 North DATE Oct-81 OBS Tolcock

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
3100E		.3	light grey sandy gravels.
3150E		.6	" " "
3200E		.8	grey/fawn.
3250E		.7	fawn clay.
3300E		.6	light grey gravels.
3350E		.6	" " "
3400E		.5	" " "
3450E		.4	" " "
3500E		.3	" " "
3550E		.7	grey/fawn.
3600E		.3	" gravels.
3650E		.6	" "
3700E		.7	" "
3750E		.2	" "
3800E		.4	grey clay.
3850E		.5	" "
3900E		.7	" " gravels
3950E		.4	" " "
4000E		.3	" o/c
4050E		.6	"
4100E		.4	"
4150E		.5	"
4200E		.5	" clay
4250E		.4	" "
4300E		.7	" "
4350		.8	cream.
4400E		.6	grey gravels.

748095

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 114 North DATE Sept 8 OBS Tallach

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
2800W		.7	grey sandy soils
2850W		.7	" "
2900W		.5	" "
2950W		.5	" "
3000W		.5	" "
3050W		.3	" "
3100W		.2	" "
3150W		.2	O/c dark grey
3200W		.2	" "
3250W		.2	" "
3300W		.2	" "

RENISON LIMITED

748096

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers. TRAVERSE 114 North DATE Sept-81 OBS Pollock

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
	Soils		at 1500W on Emu Road.
1500W		.5	dark fawn
1550W		.6	orange/brown
1600W		.5	brown workings.
1650W		.5	grey
1700W		.5	buff
1750W		.6	light grey
1800W		.8	orange
1850W		.7	"
1900W		.6	buff
1950W		.5	dark grey
2000W		.6	tan
2050W		.8	
2100W		1.0	" / brown
2150W		.6	" workings
2200W		.5	fawn clay.
2250W		.4	tan workings
2300W		.3	"
2350W		.5	"
2400		.6	fawn
2450		.7	" workings
2500W		.8	grey / brown "
2550W		.6	" "
2600W		.5	" "
2650W		.4	brown
2700W		.5	"
2750W		.6	dark grey workings

RENISON LIMITED

748097

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers. TRAVERSE 11A North DATE Sept 81 OBS Talbot.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
4200E		.3	grey/brown ok.
4250E		.3	" "
4300E		.4	" "
4350E		.5	" "
4400E		.4	" "
4450E		.5	brown.
4500E		.5	grey/brown.
4550E		.7	" "
4600E		.4	" "
4650E.		.5	" "
4700E		.5	fawn clay.
4750E.		.7	" "
4800E		.7	" "
4850E.		.7	" "
4900E		.5	light grey.
4950E		.7	fawn.
5000E		.4	
5050E		.4	
5100E			base line AA'

RENISON LIMITED

748098

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 11/4 North DATE Sept 81 OBS Pollock

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
2850E		.3	grey/brown.
2900E		.4	" "
2950E		.4	" "
3000E		.8	" "
3050E		.2	" " o/c
3100E		.7	light brown.
3150E		.6	grey/brown.
3200E		.3	" "
3250E		.3	" "
3300E		.4	" "
3350E		.3	" "
3400E		.2	" " o/c
3450E		.3	" " "
3500E		.4	grey.
3550E		.8	/brown.
3600E		.2	" "
3650E		.5	" "
3700E		.7	" "
3750E		.4	" "
3800E		.5	" "
3850E		.3	" " o/c
3900E		.3	" " workings
3950E		.3	" " "
4000E		.2	" " "
4050E		.4	" "
4100E		.7	brown.
4150E		.6	"

RENISON LIMITED

748099

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 114 North DATE Sept '81 OBS Hallet.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
1450E		.3	dark grey.
1500E		.4	brown.
1550E		.4	dark brown
1600E		.9	"
1650E		.7	"
1700E		.6	grey.
1750E		.6	brown.
1800E		.3	grey/brown.
1850E		.9	brown.
1900E		.7	grey
1950E		.7	"
2000E		.4	"
2050E		.3	"/brown.
2100E		.3	brown
2150E		.5	"
2200E		.5	light "
2250E		.2	grey/brown OC.
2300E		.2	" "
2350E		.3	" "
2400E		.4	" "
2450E		.3	" "
2500E		.5	" "
2550E		.4	" "
2600E			Base Line 3B.
2650E		.4	grey/brown
2700E		.5	" "
2750E		.5	" "

RENISON LIMITED

748100

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 11A North DATE Sept 81 OBS Salek.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
050E		.4	Light brown.
100E		.8	" "
150E		.4	" " "
200E		.7	grey / "
250E		.6	Tan.
300E		.8	Light brown.
350E.		.6	Tan brown.
400E		.9	" workings.
450E		.6	Brown.
500E		.4	"
550E		.9	grey.
600E		.7	Light brown.
650E		.5	grey workings.
700E		.4	" / brown
750E		.7	dark grey.
800E		.3	o/c " "
850E		.7	" " "
900E		.6	grey brown.
950E		.2	o/c dark grey - organic.
1000E		.5	grey brown
1050E		.2	dark grey o/c
1100E		.3	" "
1150E		.4	grey brown
1200E		.5	"
1250E		.5	Light brown
1300E		.4	grey.
1350E		.4	brown

RENISON LIMITED

748101

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 120 North DATE Oct '81 OBS Pollock

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
4200E		.7	light brown.
4250E		.8	grey/ "
4300E		.6	light/ " "
4350E		.7	grey/ "
4400E		.6	" "
4450E		.5	" "
4500E		.6	light brown.
4550E		.6	" "
4600E		.3	grey/ "
4650E		.7	" "
4700E		.7	" "
4750E		.6	" red brown.
4800E		.5	" "
4850E		.7	yellow workings.
4900E		.9	grey brown.
4950E		.5	" "
5000E		.7	" "
5050E		.6	light brown.

RENISON LIMITED

748102

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 120 North DATE Oct 81 OBS Pollitt

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
2850E.		.5	Brown
2900E		.2	grey/ Brown o/c.
2950E		.4	" " "
3000E		.3	" "
3050E		.6	" "
3100E		.7	" "
3150E		.5	" "
3200E		.7	o/c " "
3250E		.3	o/c " "
3300E		.3	" "
3350E		.6	" "
3400E		.8	" "
3450E		.5	" "
3500E		.2	" "
3550E		.6	" "
3600E		.7	" "
3650E		.6	" "
3700E		.5	" "
3750E		.6	" "
3800E		.3	" "
3850E		.3	" "
3900E		.6	" "
3950E		.4	" "
4000E		.2	o/c - - - organic.
4050E		.4	" "
4100E		.5	" "
4150E		.8	Light Brown.

RENISON LIMITED

FIELD SHEET FOR GEOCHEMICAL SURVEY

748103

AREA Blue Tiers TRAVERSE 120 North DATE Oct 81 OBS Black

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
1450E		.6	light brown.
1500E		.8	" "
1550E		.4	" "
1600E		.3	" "
1650E		.3	" "
1700E		.7	" grey
1750E		.3	" "
1800E		.4	grey/brown.
1850E		.5	light grey.
1900E		.4	grey/brown
1950E		.7	" "
2000E		.5	" "
2050E		.5	" "
2100E		.4	" "
2150E		.4	" "
2200E		.5	" "
2250E		.7	" "
2300E		.4	" "
2350E		.3	brown.
2400E		.5	"
2450E		.4	grey/brown.
2500E		.3	" "
2550E		.3	" "
2600E		.4	" "
2650E		.3	" "
2700E		.3	" "
2750		.3	" "

RENISON LIMITED

748104

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 120 North DATE Oct '81. OBS Pollock

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
050E.		.7	brown
100E		.6	"
150E		.6	"
200E		.6	"
250E.		.6	"
300E.		.9	"
350E		.8	"
400E.		.8	"
450E		.5	grey
500E		.9	dark grey
550E		.6	" "
600E.		.9	" "
650E		.9	" "
700E		.7	" "
750E.		.4	" "
800E		.8	" "
850E		.3	" "
900E		.3	" "
950E		.4	" "
1000E.		.6	" "
1050E		.6	grey / brown
1100E		.3	dark/ " o/c.
1150E		.9	" "
1200E		.8	" "
1250E		.7	" "
1300E		.4	" / grey o/c.
1350E		.9	brown

RENISON LIMITED

748105

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 120 North DATE Sept. 81. OBS Solich.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
50W		.5	fawn.
100W		.5	"
150W		.6	"
200W		.5	grey
250W		.5	fawn.
300W		.4	"
350W		.5	brown.
400W		.6	"
450W		.3	o/c dark grey
500W		.7	brown/fawn
550W		.6	" "
600W		.7	" "
650W		.6	" "
700W		.9	o/c grey gravels.
750W		.4	" " "
800W		.2	" " "
850W		.8	tan.
900W		.4	"
950W		.7	"
1000W		.5	"
1050W		.5	"
1100W		.5	"
1150W		.6	"
1200W		.8	"
1250W		.7	"
1300W		.6	"
1350W		.7	orange brown.

RENISON LIMITED

FIELD SHEET FOR GEOCHEMICAL SURVEY 748106

AREA Blue Tiers TRAVERSE 120 North DATE Sept 81 OBS Pollock

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
1400W		4	brown.
1450W		5	"
1500W.		4	"
1550W		8	light / brown.
1600W		8	" "
1650W		6	" "
1700W		5	" "
1750W		5	grey
1800W		4	workings light brown.
1850W		3	O/C dark grey
1900W		5	brown.
1950W		5	fawn.
2000W		3	tan.
2050W		3	"
2100W		4	workings grey clay.
2150W		2½	" "
2200W		5	" "
2250W		7	" "
2300W		7	grey
2350W		4	light brown.
2400W		4	" "
2450W		3	"
2500W		9	yellow / brown.
2550W		6	dark "
2600W		9	grey brown.
2650W		7	" "
2700W		3	" "

RENISON LIMITED

748107

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 120 North DATE Sept 81. OBS Faust.

STATION	SAMPLE NO.	DEPTH metres		DESCRIPTION
27S0W		.	4	grey/brown.
28000W		.	5	" "
28S0W		.	6	o/c dark grey.
29000W		.	3	" " "
29S0W		.	9	" " "
30000W		.	9	" " "
30S0W		.	4	" " "
31000W		.	5	Light grey.
31S0W		.	5	o/c dark grey.
32000W		.	4	" " "
32S0W.		.	1	o/c organic.
33000W		.	1	" "

RENISON LIMITED

FIELD SHEET FOR GEOCHEMICAL SURVEY 748108

AREA Blue Tiers TRAVERSE 126 North DATE Sept '81 OBS Tatnall.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
27Sow.		.2	o/c dark grey.
2800w.		.1	" " " organic.
28Sow.		.4	dark grey.
2900w		.8	grey brown.
29Sow		.9	" "
3000w		.8	workings dark grey.
30Sow.		.2	o/c grey organic.
3100w.		.25	o/c
31Sow		.3	workings o/c red/brown.
3200w.		.5	" " " "
32Sow.		.5	o/c dark grey.
3300w.		.2	o/c " "

RENISON LIMITED

748109

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers. TRAVERSE 126 North. DATE Sept '81 OBS Black.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
1400W		.5	grey Brown.
1425W		.5	"
1500W		.3	Clay.
1525W		.3	"
1600W.		.3	" Brown.
1625W		.3	" "
1700W		.4	" "
1725W.		.5	Brown.
1800W		.6	Clay Brown.
1825W		.5	"
1900W.		.4	" "
1925W		.5	"
2000W		.3	o/c grey.
2025W		.6	"
2100W.		1.00	dark Brown.
2125W		.7	" "
2200W		.5	dark grey.
2225W		.7	grey Brown.
2300W		.3	o/c dark grey.
2325W		.8	grey.
2400W		.7	o/c dark grey.
2425W		.5	" " "
2500W		.8	grey.
2525W		.7	o/c dark grey.
2600W		.6	" " "
2625W		.4	" " "
2700W.		.7	" " "

RENISON LIMITED

748110

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tics. TRAVERSE 126 North. DATE Sept 81 OBS Fisk.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
50N		.4	buff / grey.
100N		.4	" "
150N		.3	" "
200N		.5	" "
250N		.4	" "
300N.		.4	" "
350N		.3	grey.
400N		.5	brown.
450N.		.5	"
500N		.5	tan.
550N.		.2	olive / grey o/c
600N		.4	" "
650N		.6	" "
700N		.6	buff.
750N		.2	grey o/c organic.
800N		.5	" "
850N.		.4	" "
900N		.2	" "
950N		.2	" "
1000N.		.4	light grey o/c.
1050N		.3	" "
1100N		.8	" "
1150N		.8	" "
1200N		.5	tan.
1250N		.6	"
1300N		.7	grey brown.
1350N		.6	" "

RENISON LIMITED

Top. Lease

FIELD SHEET FOR GEOCHEMICAL SURVEY

748111

AREA Blue Tier. TRAVERSE 250 North. DATE Sept '81. OBS Rock

Metres (128.5N)

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
000W		.5	Dark brown.
050		.5	"
100		.4	"
150		.5	"
200		.6	"
250		.6	"
300		.4	"
350		.4	grey/brown.
400		.9	" "
450		.9	" "
500		.8	brown.
550		.9	dark grey
600		.7	" "
650		.6	" "
700		.5	dark brown.
750		.6	" grey.
800		.7	" "
850		.2	o/c A horizon.
900		.5	dark brown
950		.4	" grey
1000		.7	" "

RENISON LIMITED

748112

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Top Lease Blue Tier TRAVERSE 500 North. (13 L.ON) DATE Sept '81 OBS Pollock

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
000W		.5	Workings Light Brown.
050W		.7	" "
100W		.8	Fawn
150W		.9	Light Brown.
200W		.7	" "
250W		.6	"
300W		.9	"
350W		.8	dark grey
400W		.3	" " o/c.
450W		.4	Brown.
500W		.4	dark grey o/c.
550W		.5	" "
600W		.8	grey / brown.
650W		.2	dark grey o/c.
700W		.5	'A' horizon
750W		.6	dark grey o/c.
800W		.3	" " "
850W		.5	" " "
900W		.3	" " "
950W		.2	" " "
1000W		.4	grey brown.

RENISON LIMITED

748113

FIELD SHEET FOR GEOCHEMICAL SURVEY

Top. Lease.

AREA Bruce Tier TRAVERSE 750 North (1335N) . DATE Sept '81 OBS Polcari

STATION	SAMPLE NO.	DEPTH Metres	DESCRIPTION
000W		.4	grey o/c.
050W		.3	" "
100W		.2	" "
150W		.6	fawn.
200W		.9	Light brown.
250W		.5	grey brown
300W		.6	"
350W		.6	dark grey.
400W		.8	"
450W		.6	" "
500W		.6	" "
550W		.3	A horizon o/c.
600W		.2	" " " "
650W		.3	" " " "
700W		.2	" " " "
750W		.4	" " " "
800W		.5	fawn.
850W		.5	"
900W		.7	dark grey.
950W		.7	" "
1000W		.2	A horizon.

RENISON LIMITED

748114

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE Baseline "AA" DATE Oct. 81 OBS Sollitt.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
97N		.7	Brown.
97.5		.8	Light Brown.
98		.9	Brown.
98.5		.9	grey
99		.9	Brown.
99.5		.9	"
100		.7	"
100.5		.8	Workings.
101		.8	"
101.5		.6	"
102		.5	"
102.5		.5	Light "
103		.7	"
103.5		.7	Brown.
104		.6	Light "
104.5		.7	" "
105		.5	" " Workings.
105.5		.5	" "
106		.6	Brown.
106.5		.5	Light "
107		.4	Can.
107.5		.8	dark Brown.
108		.4	" "
108.5		.5	grey.
109		.6	Brown.
109.5		.5	grey.
110		.3	Light Brown.
110.5		.4	

RENISON LIMITED

748115

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Ties TRAVERSE Base Line 'AA' DATE Oct 81. OBS Tollett.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
111W		.5	Light brown.
111.5		.6	" "
112		.7	"
112.5		.7	"
113		.4	dark grey.
113.5		.6	" / tan.
114		.4	" "
114.5		.5	grey / brown.
115		.5	" "
115.5		.2	o/c grey.
116		.7	brown.
116.5		.6	"
117		.7	"
117.5		.5	"
118W		.7	Light grey.
118.5		.8	grey / brown.
119		.8	tan.
119.5		.8	Light brown.
120		.6	" "
120.5		.7	brown.
121		.8	"

RENISON LIMITED

748116

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE Base Line "BB" DATE Sept '81 OBS Tolloch.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
108.5N			
109N		.6	grey brown
109.5N		.3	grey.
110N		.4	tan / brown
110.5N		~~.5~~	o/c grey
111N		.4	" "
111.5N		.6	o/c " / brown
112N		.4	" " "
112.5N		.3	" grey
113N		.4	" "
113.5N		.2	"
114N		.6	brown
114.5N		.3	"
115N		.4	light brown.
115.5N		.4	grey / brown.
116N		.8	" "
116.5N		.3	" "
117N		.5	" "
117.5N		.6	" "
118N		.6	" "
118.5N		.9	" "
119N		.6	" "
119.5N		.5	" "
120N		.3	dark grey / brown o/c.
120.5N		.4	" " "
121N		.5	grey / brown.

RENISON LIMITED

748117

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 000 W. Base Line DATE Sept '81 . OBS Black

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
81.5N		.3	brown
82N		.7	light "
82.5		.5	" "
83		.6	" "
83.5		.8	" "
84A		.8	" "
84B		.8	" "
84		.9	" "
85			
85.5		.4	grey brown.
86		.4	grey brown.
86.5		.4	light brown
87		.4	brown
87.5		.4	grey brown.
88		.6	" "
88.5		.6	brown
89		.5	light brown.
89.5		.4	fawn
90		.3	tan
90.5		.7	fawn
91		.3	brown.
91.5		.4	fawn.
92		.8	olive/fawn.
92.5		.8	brown.
93		.8	fawn
93.5		.3	tan.
94		.5	"

RENISON LIMITED

748118

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 200W. Base Line DATE Sept-81. OBS Frost.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
94.5N		.3	o/c fawn.
95		.8	Can
95.5		.4	o/c brown.
96N.		.5	"
96BN.		.8	"
96.5 BN.		.6	"
96B		.8	Can.
96.5		1.0	brown.
97		.4	"
97.5		.7	"
98N.		.7	workings light can.
98.5		.7	" "
99		.6	brown.
99.5		.4	"
100		.4	fawn.
100.5		.8	workings fawn.
101		.7	" "
101.5		.7	" can.
102		.6	orange
102.5		.6	workings "
103		.4	" cream clay.
103.5		.4	" grey.
104		.5	" "
104.5		.6	brown.
105		.45	grey/ "
105.5		.4	dark grey.
106		.3	" "

RENISON LIMITED

748119

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 000N/ Base Line DATE Sept 81 OBS Block.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
1065N		.7	Red / Brown.
107N.		.4	" "
107.5		.4	Tawn.
108		.4	dark grey.
108.5		→	
109		.6	grey brown
109.5		.5	" " workings.
110		.9	Brown
110.5		.5	grey brown
111		.5	light brown
111.5		.4	Brown
112		.4	light brown workings
112.5		.5	grey / " "
113		.7	light "
113.5		.3	" "
114		.3	" "
114.5		.7	Brown
115		.7	Tan
115.5		.5	light brown.
116.		.4	Brown.
116.5		.7	light "
117		.8	grey brown
117.5		.6	Brown
118		.8	Brown
118.5		.8	"
119.			
119.5			

RENISON LIMITED

748120

FIELD SHEET FOR GEOCHEMICAL SURVEY

AREA Blue Tiers TRAVERSE 800N Base Line DATE Sept '81. OBS Pratt.

STATION	SAMPLE NO.	DEPTH	DESCRIPTION
120N		.5	Sandy.
120.5		1.0	Grey
121		.5	grey / brown.
121.5		1.1	" gravels.
122		.4	Clay.
122.5		.5	"
123		.6	"
123.5		.6	"
124		1.0	Grey
124.5		.3	" gravels.
125		.7	" "
125.5		.7	Clay.
126A		.5	Brown
126B		.6	Brown.

APPENDIX 5

Soil geochemical assay results

KENISON LIMITED

GEOCHEMICAL ASSAY RESULTS

748122

Area: Blue Tier

Grid Line: BT Log N

Date: Jan 1982

	SOIL F	As	Cu	Pb	Zn	SN
000 W						
50						20
100						< 10
150						20
200						20
250						20
300						40
350						20
400						20
450						30
500						20
550						80
600						110
650						70
700						60
750						40
800						20
850						750
900						< 10
950	184		< 10	40	50	50
1000	156		10	30	30	20
1050	105		10	30	40	20
1100	44		20	30	20	20
1150	100		10	30	30	10
1200	120		10	30	30	40

748123

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BT 69 N

Date: Jan 1982

	Sil. F	As	Cu	Pb	Zn	Sn
1250 W	144		30	30	70	45
1300	116		70	20	40	30
1350	96		30	30	30	55
1400	64		40	40	20	30
1450	96		40	30	50	60
1500	122		40	30	50	45
1550	114		30	30	40	80
1600	32.4		10	<10	10	40
1650	64		10	30	20	20
1700	110		30	30	30	40
1750	32.4		<10	10	10	320
1800	64		<10	<10	10	210
1850	84		<10	10	20	140
1900	115		<10	10	30	120
1950	56		10	30	30	30
2000	58		10	30	20	45
2050	56		10	40	60	80
2100	70		<10	40	20	20
2150	120		<10	30	30	<10
2200	111		10	40	20	10
2250	179		10	30	30	<10
2300	216		<10	40	30	10
2350	226		10	40	30	10
2400	171		<10	40	20	10
2450	249		10	10	30	20

748124

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tick

Grid Line: BT 6N

Date: Jan 1982

	Sq. F	As	Cu	Pb	Zn	Sn
2500 W	187		20	50	40	10
2550	319		20	30	50.	20

GEOCHEMICAL ASSAY RESULTS

748125

Area: Blue Tie 1

Grid Line: BL 69N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	
00 E	10					
50	20					
100	10					
150	<10					
200	<10					
250	10					
300	20					
350	10					
400	<10					
450	<10					
500	<10					
550	<10					
600	10					
650	30					
700	20					
750	50					
800	10					
850	20					
900	10					
950	10					
1000	20					
1050	10					
1100	20					
1150	20					
1200	20					

GEOCHEMICAL ASSAY RESULTS

748126

Blue Hill

d Line: BT 69 W

ate: Jan 1982

	Sn	As	Cu	Pb	Zn	
1250 E	30					
1300	20					
1350	40					
1400	20					
1450	30					
1500	10					
1550	30					
1600	30					
1650	20					
1700	20					
1750	30					

GEOCHEMICAL ASSAY RESULTS

748127

Area: Blue Tier

Grid Line: BT 1 72 N

Date: January 1982

	Sn	As	Cu	Pb	Zn	
00	<10					
50 E	10					
100	10					
150	<10					
200	20					
250	10					
300	<10					
350	10					
400	<10					
450	<10					
500	10					
550	10					
600	40					
650	30					
700	<10					
750	10					
800	20					
850	20					
900	30					
950	10					
1000	20					
1050	10					
1100	20					
1150	<10					
1200	10					

GEOCHEMICAL ASSAY RESULTS 748128

Property: Blue Jay

Grid Line: BJ - 12 N

Date: January 1982

	Sn	As	Cu	Pb	Zn	
1250 E	10					
1300	10					
1350	10					
1400	20					
1450	10					
1500	40					
1550	10					
1600	20					
1650	20					
1700	20					
1750	30					
1800	60					

748129

GEOCHEMICAL ASSAY RESULTS

Area: ..BLUE...TKR.....

Grid Line: BT.....72N.....

Date: ..Jan...1962.....

	Sn	As	Cu	Pb	Zn	SOLF
000 W						
50	10					
100	10					
150	<10					
200	10					
250	20					
300	20					
350	10					
400	<10					
450	10					
500	40					
550	20					
600	20					
650	40					
700	370					
750	110					
800	10					
850	120					
900	20					
950	30					
1000	40					
1050	100					
1100	20					
1150	30		10	20	20	171
1200	40		10	20	20	171

GEOCHEMICAL ASSAY RESULTS

748130

BLK TICR

Page 2 of

id Line: BT A N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	SQ.F
1250 W	30		30	20	20	143
1300	50		50	20	30	143
1350	55		130	30	50	304
1400	70		40	20	20	275
1450	75		40	20	20	206
1500	45		50	10	10	L101
1550	120		10	10	10	206
1600	440		10	160	20	336
1650	290		L10	L10	10	105
1700	190		L10	10	10	466
1750	170		L10	10	20	629
1800	170		L10	10	20	494
1850	190		L10	L10	10	261
1900	145		L10	10	20	304
1950	170		L10	L10	10	494
2000	70		L10	30	20	417
2050	245		L10	L10	10	289
2100	190		L10	50	10	466
2150	125		L10	10	20	629
2200	120		L10	L10	10	137
2250	110		L10	10	20	716
2300	100		L10	10	20	523
2350	130		L10	10	10	466
2400	55		L10	L10	L10	115
2450	140		10	20	50	261

748131

GEOCHEMICAL ASSAY RESULTS

...Blue Tick.....

d Line: ...BT....72 N.....

ate: ...Jan.....1982.....

