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E.L. 9/76 BLUE TIER AREA

PROGRESS REPORT, DECEMBER 1982

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SUMMARY

Regional drilling and geochemical programmes over E.L. 9/76 were completed in May-September 1982. The results of the drilling programme were generally disappointing with few Alkali Granite intersections. North of the Anchor Mine proved to be the most interesting area, where two intersections of greisenised but tin-poor Alkali Granite were obtained. These may represent the margin of a large Anchor-style deposit.

The geochemical programme enabled the Dg-fp granitoids to be affiliated by Rb/Sr ratio to either of the two major granite types and also showed that a weakly developed zonation of trace tin and copper values exists in the Alkali Granite.

Drilling results from two earlier programmes at the Moon Mine were assessed, and indicate the possibility of an elongate dome of relatively high grade mineralisation there, in a similar geological setting to the Anchor.

The overall intrusive morphology of the Alkali Granite has now been defined from regional exposures and drilling results. It is in the form of a steep sided ovoid body, with ridges of greisen mineralisation situated on its steep flanks. Exploration within E.L. 9/76 in 1983-84 should be directed towards finding such concealed bodies in the North Anchor and Lottah Tunnels-Ransome River areas. Also, a further programme is proposed around the Moon Mine, to more accurately delineate the mineralised zone that exists there. A litho-geochemical study of drill core and rock chips from the Anchor area, to find trace elements that may indicate the presence of buried mineralisation, is also proposed. These programmes, which should include 13 drill holes totalling about 1800m, are estimated to cost $154,850.

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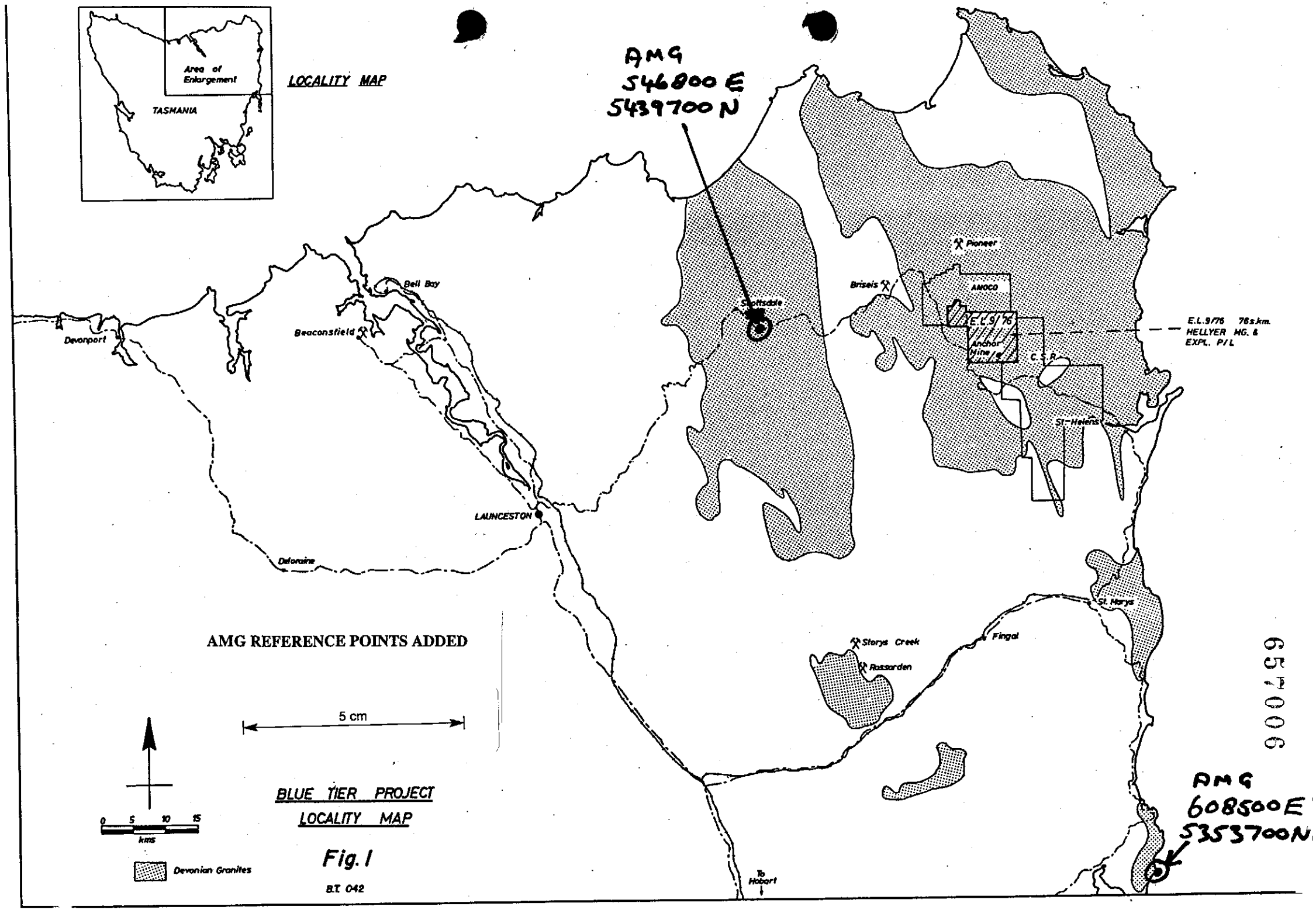
LOCALITY MAP
Area of Enlargement
TASMANIA
AMG
546800 E
5439700 N
Pioneer
Briseis
AMOCO
E.L.9/76
Anchor Mine
C.S.R.
E.L.9/76 76s km.
HELLYER MG. & EXPL. P/L
St-Helens
Scottsdale
Bell Bay
Beaconsfield
Devonport
LAUNCESTON
Deloraine
St. Marys
Fingal
Storys Creek
Rossarden
To Hobart
AMG REFERENCE POINTS ADDED
5 cm
0 5 10 15
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BLUE TIER PROJECT
LOCALITY MAP
Fig. I
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1. INTRODUCTION

E.L.9/76 covers part of the Blue Tier area in northeastern Tasmania and is situated approximately 30km northwest of St. Helens. (Fig. 1) The area enclosed by the licence includes the Anchor Mine and other small mines of the Blue Tier Tinfield which were active between 1870 and 1930, producing 4000 tonnes of tin.

Renison Ltd. began exploration in late 1977, as a Joint Venture project with Hellyer Mining and Exploration Pty. Ltd. In mid 1982, Gold Fields Exploration Pty. Limited replaced Renison as operator of the licence. The main direction of exploration has been towards finding concealed or partly concealed greisen type tin deposits of large tonnage. Between 1977 and 1981 this involved regional mapping over the licence area and diamond drilling predominantly in the vicinity of the Anchor Mine, with minor programmes in the Moon Mine and Haley's Workings areas.

As a result of the drilling carried out at the Anchor Mine, completed in mid-1981, a potential deposit was delineated and assessed, but is still considered insufficient to justify the completion of a definitive feasibility study. A drilling programme, outlined by Roberts (1982), was aimed at discovering further concealed greisen-type tin deposits in order to supplement the defined tonnage at the Anchor Mine.

Detailed and discussed in this report are the results of the 1982 drilling programme, the results of a regional rock chip geochemistry survey and the results of the 1980-81 diamond drilling in the Moon Mine area.

Recommendations for follow-up drilling are proposed.

2. LAND TENURE

The holders of E.L.9/76 are Hellyer Mining and Exploration Pty. Ltd., who are in a Joint Venture Agreement with Renison Ltd. The operators of the licence are Gold Fields Exploration Pty. Ltd. Details of the mining leases held within the licence area are outlined in Ross (1978) and Roberts (1982).

3. EXPENDITURE

A total of $119,073 was spent during 1981-82 together with $70,787 in the current financial year to the end of October. Of this $124,110 was spent on the regional exploration programme described in this report. A detailed expenditure statement is attached (Appendix 1).

The total amount spent by the Joint Venture to the end of October is $1,117,713.

G.F.E.L.'s current share of the expenditure is 60% of the total, reflecting Renison's share of the Joint Venture.

4. PREVIOUS WORK

Previous work carried out on E.L. 9/76 by other companies, prior to 1977 is described in the 1978 Annual Report (Ross 1978). Exploratory programmes undertaken by Renison since 1977 comprise:

4.1 Diamond Drilling

A series of comprehensive drilling programmes (99 holes) has been completed at the Anchor Mine, including 16 bulk sample holes, on which metallurgical testwork has and is being carried out. The results of the drilling at the Anchor Mine were summarised by Ross (1981).

Further drilling was carried out elsewhere on the licence, at Haley's Workings-Southern Cross (BT 40,41 in 1977) and at the Moon Mine area (BT 90,95 in 1980, BT 112-114 in 1981). The Haley's Workings-Southern Cross drilling results were detailed by Ross (1978) and the findings of the Moon Mine area drilling are outlined later in this report.

4.2 Photogeological and Ground Surveys

In 1979 a photogeological study was performed, attempting to distinguish the granite types, however, distinction was found to be difficult using this method.

Ground surveys consisting of soil geochemical and geological mapping on cut grid lines were made over three field seasons. The southern grid, consisting of 44 line km, was cut, mapped, sampled and partly geophysically tested by I.P. soundings in 1979, and in 1980 a further 13 line km was also cut. The northern grid totals 71 line km and was geochemically soil sampled and geologically mapped in 1981. The extra 13 line km of the southern grid was also geologically mapped in 1981. Results from both the southern and northern grids are outlined in Ross (1980) and Roberts (1982) respectively.

5. WORK COMPLETED MAY-OCTOBER, 1982

5.1 Drilling

Twenty exploration holes, (numbered BT 146 to 165) totalling 2033.6m were completed between May and October, 1982, based on the programme outlined by Roberts (1982). All holes were initially percussion drilled (for a total of 724m) and in each case, the entire sample was collected in calico bags at 1m intervals, according to the proposal of Roberts (1982). Holes encountering difficulty with hammer drilling were changed to diamond drill coring (for a total of 1309.6m). All holes were logged (given in Appendix 4) and survey located (Figure 2). Greisenised Alkali Granite intersections were assayed for Sn,Cu,Pb,Zn,Ag,Bi,As, and WO_3 at the Renison Assay Laboratory.

5.2 Geochemical Sampling

A regional surface geochemical rock-chip sampling programme was undertaken to:

a) distinguish the chemical affinities of the various outcrops of Dg-fp (fine-medium grained,partly porphyritic two-mica granite), by analysis for Sn,WO_3,Li,Cu,Zn,Rb and Sr.

b) determine if a large scale geochemical halo exists within the Alkali Granite exposed in the Licence Area by analysis for Sn, WO_3,Cu and Zn.

Samples were collected during the 1982 field season and together with some of the samples taken by R. Poltock during regional mapping in 1981, were analysed at the Renison Assay Laboratory.

5.3 Geological Mapping

Combined with the May-October 1982 rock-chip sampling, certain areas immediately north and northwest of the Anchor Mine were re-mapped geologically, in order to more accurately delineate the exposed Alkali Granite in this vicinity.

6. RESULTS

6.1 Moon Mine Area

Geological mapping in the Moon Mine area by R. Poltock and P.Roberts has shown that a'window' of variably mineralised and greisenised Alkali Granite, some 140m by 90m, exists. Old workings in the area consist of shallow open cuts and shafts. In 1904-1905, the Mt. Lyell Mining & Railway Company carried out a surface and sub-surface trenching and drilling programme, delineating small zones of moderately high grade mineralisation.

Diamond drill holes BT90 and 95 were completed in 1980, and holes BT112 to 114 were drilled in 1981. They were designed to test for concealed extensions of the mineralisation shown to exist at the Moon Mine surface by the Mt.Lyell drilling and trenching, and also to test for the concealed contact between Alkali Granite and Poimena Adamellite in the vicinity of the Mine.

Logs and assays of these holes are detailed in Appendix 4 and all holes and trenches are shown in Figure 3. Cross-sections and one long section (Figures 4 and 5) through the Mine area, together with a structural contour map of the Alkali Granite roof contact and an isopach map of mineralised Alkali Granite have been constructed (Figures 6 and 7).

The results of the Mt. Lyell drilling and trenching revealed a small near surface zone of mineralised Alkali Granite, which has the characteristic "greisen-cupola" shape. This work also provided information on the Poimena Adamellite-Alkali Granite contact, which appears to dip moderately steeply in a westerly direction, while a more complicated contact exists to the east.

The Renison drilling results extended the mineralisation discovered by the Mt. Lyell work. One significant Sn mineralised interval was recorded within BT90, where 16 metres of 0.60%Sn

and 3 metres of 0.23% were intersected. Other intersections were all narrow (2 metres) but they exhibited a relatively high grade (0.48-0.78%Sn) of mineralisation. All five Renison holes located the Poimena Adamellite-Alkali Granite contact.

Holes BT 90, BT 113 as well as Mt. Lyell bores No.25 and No.19 continued into a lower complex contact zone. This has been interpreted on the plans and sections as an embayed contact with a large tongue of Adamellite protruding inwards from the east, for a maximum distance of approximately 100m, roughly 100m below the Alkali Granite outcrop. Although interpreted in this fashion, the zone may be explained as a very large xenolith or a stoped and assimilated slab, an interpretation favoured by earlier workers i.e. Reid and Henderson (1928).

The structural contour map of the Alkali Granite roof displays the general domal nature of the intrusion, which is slightly elongated north-south. The contours indicate the above mentioned complex contact to the east and a steeply dipping western contact, making correlation with the nearby dyke-like Southern Cross body difficult. However, a possible connection exists to the north as the north-south trending Michael Dome (Roberts, 1982) may pass through the Moon Mine area.

An isopach contour map (Figure7) of the griesen zone with significant Sn grade(0.1% cut off), constructed from the cross-sections, shows the "inverted saucer" shape of the body. A high level portion is exposed, however the highest level portions in the centre of the 'saucer' have been either eroded or mined. The western section of the zone dips to the west at 40° and plunges south shallowly, at approximately 5°. The rest of the zone is flat lying towards the centre, dipping away from the centre at variable angles (10°-30°). The open ended areas to the north and south indicate the poorly defined nature of the mineralised zone. Extensions to the zone may continue in these directions, however the eastern direction is limited by the embayed contact which apparently exists there.

The potential tonnage and grade of the mineralised zone was estimated from cross-sections B, C and D, using the sectional

method outlined by King et. al. (1982). The obtained estimate is 110,000 tonnes at a grade of 0.40% Sn. It must be noted that this figure is not an ore reserve, but a rough estimate of a portion of a mineralised zone which possibly extends in the directions shown on Figures 6 and 7. If mineralised extensions do exist, the deposit has potential for at least 0.5 million tonnes of a similar grade.

6.2 Drilling

Five areas within the licence were explored for the possibility of unexposed Alkali Granite, occuring as domes or ridges beneath the Poimena Adamellite. The results from each of the areas are summarised below, and Figure 2 shows the hole and area locations.

6.2.1 Wyniford East Area

Two holes, BT 146 and BT 147 were drilled for a total of 211.8m. BT 147 intersected 31m of fresh Alkali Granite from R.L. 634.6 (86m below surface). Due to the lack of alteration, this interval was not assayed. BT 146 encountered an unusually fine-grained variety of Poimena Adamellite which was weakly sericitised. A petrographic examination of core from BT 146 and BT 147 was performed by CMS. Using their summary (Appendix 3 gives full petrographic descriptions) it appears that BT 146 contains mixed granite-adamellite phases probably representing the "hybrid" Dg-fp granite.

6.2.2 Wyniford West Area

Four holes, BT 161,162,148 and 149, totalling 401.6m, were drilled in this area, all of them encountering weakly sericitised Poimena Adamellite.

6.2.3 Michael-Moon Area

Six holes, BT 151 to 156, totalling 587.9m, drilled south of Mt. Michael, failed to discover unexposed Alkali Granite. A variety of alteration and weathering states were recorded from these holes. BT 156,154 and 152 were weakly sericitised, BT 155 and 151 contained abundant pegmatitic and aplitic phases, and BT 153 appears to represent a deep weathered zone within the Adamellite mass.

6.2.4 Crystal Creek Lineament

A total of four 75° angle holes, totalling 406.1m, were drilled near the NW-SE lineament, to test for unexposed Alkali Granite. The holes were angled to avoid the possibility of drilling down a vertical vein system. Two, BT 157 and 158 were collared near the head of the Crystal Creek and were drilled away from the lineament. The other two, BT 160 and 159, were situated in the vicinity of Doyles Workings to the north west. Both holes were planned to drill to the SW, however BT 159 could not be drilled in this direction due to the restricted size and shape of the drill pad. All four holes intersected weakly sericitised Poimena Adamellite, however BT 160, the only hole drilled towards the lineament struck 26m of strongly altered and fractured Adamellite, representing a possible fault zone. A fifth hole, BT 164, was drilled slightly off the lineament near Crystal Creek. It passed through weakly sericitised Poimena Adamellite.

6.2.5 North Anchor Area

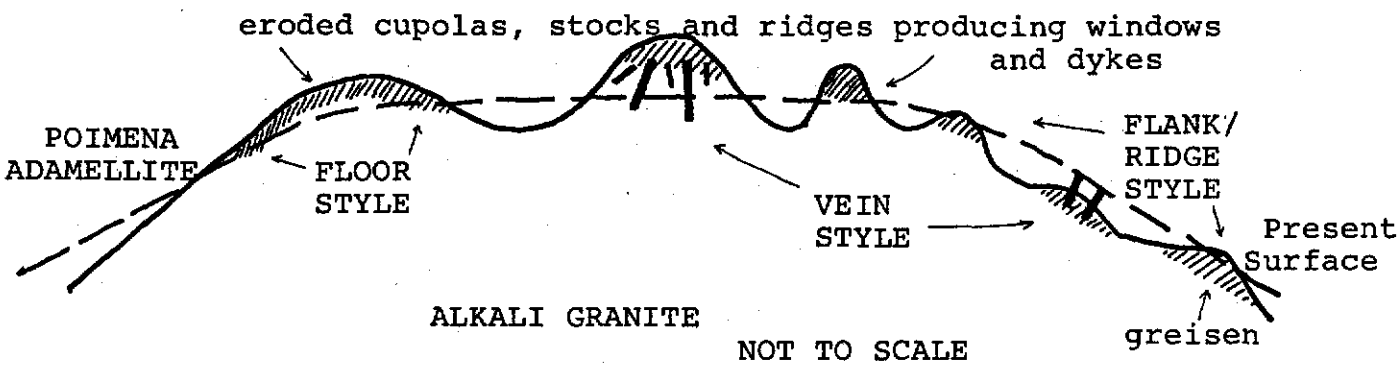
Three holes were originally planned for this area, however due to problems experienced in land tenure, the central hole was not drilled (see figure 2). The northern hole, BT 150, did not intersect Alkali Granite, remaining in sericitised Poimena Adamellite for 111.50m. The southern hole, BT 163, passed through Dg-fp, Poimena Adamellite (weakly sericitised), then moderately greisened Alkali Granite at R.L. 376 (88m below surface). A further hole, BT 165 was then drilled to the south and it encountered greisened and altered Alkali Granite underlying Dg-fp, at R.L. 366 (38m below surface). Whilst the core appeared encouraging, assays of the Alkali Granite from both BT 163 and BT 165 were disappointing. The average Sn value from the holes is 30ppm, well below the 50ppm Sn average of Blue Tier Alkali Granite (Groves et.al. 1977).

6.2.6 General

Overall, the results did not tend to support the possibility of domal extensions in the areas drilled, however the results from the holes in the North Anchor area have been useful as "stratigraphic" markers. Together with the data from previous drilling around the Anchor Mine, structural contour maps of the Alkali Granite roof contact have been prepared; immediately around the North Anchor area at 1:5000 (Figure 8) and regionally at 1:20000 (Figure 9). These maps have been compiled using limited data, mainly outcrop relationships. Therefore although the trends of the contours are probably correct, their positioning may not be exact.

An idealised model of the morphology of the Alkali Granite intrusion can be built up from Figure 9. The roof contours of the Alkali Granite indicate an irregularly shaped steep sided intrusion with a complex series of domes, ridges and dykes developed at its maximum level of intrusion (see below). Recent mapping by McClenaghan and Williams (1982) provides a similar intrusive pattern. Figure 9 also outlines the positions of the Moon and Anchor Mines, which occur on flanks of the main intrusive body

SCHEMATIC SECTION THROUGH THE ALKALI GRANITE



of Alkali Granite. The diagram above shows the relative Mine positions and explains the different styles of mineralisation observed at Blue Tier.

After the erosion of the apical-greisenised portions of the Alkali Granite intrusion, three main styles of mineralisation still exist on the summit and flanks of Blue Tier:

a) Vein style:-probably representing basal features of eroded greisen bodies in Alkali Granite, or leakage zones of buried Alkali Granite.(e.g. Lottah Tunnels, FB Lode).

b) Floor style:- the last shallow remnants of overlying mineralised granite. (e.g. Australian, Michael Workings)

c) Flank/ridge style:- unexposed or partly exposed ridges and cupolas of greisenised granite on the flanks of the main Alkali Granite intrusion. (e.g. Anchor and Moon Mines).