	Sn	As	Cu	Pb	Zn	Sn.F
2500 W	75		<10	10	20	216
2550	40		20	20	30	137
2600	35		10	20	20	171
2650	40		20	30	40	354
2700	160		10	40	40	206
2750	50		10	10	40	275
2800	40		<10	30	40	364

GEOCHEMICAL ASSAY RESULTS

748132

Area: Blue Tier

Grid Line: BL 75 N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn
0					
50 E	50				
100	10				
150	10				
200	40				
250	<10				
300	<10				
350	10				
400	30				
450	50				
500	30				
550	<10				
600	<10				
650	<10				
700	<10				
750	<10				
800	20				
850	<10				
900	20				
950	20				
1000	10				
1050	10				
1100	10				
1150	10				
1200	50				

GEOCHEMICAL ASSAY RESULTS 748133

Blue Tick

d Line: BL 75N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	SOL F
1250 E	<10					
1300	40					
1350	20					
1400	30					
1450	20					
1500	10					
1550	370					
1600	<10					
1650	<10					
1700	10					
1750	20					
1800	<10					
1850	20					
1900	<10					
1950	<10					
2000	20					
2050	20					
2100	10					
2150	20					
2200	90					
2250	20					
2300	20					

RENISON LIMITED

748134

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tick

Grid Line: BT...75N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	Sol F.
000 W	75		<10	20	10	179
50	20		<10	<10	10	110
100	30		20	20	50	206
150	40		10	20	30	196
200	20		10	10	30	<101
250	70		20	20	40	115
300	40		10	30	30	319
350	30		10	20	30	304
400	80		10	30	30	249
450	55		10	20	40	304
500	40		10	30	70	394
550	100		10	10	30	216
600	140		10	30	60	466
650	70		<10	10	10	304
700	245		10	10	20	319
750	130		10	20	20	196
800	130		10	10	10	261
850	320		10	<10	<10	171
900	105		20	<10	10	275
950	15		20	10	20	336
1000	210		20	<10	10	266
1050	330		10	<10	10	261
1100	2680		10	<10	10	143
1150	1120		<10	<10	10	120
1200	190		<10	<10	<10	110

RENISON LIMITED

748135

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BT 75 N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	
1250 W.	175		<10	<10	10	249
1300	90		<10	<10	10	187
1350	290		<10		10	35
1400	250		<10		10	40
1450	230		<10		10	70
1500	285		<10		10	15
1550	220		<10		10	20
1600	195		<10		10	25
1650	245		<10		10	40
1700	400		<10		10	60
1750	380		<10		10	35
1800	185		<10		10	50
1850	490		<10		10	20
1900	240		<10		10	15
1950	540		<10		10	15
2000	390		<10		10	15
2050	260		<10		10	15
2100	315		<10		10	25
2150	245		<10		10	55
2200	170		<10		20	55
2250	10		10		50	100
2300	20		<10		30	45
2350	<10		<10		10	35
2400	10		10		50	130
2450	20		30		30	65

RENISON LIMITED

748136

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: 13T: 75 ~~00~~ N

Date: Jan. 1982

	Sn	As	Cu	Pb	Zn	
2500 N	10		20		50	150
2550						
2600	20		20		50	150

GEOCHEMICAL ASSAY RESULTS

748137

Area: Blue Tier

Grid Line: B1 78N

Date: Jan. 1982

	Sn	As	Cu	Pb	Zn	
00 E	40					
50	10					
100	40					
150	30					
200	20					
250	30					
300	10					
350	20					
400	<10					
450	<10					
500	20					
550	30					
600	30					
650	70					
700	20					
750	10					
800	10					
850	10					
900	10					
950	<10					
1000	<10					
1050	20					
1100	10					
1150	10					
1200	20					

GEOCHEMICAL ASSAY RESULTS

748138

Area: Blue Tier

Grid Line: BT 78 N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	
1250 E	<10					
1300	<10					
1350	<10					
1400	20					
1450	<10					
1500	20					
1550	<10					
1600	20					
1650	10					
1700	10					
1750	10					
1800	10					
1850	<10					
1900	<10					
1950	10					
2000	10					
2050	10					
2100	<10					
2150	10					
2200	10					
2250	10					
2300	<10					
2350	<10					

748139

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BL 78 N

Date: Nov 1982

	Sn	As	Cu	Pb	Zn	S.I.F
000 W						
50						
100						
150						
200						
250						
300						
350						
400	45		10		50	100
450	110		30		60	220
500	40		20		30	95
550	<10		10		30	90
600	40		10		10	70
650	20		30		40	180
700	40		40		30	90
750	<10		10		20	35
800	100		10		10	50
850	100		20		20	75
900	500		<10		<10	35
950	400		<10		<10	20
1000	1950		<10		10	25
1050	230		<10		<10	15
1100	450		<10		<10	15
1150	150		<10		<10	15
1200 W	140		<10		<10	40

748140

GEOCHEMICAL ASSAY RESULTS

Area: ...Blk...Tier.....
Grid Line: .BT....78.N.....
Date: ..Jan.....1982.....

	Sn	As	Cu	Pb	Zn	Soil
1250 W	90		<10		<10	15
1300	45		<10		<10	15
1350	30		<10		<10	20
1400	60		<10		<10	20
1450	220		<10		<10	15
1500	290		<10		<10	15
1550	300		<10		<10	20
1600	260		<10		<10	30
1650	320		<10		<10	20
1700	250		<10		<10	40
1750	270		<10		<10	30
1800	910		<10		<10	15
1850	465		<10		<10	20
1900	1310		<10		<10	40
1950	680		<10		<10	50
2000	240		<10		<10	65
2050	370		<10		<10	65
2100	360		<10		20	120
2150	80		10		10	60
2200	80		10		60	230
2250	10		10		20	65
2300	10(45?)		<10		10	60
2350	20(40)		10		30	70
2400	20(40)		20		40	90
2450						

GEOCHEMICAL ASSAY RESULTS

748141

Area: Blue Tick

Grid Line: BL. 1 N.

Date: Jan. 1982

	Sn	As	Cu	Pb	Zn	Sn.F
2500 W	10 (45)		20		40	95
2550	30 (40)		40		60	110
2600	50		20		40	120
2650	30		10		20	90
2700	55		10		40	90
2750	40		10		30	85
2800	40		20		40	75
2850	50		20		30	90
2900	20		20		20	45
2950	30		10		30	75
3000	40		30		40	110

748142

GEOCHEMICAL ASSAY RESULTS

Area: BLUE TIER

Grid Line: BT 81 N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	SOL F
000 W	10		30	10	80	249
50 E	40		20	20	60	237
100	30		20	10	20	82
150	50		10	20	10	83
200	40		10	20	20	108
250	35		10	30	50	184
300	<10		20	20	30	118
350	10		10	20	20	126
400	50		10	10	80	102
450	70		10	20	30	160
500	40		20	20	30	132
550	50		20	20	40	116
600	70		20	20	40	110
650	85		10	20	40	130
700	60		<10	<10	10	118
750	25		10	20	20	180
800	55		20	20	30	192
850	40		10		30	180
900	40		10		30	106
950	20		<10		30	110
1000	35		10		70	188
1050	45		10		20	86
1100	50		10		50	158
1150	60		20		80	184
1200	65		10		20	108

748143

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tic! N

Grid Line: BT 81

Date: Jan. 1982

	Sn	As	Cu	Pb	Zn	Sn.F
1250 E	40		10		50	194
1300	50		10		30	97
1350	40		20		60	150
1400	60		20		50	116
1450	40		10		40	62
1500	50		30		80	70
1550	40		10		30	68
1600	40		10		40	110
1650	50		10		10	50
1700	60		130		80	116
1750	35		30		10	76
1800	10		<10		10	52
1850	50		20		70	130
1900	50		<10		10	56
1950	50		10		10	72
2000	40		<10		10	60
2050	25		<10		10	45
2100	120		<10		10	72
2150	50		<10		20	72
2200	70		10		30	130
2250	85		<10		10	70
2300	105		<10		10	70
2350	60		10		20	82
2400	105		10		20	86
2450	150		10		20	71

GEOCHEMICAL ASSAY RESULTS

748144

Area: Blue Tick

Grid Line: BF. 81 N

Date: Jan. 1952

	Sn	As	Cu	Pb	Zn	S.G.F
2500 E	70		20		30	42
2550	140		10		30	94
2600	230		10		10	38
2650	160		<10		10	32
2700	185		<10		<10	31
2750	470		<10		<10	33
2800	280		<10		<10	26
2850	460		<10		<10	28
2900	215		<10		10	27
2950	380		<10		10	32
3000	280		<10		10	34

GEOCHEMICAL ASSAY RESULTS

748145.

Area: Blue Tit

Grid Line: BT 81 N

Date: 31 Jan 1982

	Sn	As	Cu	Pb	Zn	
45 E	40					
45.5	150					
46	80					
46.5	20					
47	10					
47.5	10					
48	20					
48.5	30					
49	20					
49.5	40					
50	20					
50.5	20					
51	20					
51.5	10					
52	<10					
52.5	<10					
53	60					
53.5	40					
54	10					
54.5	30					
55	10					
55.5	10					
56	10					
56.5	10					
57	<10					

GEOCHEMICAL ASSAY RESULTS

748146

Rice Tick

Line: BT: 61 N

ce: Jan 1982

	Sn	As	Cu	Pb	Zn	
575 E	30					
58	20					
58.5	20					
59	<10					
59.5	<10					
60	<10					
60.5	10					
61	10					
61.5	20					
62	10					
62.5	10					
63	10					
63.5	<10					
64	<10					
64.5	<10					
65	<10					
65.5	10					
66	10					
66.5	10					
67	<10					
67.5	<10					
68	10					
68.5	<10					
69	10					
69.5	10					

GEOCHEMICAL ASSAY RESULTS

Blue Tier

ne: BT 81 N

Jan

	Sn	As	Cu	Pb	Zn	
70 E	10					
70 S	<10					

KENISON LIMITED

748148

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BT-84N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	Soil
000 W	30		10		20	50
50 E	20		10		30	70
100	50		10		30	56
150	70		20		30	56
200	20		10		30	48
250	40		10		20	47
300	15		10		40	48
350	35		10		30	44
400	40		10		30	86
450	60		40		40	79
500	25		10		30	54
550	20		40		20	54
600	30		10		30	51
650	30		10		30	74
700	30		10		30	78
750	40		20		20	52
800	40		10		30	70
850	30		40		30	76
900	35		10		30	68
950	30		20		70	104
1000	60		20		40	63
1050	130		10		40	82
1100	70		30		100	142
1150	175		30		70	142
1200	470		70		80	93

748149

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BT 84 N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	Sn/F
1250 E	70		20		50	84
1300	170		30		80	82
1350	30		10		30	46
1400	40		10		40	74
1450	40		10		50	89
1500	40		20		50	104
1550	45		20		40	72
1600	65		10		30	61
1650	70		20		40	65
1700	95		20		30	72
1750	80		10		50	114
1800	60		20		40	89
1850	70		10		30	90
1900	65		10		30	64
1950	60		10		30	56
2000	50		10		40	84
2050	60		10		150	158
2100	130		10		20	75
2150	80		60		80	112
2200	75		10		10	43
2250	150		10		30	78
2300	90		10		40	80
2350	70		10		30	89
2400	140		10		10	65
2450	80		20		30	120

GEOCHEMICAL ASSAY RESULTS

748150

Area: Blue Tick

Grid Line: BT 84 N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	S&F
2500 E	50		20		30	96
2550	90		20		30	124
2600	130		10		20	70

GEOCHEMICAL ASSAY RESULTS

748151

Area: BLUE TIER

Grid Line: BL 84 N

Date: JUNE 1982

00	50 Sn	As	Cu	Pb	Zn	
42 E	40					
42 5	40					
43	10					
43 5	20					
44	40					
44 5	10					
45	10					
45 5	20					
46	<10					
46 5	110					
47	40					
47 5	10					
48	<10					
48 5	10					
49	40					
49 5	100					
50	30					
50 5	50					
51	30					
51 5	40					
52	10					
52 5	<10					
53	20					
53 5	20					
54	10					

GEOCHEMICAL ASSAY RESULTS

748152

Blue Tick

Page 2 of

Grid Line: RT 84 N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	
54.5	<10					
55	20					
55.5	20					
56	20					
56.5	10					
57	<10					
57.5	<10					
58	10					
58.5	10					
59	10					
59.5	<10					
60	<10					
60.5	10					
61	<10					
61.5	<10					
62	20					
62.5	<10					
63	<10					
63.5	<10					
64	<10					

GEOCHEMICAL ASSAY RESULTS

748153

Area: Blue Tier

Grid Line: BE 90 N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	SOLF
000 W	30		10		50	106
50 E	40		<10		20	50
100	40		<10		10	174
150	40		<10		20	48
200	50		10		30	84
250	45		<10		20	58
300	40		10		40	84
350	25		10		40	80
400	30		<10		20	50
450	35		10		50	104
500	50		30		50	100
550	50		10		20	116
600	35		10		20	64
650	40		<10		20	36
700	20		10		20	66
750	30		10		30	68
800	45		20		30	52
850	70		10		50	105 120
900	50		10		40	92
950	70		30		40	64
1000	40		20		70	108
1050	40		10		60	112
1100	30		60		70	65
1150	490		30		110	102
1200	50		10		60	50

GEOCHEMICAL ASSAY RESULTS

748154

Area: Blue Tier

Grid Line: BT 90 N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	SN.F
1250 E	70		20		30	56
1300	55		20		20	50
1350	150		20		70	62
1400	140		40		40	86
1450	90		40		60	118
1500	115		30		90	116
1550	90		10		20	48
1600	180		30		50	122
1650	160		30		50	106
1700	110		10		30	50
1750	40		20		60	130
1800	40		10		40	174
1850	80		90		220	102
1900	150		20		80	58
1950	60		10		40	82
2000	90		20		40	50
2050	40		10		30	60
2100	60		10		30	50
2150	70		10		20	68
2200	50		20		70	160
2250	10		L10		10	34
2300	20		10		30	80
2350	40		20		L10	102
2400	105		10		10	49
2450	45		10		20	36

GEOCHEMICAL ASSAY RESULTS

748155

Area: Blue Ties

Grid Line: BT 90 N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	Sn.F
2500 E	60		10		30	74
2550	75		10		20	40
2600	30		210		10	18.2

RENISON LIMITED

748156

GEOCHEMICAL ASSAY RESULTS

Area: ....Blue Tier.....
Grid Line: ...BT...90...N.....
Date: ...December....1981

	Sn	As	Cu	Pb	Zn	Sol F
000 W	<10		10		40	130
50 W	<10		20		50	120
100	30		20		80	150
150	30		10		20	35
200	30		10		40	80
250	40		10		30	70
300	50		20		70	160
350	10		30		50	170
400	35		20		50	280
450	45		20		50	130
500	40		10		40	95
550	50		10		60	100
600	45		<10		10	30
650	30		10		40	140
700	20		10		30	60
750	35		10		20	60
800	20		10		30	110
850	20		10		20	70
900	20		<10		20	65
950	30		<10		20	110
1000	20		<10		30	85
1050	30		<10		40	150
1100	10		10		50	150
1150	20		10		30	60
1200	20		10		30	60

RENISON LIMITED

748157

GEOCHEMICAL ASSAY RESULTS

Area: ...Blue Tier.....
Grid Line: .BT...9.6.N.....
Date: ..December....1981....

	Sn	As	Cu	Pb	Zn	SAF
1250	25		10		20	30
1300	10		10		40	70
1350	30		10		20	25
1400	40		10		20	40
1450	40		10		20	40
1500	20		10		20	50
1550	40		10		20	55
1600	50		<10		40	100
1650	45		<10		10	50
1700	40		<10		20	50
1750	10		<10		20	40
1800	30		20		70	55
1850	40		10		30	35
1900	40		10		30	50
1950	25		10		40	50
2000	20		10		40	40
2050	30		20		70	45
2100	20		20		50	35
2150	30		20		70	40
2200	30		10		50	40
2250	30		10		40	50
2300	15		<10		30	55
2350	30		10		30	70
2400	20		10		40	60
2450	<10		10		30	60

RENISON LIMITED

748158

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tick

Grid Line: BT 96 N

Date: December 1981

	Sn	As	Cu	Pb	Zn	Sa.F
2500	45		10		30	40
2550	30		10		20	45
2600	10		20		20	30
2650	25		20		30	50
2700	<10		10		20	45
2750	30		10		40	60
2800	75		<10		<10	35
2850	30		10		35	90
2900	40		<10		30	75
2950	30		<10		30	95
3000	20		10		30	95
3050	35		<10		30	90
3100	20		<10		25	85
3150	20		<10		30	20
3200	15		<10		20	75
3250	<10		<10		10	80
3300	30		<10		20	85

RENISON LIMITED

748159

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tico

Grid Line: BT-96-N

Date: December 1981

	Sn	As	Cu	Pb	Zn	SOL F
50 E	50		10		20	29.8
100	20		<10		40	70
150	60		10		10	23.6
200	45		10		30	84
250	15		10		40	54
300	20		10		40	72
350	20		<10		30	66
400	20		10		30	48
450	<10		30		20	33
500	55		30		20	28
550	90		20		10	25
600	75		20		30	29
650	80		40		70	42
700	20		<10		20	38
750	65		<10		20	66
800	30		<10		30	92
850	30		<10		30	75
900	20		10		30	76
950	30		10		30	54
1000	160		<10		20	64
1050	10		10		60	88
1100	50		10		50	28
1150	40		<10		10	24
1200	10		10		10	32
1250	20		10		20	42

RENISON LIMITED

748160

GEOCHEMICAL ASSAY RESULTS

Area: Blc Tier

Grid Line: BT 96 N

Date: December 1981

	Sn	As	Cu	Pb	Zn	Sol F
1300 E	40		10		60	130
1350	40		10		30	80
1400	20		10		30	50
1450	65		20		70	60
1500	70		40		70	110
1550	105		20		40	75
1600	20		60		140	140
1650	10		40		80	110
1700	35		30		70	110
1750	10		50		100	170
1800	20		30		50	110
1850	40		40		80	140
1900	295		10		20	95
1950	70		<10		10	100
2000	180		<10		<10	30
2050	190		<10		<10	25
2100	600		<10		<10	30
2150	40		30		60	100
2200	60		20		30	90
2250	60		20		50	95
2300	50		10		40	160
2350	35		10		30	130
2400	50		10		20	80
2450	60		<10		10	60
2500	50		<10		20	30

RENISON LIMITED

GEOCHEMICAL ASSAY RESULTS

748161

Area: ....Blue Tier.....
Grid Line: BT...90.....
Date: ....December....1981.....

	Sn	As	Cu	Pb	Zn	
2550 E	<10		<10		10	50
2600	20		10		20	90
2650	20		10		50	130
2700	35		10		40	120
2750	30		10		40	120
2800	40		<10		30	90
2850	60		10		30	100
2900	40		<10		20	70
2950	50		<10		50	110
3000	90		10		50	100
3050	80		<10		30	85
3100	155		<10		10	35
3150	50		<10		30	90
3200	40		<10		30	120
3250	35		10		50	160
3300	30		10		40	140
3350	10		<10		20	65
3400	30		<10		30	120

RENISON LIMITED

748162

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BT 102 N

Date: December 1981

	Sn	As	Cu	Pb	Zn	Sol F.
50 E	150		<10		10	40
100	35		20		60	40
150	75		10		30	35
200	80		10		20	30
250	45		10		30	40
300	60		10		30	45
350	40		10		20	40
400	145		10		20	15
450	65		20		30	140
500	70		60		60	135
550	150		30		30	70
600	165		20		20	60
650	70		30		30	70
700	75		20		40	60
750	45		10		10	50
800	30		<10		20	60
850	55		10		20	110
900	20		10		40	90
950	50		<10		10	60
1000	40		<10		20	50
1050	30		10		40	80
1100	50		10		50	75
1150	40		<10		10	35
1200	30		10		20	70
1250	95		10		40	80

RENISON LIMITED

748163

GEOCHEMICAL ASSAY RESULTS

Area: ...Blue...Tick.....
Grid Line: BT...102..N.....
Date: ..December....1981....

	Sn	As	Cu	Pb	Zn	Sn.F
1300 E	45		10		30	10
1350	40		<10		10	5
1400	20		<10		10	25
1450	35		<10		<10	5
1500	10		10		20	60
1550	20		10		20	90
1600	15		10		30	40
1650	30		20		30	90
1700	30		10		<10	30
1750	30		30		40	190
1800	40		10		20	90
1850	190		<10		10	30
1900	650		<10		<10	25
1950	290		<10		10	20
2000	340		<10		10	20
2050	250		<10		10	100
2100	190		<10		10	50
2150	275		<10		10	20
2200	140		<10		10	25
2250	180		<10		10	25
2300	155		<10		20	50
2350	245		<10		10	30
2400	170		<10		10	25
2450	226		<10		10	20
2500	230		<10		10	20

RENISON LIMITED

748164

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BT 102 N

Date: December 1981

	Sn	As	Cu	Pb	Zn	S.G.F
2550 E	190		<10		<10	
2600	160		<10		10	
2650	160		<10		10	
2700	110		<10		20	
2750	280		<10		10	
2800	160		<10		10	30
2850	375		<10		10	25
2900	415		10		40	90
2950	540		10		40	110
3000	500		10		50	110
3050	115		<10		10	30
3100	30		<10		80	200
3150	60		<10		20	130
3200	<10		<10		40	180
3250	165		10		50	160
3300	40		<10		20	95
3350	10		<10		30	100
3400	70		10		40	120
3450	<10		10		40	100
3500	<10		<10		40	140
3550	10		10		40	90
3600	<10		<10		30	150
3650	<10		10		80	200
3700	40		10		40	190
3750	110		<10		40	160

RENISON LIMITED

748165

GEOCHEMICAL ASSAY RESULTS

Area: ...Blue..Tier.....
Grid Line: .BT.....100..N.....
Date: ...December....1981....

	Sn	As	Cu	Pb	Zn	Sn.F
3800 E	270		<10		10	40
3850	250		<10		10	90
3900	230		<10		10	40
3950	70		<10		10	45
4000	20		<10		10	40
4050	60		<10		10	65
4100	45		<10		10	40
4150	70		<10		<10	40
4200	90		<10		10	25
4250	100		<10		10	60
4300	45		<10		10	35
4350	150		<10		10	60
4400	265		<10		10	30
4450	190		<10		10	60
4500	85		<10		20	110
4550	250		<10		10	50
4600	210		<10		10	30
4650	160		<10		10	25
4700	280		<10		10	35
4750	120		10		10	35
4800	260		<10		20	50
4850	10		<10		20	70
4900	<10		<10		50	100
4950	<10		<10		50	110
5000	<10		<10		20	70

RENISON LIMITED

748166

GEOCHEMICAL ASSAY RESULTS

Area: BLK...TICK.....
Grid Line: BT...102...N.....
Date: ...December....1981.....

	Sn	As	Cu	Pb	Zn	S.G.F
000 N	40		<10		10	40
50	50		<10		<10	40
100	70		<10		<10	30
150	60		<10		20	55
200	120		10		10	45
250	10		<10		<10	40
300	200		<10		<10	35
350	120		<10		<10	10
400	130		<10		10	20
450	40		<10		<10	30
500	70		10		20	40
550	70		<10		20	40
600	10		10		30	80
650	60		30		20	45
700	70		30		20	50
750	20		<10		10	30
800	50		<10		20	70
850	35		10		10	35
900	70		10		30	35
950	50		10		20	40
1000	50		10		20	35
1050	50		10		10	40
1100	40		10		20	40
1150	40		<10		20	55
1200	50		<10		10	35

RENISON LIMITED

748167

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tick

Grid Line: BT 102 N

Date: December 1981

	Sn	As	Cu	Pb	Zn	SnF
1250 N	60		<10		20	40
1300	70		10		<10	35
1350	60		<10		<10	30
1400	85		<10		<10	10
1450	30		<10		20	35
1500	40		10		20	30
1550	20		<10		20	50
1600	30		<10		20	30
1650	20		10		60	35
1700	50		10		20	35
1750	40		10		20	10
1800	50		20		30	10
1850	50		20		20	30
1900	30		10		20	40
1950	30		20		30	105
2000	70		20		30	50
2050	140		20		30	55
2100	60		20		30	45
2150	40		20		50	75
2200	55		20		30	40
2250	90		10		20	50
2300	20		10		50	75
2350	20		10		40	75
2400	30		10		40	110
2450	310		20		40	70

RENISON LIMITED

748168

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tick

Grid Line: BT 102 N

Date: December 1981

	Sn	As	Cu	Pb	Zn	Sn.F
2500 W	40		20		40	55
2550	40		20		30	50
2600	30		20		50	50
2650	50		10		30	40
2700	20		10		30	55
2750	30		10		30	45
2800	20		10		40	50
2850	20		20		30	30
2900	40		30		60	40
2950	50		10		20	70
3000	20		10		20	45
3050	40		<10		10	10
3160	20		10		30	50
3150	40		10		<10	25
3200	30		60		70	80
3250	80		10		50	60
3300	20		30		60	55

RENISON LIMITED

748169

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BT 108 N

Date: December 1981

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	Sn	As	Cu	Pb	Zn	Sil.F
000 E	110		<10		<10	30
50	90		<10		<10	20
100	50		<10		<10	10
150	30		<10		<10	10
200	20		<10		<10	10
250	30		<10		<10	30
300	40		<10		10	25
350	40		<10		10	40
400	40		<10		20	45
450	40		<10		10	25
500	<10		<10		10	20
550	10		<10		10	20
600	20		<10		10	20
650	20		<10		10	30
700	30		<10		20	60
750	25		<10		20	35
800	<10		<10		10	25
850	80		<10		20	70
900	<10		<10		30	60
950	40		<10		20	45
1000	40		<10		20	30
1050	70		<10		<10	10
1100	60		<10		<10	10
1150	100		<10		<10	25
1200						

RENISON LIMITED

748170

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BT 108 N

Date: December 1981

	Sn	As	Cu	Pb	Zn	S.G.F
1250 E	40		<10		10	30
1300	60		<10		10	20
1350	30		<10		30	55
1400	40		<10		<10	10
1450	50		<10		<10	10
1500	65		<10		<10	10
1550	<10		<10		10	10
1600	25		<10		<10	10
1650	50		<10		<10	10
1700	25		<10		10	30
1750	20		<10		20	35
1800	230		<10		<10	10
1850	60		<10		20	30
1900	20		<10		<10	10
1950	20		<10		10	30
2000	85		<10		<10	10
2050	170		<10		<10	10
2100	130		<10		10	10
2150	400		<10		<10	10
2200	125		<10		<10	10
2250						
2300						
2350						
2400						
2450						

RENISON LIMITED

748171

GEOCHEMICAL ASSAY RESULTS

Area: ..Blue...Tick.....
Grid Line: .BT...10S..N.....
Date: ..December...1981....