6.3 Geochemistry and Mapping

Geologic remapping in the area north and north west of the Anchor, has altered the outcrop pattern of Alkali Granite in this vicinity (compare Figure 2 with Figure 10). Contacts were mapped firstly from observations in the field, then secondly from the tin content of soils,taken from the soil geochemistry map of Ross (1980). The bed of the small creek flowing south west towards the Anchor Mine, runs along the Alkali Granite roof contact for several tens of metres, as pegmatites and both Alkali Granite and Poimena Adamellite are exposed. Outcrops along the Weldborough-Lottah road are poor, and as no Alkali Granite was observed and as the Sn content of the soils in the area does not reflect the typical Alkali Granite signature , it has been mapped as Poimena Adamellite, although the nearest exposures are Dg-fp.

The results of the geochemical sampling are given in Appendix 2. Sample locations and sample numbers are displayed on Figure 10. Also, petrographic examinations (by CMS,Adelaide) were performed on the Dg-fp samples, the results of which are described in Appendix 3.

6.3.1 Dg-fp Geochemistry

Samples from known exposures of Dg-fp were taken and analysed for a variety of elements, to see if any chemical affinity existed between this group of rocks and the two major granite-lithologies. The results showed fairly conclusively that some outcrops have definite affinities to Alkali Granite and others to Poimena Adamellite. This distinction was made using Rb and Sr analyses and Rb/Sr ratios.

Figure 11 is a graph of the Rb and Sr contents of granites from various Blue Tier analyses, both published and unpublished (Groves et.al., 1977: McClenaghan and Williams, 1982 and unpublished Mines Department data). Also on this graph, are the Dg-fp Rb and Sr analyses. Two major fields are produced on the graph; the Alkali Granite field and the Poimena Adamellite field. The Rb/Sr ratios that indicate the boundaries of these fields are ≥ 30 and ≤ 12 respectively (Figure 12). Thus the Dg-fp's have affinities with either of the other major granitoids, and their positions in the licence area as shown on Figure 12.

The petrography of the Dg-fp granites only confirms that they are marginal between the petrography of the two main granitoids. However, the Sn and Li values in some samples appear to be due to the secondary minerals produced by alteration. Only a rough mineralogical distinction between Dg-fp samples of differing affinities is possible.

6.3.2 Alkali Granite Rock Chip Geochemistry

Samples were taken from Alkali Granite exposures over the entire licence area, in order to see if any gross geochemical pattern exists for Sn, WO_3, Cu and Zn. Dg-fp samples with Alkali Granite affinities were also included.

The results of Sn assays are displayed on Figure 13, which shows and appreciable increase in Sn content in

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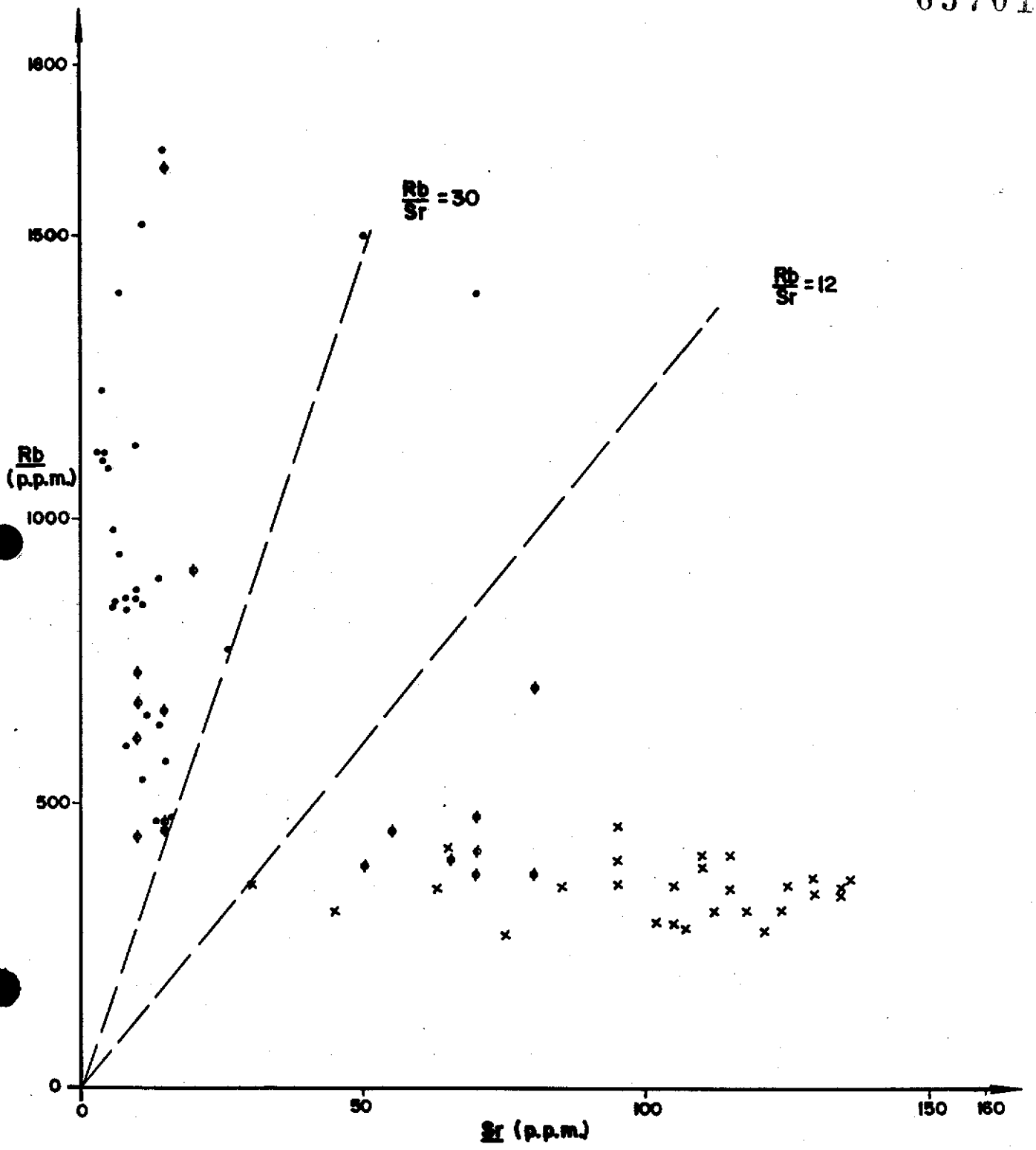

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Poimena Adamellite analyses .... ×

Dg-fp analyses ..... •

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GOLD FIELDS EXPLORATION PTY. LIMITED	
Rb versus Sr for various Blue Tier Granitoids	DRAWN BY : A.J.C. DRAFTSMAN: S. J.F. DATE : Dec./82 REVISIONS : FILE NO
SCALE 1 Metres	FIG. 11

the Alkali Granite bodies that have reached a high "stratigraphic" level. This may be due to remnant 'floor style' mineralisation and enrichment (some samples were greisenised see Appendix 2) or a true Sn zonation towards the granite peripheries.

The Cu results (Figure 14) have a similar but less well defined pattern than Sn. The higher Cu values appear to be confined to the margins and slopes of the highest elevations of Alkali Granite, possibly as a result of a crudely developed zonation.

Zinc and Tungsten values shown on Figures 15 and 16 respectively, display quite random distributions, with no apparent pattern.

7. CONCLUSIONS

The results obtained from the 1982 (regional) and 1980-81 (Moon Mine) drilling, combined with the detailed information from the Anchor Mine area, indicates a particular morphologic model for the Blue Tier Alkali Granite intrusion. The south-eastern corner of the intrusion is depicted on Figure 9, where most of the drilling has concentrated. The shape constructed on Figure 9 for the intrusion can equally be applied to the rest of the intrusion, within limits delineated by the exposure pattern of the Alkali Granite. This gives the intrusion the probable morphology outlined in Figure 17; an ovoid, steep-sided body with a very irregular but overall flattish upper surface. The present exposure level means that the upper irregularities have now been removed leaving only remnant greisen floors and veins.

The Moon and Anchor Mines, exhibit several similarities on Figure 9; both are on the steep outer slopes of the main intrusive body, (at different levels); both are elongated bodies, extended along the strike of the structural contours for each area and both have complex embayed outer (downslope) roof contacts. This flank-ridge style body is the only type of deposit still prospective for low grade, large tonnage mineralisation. The Moon and Anchor deposits are both partially exposed but there obviously exists a possibility for buried deposits anywhere on the steep sides of the intrusion (Figure 17).

Vein mineralisation in itself is of limited value as an exploration target. However veins within the cap granite (Poimena Adamellite) have an obvious application as mineralisation indicators. It is likely that at least some veins issue upwards from buried greisen bodies, although the possibility also exists that the veins represent "leakage zones" and mineralisation within the body below is absent.

The geochemical results from the Blue Tier region indicate a crude zonation or partition within the Alkali Granite intrusion. Tin is concentrated towards the upper levels of the body in the east and down the SE flanks? (Figure 13) and Cu is more abundant on the eastern and northern upper edges of the sides (Figure 14).

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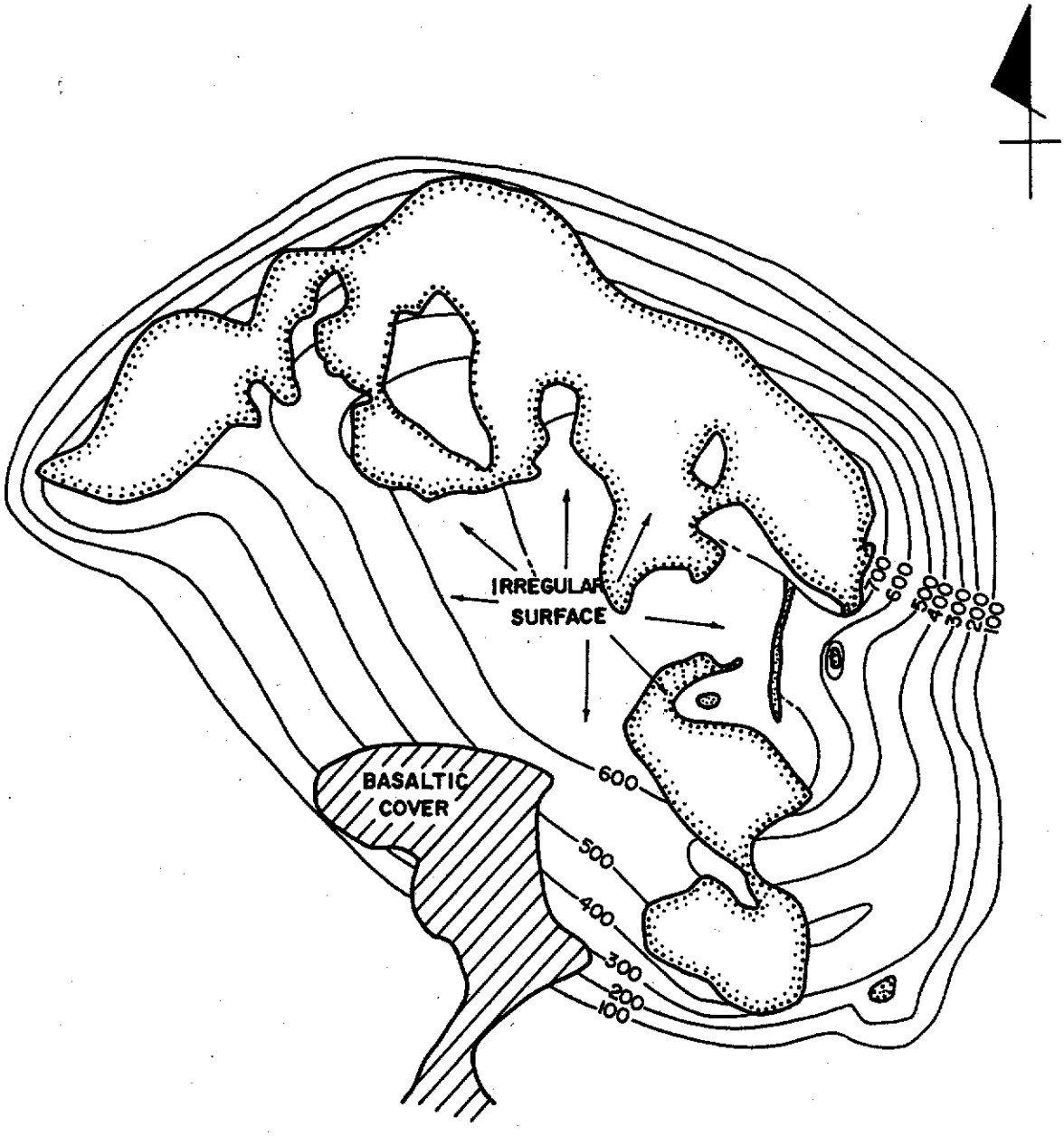

OUTCROPPING ALKALI GRANITE

STRUCTURAL CONTOURS

5 cm

GOLD FIELDS EXPLORATION PTY. LIMITED	
STRUCTURAL CONTOUR MAP OF THE ALKALI GRANITE INTRUSIONS, BLUE TIER	DRAWN BY : A.J.C.
	DRAFTSMAN: S.J.F.
	DATE : Dec.82
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SCALE 1:80 000 Metres	FIG 17

Soil geochemistry results obtained in an earlier programme (Roberts, 1982) confirms the geochemically unresponsive nature of the Alkali Granite in the northwest, where the level of the intrusive is low (Figure 17).

The evolution and significance to exploration of the Dg-fp granitoids is still not completely resolved, although it appears that their formation is magmatic rather than hydrothermal. Their geochemical signature as deduced by Rb/Sr ratios implies that they possess affinities to either one or the other of the two main granitiods.

The extreme Rb enrichment displayed by the Alkali Granite may be useful as an exploration tool. Along with Rb a number of other elements; F,B,Be,Ge,W,Bi,Li,Cs may be enriched in the cap granite above a greisen body where they are known to concentrate as incompatible elements. These elements could concentrate in veins and fractures emanating from a greisen body and therefore indicate its presence.

The possibilities of uneroded or buried mineralised greisen deposits at the top of the intrusion would appear to be exhausted. Domes and ridges lying on the flanks of the more geochemically anomalous areas of the main Alkali Granite body are the most promising targets. However, probably the major influence on likely target areas is topography, which excludes terrains where the land surface slope does not coincide with the slope of the Alkali Granite margins. Therefore the most prospective areas, based on geological, structural and geochemical evidence and topography are the eastern and northeastern flanks of the Alkali Granite intrusion body (Figure 17).

8. RECOMMENDATIONS

Work proposed for 1983-84 comprises thirteen drill holes totalling approximately 1800m, and a lithogeochemical examination of Anchor drill core. This programme is expected to cost $154,850. Budget details are given in Appendix 1.

The drilling programme is designed to test three areas for extensions of known mineralisation or concealed mineralisation in the major area of interest defined by this report - between the Anchor and Moon Mines. Each hole in this programme is designed to fulfil two functions - to test for mineralisation within the Alkali Granite and to locate the Alkali Granite roof contact. Even where that contact is deeper than the 100m limit of economic interest imposed on the previous reconnaissance drilling programme, drill holes should be extended to the contact as an aid to understanding the Alkali Granite's roof contact and, therefore, to the better planning of subsequent holes.

8.1 Moon Mine Area

Unlike the Anchor deposit, this prospect contains some relatively high grade mineralisation without a large halo of low grade stanniferous greisen. It is considered to have potential for 0.5 million tonnes or more of mineralisation similar to the intersection obtained in BT 90 (16m of 0.60%Sn). The drilling programme proposed here is designed to close off all the possible major extensions to the known mineralisation.

Five diamond drill holes are recommended, four to test for extensions of the Moon Mine mineralisation to the north and south along domal extensions, and a fifth to test for mineralisation in the embayed contact to the east. All holes have been designed to intersect the Alkali Granite approximately at right angles. Collar positions are shown on Figures 6 and 7. Hole depths have been left unspecified as the Alkali Granite is commonly strongly greisenised even when non-stanniferous in this area, and the mineralised zones occur at irregular

depths below the Alkali Granite roof contact.

8.2 North Anchor Area

The two greisen intersections obtained in this area in 1982 are interpreted as the sub-grade margin of a potentially large Anchor-style greisen body with a high grade cap (similar to "A Lens" within the Anchor). The drilling programme is designed to ensure that every possibility for an elongate stanniferous greisen body of the size and shape of the Anchor deposit is closed off.

Six vertical diamond drill holes are recommended, in a radiating pattern around BT 163 and BT 165. Target positions are shown on Figure 8: all are 150m apart and 150m north, south or east of BT 163 or BT 165. The area south of these two holes is considered too restrictive in size to contain a large tonnage body in a domal or ridge structure.

Private land tenure is indicated on Figure 8. To avoid any problems with private land holders in this area it is proposed that all hole collars are placed outside the private land and the drill holes angled appropriately, where necessary, to intersect their targets.

8.3 Lottah Tunnels Area (Figure 8)

The Lottah Tunnels were developed into cassiterite-bearing greisen veins within the Poimena Adamellite, which may reflect the presence of an underlying Alkali Granite cupola. One hole is proposed to test this possibility oriented at 080 with -75° dip. An angle hole is preferred here to avoid the possibility of drilling down a vertical greisen vein with the consequent difficulty of determining the Alkali Granite contact.

A second drill hole is recommended for this general area to test for possible flank/ridge greisen bodies. The collar position should finally be determined after the first Lottah Tunnels hole and the North Anchor holes are completed, when the Alkali Granite roof contact

geometry is better understood. However a vertical hole is tentatively proposed, situated in the Ransome River (i.e. in a position of maximum topographic favourability) near grid line 72N. It is clear that one hole in such a large area can only be a "wildcat". However, even if no greisen is intersected, the points obtained on the Alkali Granite roof contact by this and the first Lottah Tunnels hole should effectively define the potential for shallow concealed Anchor-style bodies between the Moon and Anchor Mines.

8.4 Geochemistry

Recent work by N. Higgins of the University of Tasmania has shown that the Poimena Adamellite directly overlying the Anchor deposit may be enriched in Rb and other lithophilic elements compared with Poimena Adamellite elsewhere on the Blue Tier. The limited trace element analytical work carried out earlier on Anchor drill core (see Appendix 6, Roberts 1982) has not established the validity of this idea so a more wide-ranging analytical programme is necessary. Obviously the existence of such an enriched halo could be very valuable in defining target areas for future drilling. Therefore a comprehensive trace element litho-geochemical programme is proposed using drill core and rock chip samples from the Anchor Mine area, to test for possible indicator elements enriched in the Poimena Adamellite which previously emanated from underlying greisenised Alkali Granite.

Trace element geochemistry is currently being carried out on Anchor Mine drill core at the University of Tasmania. It is probable that this idea will be tested by that work to some extent (N. Higgins, pers. comm.), so a duplication of results should be avoided.

REFERENCES

Groves, D.I., Cocker, J.D., and Jennings, D.J., 1977:
The Blue Tier Batholith. Geol. Surv. Bull. 55., Tasmanian Dept. of Mines, 171pp.

King, H.F., McMahon, D.W., and Bujtor, G.J., 1982:
A guide to the understanding of ore reserve estimation. Suppl. Proc. Aus. I.M.M., 281, 21pp.

McClenaghan, M.P., and Williams, P.R., 1982:
Distribution and characterisation of granitoid intrusions in the Blue Tier area. Geol. Surv. Paper 4, Tasmanian Dept. of Mines, 32pp.

Reid, A.M., and Henderson, Q.J., 1928:
Blue Tier Tin field, Geol. Surv. Bull. 38, Tasmanian Dept. of Mines.

Roberts, P.A., 1982:
E.L. 9/76 Blue Tier Area, Progress Report, Unpublished Report, Renison Ltd.

Ross, A.F., 1978:
E.L. 9/76 Blue Tier Area Annual Report, 1977-78. Unpublished Report, Renison Ltd.

Ross, A.F., 1980:
E.L. 9/76 Blue Tier Area-Eastern Tasmania, 1979 Annual Report. Unpublished Report, Renison Ltd.

Ross, A.F., 1981:
E.L. 9/76 Geological report on the Anchor Tin Deposit at the completion of infill diamond drilling. Unpublished Report, Renison Ltd.

GOLD FIELDS EXPLORATION PTY. LIMITED

657027

MICROFILMED

EXPENDITURE

(Regional Exploration Program, 1982)

	$
GEOLOGY	
- Salaries	13,378
- Salary on costs	2,178
- Transport	9
- Miscellaneous	5,821
- Outside Contractors	1,279
- Travel	3,486
- Stores	657
GEOCHEMISTRY	
- Assays	164
- Stores	475
DRILLING	
- Outside contractors	83,542
- Stores	3,761
SITE PREPARATION	
- Outside contractors	6,340
SURVEYING	
- Travel	264
INDIRECT MOTOR VEHICLE EXPENSES	2,747
	124,110

GOLD FIELDS EXPLORATION PTY. LIMITED

657028

PROPOSED BUDGET

GEOLOGY	
- Salaries	14,500
- Salaries on costs	4,350
- Miscellaneous	2,000
- Outside contractors	2,000
- Travel	4,000
- Stores	1,500
GEOCHEMISTRY	
- Assays	5,000
DRILLING	
- Outside contractors	108,000
- Stores	4,000
SITE PREPARATION	
- Outside contractors	4,500
SURVEYING	
- Outside contractors	2,000
- Travel	500
INDIRECT MOTOR VEHICLE EXPENSES	2,500
	154,850

APPENDIX 1

Expenditure during 1982 (Regional Programme)
Proposed Budget for 1983-84 programme.

APPENDIX 2

Trace element geochemistry of
rock chip samples (Dg-a and Dg-fp)

APPENDIX 2

Geochemistry of Dg-a and Dg-fp granites from E.L. 9/76.