	Sn	As	Cu	Pb	Zn	Sn.F
2500 E						
2550						
2600						
2650	70		<10		10	100
2700	50		<10		10	130
2750	60		<10		20	110
2800	140		<10		10	95
2850	50		<10		10	60
2900	55		<10		10	60
2950	85		<10		10	45
3000	230		<10		<10	30
3050	145		<10		<10	50
3100	70		<10		10	40
3150	90		<10		10	30
3200	120		<10		10	75
3250	90		<10		20	100
3300	120		<10		10	30
3350	150		<10		10	30
3400	170		<10		10	60
3450	140		<10		<10	30
3500	220		<10		<10	20
3550	280		<10		10	85
3600	350		<10		10	30
3650	280		<10		<10	20
3700	220		<10		<10	20

RENISON LIMITED

748172

GEOCHEMICAL ASSAY RESULTS

Area: ...Blk. Tier.....
Grid Line: BT....108...N.....
Date: ..December....1981.....

	Sn	As	Cu	Pb	Zn	SN.F
3750	265		<10		<10	15
3800	55		<10		<10	20
3850	180		<10		10	35
3900	340		<10		10	30
3950	215		<10		10	50
4000	260		<10		10	30
4050	250		<10		<10	30
4100	270		<10		10	30
4150	200		<10		10	40
4200	280		<10		10	50
4250	405		<10		10	25
4300	635		<10		<10	20
4350	510		<10		10	20
4400	340		<10		10	20
4450	350		<10		10	20
4500	200		<10		10	15
4550	70		<10		10	40
4600	180		<10		<10	25
4650	260		<10		10	40
4700	110		<10		10	20
4750	35		<10		10	25
4800	30		<10		30	30
4850	35		<10		10	20
4900	110		<10		10	20
4950	10		<10		20	40

RENISON LIMITED

GEOCHEMICAL ASSAY RESULTS

Area: ...Blue Tier...

Grid Line: ..BT...108...N.....

Date: ...December...1981...

	Sn	As	Cu	Pb	Zn	SΩ.F
5000 E	10		<10		30	60

RENISON LIMITED

748174

GEOCHEMICAL ASSAY RESULTS

Area: ...Blue Tier.....

Grid Line: .BT....108...N.....

Date: ...December.....1981....

	Sn	As	Cu	Pb	Zn	SS.F
50 W	<10		<10		<10	10
100	100		<10		<10	30
150	50		<10		10	40
200	45		<10		<10	40
250	20		<10		30	70
300	215		<10		<10	20
350	940		<10		20	35
400	100		<10		<10	10
450	40		<10		<10	50
500	250		10		20	10
550	110		<10		<10	10
600	<10		<10		20	10
650	40		<10		<10	20
700	45		<10		<10	10
750	20		<10		20	70
800	20		<10		20	70
850	1330		10		25	45
900	3660		20		30	40
950	80		<10		20	40
1000	20		<10		20	25
1050	120		<10		30	40
1100	50		<10		20	30
1150	70		<10		20	50
1200	<10		<10		10	45
1250	65		<10		20	25

748175

RENISON LIMITED

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier
Grid Line: RT 108 N
Date: December 1981

	Sn	As	Cu	Pb	Zn	S.G.F
1300 W	40		<10		30	10
1350	90		<10		20	25
1400	95		10		20	20
1450	140		<10		40	35
1500	100		25		20	35
1550	815		<10		30	50
1600	75		30		20	25
1650	45		10		20	25
1700	65		<10		20	20
1750	260		<10		10	10
1800	70		<10		30	30
1850	40		<10		20	50
1900	205		10		<10	10
1950	70		<10		10	30
2000	35		<10		20	40
2050	25		<10		10	40
2100	30		<10		20	45
2150	30		<10		<10	10
2200	40		<10		20	35
2250	50		<10		10	20
2300	40		<10		20	40
2350	50		<10		20	30
2400	50		<10		20	55
2450	40		<10		20	45
2500	70		10		50	150

RENISON LIMITED

748176

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BT...10S...N

Date: December 1981

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	Sn	As	Cu	Pb	Zn	Sn.F
2550 W	60		<10		20	40
2600	50		<10		20	35
2650	60		20		40	40
2700	20		10		10	10
2750	40		10		20	20
2800	30		<10		20	10
2850	35		<10		20	20
2900	30		<10		20	25
2950	30		<10		20	10
3000	20		<10		20	30
3050	60		<10		20	30
3100	20		<10		10	30
3150	40		<10		20	55
3200	30		<10		20	25
3250	5		<10		<10	45
3300	10		<10		10	30

RENISON LIMITED

748177

GEOCHEMICAL ASSAY RESULTS

Area: ...Blk. TCR.....
Grid Line: BT...14...N.....
Date: ..December....1981....

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	Sn	As	Cu	Pb	Zn	SOIL
1500 W	40		10		40	170
1550	70		<10		20	110
1600	70		10		30	120
1650	160		<10		10	25
1700	80		20		30	70
1750	90		10		50	80
1800	70		40		40	45
1850	70		10		80	160
1900	80		<10		40	100
1950	50		10		30	100
2000	70		30		70	85
2050	80		20		70	150
2100	60		20		60	130
2150	70		20		30	65
2200	80		20		60	90
2250	50		20		50	130
2300	70		20		60	380
2350	65		20		50	260
2400	55		10		30	140
2450	70		56		160	340
2500	40		<10		30	140
2550	35		20		30	120
2600	25		10		50	170
2650	50		<10		40	140
2700	40		20		50	430

RENISON LIMITED

748178

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: B.T. 114 N

Date: December 1981

	Sn	As	Cu	Pb	Zn	Sn.F
2750 W	40		10		10	100
2800	80		<10		<10	40
2850	55		<10		10	30
2900	25		<10		<10	25
2950	50		<10		<10	50
3000	25		<10		<10	40
3050	<10		<10		10	35
3100	10		<10		10	35
3150	40		<10		10	40
3200	15		<10		20	30
3250	<10		<10		20	35
3300	30		<10		10	25

RENISON LIMITED

748179

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BT...114.N.....

Date: ...December...1981.....

Page of 1

	Sn	As	Cu	Pb	Zn	SOIL
000 W	50		<10		20	80
050 E	46		<10		20	120
100	70		20		50	120
150	50		<10		20	65
200	40		<10		20	75
250	40		<10		20	80
300	30		10		50	110
350	40		<10		30	140
400	40		<10		40	120
450	60		10		20	130
500	50		10		30	160
550	565		<10		<10	45
600	240		<10		10	85
650	180		<10		10	90
700	130		10		10	60
750	120		<10		10	50
800	55		<10		10	20
850	75		<10		10	45
900	85		<10		10	60
950	80		<10		10	35
1000	60		<10		20	90
1050	30		<10		10	30
1100	3		<10		10	20
1150	150		<10		20	30
1200	60		<10		10	40

RENISON LIMITED

748180

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier
Grid Line: BT 114 N
Date: December 1981

	Sn	As	Cu	Pb	Zn	Sn.F
1250 E	80		<10		20	65
1300	40		<10		10	30
1350	55		<10		20	80
1400	30		10		30	80
1450	80		<10		20	120
1500	90		<10		10	110
1550	300		10		10	45
1600	240		<10		10	180
1650	130		<10		20	190
1700	170		<10		10	65
1750	150		<10		10	95
1800	210		<10		10	40
1850	160		<10		10	60
1900	130		<10		10	130
1950	165		<10		<10	50
2000	150		<10		10	50
2050	110		<10		<10	30
2100	110		<10		10	120
2150	100		<10		20	240
2200	105		<10		20	130
2250	140		<10		<10	35
2300	150		<10		<10	30
2350	210		<10		<10	30
2400	176		<10		<10	25
2450	90		<10		<10	25

RENISON LIMITED

748181

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BT 114 N

Date: December 1981

	Sn	As	Cu	Pb	Zn	SOIL F
2500 E	110		<10		<10	35
2550	175		<10		<10	30
2600	180					
2650	190		<10		<10	35
2700	150		<10		10	40
2750	310		<10		<10	55
2800	470		<10		<10	40
2850	230		<10		<10	35
2900	150		<10		<10	25
2950	70		<10		10	60
3000	75		<10		<10	35
3050	<10		<10		<10	<10
3100	10		<10		20	100
3150	30		<10		10	55
3200	160		<10		<10	20
3250	245		<10		<10	15
3300	140		<10		<10	15
3350	125		<10		<10	15
3400	160		<10		<10	15
3450	100		<10		<10	30
3500	350		<10		<10	40
3550	220		<10		<10	55
3600	330		<10		<10	30
3650	400		<10		<10	25
3700	200		<10		<10	60

RENISON LIMITED

748182

GEOCHEMICAL ASSAY RESULTS

Area: ...Blue Tier.....
Grid Line: ..BT.....114..N.....
Date: .....December....1951.....

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	Sn	As	Cu	Pb	Zn	S.G.F
3750 E	380		<10		<10	35
3800	180		<10		<10	25
3850	130		<10		10	20
3900	225		<10		<10	15
3950	400		<10		<10	35
4000	570		<10		<10	25
4050	360		<10		10	25
4100	380		10		10	25
4150	480		<10		10	25
4200	350		<10		10	20
4250	475		<10		<10	20
4300	320		<10		<10	20
4350	235		<10		<10	20
4400	65		<10		10	25
4450	70		10		20	25
4500	50		<10		10	25
4550	50		<10		10	30
4600	40		<10		10	20
4650	50		<10		10	40
4700	50		<10		10	45
4750	55		<10		20	80
4800	95		<10		10	50
4850	30		<10		10	50
4900	40		<10		<10	25
4950	35		<10		<10	20

RENISON LIMITED

748183

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: B.T. 114 N

Date: December 1981

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	Sn	As	Cu	Pb	Zn	Sn.F
5000 E	25		<10		10	20
5050	30		<10		<10	15

RENISON LIMITED

748184

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: B.T. 120 N

Date: December 1981

	Sn	As	Cu	Pb	Zn	S.G.F
50 E	180		30		30	35
100	<10		10		<10	55
150	<10		10		40	60
200	<10		10		40	50
250	50		10		40	50
300	<10		10		40	50
350	35		10		40	70
400	50		10		20	40
450	30		<10		10	10
500	10		<10		10	10
550	60		<10		10	10
600	50		<10		10	10
650	45		<10		20	10
700	20		<10		10	10
750	35		<10		10	10
800	195		<10		10	20
850	20		10		20	25
900	15		<10		10	10
950	80		<10		20	25
1000	235		<10		10	20
1050	70		<10		10	10
1100	30		10		20	30
1150	<10		10		20	30
1200	20		10		20	20
1250	<10		10		20	20

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RENISON LIMITED

748185

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: RT 120 N

Date: December 1981

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	Sn	As	Cu	Pb	Zn	Sn.F
1300 E	5		10		10	10
1350	10		10		40	30
1400	20		10		30	30
1450	<10		10		30	45
1500	20		10		40	60
1550	20		<10		20	40
1600	10		<10		10	10
1650	370		<10		<10	10
1700	200		<10		<10	10
1750	80		<10		<10	10
1800	110		<10		10	10
1850	180		<10		10	10
1900	110		<10		10	10
1950	130		<10		20	10
2000	190		<10		20	25
2050	220		<10		10	10
2100	80		<10		<10	10
2150	50		<10		<10	10
2200	50		<10		10	10
2250	30		<10		<10	10
2300	20		<10		<10	10
2350	30		<10		10	10
2400	15		10		20	35
2450	110		<10		10	10
2500	170		<10		<10	10

RENISON LIMITED

748186

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BT 120 N

Date: December 1981

	Sn	As	Cu	Pb	Zn	Sn.f
2550 E	185		<10		<10	10
2600	120		<10		<10	10
2650	210		<10		<10	10
2700	165		<10		<10	10
2750	80		<10		10	10
2800	140		<10		<10	10
2850	90		<10		10	20
2900	60		<10		10	10
2950	90		<10		10	10
3000	125		<10		10	20
3050	180		<10		10	20
3100	140		<10		10	45
3150	290		<10		<10	10
3200	265		<10		<10	10
3250	120		<10		<10	10
3300	170		<10		<10	10
3350	360		<10		<10	10
3400	240		<10		<10	10
3450	160		<10		<10	10
3500	140		<10		<10	10
3550	215		<10		<10	10
3600	165		<10		<10	10
3650	190		<10		10	10
3700	150		<10		<10	10
3750	245		<10		<10	10

RENISON LIMITED

748187

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tick

Grid Line: BT 120 N

Date: December 1981

	Sn	As	Cu	Pb	Zn	Sn.F
3800 E	500		<10		<10	10
3850	145		<10		10	10
3900	195		<10		<10	10
3950	80		<10		<10	10
4000	20		<10		20	10
4050	110		<10		10	10
4100	40		<10		<10	10
4150	10		<10		10	10
4200	<10		<10		10	10
4250	15		<10		10	20
4300	30		<10		10	10
4350	30		10		30	30
4400	20		< 10		<10	10
4450	20		< 10		10	20
4500	50		< 10		10	10
4550	20		10		20	35
4600	30		< 10		<10	10
4650	15		< 10		<10	10
4700	30		< 10		10	10
4750	15		10		<10	10
4800	40		10		10	20
4850	60		<10		10	20
4900	80		<10		10	10
4950	20		<10		10	10
5000	20		<10		30	10

RENISON LIMITED

748188

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tick

Grid Line: BT 120 N

Date: December 1981

	Sn	As	Cu	Pb	Zn	Sol.F
5050 E	35		<10		30	10

FORM NO. 81/30

RENISON LIMITED

748189

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BT....120..N.....

Date: ...December....1981....

Page 1 of

	Sn	As	Cu	Pb	Zn	S.N.F
000 W	20		<10		10	10
50	10		<10		10	30
100	<10		<10		10	10
150	15		<10		10	10
200	10		<10		10	20
250	30		<10		10	20
300	10		<10		20	45
350	<10		<10		20	50
400	<10		<10		30	40
450	<10		<10		30	30
500	95		<10		20	20
550	15		<10		20	10
600	10		<10		20	30
650	10		<10		<10	10
700	10		<10		<10	10
750	10		<10		<10	10
800	30		<10		<10	10
850	10		<10		10	90
900	40		<10		20	45
950	50		<10		20	30
1000	75		<10		10	40
1050	60		10		20	50
1100	160		10		20	30
1150	55		40		30	40
1200	130		20		10	30

RENISON LIMITED

748190

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BT 120 N

Date: December 1981

	Sn	As	Cu	Pb	Zn	Sil.F
1250 N.	70		20		15	35
1300	40		10		10	30
1350	20		<10		20	35
1400	30		<10		20	20
1450	20		<10		20	25
1500	20		10		30	25
1550	20		10		50	30
1600	20		10		40	50
1650	20		10		40	60
1700	55		10		30	50
1750	30		<10		10	10
1800	20		<10		10	10
1850	80		10		10	10
1900	<10		10		10	20
1950	120		<10		10	30
2000	25		10		40	25
2050	20		20		<10	40
2100	35		20		60	80
2150	45		20		10	10
2200	60		<10		20	20
2250	80		40		160	75
1300	10		65		50	130
2350	10		50		40	130
2400	50		20		50	50
2450	30		20		50	55

RENISON LIMITED

748191

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BT 120 N.

Date: December 1981

	Sn	As	Cu	Pb	Zn	Sn.F
2500 N.	120		20		10	10
2550	100		10		10	10
2600	50		<10		<10	10
2650	65		<10		<10	10
2700	70		<10		10	10
2750	45		<10		10	10
2800	130		<10		10	10
2850	200		<10		10	35
2900	240		10		10	10
2950	190		<10		10	10
3000	195		10		10	10
3050	60		10		10	10
3100	45		10		50	90
3150	80		<10		10	20
3200	10		<10		10	20
3250	10		<10		20	30
3300	10		<10		10	10

RENISON LIMITED

748192

GEOCHEMICAL ASSAY RESULTS

Area: BLUE TIER

Grid Line: BT-126-N

Date: JANUARY 1982

Page 1 of

	Sn	As	Cu	Pb	Zn	Sn. F
000 A	20		10		20	20
000 E	50		10		30	30
50 W.	40		10		30	10
100	50		10		30	25
150	115		10		20	10
200	50		10		50	40
250	30		10		20	30
300	80		10		30	10
350	25		10		20	10
400	50		10		20	10
450	10		10		20	35
500	50		10		40	40
550	30		20		100	40
600	100		10		80	30
650	20		10		30	30
700	50		<10		20	20
750	20		<10		10	10
800	40		<10		10	10
850	35		<10		<10	10
900	<10		<10		20	10
950	15		10		20	10
1000	25		<10		10	10
1050	40		<10		10	10
1100	50		<10		<10	10
1150	90		<10		<10	10

RENISON LIMITED

748193

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tier

Grid Line: BT 126 N

Date: January 1987

	Sn	As	Cu	Pb	Zn	Sn.F
1200 N	90		10		20	10
1250	40		20		20	10
1300	60		10		20	10
1350	70		10		20	10
1400	120		10		20	40
1450	40		10		10	10
1500	20		<10		20	30
1550	55		10		30	10
1600	20		10		30	30
1650	40		<10		10	10
1700	10		10		50	30
1750	20		10		30	25
1800	20		20		50	50
1850	45		<10		30	10
1900	40		<10		10	10
1950	35		<10		20	40
2000	15		<10		10	10
2050	30		<10		20	25
2100	20		<10		20	40
2150	15		10		10	30
2200	15		<10		10	10
2250	40		<10		10	10
2300	<10		<10		20	10
2350	20		<10		10	10
2400	20		<10		10	10

RENISON LIMITED

GEOCHEMICAL ASSAY RESULTS

748194

Area: ...Blue Tier.....
Grid Line: BL..126..N.....
Date: ...January...1982.....

	Sn	As	Cu	Pb	Zn	Sn.F
2450 W	<10		<10		10	10
2500	65		<10		10	10
2550	5		<10		<10	10
2600	20		<10		10	10
2650	<10		<10		10	10
2700	40		<10		10	10
2750	15		<10		10	10
2800	55		10		20	10
2850	50		<10		10	10
2900	40		10		20	10
2950	80		<10		10	10
3000	65		10		10	10
3050	40		20		20	10
3100	260		40		10	10
3150	45		70		10	45
3200	105		60		30	95
3250	5		10		20	25
3300	10		20		40	25

748195

GEOCHEMICAL ASSAY RESULTS

Area: Blue Tick

Grid Line: RE 1285N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	Sq.F
000 N	<10		<10		20	20
50						
100	50		10		20	45
150	30		10		30	65
200	40		10		20	35
250	15		10		40	75
300	20		10		30	100
350	<10		<10		20	100
400	20		10		30	130
450	<10		10		40	160
500	10		10		40	110
550	30		<10		20	30
600	10		<10		20	25
650	20		<10		10	20
700	30		<10		10	20
750	15		<10		20	30
800	10		<10		10	20
850	210		10		20	50
900	20		<10		20	40
950	<10		<10		20	15
1000	<10		<10		<10	10

748196

GEOCHEMICAL ASSAY RESULTS

Area: Blue Ter

Grid Line: BT 131 N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	SOIL
000 W	45		300		100	200
50 W	50		<10		10	20
100	40		10		40	85
150	30		10		30	130
200	80		10		30	80
250	25		10		30	110
300	30		10		20	85
350	30		10		30	95
400	55		10		10	45
450	30		10		30	60
500	55		10		10	25
550	80		<10		10	25
600	60		30		30	75
650	40		<10		20	110
700	<10		<10		20	20
750	10		<10		<10	25
800	40		<10		20	50
850	30		<10		10	30
900	30		<10		20	30
950	10		10		<10	30
1000	45		10		20	60

KENISON LIMITED

748197

GEOCHEMICAL ASSAY RESULTS

Area: Buc Tiev

Grid Line: BT 133.5 N

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	
000 W	<10		<10		10	20
50	20		<10		10	25
100	<10		<10		10	25
150	<10		10		30	140
200	<10		10		20	100
250	<10		<10		10	40
300	20		<10		<10	25
350	20		<10		<10	150
400	40		<10		10	15
450	30		<10		10	15
500	310		<10		10	30
550	25		<10		10	35
600	25		<10		10	70
650	70		<10		10	50
700	60		10		20	170
750	10		<10		10	30
800	130		20		30	130
850	65		20		20	140
900	30		<10		10	25
950	40		<10		10	120
1000	50		<10		10	120

GEOCHEMICAL ASSAY RESULTS

748198

Area: Blue Tick

Grid Line: BL COW

Date: Dec. 1982

	Sn	As	Cu	Pb	Zn	SOLF
94 N	20		20		50	160
94 5	20		<10		10	25
95 . 95 (B)	10 10		10		40	1106
95 5 BN	10		10		30	139
95 5	20		10		50	55
96	30		10		40	80
96 5	50		10		20	40
97	65		<10		20	35
97 5	30		10		20	60
98	60		<10		10	55
98 5	30		30		60	110
99	40		10		40	55
99 5	80		20		40	60
100	70		10		20	40
100 5	90		10		40	55
101	145		10		20	45
101 5	70		10		40	65
102						
102 5	30		<10		20	110
103	10		<10		<10	40
103 5	310		10		10	45
104	145		<10		<10	35
104 5	30		20		10	65
105	20		10		20	55
105 5	20		10		20	40

GEOCHEMICAL ASSAY RESULTS 748199

a: Blk Tier

rid Line: BL BL 000 W

Date: Jan 1982

	Sn	As	Cu	Pb	Zn	SN.F
106 N	40		10		20	35
106 5	40		10		20	35
107	35		10		20	35
107 5	95		<10		10	30
108						
108 5	80		<10		10	30
109	55		<10		10	40
109 5	40		<10		10	45
110	100		<10		30	65
110 5	30		<10		10	48
111	5		<10		20	80
111 5	30		<10		10	65
112	30		<10		20	85
112 5	30		<10		10	25
113	30		<10		10	45
113 5	20		<10		10	40
114						9
114 5	25		10		30	75
115	20		10		20	130
115 5	40		10		20	80
116	25		<10		20	110
116 5	530		10		30	150
117	20		10		40	240
117 5	10		20		30	150
118	<10		10		30	80

GEOCHEMICAL ASSAY RESULTS

748200

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Area: BLUE TER

Grid Line: BT. BL. 000.W

Date: Jan. 1982

	Sn	As	Cu	Pb	Zn	Sol F
118 5 N	35		10		40	110
119						
119 5						
120						
120 5	30		10		40	150
121	20		10		30	90
121 5	25		10		30	150
122	10		10		40	130
122 5	25		10		40	100
123	20		10		40	85
123 5	30		10		50	180
124	60		L10		10	70
124 5	30		L10		10	60
125	70		10		40	150
125 5	20		10		50	140

GEOCHEMICAL ASSAY RESULTS

748201

Area: Blue Tier

Grid Line: BT..BW...AA

Date: Jan.....1982.....

	Sn	As	Cu	Pb	Zn	Sol F.
96.5 N			10		20	
97	30		10		10	120
97.5	<10		<10		20	130
98	25		<10		10	65
98.5	10		20		50	220
99	20		10		20	35
99.5	100		<10		20	60
100	170		<10		<10	15
100.5	10		<10		10	30
101.0	20		<10		10	85
101.5	<10		10		30	70
102	20		<10		20	
102.5	10		<10		20	100
103	15		<10		30	60
103.5	50		<10		10	60
104	25		<10		10	40
104.5	35		<10		20	120
105	40		<10		20	45
105.5	25		10		30	45
106	30		<10		30	30
106.5	30		<10		30	20
107	30		<10		20	15
107.5	20		<10		10	5
108	20		<10		15	25
108.5	15		<10		10	10

GEOCHEMICAL ASSAY RESULTS

748202

Area: Blue Tie!

Grid Line: BT. BL. AA

Date: Nov. 1982

	Sn	As	Cu	Pb	Zn	Sol. F
109 N	15		<10		20	45
109 S	10		<10		10	25
110	30		<10		10	25
110 S	30		<10		10	20
111	20		<10		20	45
111 S	10		<10		20	65
112	35		<10		20	65
112 S	70		<10		10	35
113	<10		<10		10	20
113 S	40		<10		20	75
114	20		<10		10	-
114 S	25		<10		10	40
115	10		<10		10	35
115 S	20		<10		10	35
116	30		<10		20	60
116 S	<10		<10		20	65
117	30		<10		20	85
117 S	<10		<10		20	20
118	<10		<10		20	30
118 S	<10		<10		10	45
119	<10		<10		10	40
119 S	<10		<10		20	55
120	120		<10		<10	20
120 S	<10		<10		10	40
121	10		<10		<10	15

GEOCHEMICAL ASSAY RESULTS

748203

Area: Blue Tier

Grid Line: BT...BL...BB.N..

Date: ...Jan. 1982.....