All Dg-fp samples have been examined petrographically (Appendix 3)

SAMPLE NO.	ROCK TYPE	ASSAY (All ppm)								
		Sn	WO_3	Rb	Sr	Li	Cu	Zn	Mass(g)	Rb/Sr
1602	Dg-fp,mildly greisened.	75	30	450	55	35	400	45	637	8.2
1604	Dg-fp, moderately greisened.	75	10	730	10	120	260	30	346	73
1606	Dg-fp, moderately greisened.	40	20	660	15	65	220	25	367	44
1608	Dg-fp, mildly greisened.	50	20	440	10	20	80	5	115	44
1610	Dg-fp, mildly greisened.	40	20	615	10	35	140	50	571	61.5
1612	Dg-fp, very mildly greisened.	20	10	460	15	25	55	10	195	30.7
1614	Dg-fp, weakly greisened.	35	20	395	50	35	85	65	488	7.9
1616	Dg-a,	40	30				50	65	234	
1618	Dg-a,	40	20				60	15	237	
1620	Dg-a, greisened.	210	20				30	45	760	
1622	Dg-a	120	40				15	45	260	
1624	Dg-a	150	30				20	55	205	
1626	Dg-a	350	10				30	10	345	
1628	Dg-a	220	15				35	95	267	
1630	Dg-a, greisened.	40	10				90	30	182	
1632	Dg-a, greisened.	85	40				150	40	427	
1634	Dg-a, greisened.	200	20				140	40	212	
1636	Dg-a,	100	20				40	50	169	
1638	Dg-a,	155	20				80	70	306	
1640	Dg-a,	80	25				130	50	415	
1646	Dg-fp,Mildly greisened.	10	10	380	70	65	10	50	976	5.4
1648	Dg-fp,Mildly greisened.	60	10	415	70	35	10	30	366	5.9
1650	Dg-a, Moderately strong greisened.	1190	20				30	90	1421	
1652	Dg-a,	90	30				10	50	1344	
1654	Dg-a,	80	40				10	40	983	
1656	Dg-a	70	20				10	50	671	
1658	Dg-a	160	40				10	40	301	
1660	Dg-fp, Moderately greisened.	30	<10	410	65	30	30	10	868	6.6
1662	Dg-fp, Weakly greisend.	20	<10	375	80	35	40	50	1020	4.7
1664	Dg-fp, Mildly greisened.	10	10	455	15	20	40	10	1190	30.3
1668	Dg-a, Greisened.	70	30	1640	15	530	100	60	366	72.9
1670	Dg-a,	70	20				20	70	734	
1672	Dg-a,	50	30				10	50	1862	
1674	Dg-a,	130	30				30	10	1064	
1676	Dg-fp, Moderately greisened.	30	<10	475	70	30	30	<10	900	6.8
1678	Dg-a,	60	60				20	40	409	
1680	Dg-a,	40	15				20	70		
1682	Dg-a,	40	15				10	30		
1684	Dg-a,	40	35				20	50		
1686	Dg-a,	40	20	910	20	205	<10	30		45.5
1687	Dg-a,	55	25				<10	10	115	
1688	Dg-a,	30	10	680	10	150	<10	50		68.0
1690	Dg-a,	30	15				<10	40	1627	
1692	Dg-a,	50	20				10	70	1009	

APPENDIX 3

Central Mineralogical Services Reports on:

Drill core samples (BT 146 and 147).

Dg-fp granitoids.

Dg-fp petrographic sample numbers and corresponding analysis numbers.

Petrographic	Analysis
1601	1602
1603	1604
1605	1606
1607	1608
1609	1610
1611	1612
1613	1614
1645	1646
1647	1648
1659	1660
1661	1662
1663	1664
1665	--
1667	1668
1675	1676

REPORT CMS 82/7/36

Three samples of drill core, representing Blue Tier area granitoids, were received for petrological examination and comment. Representative thin-sections were prepared and examined together with stained offcuts.

Summary

Three granitic rock types are represented as follows:

DDH-BT/146-83.7 m. An even-grained alkali granite with primary Ti-biotite and accessory andalusite. This rock is moderately and rather complexly altered in an essentially greisening style. In comparison with the underlying phase (93.35 m), this granite is slightly relatively sodic and biotite-deficient. It may well represent a marginal (or indeed local) slightly felsic variant.

DDH-BT/146-93.35 m. A moderately greisened porphyritic biotite adamellite, contrasting with 83.7 m in the presence of feldspar phenocrysts, relative abundance of Ti-biotite and in plagioclase composition (oligoclase, as against albite). This phase is consistent with the Poimena Adamellite. As noted, the 83.7 m sample may represent a felsic, even-grained variant.

DDH-BT/147-87.4 m. A weakly quartz-porphyritic alkali granite with primary pale phlogopite, topaz, and unaltered. This phase contrasts with the BT/146 specimens texturally and compositionally. Albite is nearly pure, the pale phlogopite is distinctive (and similarly the topaz) and, in general, this phase is of "mineralising" character with affinities to the albitic (sodic) differentiates (granites, aplites, etc.) previously described from the Anchor Mine area.

D. Cowan, B. Sc.

REPORT CMS 82/7/36

Petrological Descriptions

DDH-BT/146 - 83.7 m (T.S. 42958)

This rock is a moderately greisened alkali granite, sodi-potassic and carrying accessory titaniferous biotite.

Major mineralogy comprises quartz, orthoclase-microperthite and weakly but pervasively sericite-stained albite in near-equant proportions. Disseminated biotite flakes are extensively pseudomorphed by semi-sericitic muscovite. There are thinly disseminated clusters (to 2 mm) of andalusite, variably pseudomorphed by fine-grained white mica. Trace accessory components include cloudy monazite, rare magnetite and rare microscopic zircons. The fabric is incipiently orthoclase-porphyritic, even-grained, granitic (mean 1.2 mm).

This rock exhibits minor zones of late- or early post-magmatic albitisation, as crude veinlets and locally orthoclase-replacive patches. The albite predates the mild pneumatolytic (greisening) muscovitisation which is reflected in alteration of the primary albite, biotite, andalusite and, in addition, as sporadic discontinuous muscovite veinlets with accessory fluorite, rare schorl, and minor traces of (secondary) orthoclase.

DDH-BT/146 - 93.35 m (T.S. 42959)

This is a relatively biotitic, weakly porphyritic granitoid and can be classified as a biotite adamellite. Apart from relative abundance of biotite, the main contrast with the previous specimen is the plagioclase composition (oligoclase, about An_{20}) and the presence of sporadic feldspar (plagioclase and orthoclase) phenocrysts, and traces of apatite.

This rock is moderately greisened. Oligoclase is weakly but pervasively stained with very fine to semi-sericitic muscovite. Biotite is variably replaced by semi-pseudomorphous aggregates of white mica, pale green phlogopite, locally chlorite, or very rarely brown schorl. There is very minor development of ?late-magmatic albite, predating sporadic crude veinlets of muscovite.

DDH-BT/147 - 87.4 m (T.S. 42960)

This is an unaltered alkali granite or, strictly, a microgranite. The rock is weakly porphyritic in quartz, uneven-grained, granitic-textured, and overall medium- rather than coarse-grained.

Mineralogy comprises quartz and albite with slightly subordinate, incipiently microperthitic orthoclase, disseminated near-colourless phlogopite, and disseminated (primary) topaz. Alteration is entirely restricted to incipient sericitisation of the albite exsolution films in orthoclase, and development of rare vugs of kaolin. This rock can be contrasted, compositionally and texturally, with the DDH-BT/146 phases.

D. Cowan, B. Sc.

REPORT CMS 82/8/5

Seven rock samples of Anchor area granitoids were received for petrological examination, and results are compiled in the attached table. Descriptions incorporate data from K-feldspar staining tests, stereobinocular and petrological microscopic examination of representative thin-sections and offcuts, and include interpretative comments.

Summary

This suite exhibits limited compositional variations. With only minor exceptions, the rocks are alkali granitic and broadly of differentiated adamellitic character. All are biotitic, but alteration of biotite denies optical comparison with previously described Anchor "granites". A few carry late magmatic muscovite (as distinct from pervasive pneumatolytic greisening white mica), and individual rocks may exhibit relative concentrations of accessory apatite or zircon. Overall, however, variations are rather limited and within the normal range for a differentiated granitoid.

The bulk of this suite exhibits fabrics consistent with relatively small-scale intrusives. Several of the rocks are porphyritic, approximately half are granophyric (or micropegmatitic) and others trend towards aplitic grainsizings. Even the coarser-grained types tend to be uneven-grained, thus inconsistent with major intrusive bodies. These considerations suggest the suite as a whole is representative of minor or local variations in a biotitic adamellitic to alkali granitic complex. As such, they apparently represent variants of the Poimena Adamellite. Significantly, the paler (albitic, phlogopitic) "mineralising" alkali granitic phase is not represented, at least within the limits imposed by alteration. Topaz and schorl-bearing phases are similarly absent, although one rock (1607) includes extremely rare cassiterite of primary character.

D. Cowan, B. Sc.

Central Mineralogical Services

Sample No.	Classification - Composition	Fabric	Accessories	Comments
1601 (T.S. 43059)	Alkali Microgranite. Quartz, incipiently sericitised orthoclase and variably sericitised/ muscovitised albite in near-equant proportions. Disseminated flakes, clusters of degraded (weathered) biotite.	Incipiently banded/ directed, medium-grained, granitic (mean 500 μ).	Conspicuous apatite, sparse leucoxenised opaques.	Weakly compositionally, texturally (grainsizing) biotitic alkali micro granite. Moderately greisened. Biotite evidently partly phlogopitised, but finer detail obscured by weathering.
1603	Alkali Granite. Orthoclase-perthite, albite and quartz with very thinly disseminated muscovitised biotite, pervasive fine muscovite stainings of albite and perthite.	Weakly (quartz, albite orthoclase) porphyritic, uneven-grained, granitic. Incipiently microfractured.	Minor traces apatite, rare leucoxenised/ oxidised opaques, zircon.	Biotite-deficient alkali granite, moderately greisene (muscovitised). Semi-characterised by paucity of biotite, the relative ly coarsely perthitic orthoclase and uneven fabric.
1605	Granophyre. Quartz, weakly muscovite-stained albite and incipiently muscovite-stained ortho-clase-microperthite in near-equant proportions; disseminated muscovitised biotite flakes.	Porphyritic (orthoclase, minor quartz phenocrysts) with aplitic to micro-graphic (granophyric) groundmass.	Disseminated very fine semi-metamict zircons, rare apatite.	Aplitic to granophyric, porphyritic alkali microgranite, moderately greisened (sim. 1601, 1603). Comp-ositionally very similar to 1601, semi-characterised by zircons, fabri
1607	Alkali Microgranite. Orthoclase-microperthite, quartz, slightly subordinate weakly sericite-stained albite with thinly disseminated sericitised biotite; (primary) muscovite flakes.	Weakly orthoclase-porphyritic, uneven-grained, granitic to graphic granitic. Minor vugs of quartz.	Rare cassiterite (50-150 μ inclusions in feldspar). Sparse discontinuous secondary muscovite veinlets.	Relatively potassic muscovite-biotite alkali microgranite. Could grade into graphic granite or pegmatite. Cassiterite is primary Only mildly altered (greisened).
1609	Alkali Microgranite. Weakly sericite-stained albite, slightly subordinate quartz and ortho-clase-microperthite. Relatively conspicuous sericitised/siderite-stained/ferruginised biotite flakes.	Orthoclase and weakly quartz-porphyritic with a medium-grained, granitic to granophyric groundmass.	Thinly disseminated semi-metamict zircons. Minor clots secondary muscovite with rare fluorite.	Relatively sodic biotitic alkali microgranite. Textural affinities with 1605 (1607), but coarser-grained. Siderite degraded to limonite.
1611	Microadamellite. Weakly sericite-stained oligoclase (near albite), slightly subordinate quartz and orthoclase, disseminated muscovite and minor muscovitised biotite flakes.	Even-, medium-grained, granitic (trend aplitic).	Rare zircons, minor clots secondary muscovite.	Mica microadamellite verging on alkali microgranite. Very mildly greisened. Typical minor intrusive characteristics.
1613 (T.S. 43065)	Alkali Granite. Quartz, variably muscovitised albite (near oligoclase) and similarly altered orthoclase in near-equant proportions with disseminated muscovite-vermiculite-pseudo-morphed biotite flakes.	Uneven-grained, granitic, trend medium-grained.	Traces apatite, very rare zircons.	Relatively greisened alkali granit verging on a (biotite) adamellite. Vermiculite apparently a weatherin product of biotite-replacive phlogopite.

657037

657038

REPORT CMS 82/8/28

Two additional samples of "Blue Tier" granitoids were received for petrological examination, and results are summarised in the attached table. Both rocks can be classified as adamellitic and mildly greisened. Sample 1645 is a medium-grained type with minor late-magmatic muscovite in addition to (primary) biotite. In comparison, 1647 is coarser-grained, and slightly relatively greisened with pneumatolytic muscovite and traces of biotite-replacive schorl.

D. Cowan, B. Sc.

Central Mineralogical Services

Sample No.	Classification - Composition	Fabric	Accessories	Comments
1645 (T.S. 43238)	Mica Micro-adamellite. Orthoclase-microperthite and quartz with slightly subordinate semi-sericitic muscovite-stained oligoclase, disseminated variably chloritised biotite, poikilitic muscovite.	Incipiently (orthoclase-oligoclase) porphyritic, medium-grained, granitic (mean 600 μ).	Rare magnetite, zircon, apatite. Sparse orthoclase-albite microveinlets. Sparse vermiculite (after biotite).	Mildly greisened mica micro-adamellite, typical apart from disseminated late-magmatic poikilitic muscovite flakes. Vermiculite reflects mild weathering o biotite.
1647 (T.S. 43239)	Biotite-Adamellite. Incipiently microperthitic orthoclase, quartz and moderately sericite-stained oligoclase in near-equant proportions with disseminated weathered biotite, sporadic clots, crude veinlets muscovite.	Weakly(quartz-oligoclase) porphyritic, granitic (mean 1.2 mm)	Rare magnetite, apatite, zircon. Rare secondary schorl (after biotite)	Mildly greisened biotite adamellite. In contrast to 1645, muscovite is pneumatolytic i veinlets and mildly replacive of biotite (and oligoclase, perthite films in orthoclase).

95703

REPORT CMS 82/9/3

A further six samples of Blue Tier granitoids were received for petrological examination, and results are summarised in the attached table.

Five rocks (1659, 1661, 1663, 1665 and 1675) can be classified as biotite adamellites. These exhibit fairly consistent mineralogy, confused to some degree, mesoscopically, by concentrations of pneumatolytic muscovite. However, in common with previously described adamellites, textures are variable, ranging from porphyritic to even- and uneven-grained, although consistently granitic.

The sixth rock (1667) is a typical alkali granite of "mineralising" character. This phase carries accessory (primary) topaz and traces of cassiterite in addition to traces of a degraded (metamict, rutilated) phase, conceivably one of the complex oxides or tantalates.

D. Cowan, B. Sc.

Central Mineralogical Services

Sample No.	Classification - Composition	Fabric	Accessories	Comments
1659 (T.S. 43474)	Greisened Micro-adamellite. Orthoclase, pervasively sericite-stained oligoclase, quartz, in near-equant proportions with disseminated variably muscovitised biotite, frequent clots, aggregates, crude films of muscovite.	Weakly (orthoclase-quartz) porphyritic, medium-, uneven-grained, granitic (mean 500 μ).	Rare zircons, oxidised magnetite.	Weakly porphyritic biotite micro-adamellite; moderately muscovitised/sericitised (greisened), but unmineralised.
1661	Biotite Micro-adamellite. Orthoclase and quartz with slightly subordinate, moderately sericite-stained oligoclase, disseminated mildly chloritised Ti-biotite, disseminated poikilitic muscovite.	Closely analogous to 1659, but finer-grained.	Rare zircons, trace oxidised magnetite.	Close affinities with 1659, similarly, but slightly relatively less altered.
1663	Biotite Adamellite. Orthoclase, quartz and weakly sericite-stained oligoclase with minor muscovitised biotite and unaltered, late-magmatic albite. Disseminated clots of muscovite.	Even-grained, granitic (mean 800 μ).	Rare zircons.	Mildly greisened, biotite-deficient adamellite (strictly, micro-adamellite) with late-magmatic albite. Essentially a transitional phase; adamellitic trending to alkali granitic.
1665	Biotite Micro-adamellite. Orthoclase-microperthite, weakly sericitised oligoclase, slightly subordinate quartz, relatively conspicuous biotite. Minor clots, films of hydromuscovite.	Quartz- and oligoclase-porphyritic, medium-grained, granitic.	Rare zircons, apatite, traces of late-magmatic schorl.	Mildly greisened porphyritic micro-adamellite, relatively biotite-rich and with traces of primary schorl.
1667	Alkali Granite. Orthoclase, albite and quartz in near-equant proportions with disseminated flakes, clusters of pale phlogopite, thinly disseminated weakly sericitised topaz.	Uneven-grained, granitic.	Thinly disseminated zircon, minor traces cassiterite, metamict monazite, rutilated ?tantalate, schorl.	Typical topaz-bearing alkali granite with characteristic pale phlogopite. Cassiterite is primary as 25-100 μ particles and "needle tin" inclusions in mica, feldspar.
1675 (T.S. 43479)	Biotite Micro-adamellite. Orthoclase, quartz and variably sericite-stained to muscovitised oligoclase with disseminated muscovitised to sericitised biotite.	Uneven-medium-grained, granitic.	Relatively conspicuous very fine apatite, very rare zircons.	Moderately greisened biotite micro-adamellite with affinities to e.g. 1661, 1659, but non-porphyritic.

657041

APPENDIX 4

Diamond Drill Hole Logs and Profiles.

BT 90, 95, 112-114 (Moon Mine Area)

Includes:-
1. Field Notes
2. BT 146-180

See Vol 2

GOLD FIELDS EXPLORATION PTY. LIMITED

657043

Symbols and abbreviations used in drill hole plots:

Poimena Adamellite and Dg-fp.

Weathered Poimena Adamellite and Dg-fp.

Alkali Granite.

Greisened Alkali Granite.

Pegmatite.

RENISON LIMITED - DRILL CORE RECORD

657044

HOLE NUMBER	BT 90
PURPOSE	To test for tin mineralization beneath the old Moon Workings
LOCATION	Moon Workings near Poimena
COLLAR R.L.	733·1m
CO-ORDINATES	8993·0m N ; 4257·8m E.
LENGTH	182.0m
HOLE SIZE	0 - 18m N.Q. 18 - 182m B.Q.
DATE DRILLED	19.6.80 - 27.6.80
SIGNIFICANT CORE LOSS ZONES	
ORE ZONE GROUND CONDITIONS	
LOGGED BY	LINDA MARTIN
COMMENTS	"High grade" tin mineralisation, as cassiterite, developed well away from adamellite contact (AFR).

SURVEY			From – To	Distance D	VERTICAL		HORIZONTAL	
Depth	Bearing	Dip			D.Sin.Dip	R.L.	D.Cos.Dip	Prog. Total
5m	(inside casing)	45°	0 — 2·5	2·5	1·76	731·24	1·76	1·76
20m	055° mag	45°	— 12·5	10·0	7·07	724·17	7·07	8·83
62m	040° mag	45°	— 41·0	28·5	20·15	704·02	20·15	28·98
122m	041.5° mag	44°	— 92·0	51·0	35·42	668·6	36·68	65·66
182m	043° mag	43°	— 182·0	90·0	61·37	607·23	65·82	131·48