	Sn	As	Cu	Pb	Zn	Sil.F
106·5 N						
107						
107·5						
108	75					
108·5	70		<10		10	150
109	55		<10		<10	130
109·5	55		<10		10	35
110	60		<10		10	270
110·5	120		<10		10	60
111	80		<10		<10	40
111·5	105		<10		10	170
112	70		<10		10	75
112·5	80		<10		<10	35
113	100		<10		<10	25
113·5	145		<10		<10	15
114	180					
114·5	150		<10		<10	20
115	140		<10		10	90
115·5	40		<10		<10	40
116	30		<10		<10	30
116·5	75		<10		<10	25
117	115		<10		<10	30
117·5	120		<10		<10	25
118	195		<10		<10	20
118·5	195		<10		<10	20

GEOCHEMICAL ASSAY RESULTS

748204

Area: Blue Tier

Grid Line: BTN...BBN

Date: Jan. 1982

	Sn	As	Cu	Pb	Zn	Sb/F
119 N	210		<10		<10	25
119.5	150		<10		<10	25
120	10		<10		<10	
120.5	160		<10		<10	20
121	160		<10		<10	30

GEOCHEMICAL ASSAY RESULTS

748205

Area: Blue Tier

Grid Line: BT 17.8 E

Date: Jan. 1982

	Sn	As	Cu	Pb	Zn	
6650 N	30					
6700	40					
6750	10					
6800	30					
6850	30					
6900	30					
6925	30					
6950	50					
7000	20					
7050	30					
7100	50					
7150	30					
7200	20					
7250	20					
7300	40					
7350	30					
7400	70					
7450	<10					
7500	60					
7550	<10					
7600	10					
7650	<10					
7700	30					
7750	10					
7800	<10					

GEOCHEMICAL ASSAY RESULTS

748206

Page 2 of

...Blue Tick.....

d Line: ..BT...17.8..E.....

ate: ....January..1982.....

	Sn	As	Cu	Pb	Zn	
7850 N	10					
7900	<10					
7950	<10					
8000	10					
8050	<10					
8100	<10					
8150	10					

APPENDIX 6

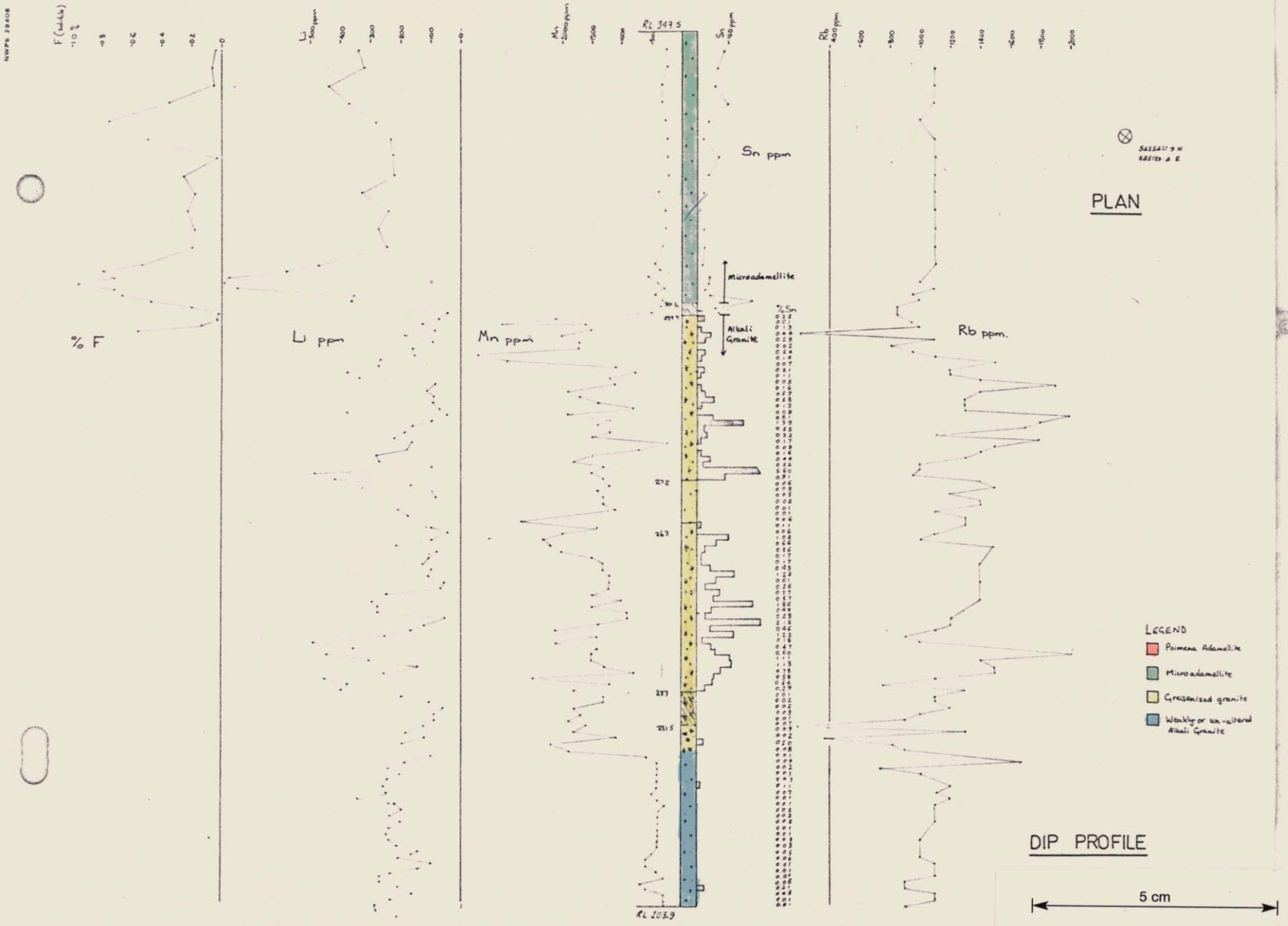
Diamond Drillhole Plots with trace element analysis (DDH BT42,43).

RENISON LIMITED

DIAMOND DRILL HOLE PLOT

SCALE : 0 20

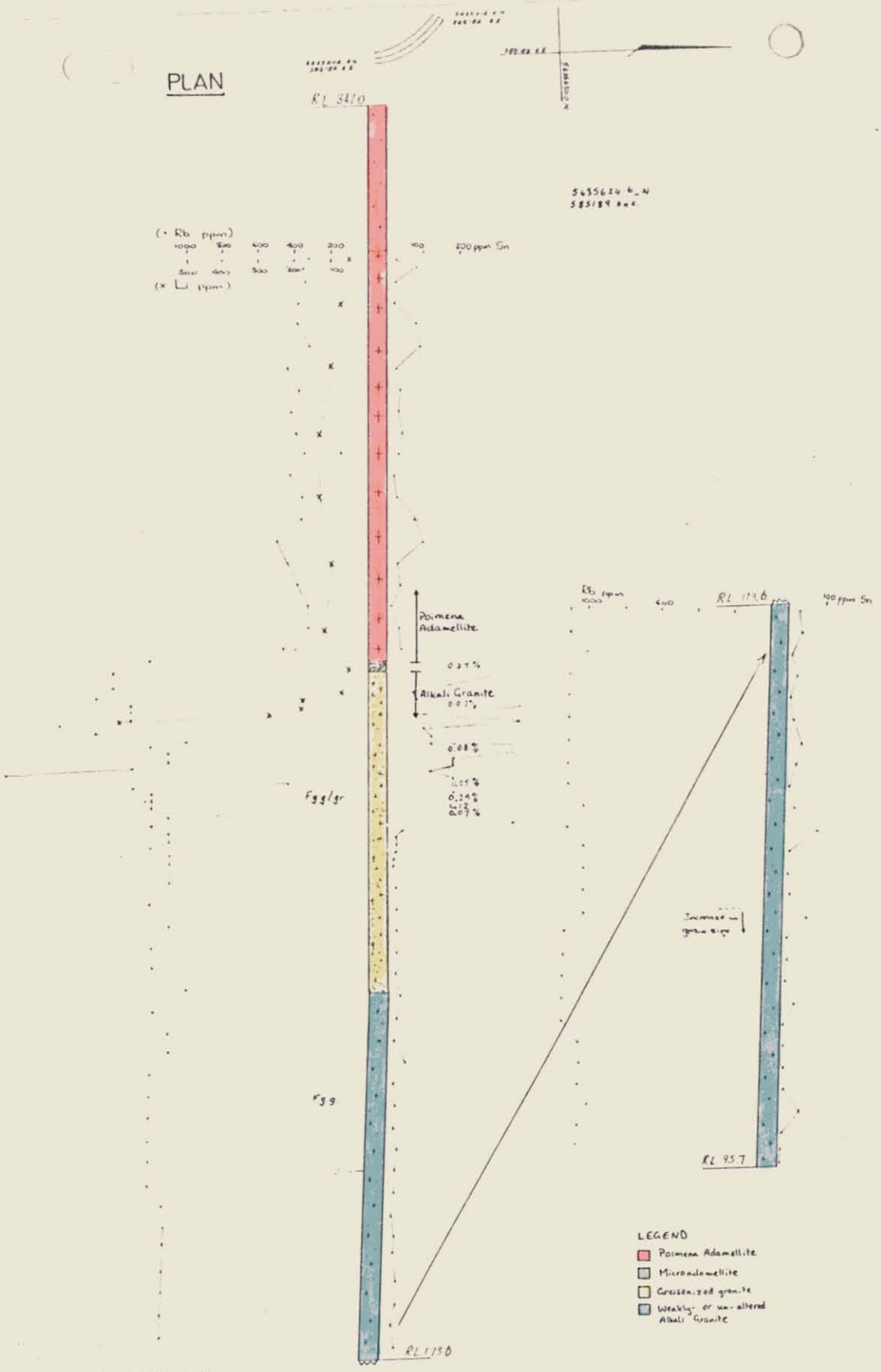
HOLE No. : B.T. 42



7482208

748209

NWPS 78406



SCALE :

RENISON LIMITED

DIAMOND DRILL HOLE PLOT

HOLE No. : BT 43

550 560 570 580 590 600 610

5490 5480 5470 5460 5450 5440 5430 5420 5410

CAPE PORTLAND

RINGAROOMA BAY

TOMAHAWK

BRIDPORT

WATERHOUSE

GREAT NORTHERN PLAIN

GLADSTONE

RIVER

MUSSELROE RIVER

GREAT

EDDYSTONE POINT

MT. CAMERON

BOOBIALLA RIVER

MT. HORROR

HERRICK

HIGHWAY

RINGAROOMA RIVER

RIVER

DERBY

SCOTTSDALE

BRANXHOLM

TASMAN

MT. PARIS

BELLS HILL

E.L. 9/76

BLUE TIER

Anchor Mine

ANSONS

MT. PEARSON

GEORGE RIVER

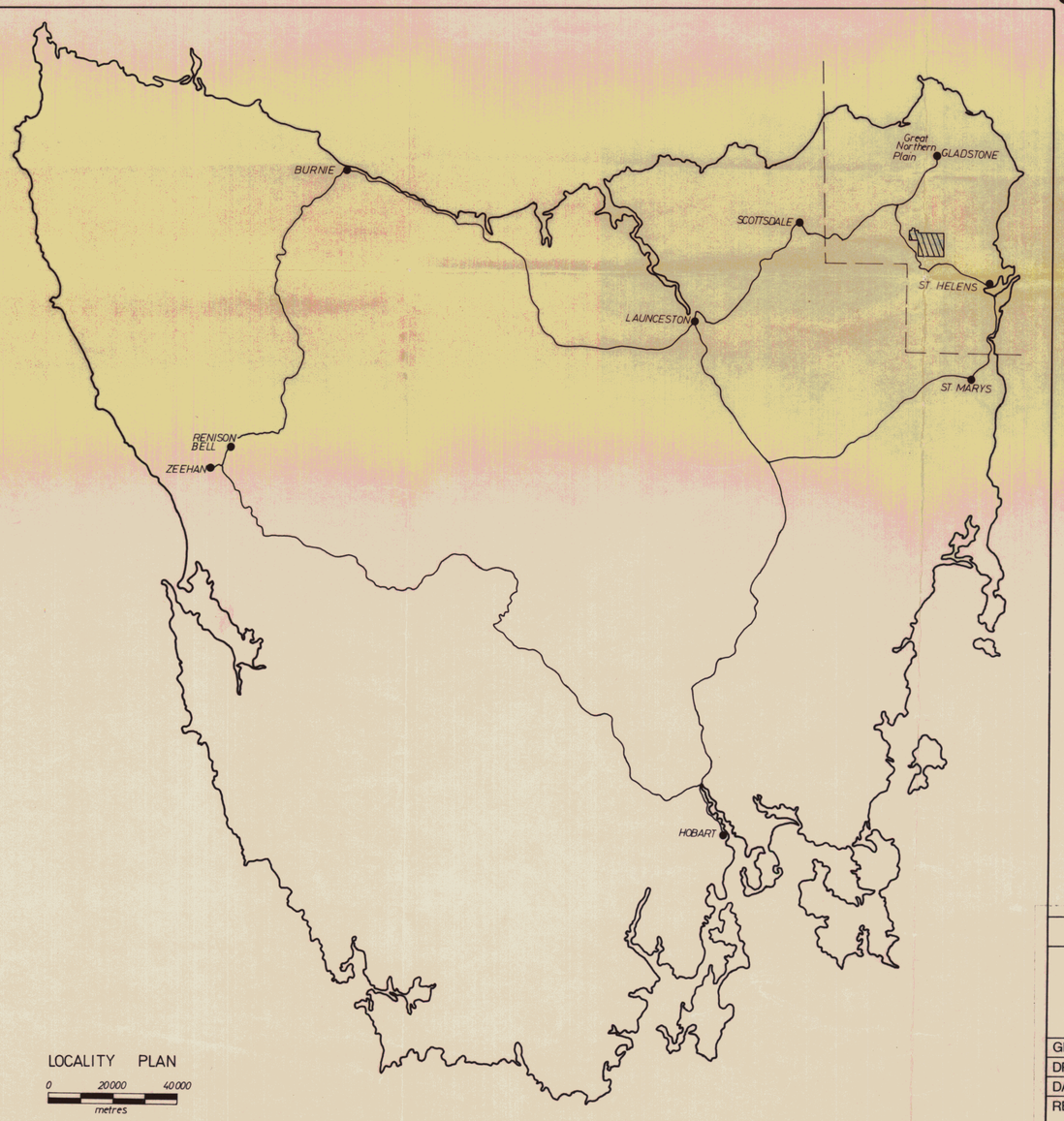
TASMAN HIGHWAY

ST. HELENS

LOILA PINNACLE

SCAMANDER

FALMOUTH



LOCALITY PLAN

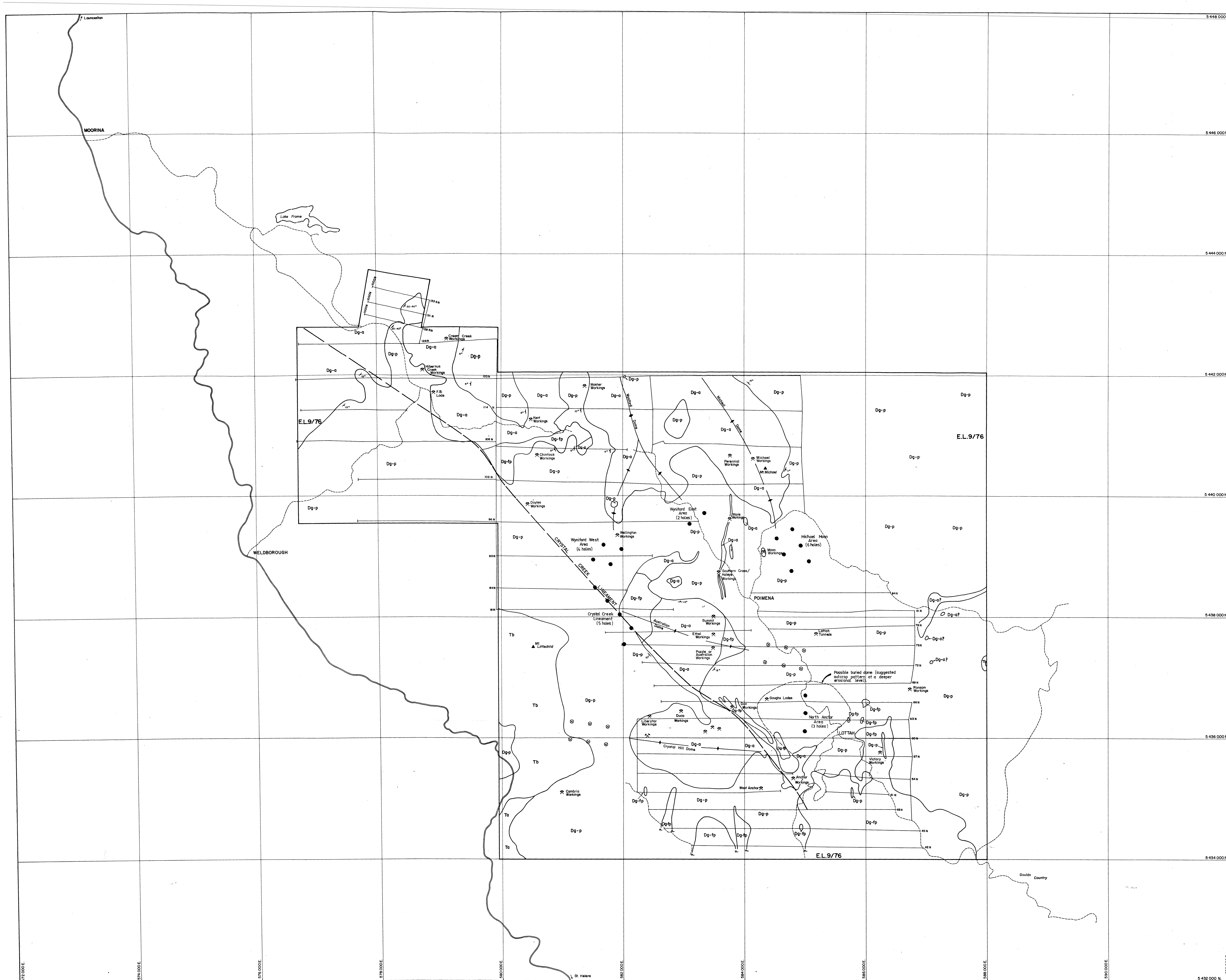
0 20000 40000 metres

748210

5 cm

RENISON LIMITED 82-1792 Vol 1/3	
LOCALITY PLAN	
GEOLOGIST : K. WELLS	SCALE 1:100000 METRES
DRAUGHTSMAN : J. MATTHEWS	2000 0 2000 4000
DATE : JANUARY, 1978	
REVISIONS	DRAWING No. FIGURE 1

1095



LEGEND

Quaternary	Qa	Alluvium, colluvium
Tertiary	Ts	Gravel, sand, clay
	Tb	Basalt
	Ta	Agglomerate and tuff
Siluro-Devonian		Mathinna Beds

BLUE TIER COMPOSITE BATHOLITH

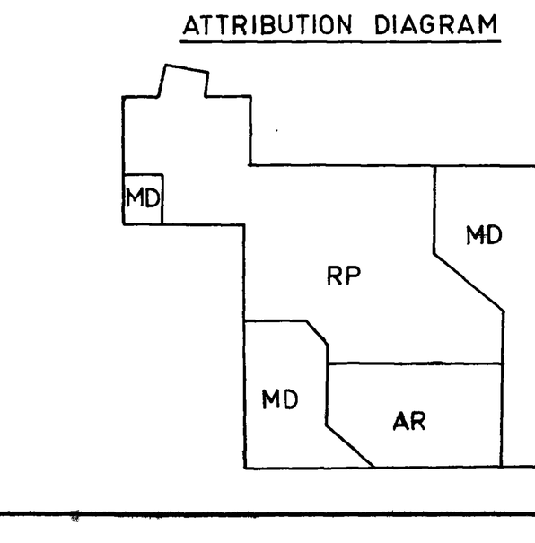
Devonian	Dg-a	Alkali Granite - similar to granite in Anchor Mine, medium grained	Leucocratic Granite Types
	Dg-fp	Fine to medium grained, includes all other leucocratic types e.g. quartz-feldspar porphyry, aplite etc.	
	Dg-p	Poimena Adamellite - mesocratic porphyritic biotite granite/adamellite	
	Dg-g	Granodiorite	

- Apparent Domal feature in roof of alkali granite
- 5° Dip of granite contact
- Interpreted geological contact
- Photo-lineament
- Old Workings
- 75N Cut Grid Line
- Vehicle Track
- Sealed Road
- Licence Boundary
- Proposed drillhole
- Suggested drillhole (subsequent program).

5 cm

748211

ATTRIBUTION DIAGRAM



MAPPING BY
RP R. Poltock (contract geologist)
AR A. Ross
MD Mines Department
(1:50000 mapping)

RENISON LIMITED 82-1792 Vol 1/3

BLUE TIER AREA

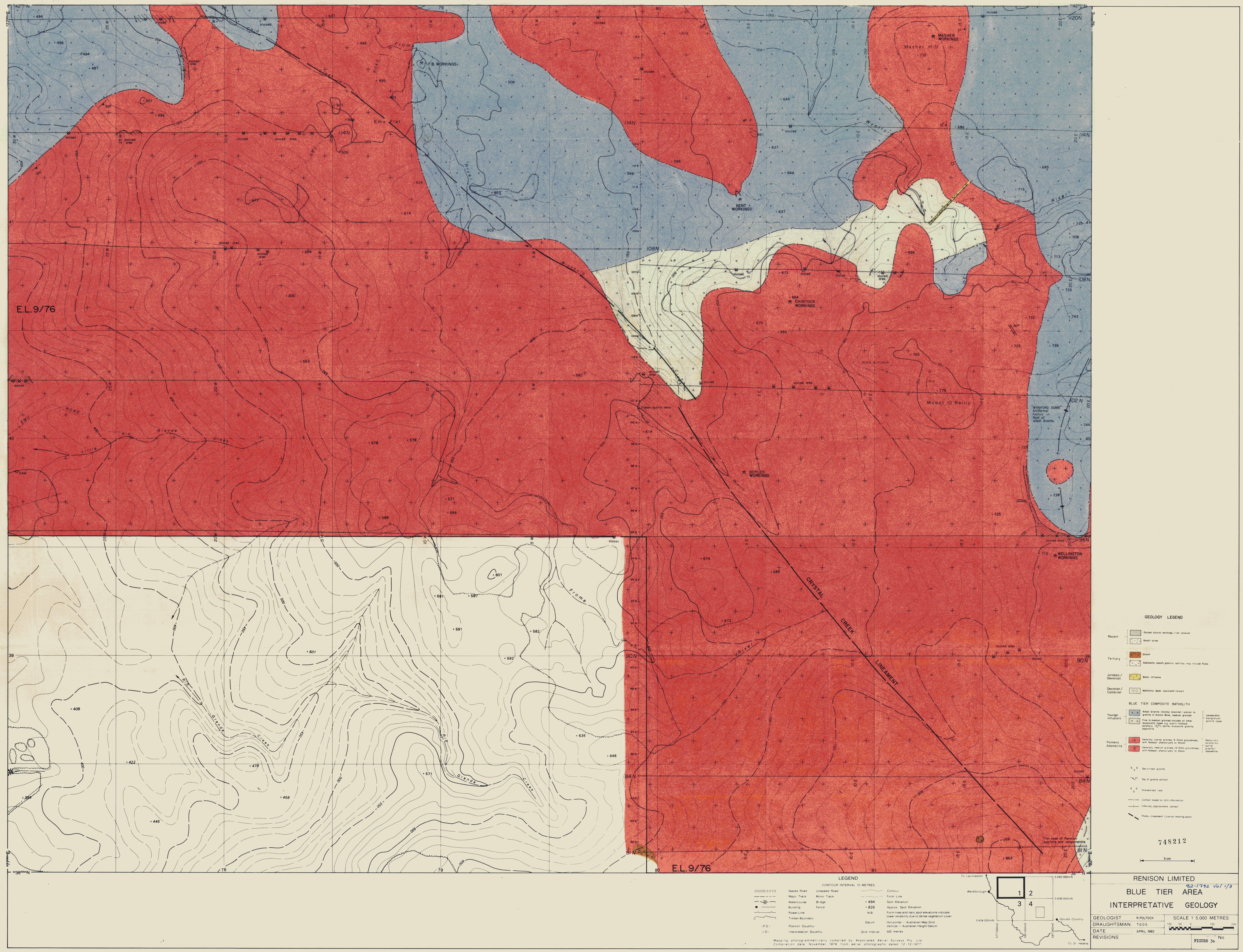
INTERPRETATIVE GEOLOGY AND PROPOSED DRILL HOLES

GEOLOGIST	P.A.R.
DRAUGHTSMAN	T.G.D.S.
DATE	APRIL 1982
REVISIONS	

SCALE 1:20,000 METRES
400 0 400 800

DRAWING No. FIGURE 2

1095


E.L.9/76
Emu Flat
F.B. WORKINGS
KENT WORKINGS
CHINTOCK WORKINGS
MASHER WORKINGS
Masher Hill
Mount O'Reilly
DOYLES WORKINGS
WELLINGTON WORKINGS
WYNFORD DOME Antiformal feature in Roof of Alkali Granite
CRYSTAL CREEK LINEAMENT
Thin cover of Permian quartzite and conglomerate.
GEOLOGY LEGEND
Recent
Sluiced alluvial workings, river alluvium
Basalt scree
Tertiary
Basalt
Sediments: basalt, granitic detritus may include flows
Jurassic / Devonian
Basic intrusive
Devonian / Cambrian
Mathinna Beds - sediments (minor)
BLUE TIER COMPOSITE BATHOLITH
Younger intrusions
Alkali Granite (Anchor Granite) - similar to granite in Anchor Mine, medium grained
Fine to medium grained, includes all other leucocratic types e.g. quartz-feldspar porphyry (PP), aplite, muscovite granite, pegmatite
Leucocratic equigranular granite types
Poimena Adamellite
Generally coarse grained, 5-10mm groundmass, with feldspar phenocrysts to 40mm
Generally medium grained, <2-5mm groundmass, with feldspar phenocrysts to 20mm
Mesocratic porphyritic biotite granite / adamellite
Sericitized granite
Dip of granite contact
Greisenised rock
Contact based on drill information
Inferred, approximate contact
Photo - lineament (Loxton Hunting work)
748212
5 cm
LEGEND
CONTOUR INTERVAL 10 METRES
Sealed Road
Unsealed Road
Major Track
Minor Track
Watercourse
Bridge
Building
Fence
Power Line
Timber Boundary
(P.D.) Position Doubtful
(I.D.) Interpretation Doubtful
Contour
Form Line
+ 494 Spot Elevation
+ 826 Approx. Spot Elevation
N.B. Form lines and italic spot elevations indicate lower reliability due to dense vegetation cover
Datum Horizontal — Australian Map Grid
Vertical — Australian Height Datum
Grid Interval 500 metres
Mapping photogrammetrically compiled by Associated Aerial Surveys Pty. Ltd.
Compilation date November 1978 from aerial photographs dated 12-12-1977
To Launceston
Weldborough
Goulds Country
To St Helens
RENISON LIMITED
82-1792 Vol 1/3
BLUE TIER AREA
INTERPRETATIVE GEOLOGY
GEOLOGIST : R. POLTOCK
DRAUGHTSMAN : T.G.D.S.
DATE : APRIL 1982
REVISIONS :
SCALE 1:5,000 METRES
FIGURE 3a
No.
1096

RENISON LIMITED

82-1792 Vol 113

BLUE TIER AREA
INTERPRETATIVE GEOLOGY

GEOLOGIST	R POLTOCK
DRAUGHTSMAN	T.G.D.S.
DATE	APRIL 1982
REVISIONS	
SCALE	1:5,000 METRES (100 50 0 100 200)
DRAWING No.	FIGURE 5b

748213

5 cm

GEOLOGY LEGEND

- Recent — Sluiced alluvial workings, river alluvium
- Recent — Basalt scree
- Tertiary — Basalt
- Tertiary — Sediments: basalt, granitic detritus may include flows
- Jurassic / Devonian — Basic intrusive
- Devonian / Cambrian — Mathinna Beds: sediments (minor)

BLUE TIER COMPOSITE BATHOLITH

- Younger intrusions — Alkali Granite (Anchor Granite) - similar to granite in Anchor Mine, medium grained; Fine to medium grained, includes all other leucocratic types e.g. quartz-feldspar porphyry, (Q,F), aplite, muscovite granite, pegmatite — Leucocratic equigranular granite types
- Poimena Adamellite — Generally coarse grained, 5-10mm groundmass, with feldspar phenocrysts to 40mm; Generally medium grained, (2-5mm groundmass, with feldspar phenocrysts to 20mm — Mesocratic equigranular porphyritic granite / adamellite

- Sericitized granite
- Dip of granite contact
- Greisenised rock
- Contact based on drill information
- Inferred, approximate contact
- Photo-lineament (Loton Hunting work)

LEGEND

CONTOUR INTERVAL 10 METRES

- Sealed Road / Unsealed Road
- Major Track / Minor Track
- Watercourse / Bridge
- Building / Fence
- Power Line
- Timber Boundary
- (P.D.) Position Doubtful
- (I.D.) Interpretation Doubtful
- Contour
- Form Line
- + 494 Spot Elevation
- + 826 Approx. Spot Elevation
- N.B. Form lines and italic spot elevations indicate lower reliability due to dense vegetation cover
- Datum: Horizontal — Australian Map Grid; Vertical — Australian Height Datum
- Grid Interval: 500 metres

Mapping photogrammetrically compiled by Associated Aerial Surveys Pty. Ltd. Compilation date: November 1978, from aerial photographs dated 12-12-1977.

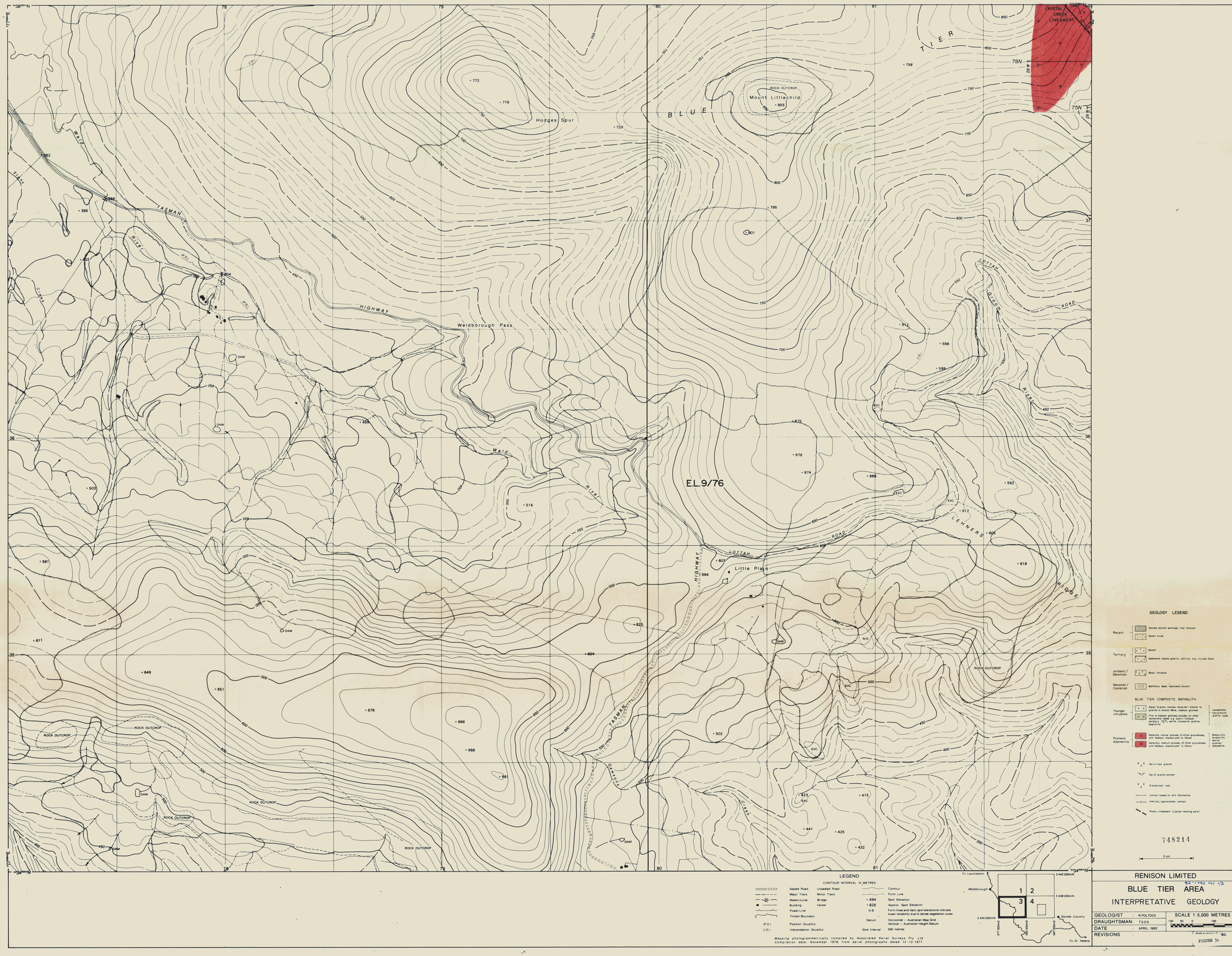
To Launceston / Weldborough / To St. Helens / Goulds Country

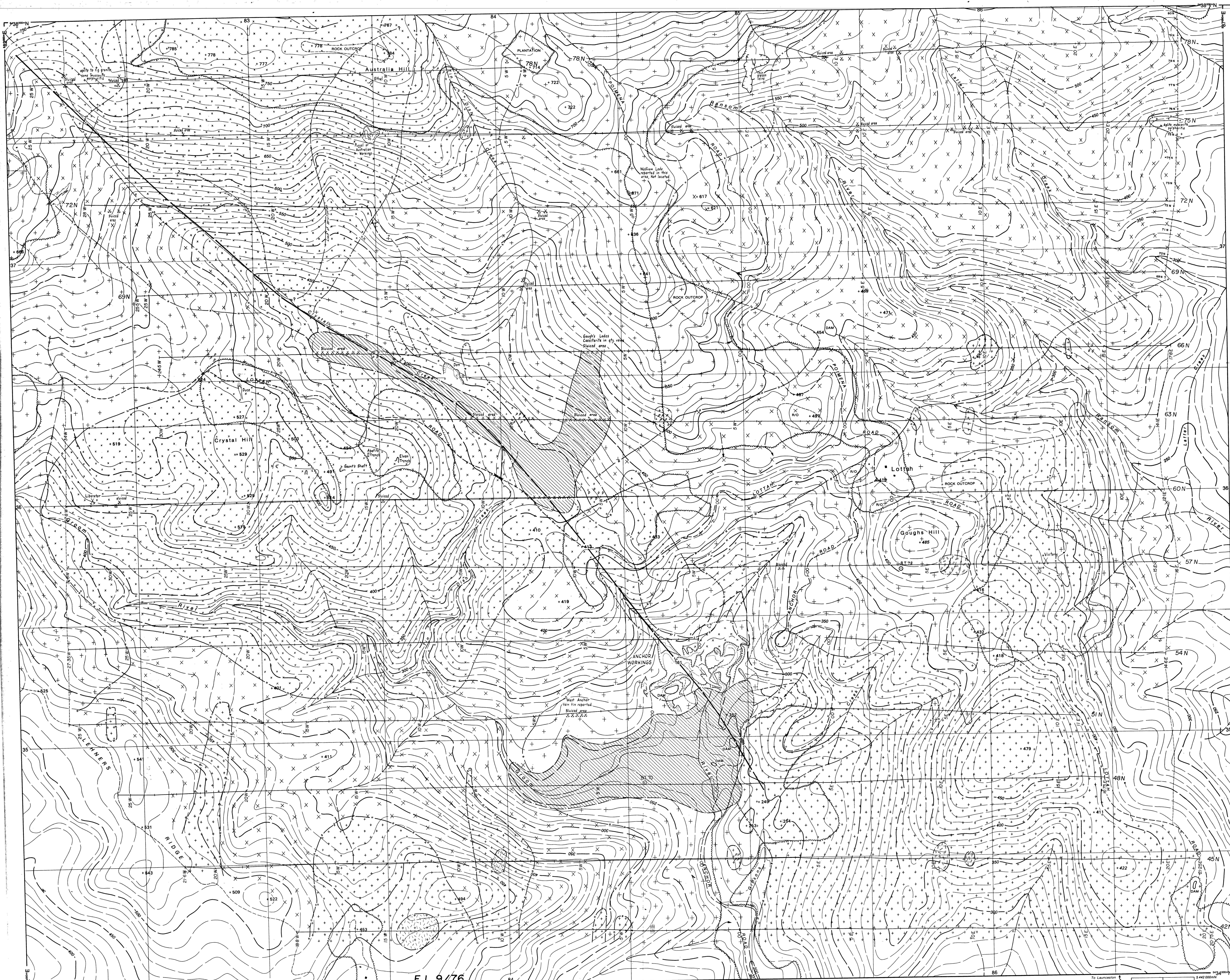
1 2 3 4

5 442 000mN / 5 438 000mN / 5 434 000mN

577 500mE / 580 000mE / 582 500mE

1097


RENISON LIMITED
82-1792 Vol 1/3
BLUE TIER AREA
INTERPRETATIVE GEOLOGY
GEOLOGIST : R.POLTOCK
DRAUGHTSMAN : T.G.D.S.
DATE : APRIL 1982
REVISIONS :
SCALE 1:5,000 METRES
100 50 0 100 200
DRAWING No.
FIGURE 3c
748214
5 cm
GEOLOGY LEGEND
Recent
Sluiced alluvial workings, river alluvium
Basalt scree
Tertiary
Basalt
Sediments: basalt, granitic detritus may include flows
Jurassic / Devonian
Basic intrusive
Devonian / Cambrian
Mathinna Beds - sediments (minor)
BLUE TIER COMPOSITE BATHOLITH
Younger intrusions
Alkali Granite (Anchor Granite) - similar to granite in Anchor Mine, medium grained
Fine to medium grained, includes all other leucocratic types e.g. quartz-feldspar porphyry (P_pP), aplite, muscovite granite, pegmatite
Leucocratic equigranular granite types
Poimena Adamellite
Generally coarse grained, 5-10mm groundmass, with feldspar phenocrysts to 40mm
Generally medium grained, <2-5mm groundmass, with feldspar phenocrysts to 20mm
Mesocratic porphyritic biotite granite/adamellite
Sericitized granite
Dip of granite contact
Greisenised rock
Contact based on drill information
Inferred, approximate contact
Photo-lineament (Loxton Hunting work)
LEGEND
CONTOUR INTERVAL 10 METRES
Sealed Road
Unsealed Road
Major Track
Minor Track
Watercourse
Bridge
Building
Fence
Power Line
Timber Boundary
(P.D.) Position Doubtful
(I.D.) Interpretation Doubtful
Contour
Form Line
+ 494 Spot Elevation
+ 826 Approx. Spot Elevation
N.B. Form lines and italic spot elevations indicate lower reliability due to dense vegetation cover
Datum: Horizontal — Australian Map Grid
Vertical — Australian Height Datum
Grid Interval 500 metres
Mapping photogrammetrically compiled by Associated Aerial Surveys Pty. Ltd.
Compilation date: November 1978, from aerial photographs dated 12-12-1977.
To Launceston
Weldborough
Goulds Country
To St. Helens
5 442 000mN
5 438 000mN
5 434 000mN
577 000mE
582 000mE
587 000mE
1 2 3 4
CRYSTAL CREEK LINEAMENT
BLUE TIER
Mount Littlechild
ROCK OUTCROP
Hodges Spur
TASMAN HIGHWAY
Weldborough Pass
Weld River
E.L.9/76
LOTTAH ROAD
Little Plain
LEHNERS RIDGE
Groom River
Dorans Creek
DAM
ROCK OUTCROP
EXC
1098



GEOLOGY LEGEND

Recent		Sluiced alluvial workings, river alluvium	
		Basalt scree	
Tertiary		Basalt	
		Sediments: basalt, granitic detritus may include flows	
Jurassic / Devonian		Basic intrusive	
Devonian / Silurian		Mathinna Beds - sediments (minor)	

BLUE TIER COMPOSITE BATHOLITH

Younger intrusions	x x	Alkali Granite (Anchor Granite) – similar to granite in Anchor Mine, medium grained	Leucocratic equigranular granite types
	+ +	Fine to medium grained, includes all other leucocratic types e.g. quartz-feldspar porphyry (P_pP), aplite, muscovite granite, pegmatite.	
Poimena Adamellite	+	Generally coarse grained, 5-10mm groundmass, with feldspar phenocrysts to 40mm	Mesocratic porphyritic biotite granite / adamellite
	X	Generally medium grained, <2-5mm groundmass, with feldspar phenocrysts to 20mm	

S S S Sericitized granite

5° Dip of granite contact

G G G Greisenised rock

Contact based on drill information

Inferred, approximate contact

Photo – lineament (Loxton Hunting work)

B.T. 70, B.T. 78 Drill holes completed to follow up anomalous I.P. responses.

748215

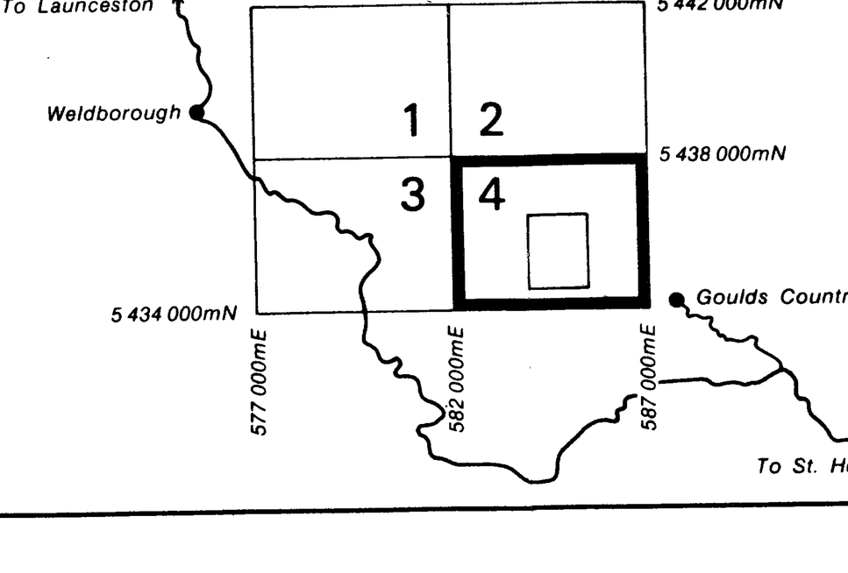
5 cm

LEGEND

CONTOUR INTERVAL 10 METRES

Sealed Road	Unsealed Road	Contour	
Major Track	Minor Track	Form Line	
Watercourse	Bridge	+ 494	Spot Elevation
Building	Fence	+ 826	Approx. Spot Elevation
Power Line		N.B.	Form lines and italic spot elevations indicate lower reliability due to dense vegetation cover
Timber Boundary		Datum:	Horizontal — Australian Map Grid Vertical — Australian Height Datum
(P.D.) Position Doubtful			
(I.D.) Interpretation Doubtful		Grid Interval	500 metres

Mapping photogrammetrically compiled by Associated Aerial Surveys Pty. Ltd. Compilation date: November 1978, from aerial photographs dated 12-12-1977.



RENISON LIMITED

82-1792 Vol 1/3

BLUE TIER AREA
INTERPRETATIVE GEOLOGY

GEOLOGIST	: R. Poltock, A. Ross	SCALE 1:5,000 METRES	
DRAUGHTSMAN	: T.G.D.S.		
DATE	: March 1982		
REVISIONS	:		FIGURE 3d

1099

GEOLOGY LEGEND

Recent	Sluiced alluvial workings, river alluvium		
	Basalt scree		
Tertiary	Basalt		
	Sediments: basalt, granitic detritus may include flows		
Jurassic / Devonian	Basic intrusive		
Devonian / Cambrian	Mathinna Beds - sediments (minor)		

BLUE TIER COMPOSITE BATHOLITH

Younger intrusions	Alkali Granite (Anchor Granite) - similar to granite in Anchor Mine, medium grained	Leucocratic equigranular granite types
	Fine to medium grained, includes all other leucocratic types e.g. quartz-feldspar porphyry (P_pP), aplite, muscovite granite, pegmatite	
Poimena Adamellite	Generally coarse grained, 5-10mm groundmass, with feldspar phenocrysts to 40mm	Mesocratic porphyritic biotite granite / adamellite
	Generally medium grained, <2-5mm groundmass, with feldspar phenocrysts to 20mm	

S S S — Sericitized granite

5° — Dip of granite contact

G G G — Greisenised rock

—I— Contact based on drill information

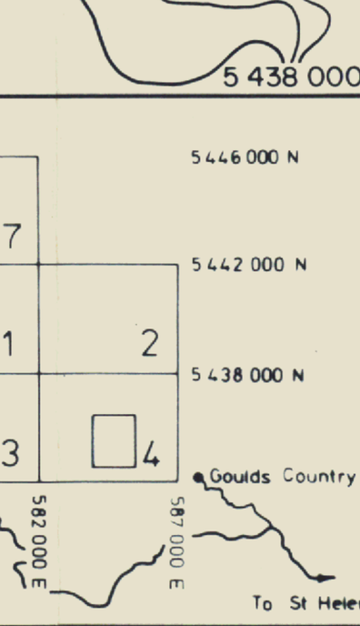
—II— Inferred, approximate contact

Photo - lineament (Loxton Hunting work)

748216

5 cm

NOTE: Contours are in feet. Enlarged from 1:15,840 topographic map.



RENISON LIMITED

82-1792 Vol 1/3

BLUE TIER AREA
INTERPRETATIVE GEOLOGY

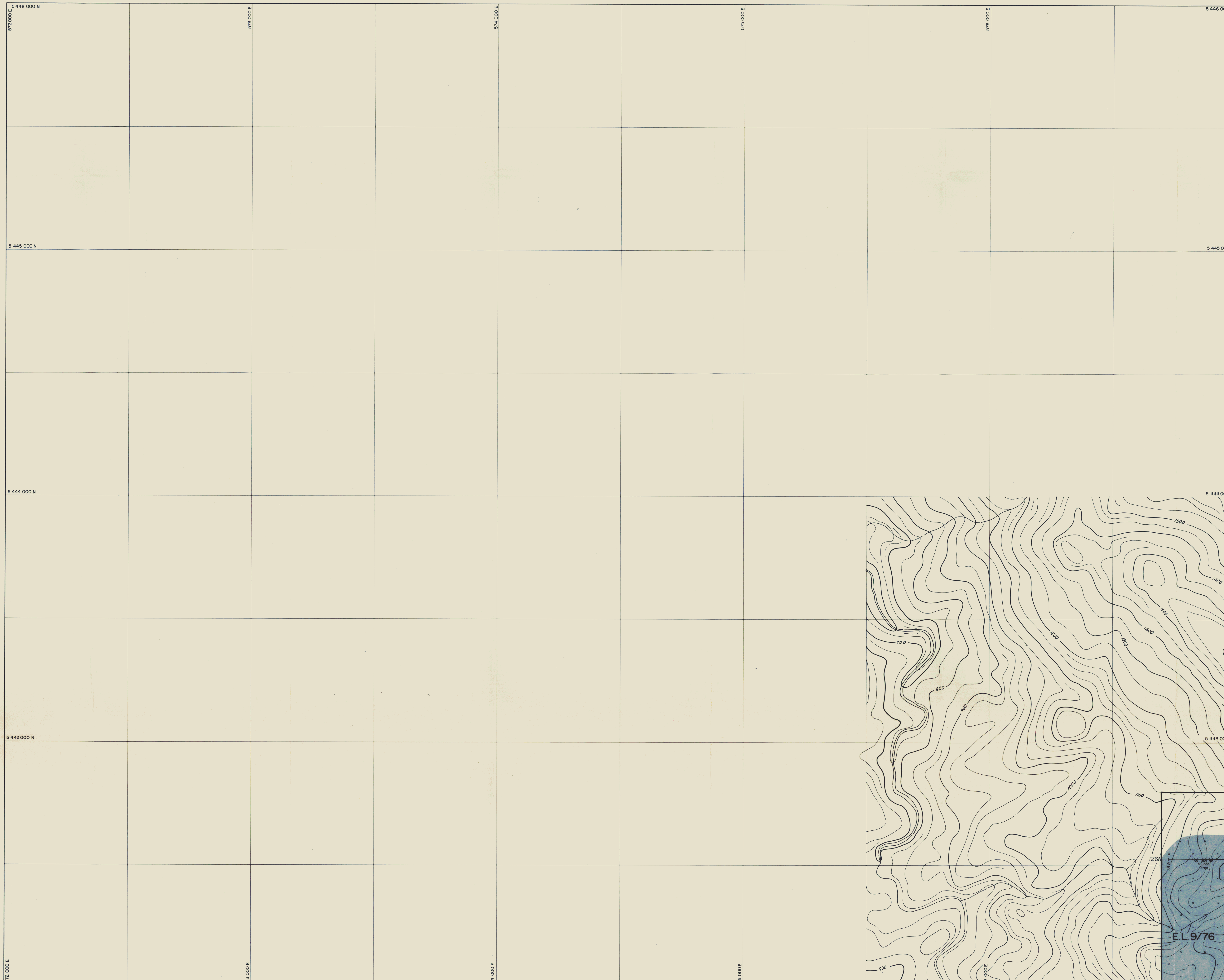
GEOLOGIST	: R. POLTOCK
DRAUGHTSMAN	: T.G.D.S.
DATE	: APRIL 1982
REVISIONS	:

SCALE 1:5,000 METRES

100 50 0 100 200

FIGURE 3e

1100



GEOLOGY LEGEND

Recent
- Sluiced alluvial workings, river alluvium
- Basalt scree

Tertiary
- Basalt
- Sediments: basalt, granitic detritus may include flows

Jurassic / Devonian
- Basic intrusive

Devonian / Cambrian
- Mathinna Beds - sediments (minor)

BLUE TIER COMPOSITE BATHOLITH

Younger intrusions (Leucocratic equigranular granite types)
- Alkali Granite (Anchor Granite) – similar to granite in Anchor Mine, medium grained
- Fine to medium grained, includes all other leucocratic types e.g. quartz-feldspar porphyry (P P), aplite, muscovite granite, pegmatite

Poimena Adamellite (Mesocratic porphyritic biotite granite / adamellite)
- Generally coarse grained, 5-10mm groundmass, with feldspar phenocrysts to 40mm
- Generally medium grained, <2-5mm groundmass, with feldspar phenocrysts to 20mm

S S S — Sericitized granite

5° — Dip of granite contact

G G G — Greisenised rock

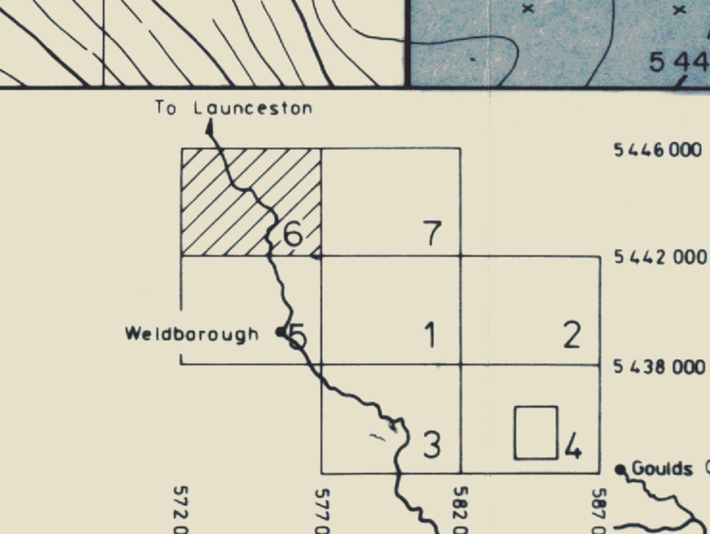
— I — Contact based on drill information

— II — Inferred, approximate contact

Photo – lineament (Loxton Hunting work)

748217

5 cm



NOTE: Contours are in feet. Enlarged from 1:15,840 topographic map.