SUMMARY – ASSAY DATA

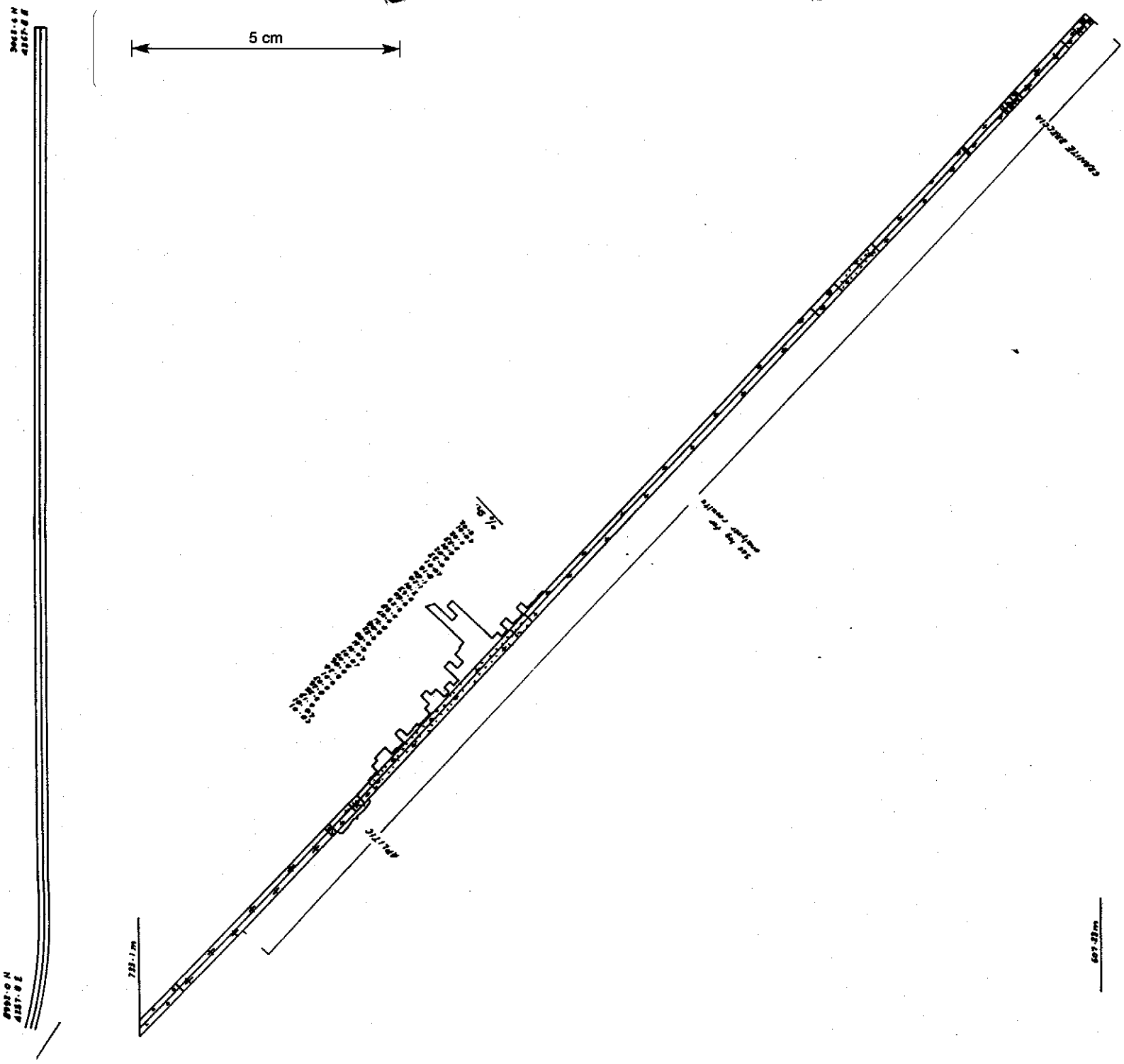
LODE NAME	FROM	TO	LENGTH (m)	AVERAGE WEIGHTED ASSAYS													B.C.A.
				Sn. %	Acid Sol. Sn.	Cu.	As.	S.	Pb.	Zn.	Bi.	WO_3	Ag g/t				
	46.0	49.0	3m	0.23													
	56.0	59.0	3m	0.34													
	62.0	66.0	4m	0.52													
	66.0	69.0	3m	1.71													

HOLE No BT 90

SCALE metres

DIAMOND

5 cm



657045

DIAMOND DRILL RECORD

657046

HOLE NUMBER : BT 90

LOGGED BY : L.MARTIN

INTERVAL (m) FROM	INTERVAL (m) TO	RECOVERY m	RECOVERY %	DESCRIPTION	FORM.
0	7.5m	-	-	SAND : Coarse grained, yellow brown with iron oxide staining.	
7.5m	36.06			POIMENA GRANITE : Coarse grained, porphyritic with pink feldspar	
				porphyroblasts.	
		5.2	65	7.5m - 15.5m : Light pinkish grey to yellow brown, weathered iron	
				oxide stained and jointed.	
		18.95	100	15.5 - 34.45m : Fresh, grey to pinkish grey. Dark grey aplite vein,	
				40°, <0.7cm wide at 34.35m.	
		1.61	100	34.45m - 36.06m : Some of feldspars (not porphyroblasts) altered to	
				yellow then greenish clayey material; alteration increasing as	
				contact approached. No visible alteration of micas, feldspar	
				porphyroblasts or quartz.	
36.06	36.52	0.46	100	PEGMATITE : of very coarse grained light pink feldspar (grains <14cm	
				diameter), fractured with aplite infillings. Lower contact marked	
				by the jagged ends of fractured feldspars in vaguely banded aplite.	
				Upper contact is slightly irregular, but sharp at 60°.	
36.53	42.60	6.08	100	APLITE/VERY FINE GRAINED GRANITE :	
				36.52 - 40.36 : Medium to light green altered and fairly soft,	
				with micas and feldspars changed to light pea green chlorite.	
				Vaguely banded for first 1.5m at 65° (probably sub parallel to	
				contact with above unit). Very fine grained with minor coarser	
				grained zones, and patches or veins of pegmatite at 39.34 - 39.40m,	
				40.18 - 40.25m, 40.04 - 40.07m, 39.6 - 39.73m and 39.47 - 39.55m.	
				Minor spots of molybdenite at 37.03m.	
				40.36 - 41.74m : Greisenized, hard, fine 'sugary' recrystallized	
				texture. Light grey with minor flakes of golden brown biotite.	
				Gradational upper boundary from fine grained granite and pegmatite	
				over 2cm; lower boundary sheared at 20°. Minor spots of purple	
				fluorite.	
				41.74 - 42.60m : As for 36.52 - 40.36m. Lower boundary irregular	
				and gradational over 4cm to fine grained granite. Fluorite, talc	
				and minor sulphide vein, 20°, <1mm wide, at lower contact.	
42.60	43.56	0.96	100	LOTTAH GRANITE : Fine grained soft, altered and light green.	
				Feldspars and micas altered to light green chloritic/clayey	
				material. Minor dark green biotite specks. Near upper contact	
				minor fine grained aplitic patches, light green and altered. Medium	
				green very altered mica rich zone : 43.17 - 43.48m. Lower contact	
				irregular and gradational over 3cm.	
43.56	44.19	0.63	100	APLITE/VERY FINE GRAINED GRANITE : Description as for 36.52-40.36m	
				Medium to light green and altered. Gradational lower boundary.	

% Sn. FROM	% Sn. TO	% Sn. TOTAL	% Sn. ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO_3
SUMMARY NUTMAG TIN CORE ANALYSER RESULTS. (MAR)											
14.5	46.0	<0.10									
	47.0	0.16									
	48.0	0.19									
	49.0	0.26									
	50.5	<0.10									
	51.5	0.16									
	52.5	0.23									
	53.5	<0.10									
	56.0	<0.10									
	57.0	0.13									
	58.0	0.21									
	59.0	0.27									
	60.0	0.24									
	61.0	0.22	doubtful?								
	62.0	0.10									
	63.0	0.59									
	64.0	0.24									
	65.0	0.73									
	66.0	0.76									
	67.0	3.0									
	68.0	1.59									
	69.0	1.57									
	70.0	0.17									
	73.8	<0.10									
	74.8	0.33									
	75.8	0.19									
	182	<0.10									

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION 657047	FORM.	FROM	TO	% Sn. TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% W
44.19	71.5	27.31	100	LOTTAH GRANITE-GREISEN:													
				44.19 - 46.10 : Fine grained, pinkish-light green with light		44.0	45.0	<0.01			<0.01	<0.1	<0.01	0.01			<0
				greenish alteration of muscovite and some feldspars. Biotite black		45.0	46.0	<0.01			<0.01	<0.1	<0.01	0.01			<0
				to dark green. Grades through 10cm of hard pink granite with													
				light green-brown mica to unit below. Lower contact is irregular but													
				sharp. Light green altered aplite/very fine grained granite at													
				44.47-44.55m with sharp sub-horizontal boundaries. Description													
				as for 36.52 - 40.36m.													
				46.10 - 49.64 : Medium green altered and slightly greisenized; all		46.0	47.0	0.19			<0.01	<0.1	<0.01	0.01			<0
				micas altered to green chlorite. Minor remnant feldspar greenish		47.0	48.0	0.26			<0.01	0.3	<0.01	0.02			<0
				and 'soapy'. Some zones slightly finer grained. Minor grains of dark		48.0	49.0	0.26			<0.01	<0.1	<0.01	0.04			<0
				brown cassiterite. Very minor specks of molybdenite and chalcopyrite													
				at 46.75 - 48.70m. (Pet. 47.36 - 47.41m)													
				49.64 - 55.86m : Fine grained, slightly altered and greenish.		49.0	50.0	0.03			<0.01	<0.1	<0.01	0.01			<0
				Muscovite light green and slightly altered. Spots of dark green		50.0	51.0	0.01			<0.01	<0.1	<0.01	0.02			<0
				biotite. Gradational upper and lower boundaries. (Pet. 51.56 - 51.64m)		51.0	52.0	0.34			<0.01	<0.1	<0.01	0.02			<0
				55.86m - 61.25m : Medium grained, slightly greisenized medium		52.0	53.0	0.06			<0.01	<0.1	<0.01	0.01			<0
				green and altered. All micas altered to light olive green-brown		53.0	54.0	0.09			<0.01	<0.1	<0.01	0.03			<0
				clays and micas. (Pet. 57.35 - 57.40m)		54.0	56.0	<0.01			<0.01	<0.1	-55m 0.01 -56m 0.01	0.02 0.06			<0
				MINOR DARK BROWN GRAINS OF CASSITERITE <3mm, and minor poikolitic		56.0	57.0	0.21			<0.01	<0.1	<0.01	0.06			<0
				spots of molybdenite <2cm diameter.		57.0	58.0	0.50			<0.01	<0.1	<0.01	0.03			<0
				61.25m - 65.3m : As above but rock not quite as altered. Biotite		58.0	59.0	0.32			<0.01	<0.1	<0.01	0.03			<0
				as medium grained black "books". Minor cassiterite and molybdenite		59.0	60.0	0.04			<0.01	<0.1	<0.01	0.01			<0
				61.25 - 62.65m. Very minor to no cassiterite, or molybdenite, from		60.0	61.0	0.21			<0.01	<0.1	<0.01	0.01			<0
				62.65 - 65.8m. (Pet. 62.65 - 62.72m) (Pet 63.52 - 63.58m)		61.0	62.0	0.07			<0.01	<0.1	<0.01	0.01			<0
				65.3m - 68.5m As above but minor black biotite "books". Abundant		62.0	63.0	0.58			<0.01	<0.1	<0.01	0.01			<0
				Dark brown cassiterite and minor molybdenite at 65.8 - 66.4m. Core		63.0	64.0	0.29			<0.01	<0.1	<0.01	0.01			<0
				very fractured and broken up 64.8 - 68.0m. (Pet. 65.11 - 65.17m)		64.0	65.0	0.60			<0.01	<0.1	<0.01	0.01			<0
				68.5 - 70.18m : As above but biotite as medium green and altered		65.0	66.0	0.63			<0.01	<0.1	<0.01	<0.01			<0
				"books". (Pet. 69.75 - 69.79m) (Pet. 68.81 - 68.86m) (Pet 67.25 - 67.30m)		66.0	67.0	3.01			<0.01	<0.1	0.02	<0.01			<0
				70.18 - 71.5m : Medium to fine grained, light grey to cream slightly		67.0	68.0	1.24			<0.01	<0.1	0.01	<0.01			<0
				greisenized. All micas and some feldspar altered to light brown		68.0	69.0	1.60			<0.01	<0.1	0.01	<0.01			<0
				micas and clays. Gradational upper boundary; irregular lower		69.0	70.0	0.16			<0.01	<0.1	<0.01	<0.01			<0
				contact with some mixing of rock types over 4cm; minor cassiterite.		70.0	71.0	<0.01			<0.01	<0.1	<0.01	0.01			<0
71.5	74.23	2.73	100	FELDSPAR ROCK/APLITE : Fine grained, light brown to cream feldspar		71.0	72.0	0.23			<0.01	<0.1	<0.01	0.02			<0
				with very altered light brown remnants of mica. Very minor to no		72.0	73.0	0.02			<0.01	<0.1	<0.01	0.01			<0
				quartz zone, rich in very altered brown mica at 72.04 - 72.15.		73.0	74.0	0.01			<0.01	<0.1	<0.01	<0.01			<0
				Gradational lower boundary over 2cm. Purple fluorite and talc vein													
				at 72.58 - 72.63; sub horizontal. Altered medium green, coarse													
				grained feldspar rock with fluorite crystals at 72.63 - 72.70.													
				Grading from fluorite vein to altered pegmatite below. Pegmatite													
				of altered and unaltered fairly coarse greenish and pink feldspar,													
				with minor light green amorphous areas interstitially, and patches													