RENISON LIMITED

82-1792 Vol 1/3

BLUE TIER AREA
INTERPRETATIVE GEOLOGY

GEOLOGIST	: R. POLTOCK	SCALE 1:5,000 METRES
DRAUGHTSMAN	: T.G.D.S.	100 50 0 100 200
DATE	: APRIL 1982	
REVISIONS	:	FIGURE 3f

1101

5 446 000 N

577 000 E | 578 000 E | 579 000 E | 580 000 E | 581 000 E | 582 000 E

5 445 000 N

5 444 000 N

5 443 000 N

5 442 000 N

CREAM CREEK WORKINGS

HIBERNUS CREEK WORKINGS

E.L. 9/76

133·5 N

128·5 N

126 N

sluiced

sluiced area

GEOLOGY LEGEND

Recent
- Sluiced alluvial workings, river alluvium
- Basalt scree

Tertiary
- Basalt
- Sediments, basalt, granitic detritus may include flows

Jurassic / Devonian
- Basic intrusive

Devonian / Cambrian
- Wathaka Beds - sediments (minor)

BLUE TIER COMPOSITE BATHOLITH

Younger intrusions
- Alkali Granite (Anchor Granite) - similar to granite in Anchor Mine, medium grained
- Fine to medium grained, includes all other leucocratic types e.g. quartz-feldspar porphyry (Q.F.), aplite, muscovite granite, pegmatite

Leucocratic equigranular granite types

Poimena Adamellite
- Generally coarse grained, 5-10mm groundmass, with feldspar phenocrysts to 40mm
- Generally medium grained, 2-5mm groundmass, with feldspar phenocrysts to 20mm

Mesocratic porphyritic granite / adamellite

- Sericitised granite
- Dip of granite contact
- Greenstained rock
- Contact based on drill information
- Inferred, approximate contact
- Photo-lineament (Liaison Hunting work)

748218

5 cm

NOTE: Contours are in feet. Enlarged from 1:15,840 topographic map.

To Launceston

Weldborough

Goulds Country

To St. Helens

5 446 000 N | 5 442 000 N | 5 438 000 N

577 000 E | 579 000 E | 581 000 E

1 | 2 | 3 | 4 | 6 | 7

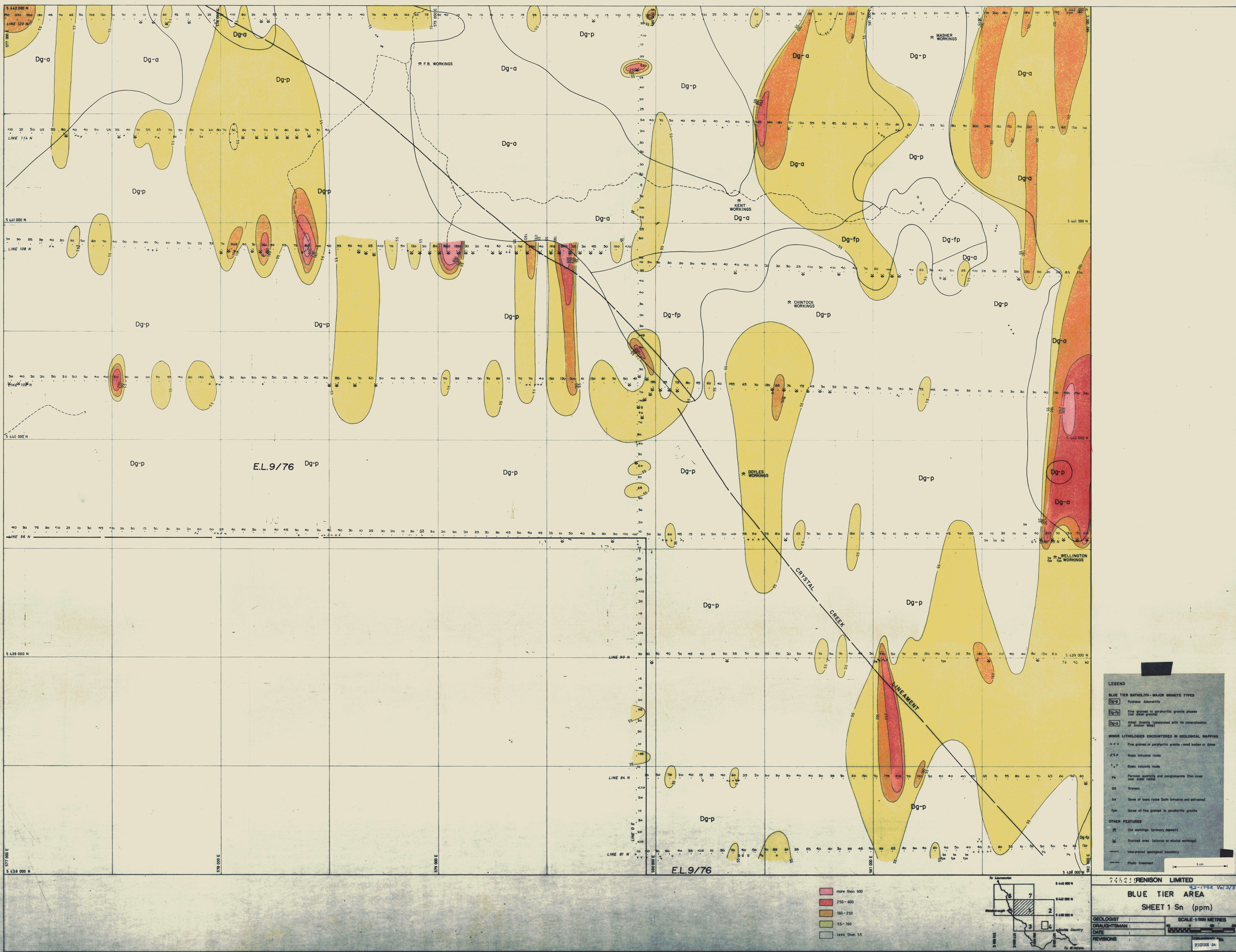
RENISON LIMITED

B2-1742 Vol 1/3

BLUE TIER AREA
INTERPRETATIVE GEOLOGY

GEOLOGIST	: R POLTOCK	SCALE 1:5,000 METRES
DRAUGHTSMAN	: T.G.D.S	100 50 0 100 200
DATE	: APRIL 1982	
REVISIONS	:	FIGURE No: 3g

1101


LINE 120 N
LINE 114 N
LINE 108 N
LINE 102 N
LINE 96 N
LINE 90 N
LINE 84 N
LINE 81 N
LINE 0 E
5 442 000 N
5 441 000 N
5 440 000 N
5 439 000 N
5 438 000 N
577 000 E
578 000 E
579 000 E
580 000 E
581 000 E
582 000 E
Dg-a
Dg-p
Dg-fp
F.B. WORKINGS
MASHER WORKINGS
KENT WORKINGS
CHINTOCK WORKINGS
DOYLES WORKINGS
WELLINGTON WORKINGS
E.L.9/76
CRYSTAL CREEK LINEAMENT
LEGEND
BLUE TIER BATHOLITH - MAJOR GRANITE TYPES
Dg-p Poimena Adamellite
Dg-fp Fine grained to porphyritic granite phases (not alkali granite)
Dg-a Alkali Granite (associated with tin mineralization at Anchor Mine)
MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING
+ + + Fine grained or porphyritic granite - small bodies or dykes
Basic intrusive rocks
Basic volcanic rocks
Ps Permian quartzite and conglomerate (thin cover over older rocks)
GG Greisen
bs Scree of basic rocks (both intrusive and extrusive)
fps Scree of fine grained to porphyritic granite
OTHER FEATURES
Old workings (primary deposit)
Sluiced area (alluvial or eluvial workings)
Interpreted geological boundary
Photo lineament
5 cm
more than 600
250 - 600
160 - 250
55 - 160
less than 55
To Launceston
Weldborough
Goulds Country
To St.Helens
5 446 000 N
5 442 000 N
5 438 000 N
572 000 E
577 000 E
582 000 E
587 000 E
74821 RENISON LIMITED
82-1792 Vol 2/3
BLUE TIER AREA
SHEET 1 Sn (ppm)
GEOLOGIST :
DRAUGHTSMAN :
DATE :
REVISIONS :
SCALE - 1:5000 METRES
DRAWING No.
FIGURE 4a
1102

Dg-a
Dg-p
Dg-fp
E.L.9/76
MICHAEL WORKINGS
PERENNIAL WORKINGS
MARIE WORKINGS
MOON MINE
SOUTHERN CROSS / HALEY'S WORKINGS
BASELINE BB
BASELINE AA
LINE 114 N
LINE 108 N
LINE 102 N
LINE 98 N
LINE 93 N
LINE 88 N
LINE 84 N
LINE 81 N
5 442 000 N
5 441 000 N
5 440 000 N
5 439 000 N
5 438 000 N
585 000 E
587 000 E
589 000 E
591 000 E
593 000 E
595 000 E
597 000 E

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

Dg-p Poimena Adamellite

Dg-fp Fine grained to porphyritic granite phases (not Alkali granite)

Dg-a Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

+ + + Fine grained or porphyritic granite - small bodies or dykes

Basic intrusive rocks

Basic volcanic rocks

Ps Permian quartzite and conglomerate (thin cover over older rocks)

GG Greisen

bs Scree of basic rocks (both intrusive and extrusive)

fps Scree of fine grained to porphyritic granite

OTHER FEATURES

Old workings (primary deposit)

Sluiced area (alluvial or eluvial workings)

Interpreted geological boundary

Photo lineament

5 cm

748220

more than 600
250 - 600
160 - 250
55 - 160
less than 55

To Launceston
Weldborough
Gouldds Country
To St Helens
1 2 3 4 5 6 7

RENISON LIMITED

B.2-1 Pkg Vol 2/3

BLUE TIER AREA

Sheet 2 Sn (ppm)

GEOLOGIST :
DRAUGHTSMAN :
DATE :
REVISIONS :

SCALE 1:5000 METRES

0 100 200

FIGURE 4b

1108

581 000 E

582 000 E

5 438 000 N

Dg-p

40 30 20 50 40 40 55 30

3000 W

LINE 78 N

LINE 75 N

5 437 000 N

E.L.9/76

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

Dg-p Poimena Adamellite

Dg-fp Fine grained to porphyritic granite phases (not Ghadi granite)

Dg-a Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

+ + + Fine grained or porphyritic granite - small bodies or dykes

Basic intrusive rocks

Basic volcanic rocks

Ps Permian quartzite and conglomerate (thin cover over older rocks)

GG Greisen

bs Scree of basic rocks (both intrusive and extrusive)

fps Scree of fine grained to porphyritic granite

OTHER FEATURES

Old workings (primary deposit)

Sluiced area (alluvial or eluvial workings)

Interpreted geological boundary

Photo lineament

5 cm

748221

less than 55

To Launceston

5 446 000 N

5 442 000 N

5 438 000 N

Weldborough

6 7 1 2 3 4

3 000 525 E

3 000 000 E

3 000 000 E

Goulds Country

To St. Helens

RENISON LIMITED

52-1792 Vol 2/3

BLUE TIER AREA

Sheet 3 Sn (ppm)

GEOLOGIST :

DRAUGHTSMAN :

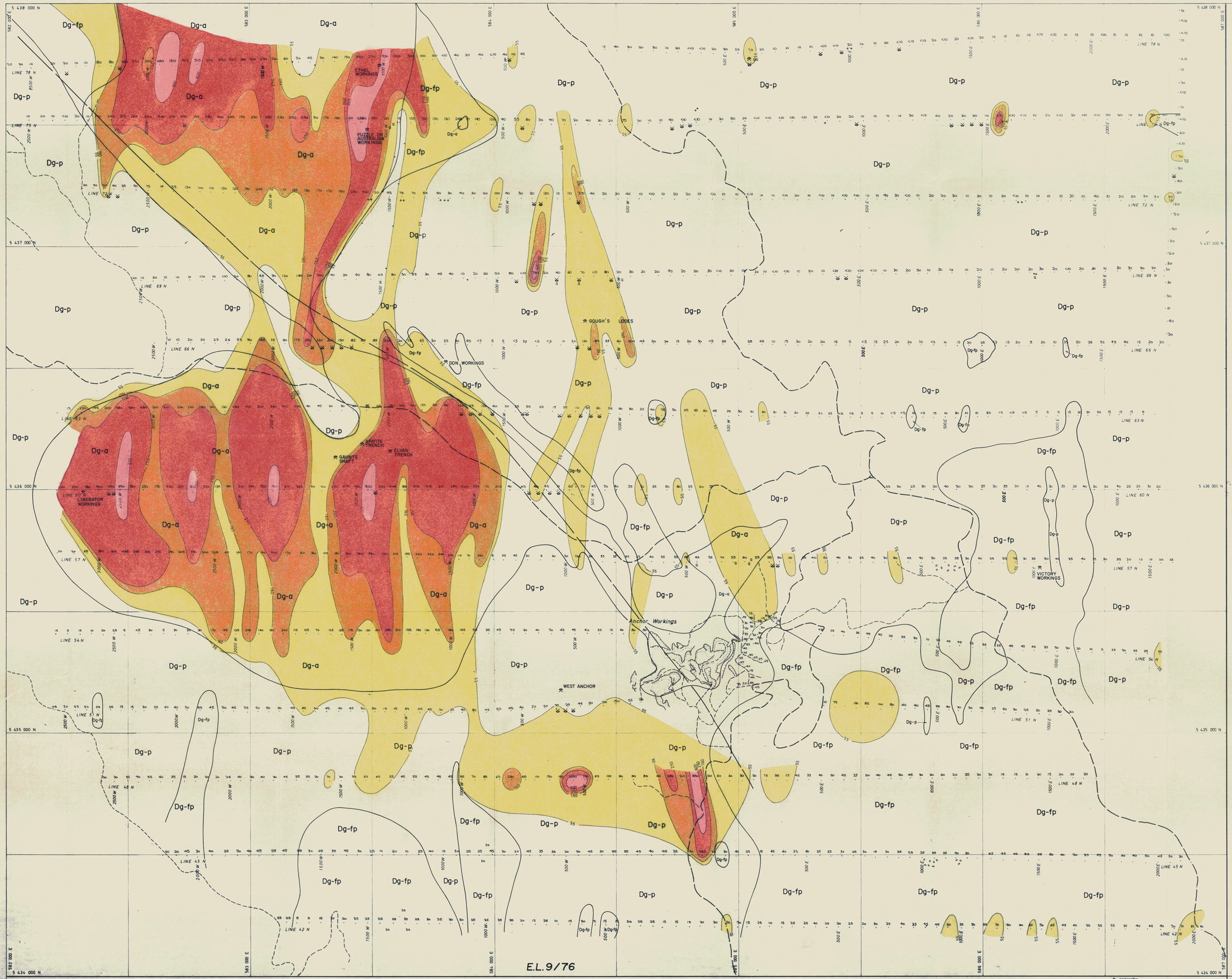
DATE :

REVISIONS :

SCALE 1:5000 METRES

0 100 200

FIGURE 4a



LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

- Dg-p — Poimena Adamellite
- Dg-fp — Fine grained to porphyritic granite phases (not shown granite)
- Dg-a — Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

- +++ Fine grained or porphyritic granite - small bodies or dykes
- Basic intrusive rocks
- Basic volcanic rocks
- Pe — Permian quartzite and conglomerate (thin cover over older rocks)
- GG — Greisen
- bs — Scree of basic rocks (both intrusive and extrusive)
- fps — Scree of fine grained to porphyritic granite

OTHER FEATURES

- Old workings (primary deposit)
- Sluiced area (alluvial or eluvial workings)
- Interpreted geological boundary
- Photo lineament

5 cm

748222

RENISON LIMITED

93-1992 Vol 2/3

BLUE TIER AREA

Sheet 4 Sn (ppm)

GEOLOGIST	:
DRAUGHTSMAN	:
DATE	:
REVISIONS	:

SCALE-1:5000 METRES

0 100 200

FIGURE 4d

1165

576 000 E

5 442 000 N

LINE 120 N

3000 W

Dg-a

LINE 114 N

Dg-a

5 441 000 N

LINE 108 N

Dg-p

E.L. 9/76

Dg-p

LINE 102 N

5 440 000 N

Dg-p

LINE 96 N

WELDBOROUGH

5 439 000 N

577 000 E

576 000 E

5 438 000 N

160 - 250

55 - 160

Less than 55

To Launceston

Weldborough

Gouldds Country

To St Helens

5 446 000 N

5 442 000 N

5 438 000 N

572 000 E

573 000 E

574 000 E

575 000 E

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

Dg-p — Poimena Adamellite

Dg-fp — Fine grained to porphyritic granite phases (not Alkali granite)

Dg-a — Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

+ + + — Fine grained or porphyritic granite - small bodies or dykes

Basic intrusive rocks

Basic volcanic rocks

Ps — Permian quartzite and conglomerate (thin cover over older rocks)

GG — Greisen

bs — Scree of basic rocks (both intrusive and extrusive)

fps — Scree of fine grained to porphyritic granite

OTHER FEATURES

Old workings (primary deposit)

Sluiced area (alluvial or eluvial workings)

Interpreted geological boundary

Photo lineament

5 cm

748223

RENISON LIMITED

82-1792 Vol 2/5

BLUE TIER AREA

Sheet 5 Sn (ppm)

GEOLOGIST	SCALE 1:5000 METRES
DRAUGHTSMAN	XII 0 100 200
DATE	
REVISIONS	DRAWING No. FIGURE 4e

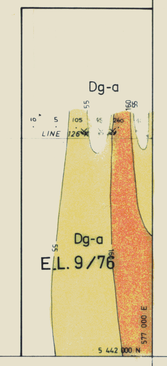
1756

5 443 000 N

576 000 E

577 000 E

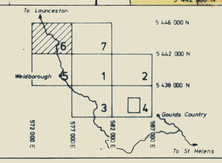
5 442 000 N



160 - 250

55 - 160

Less than 55



LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

- Dg-p — Poimena Adamellite
- Dg-fp — Fine grained to porphyritic granite phases (not alkali granite)
- Dg-a — Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

- + + + — Fine grained or porphyritic granite - small bodies or dykes
- Basic intrusive rocks
- Basic volcanic rocks
- Ps — Permian quartzite and conglomerate (thin cover over older rocks)
- GG — Greisen
- bs — Scree of basic rocks (both intrusive and extrusive)
- fps — Scree of fine grained to porphyritic granite

OTHER FEATURES

- Old workings (primary deposit)
- Sluiced area (alluvial or eluvial workings)
- Interpreted geological boundary
- Photo lineament

5 cm

748224

RENISON LIMITED

82-1792 Vol 2/5

BLUE TIER AREA

Sheet 6 Sn (ppm)

GEOLOGIST	SCALE 1:5000 METRES
DRAUGHTSMAN	100 0 100 200
DATE	
REVISIONS	FIGURE 4f

5 444 000 N

5 443 000 N

5 442 000 N

577 000 E

578 000 E

579 000 E

580 000 E

581 000 E

582 000 E

LINE 126 N

LINE 126 N

LINE 0 E

Quartz - tourmaline segregation

Quartz - tourmaline

CREAM CREEK WORKINGS

HIBERNUS CREEK WORKINGS

E.L. 9/76

Dg-a

Dg-p

fps

bs

250 - 600

160 - 250

55 - 160

Less than 55

To Launceston

Weldborough

Upper Gundy

To St Helens

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

Dg-p Poimena Adamellite

Dg-fp Fine grained to porphyritic granite phases (not alkali granite)

Dg-a Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

+ + + Fine grained or porphyritic granite - small bodies or dykes

Basic intrusive rocks

Basic volcanic rocks

Ps Permian quartzite and conglomerate (thin cover over older rocks)

GG Greisen

bs Scree of basic rocks (both intrusive and extrusive)

fps Scree of fine grained to porphyritic granite

OTHER FEATURES

Old workings (primary deposit)

Sluiced area (alluvial or eluvial workings)

Interpreted geological boundary

Photo lineament

5 cm

748225

RENISON LIMITED

82-1792 Vol 2/3

BLUE TIER AREA

Sheet 7 Sn (ppm)

GEOLOGIST :

DRAUGHTSMAN :

DATE :

REVISIONS :

SCALE - 1:5000 METRES

FIGURE 4g

1108

F.B. WORKINGS
MASHER WORKINGS
KENT WORKINGS
CHINTOCK WORKINGS
DOYLES WORKINGS
WELLINGTON WORKINGS
CRYSTAL CREEK LINEAMENT
E.L.9/76
E.L.9/76
LINE 120 N
LINE 114 N
LINE 108 N
LINE 96 N
LINE 90 N
LINE 84 N
LINE 81 N
LINE 0 E
577 000 E
579 000 E
580 000 E
581 000 E
582 000 E
5 442 000 N
5 441 000 N
5 440 000 N
5 439 000 N
5 438 000 N
Dg-a
Dg-p
Dg-fp

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

Dg-p Poimena Adamellite

Dg-fp Fine grained to porphyritic granite phases (not Ghail granite)

Dg-a Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

+++ Fine grained or porphyritic granite - small bodies or dykes

Basic intrusive rocks

Basic volcanic rocks

Ps Permian quartzite and conglomerate (thin cover over older rocks)

GG Greisen

bs Scree of basic rocks (both intrusive and extrusive)

fps Scree of fine grained to porphyritic granite

OTHER FEATURES

Old workings (primary deposit)

Sluiced area (alluvial or eluvial workings)

Interpreted geological boundary

Photo lineament

5 cm

Less than 25

25 - 50

50 - 100

more than 100

To Launceston

Weldborough

Goulds Country

To St Helens

748226.

RENISON LIMITED

82-1792 Vol 2/3

BLUE TIER AREA

Sheet 1 Cu (ppm)

GEOLOGIST :

DRAUGHTSMAN :

DATE :

REVISIONS :

SCALE 1:5000 METRES

100 0 100 200

No.

FIGURE 5a

1109

E.L.9/76

E.L.9/76

Dg-a
Dg-p
Dg-fp
Ps
MICHAEL WORKINGS
PERENNIAL WORKINGS
MARIE WORKINGS
SOUTHERN CROSS / HALEY'S WORKINGS
MOON MINE
BASELINE
LINE 120 N
LINE 114 N
LINE 108 N
LINE 102 N
LINE 96 N
LINE 90 N
LINE 84 N
LINE 81 N
5 442 000 N
5 441 000 N
5 440 000 N
5 439 000 N
5 438 000 N
581 000 E
583 000 E
585 000 E
587 000 E

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

Dg-p — Poimena Adamellite

Dg-fp — Fine grained to porphyritic granite phases (not Alkali granite)

Dg-a — Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

+++ Fine grained or porphyritic granite - small bodies or dykes

Basic intrusive rocks

Basic volcanic rocks

Ps — Permian quartzite and conglomerate (thin cover over older rocks)

GG — Greisen

bs — Scree of basic rocks (both intrusive and extrusive)

fps — Scree of fine grained to porphyritic granite

OTHER FEATURES

Old workings (primary deposit)

Sluiced area (alluvial or eluvial workings)

Interpreted geological boundary

Photo lineament

5 cm

748227

25-50

less than 25

To Launceston
Weldborough
Goulds Country
To St Helens
577 000 E
581 000 E
587 000 E
5 446 000 N
5 442 000 N
5 438 000 N

RENISON LIMITED

82-1-792 V6f2/3

BLUE TIER AREA

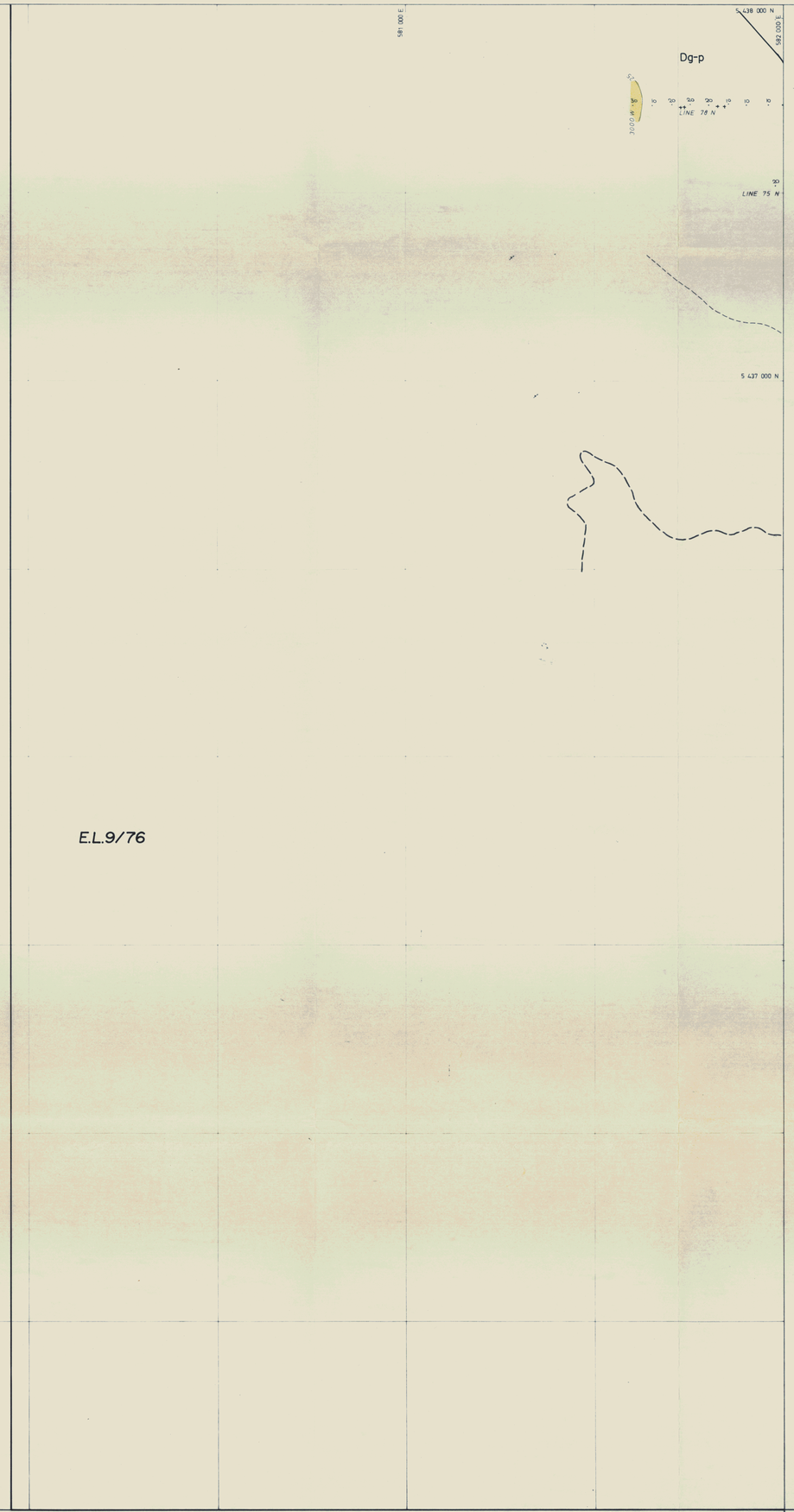
Sheet 2 Cu (ppm)

GEOLOGIST :
DRAUGHTSMAN :
DATE :
REVISIONS :

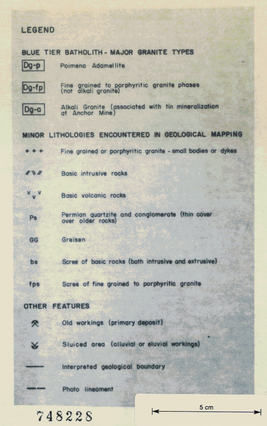
SCALE 1:5000 METRES

100 0 100 200

DRAWING No.
FIGURE 5b



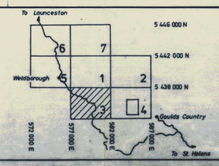
E.L.9/76



748228

25 - 50

Less than 25



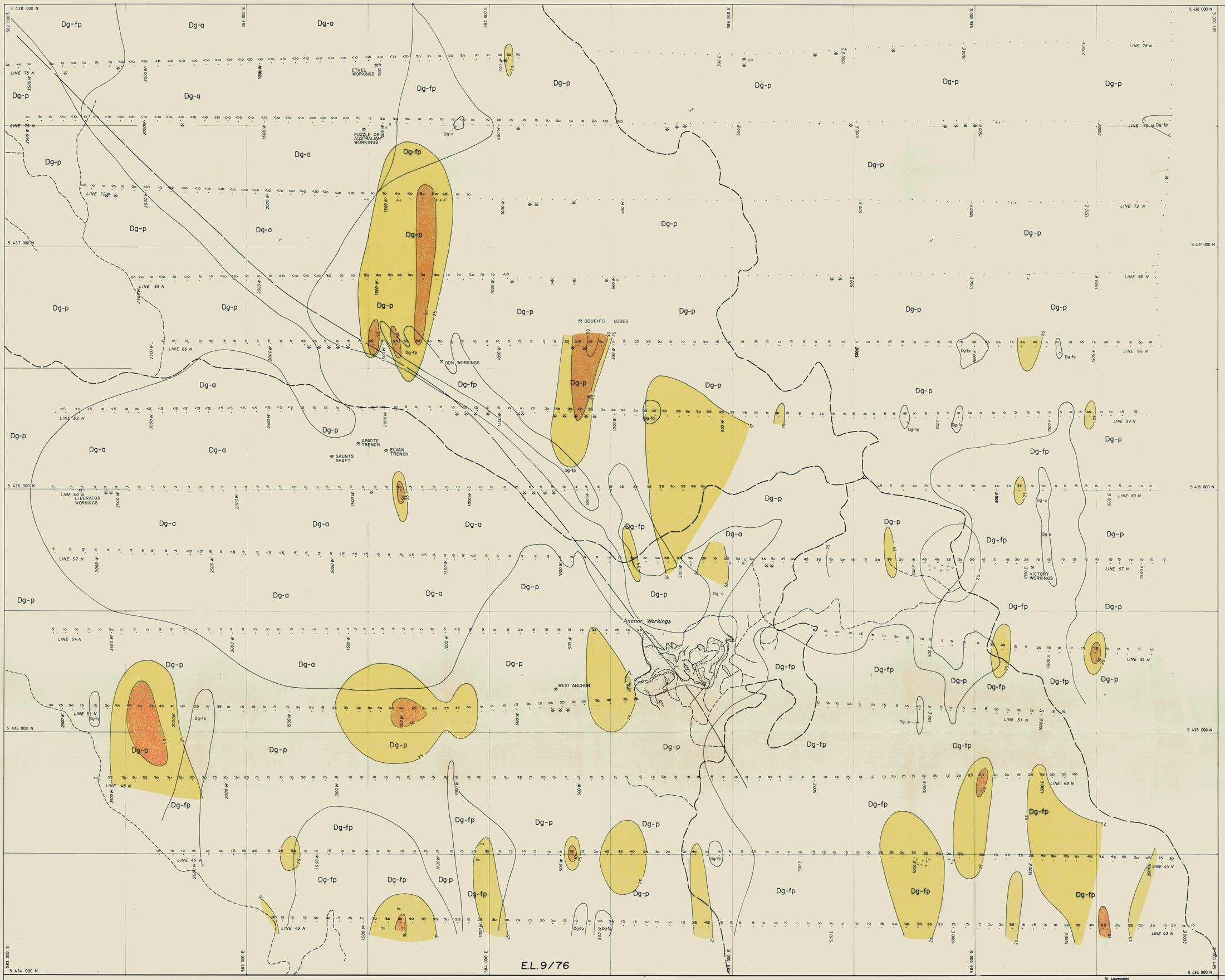
RENISON LIMITED

52-1792 Vol 2/3

BLUE TIER AREA

Sheet 3 Cu (ppm)

GEOLOGIST :	SCALE 1:5000 METRES
DRAUGHTSMAN :	100 0 100 200
DATE :	
REVISIONS :	FIGURE 5a


ETHEL WORKINGS
PUZZLE OR AUSTRALIAN WORKINGS
GOUGH'S LODES
DON WORKINGS
APATITE TRENCH
ELVAN TRENCH
GAUNTS SHAFT
LIBERATOR WORKINGS
Anchor Workings
WEST ANCHOR
VICTORY WORKINGS
E.L. 9/76
LEGEND
BLUE TIER BATHOLITH - MAJOR GRANITE TYPES
Dg-p Poimena Adamellite
Dg-fp Fine grained to porphyritic granite phases (not Shoal granite)
Dg-a Alkali Granite (associated with tin mineralization at Anchor Mine)
MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING
Fine grained or porphyritic granite - small bodies or dykes
Basic intrusive rocks
Basic volcanic rocks
Ps Permian quartzite and conglomerate (thin cover over older rocks)
GG Greisen
bs Screes of basic rocks (both intrusive and extrusive)
fps Screes of fine grained to porphyritic granite
OTHER FEATURES
Old workings (primary deposit)
Sluiced area (alluvial or eluvial workings)
Interpreted geological boundary
Photo lineament
5 cm
748229
50-100
25-50
Less than 25
To Launceston
Weldborough
Douglas Country
To St. Helens
RENISON LIMITED
82-1792 Vol 2/3
BLUE TIER AREA
Sheet 4 Cu (ppm)
GEOLOGIST :
DRAUGHTSMAN :
DATE :
REVISIONS :
SCALE 1:5000 METRES
FIGURE 54

576 000 E

5 442 000 N

LINE 120 N

577 000 E

3000 W

Dg-a

LINE 114 N

Dg-a

5 441 000 N

LINE 108 N

Dg-p

E.L. 9/76

Dg-p

LINE 102 N

5 440 000 N

Dg-p

LINE 96 N

WELDBOROUGH

5 439 000 N

576 000 E

577 000 E

5 438 000 N

50-100

25-50

Less than 25

To Launceston

5 446 000 N

5 442 000 N

5 439 000 N

Weldborough

Gould's Country

To St Helens

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

Dg-p Poimena Adamellite

Dg-fp Fine grained to porphyritic granite phases (not Alkali granite)

Dg-a Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

Fine grained or porphyritic granite - small bodies or dykes

Basic intrusive rocks

Basic volcanic rocks

Ps Permian quartzite and conglomerate (thin cover over older rocks)

GG Greisen

bs Scree of basic rocks (both intrusive and extrusive)

fps Scree of fine grained to porphyritic granite

OTHER FEATURES

Old workings (primary deposit)

Sluiced area (alluvial or eluvial workings)

Interpreted geological boundary

Photo lineament

5 cm

748230

RENISON LIMITED

82-1792 Vol 2/3

BLUE TIER AREA

Sheet 5 Cu (ppm)

GEOLOGIST

DRAUGHTSMAN

DATE

REVISIONS

SCALE 1:5000 METRES

100 0 100 200

FIGURE 5e

111 3

5 443 000 N

5 442 000 N

576 000 E

577 000 E

50-100

25-50

Less than 25

Dg-a

E.L. 9/76

LINE 12000N

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

Dg-p Poimena Adamellite

Dg-fp Fine grained to porphyritic granite phases (not alkali granite)

Dg-a Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

+ + + Fine grained or porphyritic granite - small bodies or dykes

Basic intrusive rocks

Basic volcanic rocks

Ps Permian quartzite and conglomerate (thin cover over older rocks)

GG Greisen

bs Scree of basic rocks (both intrusive and extrusive)

fps Scree of fine grained to porphyritic granite

OTHER FEATURES

Old workings (primary deposit)

Sluiced area (alluvial or eluvial workings)

Interpreted geological boundary

Photo lineament

5 cm

748231

To Launceston

To St Helens

Whitemark

Scotts Country

5 446 000 N

5 442 000 N

5 438 000 N

576 000 E

577 000 E

RENISON LIMITED

82-1792 Vol 2/3

BLUE TIER AREA

Sheet 6 Cu (ppm)

GEOLOGIST :

DRAUGHTSMAN :

DATE :

REVISIONS :

SCALE 1:5000 METRES

100 0 100 200

FIGURE 5c

1114

5 444 000 N

5 444 000 N

5 443 000 N

5 443 000 N

5 442 000 N

5 442 000 N

577 000 E

578 000 E

579 000 E

580 000 E

581 000 E

582 000 E

LINE 126 N

LINE 0 E

Dg-a

Dg-p

Quartz - tourmaline segregation

Quartz - tourmaline

Bs

fps

bs

CREAM CREEK WORKINGS

HIBERNUS CREEK WORKINGS

E.L. 9/76

1000 W

500 W

1125 N

185 N

3000 W

2500 W

2000 W

1500 W

1000 W

500 W

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

Dg-p Poimena Adamellite

Dg-fp Fine grained to porphyritic granite phases (not Alkali granite)

Dg-a Altesti Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

+ + + Fine grained or porphyritic granite - small bodies or dykes

Basic intrusive rocks

Basic volcanic rocks

Ps Permian quartzite and conglomerate (thin cover over older rocks)

GG Greisen

bs Scree of basic rocks (both intrusive and extrusive)

fps Scree of fine grained to porphyritic granite

OTHER FEATURES

Old workings (primary deposit)

Sluiced area (alluvial or eluvial workings)

Interpreted geological boundary

Photo lineament

5 cm

more than 200

100 - 200

50 - 100

25 - 50

less than 25

To Launceston

Westborough

Dunalley Quarry

To St Helens

5 446 000 N

5 442 000 N

5 438 000 N

577 000 E

579 000 E

581 000 E

748232

RENISON LIMITED

EL 2-1992 Vol 2/3

BLUE TIER AREA

Sheet 7 Cu (ppm)

GEOLOGIST :

DRAUGHTSMAN :

DATE :

REVISIONS :

SCALE - 1:5000 METRES

FIGURE 5g

1115

F.B. WORKINGS
MASHER WORKINGS
KENT WORKINGS
CHINTOCK WORKINGS
DOYLES WORKINGS
WELLINGTON WORKINGS
CRYSTAL CREEK LINEAMENT
E.L.9/76
E.L.9/76
LINE 120 N
LINE 114 N
LINE 108 N
LINE 102 N
LINE 96 N
LINE 90 N
LINE 84 N
LINE 81 N
LINE O E
5 442 000 N
5 441 000 N
5 440 000 N
5 439 000 N
5 438 000 N
577 000 E
578 000 E
579 000 E
580 000 E
581 000 E
582 000 E
Dg-a
Dg-p
Dg-fp
more than 200
100 - 200
50 - 100
less than 50
To Launceston
Weldborough
Gould's Country
To St Helens
LEGEND
BLUE TIER BATHOLITH - MAJOR GRANITE TYPES
Dg-p Poimena Adamellite
Dg-fp Fine grained to porphyritic granite phases (not Skaii granite)
Dg-a Alkali Granite (associated with tin mineralization at Anchor Mine)
MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING
Fine grained or porphyritic granite - small bodies or dykes
Basic intrusive rocks
Basic volcanic rocks
Ps Permian quartzite and conglomerate (thin cover over older rocks)
GG Greisen
bs Scree of basic rocks (both intrusive and extrusive)
fps Scree of fine grained to porphyritic granite
OTHER FEATURES
Old workings (primary deposit)
Sluiced area (alluvial or eluvial workings)
Interpreted geological boundary
Photo lineament
5 cm
748233
RENISON LIMITED
82-1792 Vol 3B
BLUE TIER AREA
SHEET 1 Zn (ppm)
GEOLOGIST :
DRAUGHTSMAN :
DATE :
REVISIONS :
SCALE 1:5000 METRES
FIGURE 6a
1116

E.L.9/76

E.L.9/76

MICHAEL WORKINGS

MICHAEL WORKINGS

PERENNIAL WORKINGS

MARIE WORKINGS

MOON MINE

SOUTHERN CROSS / HALEY'S WORKINGS

BASELINE BB

BASELINE AA

LINE 120 N

LINE 114 N

LINE 108 N

LINE 102 N

LINE 98 N

LINE 91 N

LINE 84 N

LINE 81 N

Dg-a

Dg-p

Dg-fp

5 442 000 N

5 441 000 N

5 440 000 N

5 439 000 N

5 438 000 N

582 000 E

583 000 E

584 000 E

585 000 E

586 000 E

587 000 E

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

- Dg-p — Poimena Adamellite
- Dg-fp — Fine grained to porphyritic granite phases (not Alkali granite)
- Dg-a — Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

- Fine grained or porphyritic granite - small bodies or dykes
- Basic intrusive rocks
- Basic volcanic rocks
- Ps — Permian quartzite and conglomerate (thin cover over older rocks)
- GG — Greisen
- bs — Scree of basic rocks (both intrusive and extrusive)
- fps — Scree of fine grained to porphyritic granite

OTHER FEATURES

- Old workings (primary deposit)
- Sluiced area (alluvial or eluvial workings)
- Interpreted geological boundary
- Photo lineament

5 cm

748234

50 - 100

less than 50

To Launceston

Weldborough

Gladstone Country

To St Helens

5 446 000 N

5 442 000 N

5 438 000 N

577 000 E

580 000 E

583 000 E

RENISON LIMITED

EL 7/92 Vol 3/3

BLUE TIER AREA

Sheet 2 Zn (ppm)

GEOLOGIST :

DRAUGHTSMAN :

DATE :

REVISIONS :

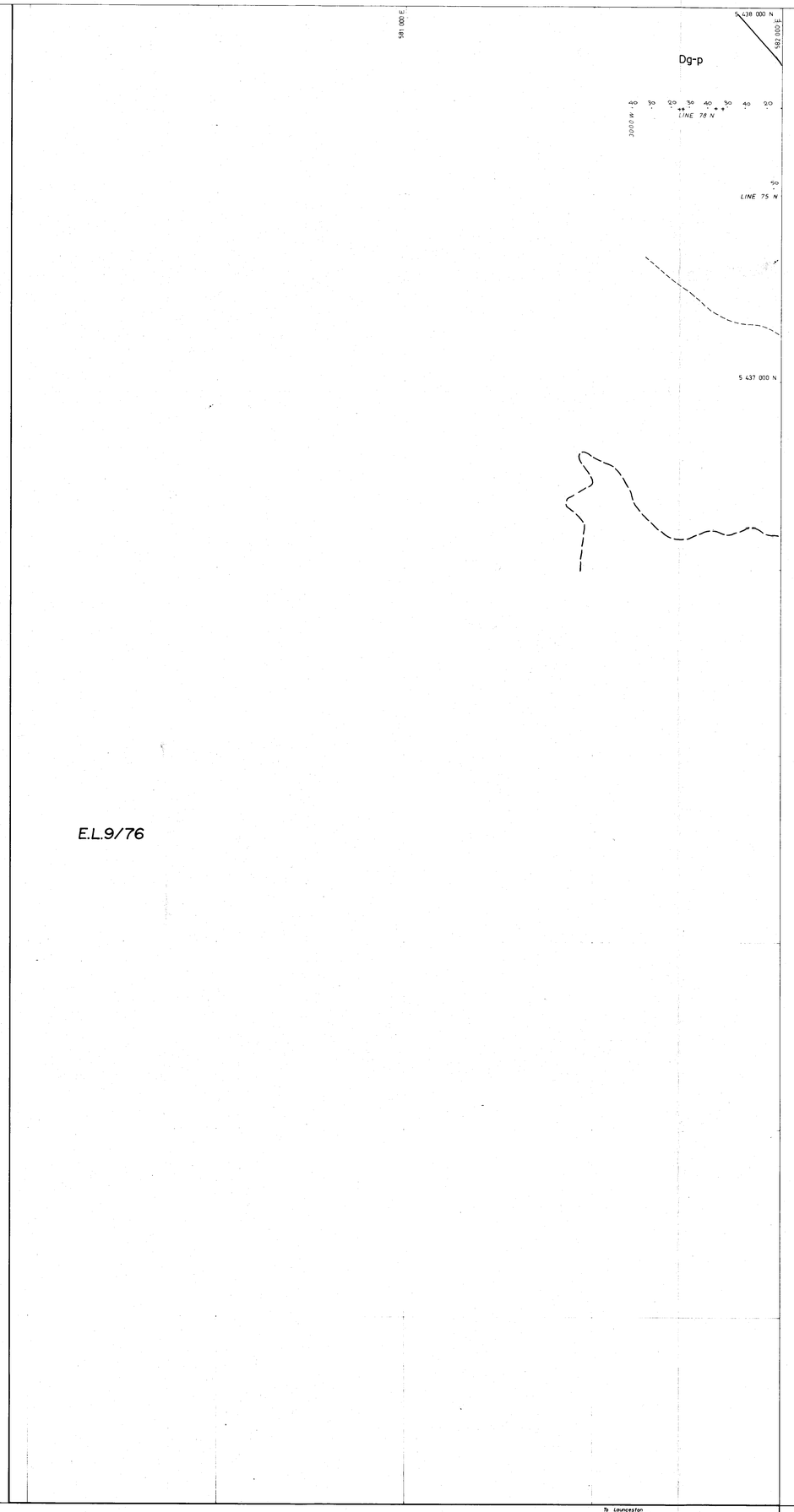
SCALE 1:5000 METRES

100 0 100 200

FIGURE 6b

No.

1117



LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

- Dg-p — Poimena Adamellite
- Dg-fp — Fine grained to porphyritic granite phases (not alkali granite)
- Dg-a — Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

- + + + — Fine grained or porphyritic granite - small bodies or dykes
- Basic intrusive rocks
- Basic volcanic rocks
- Ps — Permian quartzite and conglomerate (thin cover over older rocks)
- GG — Greisen
- bs — Scree of basic rocks (both intrusive and extrusive)
- fps — Scree of fine grained to porphyritic granite

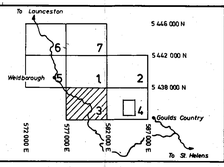
OTHER FEATURES

- Old workings (primary deposit)
- Sluiced area (alluvial or eluvial workings)
- Interpreted geological boundary
- Photo lineament

5 cm

748255

less than 50



RENISON LIMITED

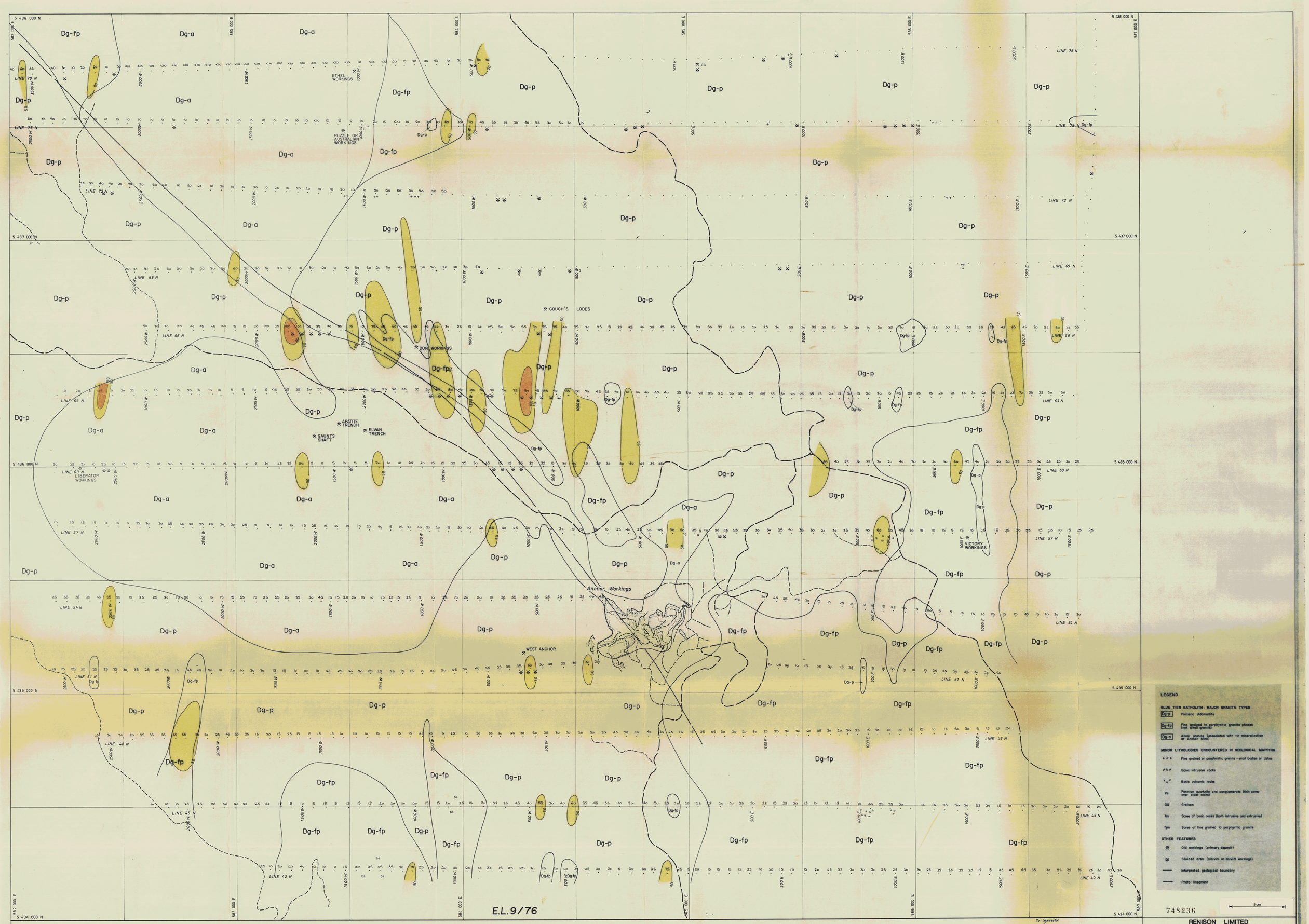
62-7792 Vol 3/3

BLUE TIER AREA

Sheet 3 Zn (ppm)

GEOLOGIST	SCALE 1:5000 METRES
DRAUGHTSMAN	100 0 100 200
DATE	
REVISIONS	No.

FIGURE 6a


ETHEL WORKINGS
PUZZLE ORE AUSTRALIAN WORKINGS
GOUGH'S LODES
DON WORKINGS
APATITE TRENCH
ELVAN TRENCH
GAUNTS SHAFT
LIBERATOR WORKINGS
Anchor Workings
WEST ANCHOR
VICTORY WORKINGS
E.L. 9/76
Dg-p
Dg-fp
Dg-a
LEGEND
BLUE TIER BATHOLITH - MAJOR GRANITE TYPES
Dg-p Poimena Adamellite
Dg-fp Fine grained to porphyritic granite phases (not alkali granite)
Dg-a Alkali Granite (associated with tin mineralization at Anchor Mine)
MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING
+++ Fine grained or porphyritic granite - small bodies or dykes
Basic intrusive rocks
Basic volcanic rocks
Pa Permian quartzite and conglomerate (thin cover over older rocks)
GG Greisen
bs Scree of basic rocks (both intrusive and extrusive)
fps Scree of fine grained to porphyritic granite
OTHER FEATURES
Old workings (primary deposit)
Sluiced area (alluvial or eluvial workings)
Interpreted geological boundary
Photo lineament
100 - 200
50 - 100
Less than 50
748236
5 cm
RENISON LIMITED
82-1792 Vol 3/3
BLUE TIER AREA
Sheet 4 Zn (ppm)
GEOLOGIST :
DRAUGHTSMAN :
DATE :
REVISIONS :
SCALE 1:5000 METRES
FIGURE 6d
To Launceston
To St Helens
Weldborough
Goulds Country

576 000 E

5 442 000 N

LINE 120 N

3000 W

577 000 E

Dg-a

LINE 114 N

Dg-a

5 441 000 N

LINE 108 N

Dg-p

E.L. 9/76

Dg-p

LINE 102 N

5 440 000 N

Dg-p

LINE 96 N

WELDBOROUGH

5 439 000 N

576 000 E

577 000 E

5 438 000 N

50-100

less than 50

To Launceston

5 446 000 N

5 442 000 N

5 438 000 N

Gould's Country

To St Helens

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

Dg-p Poimena Adamellite

Dg-fp Fine grained to porphyritic granite phases (not Skuli granite)

Dg-a Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

+ + + Fine grained or porphyritic granite - small bodies or dykes

Basic intrusive rocks

Basic volcanic rocks

Ps Permian quartzite and conglomerate (thin cover over older rocks)

GG Greisen

bs Scree of basic rocks (both intrusive and extrusive)

fps Scree of fine grained to porphyritic granite

OTHER FEATURES

Old workings (primary deposit)

Sluiced area (alluvial or eluvial workings)

Interpreted geological boundary

Photo lineament

748237

5 cm

RENISON LIMITED

82-172 Vol 3/3

BLUE TIER AREA

Sheet 5 Zn (ppm)

GEOLOGIST

DRAUGHTSMAN

DATE

REVISIONS

SCALE 1:5000 METRES

100 0 100 200

FIGURE 6a

7725

5 443 000 N

Dg-a

40 20 30 10 10 20

LINE 126W

Dg-a

E.L. 9/76

576 000 E

577 000 E

5 442 000 N

less than 50

To Launceston

5 446 000 N

5 442 000 N

5 438 000 N

Waldborough

Goulds Country

To St Helens

576 000 E

577 000 E

578 000 E

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

Dg-p Poimena Adamellite

Dg-fp Fine grained to porphyritic granite phases (not alkali granite)

Dg-a Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

Fine grained or porphyritic granite - small bodies or dykes

Basic intrusive rocks

Basic volcanic rocks

Ps Permian quartzite and conglomerate (thin cover over older rocks)

GG Greisen

bs Scree of basic rocks (both intrusive and extrusive)

fps Scree of fine grained to porphyritic granite

OTHER FEATURES

Old workings (primary deposit)

Sluiced area (alluvial or eluvial workings)

Interpreted geological boundary

Photo lineament

8 cm

748238

RENISON LIMITED

82-1792 Vol 3/3

BLUE TIER AREA

Sheet 6 Zn (ppm)

GEOLOGIST

DRAUGHTSMAN

DATE

REVISIONS

SCALE 1:5000 METRES

100 0 100 200

FIGURE 6F

11821

5 444 000 N

5 443 000 N

5 442 000 N

577 000 E

578 000 E

579 000 E

580 000 E

581 000 E

582 000 E

LINE 126 N

LINE 0 E

Dg-a

Dg-p

Quartz - tourmaline segregation

Quartz - tourmaline

CREAM CREEK WORKINGS

HIBERNUS CREEK WORKINGS

E.L. 9/76

1325 N

1285 N

fps

bs

50-100

less than 50

To Launceston

To St. Helens

Weldborough

Upwards Country

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

Dg-p Poimena Adamellite

Dg-fp Fine grained to porphyritic granite phases (not alkali granite)

Dg-a Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

Fine grained or porphyritic granite - small bodies or dykes

Basic intrusive rocks

Basic volcanic rocks

Ps Permian quartzite and conglomerate (thin cover over older rocks)

GG Greisen

bs Scree of basic rocks (both intrusive and extrusive)

fps Scree of fine grained to porphyritic granite

OTHER FEATURES

Old workings (primary deposit)

Sluiced area (alluvial or eluvial workings)

Interpreted geological boundary

Photo lineament

5 cm

748239

RENISON LIMITED

82-1792 Vol 3/3

BLUE TIER AREA

Sheet 7 Zn (ppm)

GEOLOGIST :

DRAUGHTSMAN :

DATE :

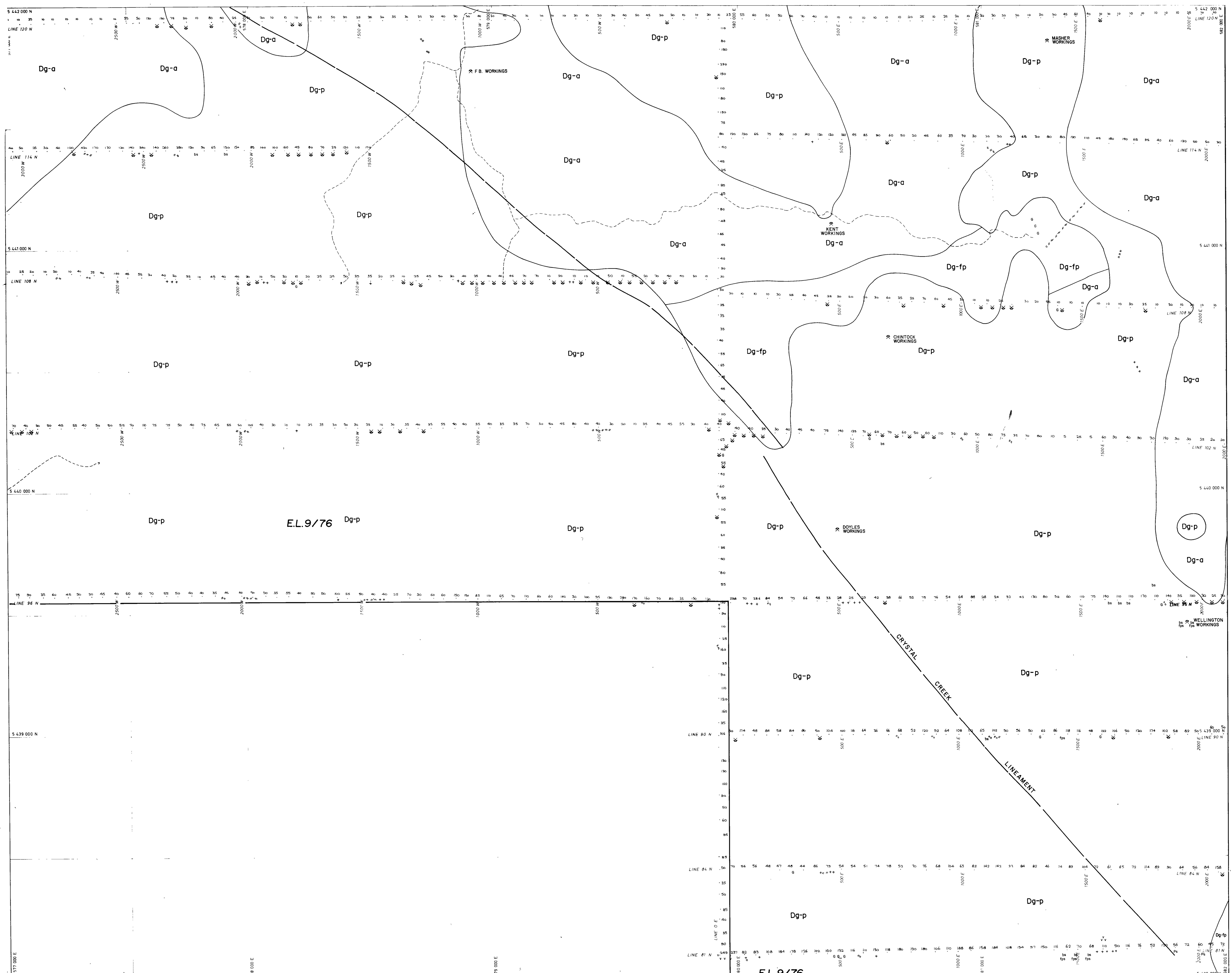
REVISIONS :

SCALE 1:5000 METRES

0 50

FIGURE 6g

1122



LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

Dg-p	Poimena Adamellite
Dg-fp	Fine grained to porphyritic granite phases (not alkali granite)
Dg-a	Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

+ + +	Fine grained or porphyritic granite - small bodies or dykes
	Basic intrusive rocks
v v	Basic volcanic rocks
Ps	Permian quartzite and conglomerate (thin cover over older rocks)
GG	Greisen
bs	Scree of basic rocks (both intrusive and extrusive)
fps	Scree of fine grained to porphyritic granite

OTHER FEATURES

⚒	Old workings (primary deposit)
	Sluiced area (alluvial or eluvial workings)
——	Interpreted geological boundary
——	Photo lineament

5 cm

748240

RENISON LIMITED

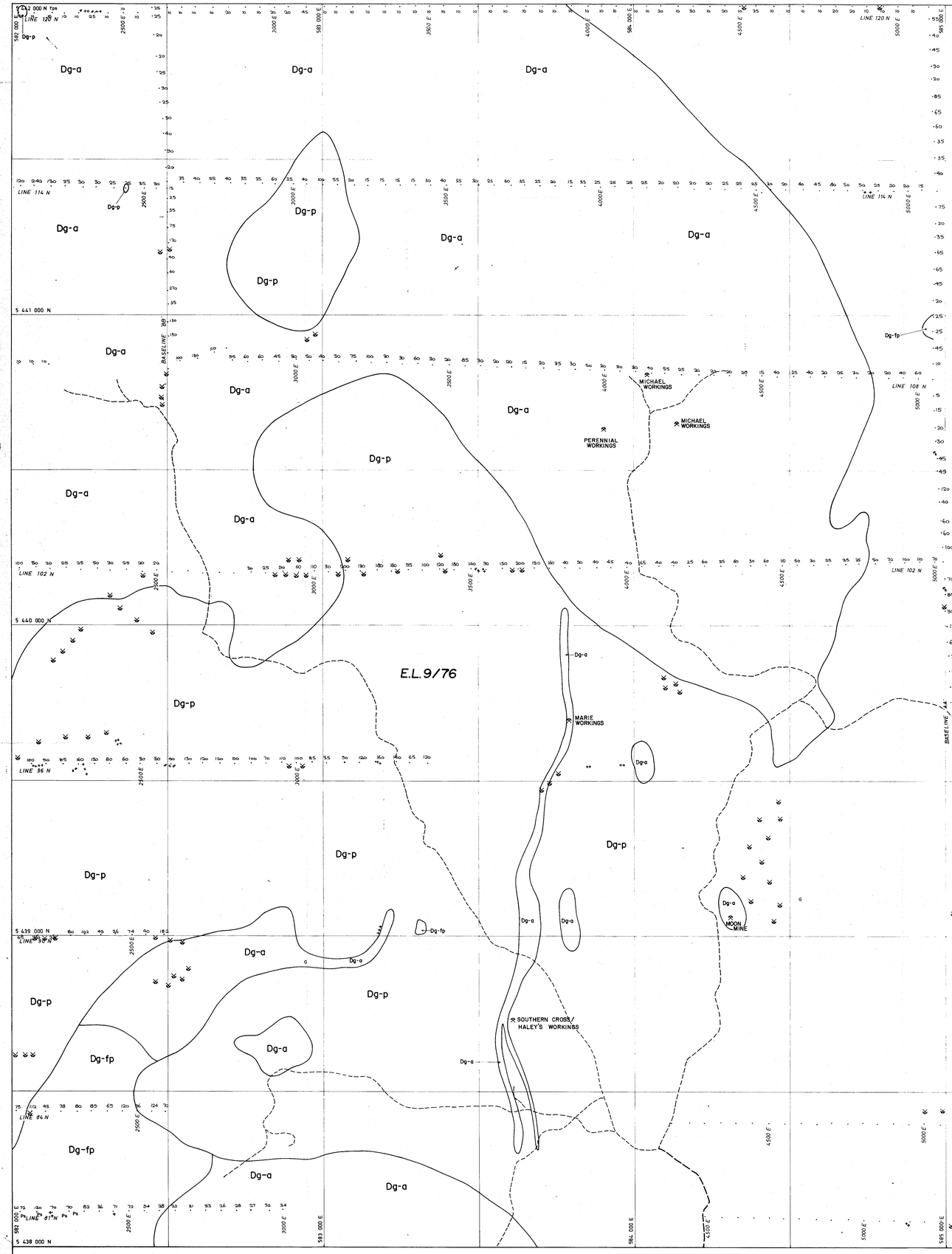
82-1792 Vol 3/3

BLUE TIER AREA

Sheet 1 Sol. F (ppm)

GEOLOGIST :	SCALE 1:5000 METRES
DRAUGHTSMAN :	100 0 100 200
DATE :	
REVISIONS	DRAWING No. FIGURE 7a

1123



E.L.9/76

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

- Dg-p — Poimena Adamellite
- Dg-fp — Fine grained to porphyritic granite phases (and Small granite)
- Dg-a — Aplogi Granite (associated with tin mineralisation at Anchor Mine)

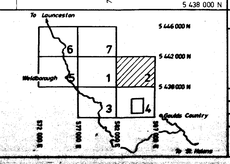
MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

- Fine grained or porphyritic granite - small bodies or dykes
- Basic intrusive rocks
- Basic volcanic rocks
- Pe — Permian quartzite and conglomerate (thin cover over older rocks)
- SG — Greisen
- bs — Zones of basic rocks (both intrusive and extrusive)
- fps — Zones of fine grained to porphyritic granite

OTHER FEATURES

- Old workings (primary deposit)
- Sluiced area (alluvial or eluvial workings)
- Interpreted geological boundary
- Photo lineament

5 cm



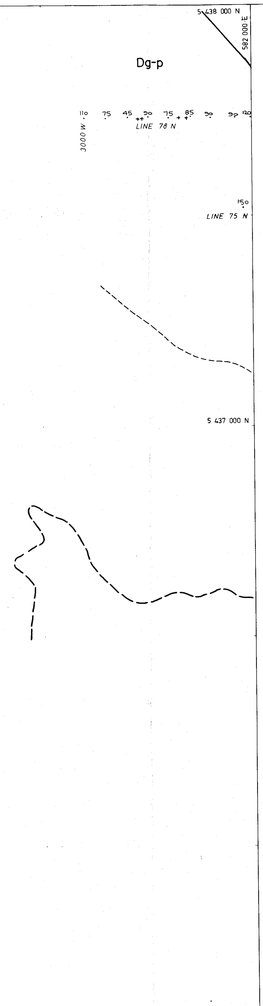
748241 RENISON LIMITED

82/1792 Vol 3/3

BLUE TIER AREA

Sheet 2 Sol. F (ppm)

GEOLOGIST :	SCALE 1:5000 METRES
DRAUGHTSMAN :	
DATE :	
REVISIONS :	DRAWING No. FIGURE 7b



E.L.9/76

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

- Dg-p — Poimena Adamellite
- Dg-fp — Fine grained to porphyritic granite phases (or dikes granite)
- Dg-q — Alkali Granite (associated with tin mineralisation at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

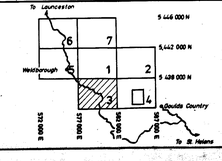
- + + + — Fine grained or porphyritic granite - small bodies or dykes
- Basic intrusive rocks
- Basic volcanic rocks
- Pa — Permian quartzite and conglomerate (thin cover over older rocks)
- Gn — Gneiss
- bs — Zones of basic rocks (both intrusive and extrusive)
- fps — Zones of fine grained to porphyritic granite

OTHER FEATURES

- Old workings (primary deposit)
- Sluiced area (alluvial or eluvial workings)
- Interpreted geological boundary
- Photo lineament

748242

5 cm



RENISON LIMITED

92-1792 Vol 3/3

BLUE TIER AREA

Sheet 3 Sol. F. (ppm)

GEOLOGIST :	SCALE 1:5000 METRES
DRAUGHTSMAN :	0 50 100 150
DATE :	
REVISIONS :	DRAWING No. FIGURE 7c

1/2.5

ETHEL WORKINGS

PUZZLE OR AUSTRALIAN WORKINGS

GOUGH'S LODES

DON WORKINGS

APATITE TRENCH

ELVAN TRENCH

GAUNTS SHAFT

LIBERATOR WORKINGS

Anchor Workings

WEST ANCHOR

VICTORY WORKINGS

E.L.9/76

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

Dg-p Poimena Adamellite

Dg-fp Fine grained to porphyritic granite phases (and Stitell granite)

Dg-a Aztell Granite (associated with tin mineralisation at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

Fine grained or porphyritic granite - small bodies or dykes

Basic intrusive rocks

Basic volcanic rocks

Pe Permian quartzite and conglomerate (thin cover over older rocks)

Bt Tertiary

bs Some of basic rocks (both intrusive and extrusive)

fgp Some of fine grained to porphyritic granite

OTHER FEATURES

Old workings (primary deposit)

Stained area (deposit or alluvial workings)

Interpreted geological boundary

Mine tailings

748243

5 cm

RENISON LIMITED

82-1792 Vol 5/3

BLUE TIER AREA

Sheet 4 Sol. F (ppm)

GEOLOGIST :

DRAUGHTSMAN :

DATE :

REVISIONS :

SCALE 1:5000 METRES

DRAWING No.

FIGURE 74

576 000 E

5 442 000 N

LINE 120 N

577 000 E

3000 W

Dg-a

LINE 114 N

Dg-a

5 441 000 N

LINE 108 N

Dg-p

E.L. 9/76

Dg-p

LINE 102 N

5 440 000 N

Dg-p

LINE 95 N

WELDBOROUGH

5 439 000 N

576 000 E

577 000 E

5 438 000 N

To Triabunna

To St Helens

Weldborough

Gould's Country

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

- Dg-p — Poimena Adamellite
- Dg-fp — Fine grained to porphyritic granite phases (not Alkali granite)
- Dg-a — Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

- + + + — Fine grained or porphyritic granite - small bodies or dykes
- Basic intrusive rocks
- Basic volcanic rocks
- Ps — Permian quartzite and conglomerate (thin cover over older rocks)
- GG — Greisen
- bs — Scree of basic rocks (both intrusive and extrusive)
- fps — Scree of fine grained to porphyritic granite

OTHER FEATURES

- Old workings (primary deposit)
- Sluiced area (alluvial or eluvial workings)
- Interpreted geological boundary
- Photo lineament

5 cm

748244

RENISON LIMITED

82-1792 Vol 3/3

BLUE TIER AREA

Sheet 5 Sol. F (ppm)

GEOLOGIST	SCALE 1:5000 METRES
DRAUGHTSMAN	100 0 100 200
DATE	
REVISIONS	DRAWING No
	FIGURE 7e

7127

5 443 000 N

Dg-a

35 25 25 45 15 10

LINE 1200W

Dg-a

E.L. 9/76

576 000 E

577 000 E

5 442 000 N

LEGEND

BLUE TIER BATHOLITH - MAJOR GRANITE TYPES

Dg-p — Poimena Adamellite

Dg-fp — Fine grained to porphyritic granite phases (not Shell granite)

Dg-a — Alkali Granite (associated with tin mineralization at Anchor Mine)

MINOR LITHOLOGIES ENCOUNTERED IN GEOLOGICAL MAPPING

+ + + — Fine grained or porphyritic granite - small bodies or dykes

Basic intrusive rocks

Basic volcanic rocks

Ps — Permian quartzite and conglomerate (thin cover over older rocks)

GG — Gresses

bs — Scree of basic rocks (both intrusives and extrusives)

fps — Scree of fine grained to porphyritic granite

OTHER FEATURES

Old workings (primary deposit)

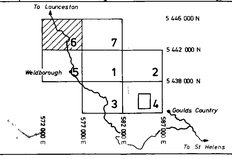
Sluiced area (alluvial or eluvial workings)

Interpreted geological boundary

Photo lineament

5 cm

748245



RENISON LIMITED

82-1792 Vol 3/3

BLUE TIER AREA

Sheet 6 Sol. F (ppm)

GEOLOGIST

DRAUGHTSMAN

DATE

REVISIONS

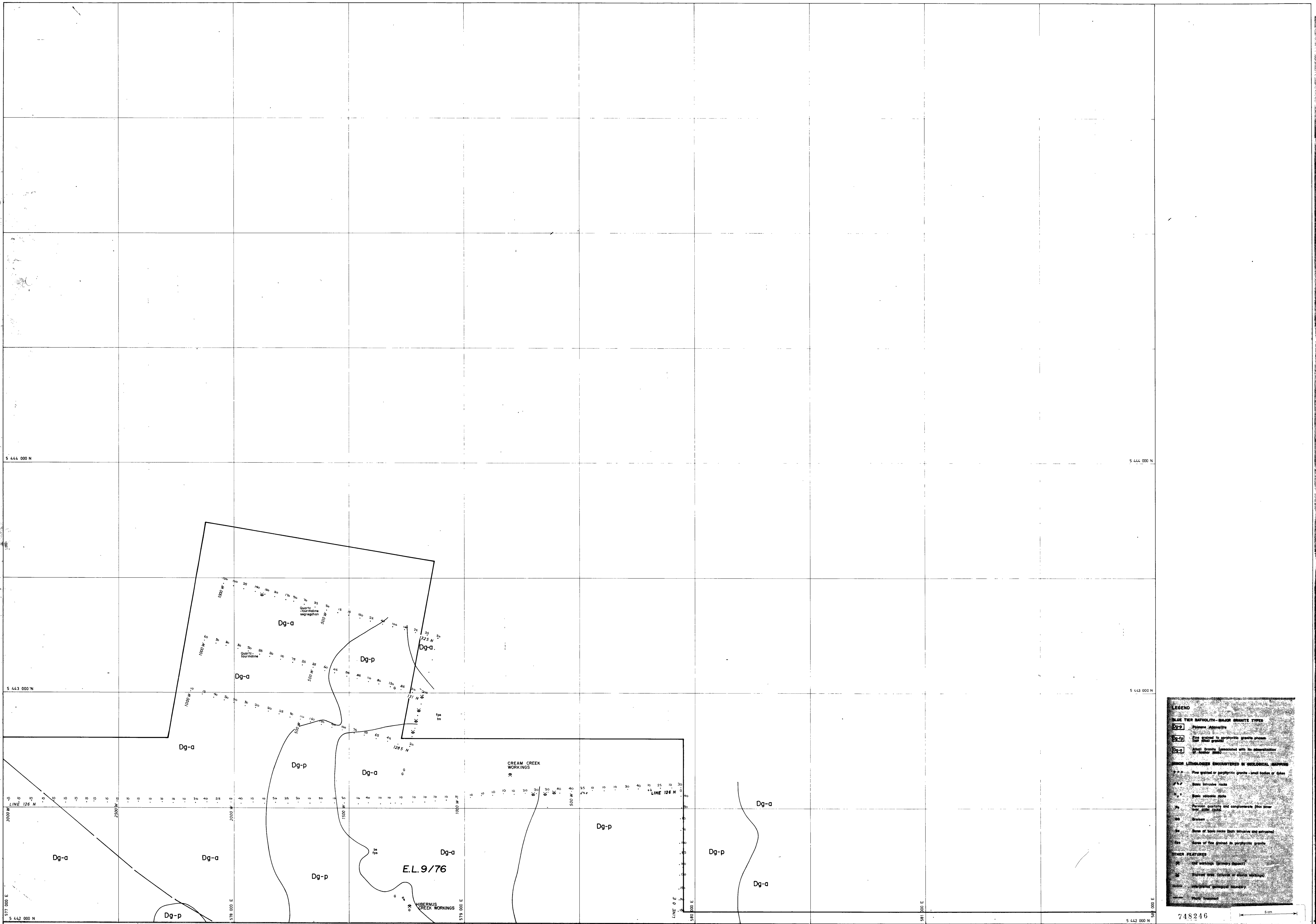
SCALE 1:5000 METRES

100 0 100 200

DRAWING No

FIGURE 7f

1128



748246

5 cm

RENISON LIMITED

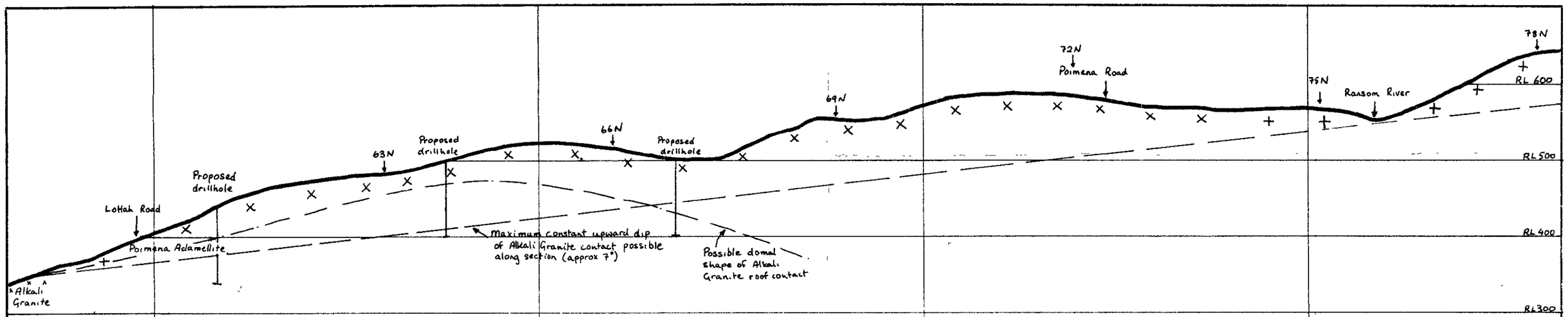
82-1792 Vol 3/3

BLUE TIER AREA

Sheet 7 Sol. F (p.p.m.)

GEOLOGIST :	SCALE 1:5000 METRES
DRAUGHTSMAN :	
DATE :	
REVISIONS :	DRAWING No.

FIGURE 7g



748247

5 cm

82-1792 Vol 3/3

RENISON LTD.	
SCALE	1:5000
DRAWN	P.A.R
DATE	APRIL 1982
TITLE	CROSS-SECTION ALONG 585000E (Facing West)

NWPS 38398

1129

FIGURE 8