NWPS

657048

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION	FROM	TO	% Sn. TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% W
				of dark green chloritic alteration over-printed, at 72.7m - 73.09m.												
74.23	129.35	55.12	100	LOTTAH GRANITE :	74.0	75.0	0.23			<0.01	<0.1	<0.01	<0.01			<0
				74.23 - 75.9m : Fine grained, slightly altered, light green with	75.0	76.0	0.02			<0.01	<0.1	<0.01	<0.01			<0
				dark green mica spots. Minor irregular patches of darker green												
				alteration which become more numerous in unit below. (At 74.25-74.3m)												
				75.9m - 77.6m : Fine grained, similar to above with numerous dark	76.0	77.0	<0.01			<0.01	<0.1	<0.01	<0.01			<0
				green irregular patches of dark green altered biotite, green	77.0	77.8	0.02			<0.01	<0.1	<0.01	<0.01			<0
				altered feldspar and dark grey quartz. Gradational boundaries.												
				77.6m - 94.22m : Medium grained, similar to 74.23 - 75.9m but with												
				intervals of 'sugary' textured greisen, with golden brown biotite. Sharp												
				boundaries over 1cm and sub horizontal, at: 91.86m - 92.2m, medium												
				green; 93.05 - 93.69m greyish pink; 93.86 - 94.0m, dark green; 94.1 -												
				94.22m dark green.												
				94.22m - 98.8m : Medium grained, medium green, slightly altered												
				with dark green irregular patches similar to those in unit												
				75.9m - 77.6m.												
				98.8m - 113.1m : Similar to above but very minor dark green												
				irregular patches. Greizen zone, medium green-grey, "sugary"												
				textured, coarse grained, with minor altered dark green and orange-												
				brown micas, at 105.86 - 106.3m.												
				113.1m - 129.35m : Similar to above but with pink feldspar; dark												
				green altered biotite-rich irregular patches at 116.5m - 116.15m												
				and 116.45m - 116.49m.												
129.35	133.6	4.25	100	GREISEN : Medium grained, light to medium greyish-green, 'sugary'												
				textured with golden-brown biotite. Grades into minor dark green												
				zones.												
133.6	140.58	6.98	100	LOTTAH GRANITE - GREISEN : Medium grained, medium greyish-green												
				similar to above but not as greisenized. Minor light greyish												
				zones with some pink feldspar patches and minor darker green												
				altered zones. Minor purple fluorite-coated fractures. Core very												
				fractured and crumbly at 137.0m - 139.6m with very minor light												
				green clay veins (only 1.7m core recovered; 35% core loss).												
140.58	158.02	17.44	100	LOTTAH GRANITE: 140.58 - 145.2m : Fine grained, light to medium												
				grey with minor pink and cream zones and minor dark green altered												
				irregular patches. Slightly greisenized. The granite has light												
				green muscovite, dark green biotite, grey quartz and pinkish												
				cream to grey green feldspar.												
				145.2m - 158.02m : Medium grained, medium green with dark green												
				irregular patches. The rock is altered with medium to dark green												
				altered micas, light to medium green altered feldspar and medium												
				grey quartz. Minor dark green crumbly zones and very minor												
				fracturing. The last 2m lighter coloured, less altered with												

ream feldspar

657049

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION
158.02	158.28	0.26	100	FELDSPAR ROCK : Fine grained, creamy pink with some dark green biotite spots, light green muscovite and very minor medium grained quartz. Gradational boundaries.
158.28	165.31	7.03	100	LOTTAH GRANITE : Fine grained, light pinkish grey, very slightly altered with light pink feldspars, medium green mica spots and "clots". Dark green altered zone at 164.7m - 165.2m.
165.31	165.52	0.21	100	POIMENA GRANITE : Coarse grained, porphyritic, greenish-pink with feldspars and micas altered to light green clays. Sharp boundaries at 65°, with a concentration of black biotite where the fine grained lottah granite has reacted with the coarse grained Poimena granite.
165.52	166.22	0.74	100	LOTTAH GRANITE : Fine grained, similar to unit at 158.28 - 165.31 but with minor fragments of very coarse quartz, feldspar and pegmatite.
166.22	167.15	0.93	100	POIMENA GRANITE : 166.22 - 166.36 : Dark grey porphyritic with concentration of black biotite near boundary with Lottah granite. Upper boundary sharp at 60°, then grades into below unit. 166.36 - 166.63 : As above but micas and some feldspar are altered to light green clays. 166.63 - 166.87 : As above but micas are fresh and black. 166.87 - 167.11 : Micas and some feldspar altered to light green clays. 167.11 - 167.15 : Similar to 166.22 - 166.36. Lower boundary sharp at 55°.
167.15	168.48	1.33	100	GRANITE BRECCIA : Mixture large fragments of coarse grained Poimena granite and very minor dark grey aplite in fine grained altered light green Lottah granite. Concentrations of black biotite occur in the coarse grained granite at the boundaries with the fine grained granite, for several centimetres. Lower boundary sub-horizontal.
168.48	177.35	8.87	100	POIMENA GRANITE : Coarse grained, dark grey, porphyritic with large pink feldspars. First 25cm and last 10cm of core, is light pink with altered light green and light pink feldspar, light green to yellow altered biotite and grey quartz. Lower boundary sharp at 45° with a concentration, of black biotite and grey quartz. 168.8 - 169.25 : Greisenized fine grained granite, light greenish grey, sugary textured. Upper boundary sharp at 40°; lower boundary irregular and marked by a mixture of patches of coarse grained granite and greisenized fine grained granite. Black biotite is concentrated in the coarse grained granite at the boundary and feldspars are pinked for 20-30cm. Near lower boundary occur irregular patches of fine grained light grey greisenized fine grained granite with flakes of brown biotite.

FROM	TO	% Sn. TOTAL	% Sn. ACID SOL.	% Cu.	% Fe	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO_3
44	45			0.02	0.9						
45	46			0.02	1.0						
46	47			0.03	2.1						
47	48			0.03	3.0						
48	49			0.03	2.6						
49	50			0.02	1.3						
50	51			0.03	1.5						
51	52			0.03	1.9						
52	53			0.03	1.5						
53	54			0.03	1.9						
54	55			0.03	0.9						
55	56			0.03	1.4						
56	57			0.03	3.0						
57	58			0.02	2.1						
58	59			0.03	1.8						
59	60			0.02	1.6						
60	61			0.02	2.0						
61	62			0.04	1.3						
62	63			0.02	1.2						
63	64			0.04	1.0						
64	65			0.03	1.1						
65	66			0.02	0.8						
66	67			0.03	1.3						
67	68			0.03	0.9						
68	69			0.02	1.1						
69	70			0.02	1.0						
70	71			0.02	1.6						
71	72			0.03	2.0						
72	73			0.02	1.1						
73	74			0.03	0.7						
74	75			0.02	0.5						
75	76			0.03	0.3						
76	77			0.02	0.9						
77	77.8			0.01	0.7						

LOGGED BY : L.MARTIN

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION 657050	FORM.	% Sn. FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO_3
				169.74 - 169.89m : Aplite vein, fine grained light grey to cream,													
				4cm wide at 35°. Sharp boundaries with black biotite concentration													
				in coarse grained granite.													
				177.10 - 177.20m : Pegmatite vein of coarse grained qtz, altered greenish feldspar and light green mica													
				mica. The vein is 3cm wide at 35° with diffuse boundaries.													
177.35	179.48	2.13	100	LOTTAH GRANITE :													
				177.35 - 177.75 : Fine grained light pinkish-grey with fresh black													
				biotite and fresh light green muscovite; grading to:													
				177.75 - 179.40 : Medium green core with altered medium green micas;													
				grades to:													
				179.40 - 179.48m : Dark green, rich in altered green mica.													
179.48	180.75	1.27	100	POIMENA GRANITE :													
				179.48 - 179.5m : Baked, altered and recrystallized granite at													
				contact with Lottah granite. Rock is fine grained, dark grey rich													
				in biotite and dark grey quartz. Upper boundary is sharp and at													
				45°.													
				179.5 - 180.75 : Coarse grained, medium grey porphyritic with pink													
				feldspar porphyroblasts. Altered for first 30cm and last 20cm to													
				light pink rock with micas and some of the groundmass feldspars													
				now light green and clayey. Sharp lower boundary at 10°.													
180.75	181.38	0.63	100	GREISEN : Very fine grained, medium grey, "sugary" textured with													
				grey to black flakes of biotite. Sharp lower boundary at 35°.													
181.38	182.0	0.62	100	LOTTAH GRANITE : Fine grained, grey-green, slightly altered.													
				END OF HOLE.													

657051

HOLE NUMBER	BT 95
PURPOSE	To test for south-eastern extension to the mineralization encountered in BT 90
LOCATION	MOON WORKINGS
COLLAR R.L.	731.6m
CO-ORDINATES	8913.9m N ; 4267.1m E
LENGTH	212.0m
HOLE SIZE	0 - 4m N.Q. 4 - 212m B.Q.
DATE DRILLED	6.8.80 - 21.8.80
SIGNIFICANT CORE LOSS ZONES	
ORE ZONE GROUND CONDITIONS	
LOGGED BY	LINDA MARTIN
COMMENTS	Younger granite is barren at this location.

SURVEY			From - To	Distance D	VERTICAL		HORIZONTAL	
Depth	Bearing	Dip			D.Sin.Dip	R.L.	D.Cos.Dip	Prog. Total
5m	(inside casing)	53.5°				731.6		
44m	060°mag	52.5°	0 – 22	22	17.66	713.9	13.09	13.1
86m	061°mag	51°	22 – 65	43	34.11	679.8	26.18	39.3
128m	060°mag	51°	65 – 149	84	65.28	614.5	52.86	92.1
170m	061.5°mag	49°	149 – 190	41	30.94	583.6	26.90	119.0
211m	064°mag	47°	190 – 212	22	16.09	567.5	15.00	134.0

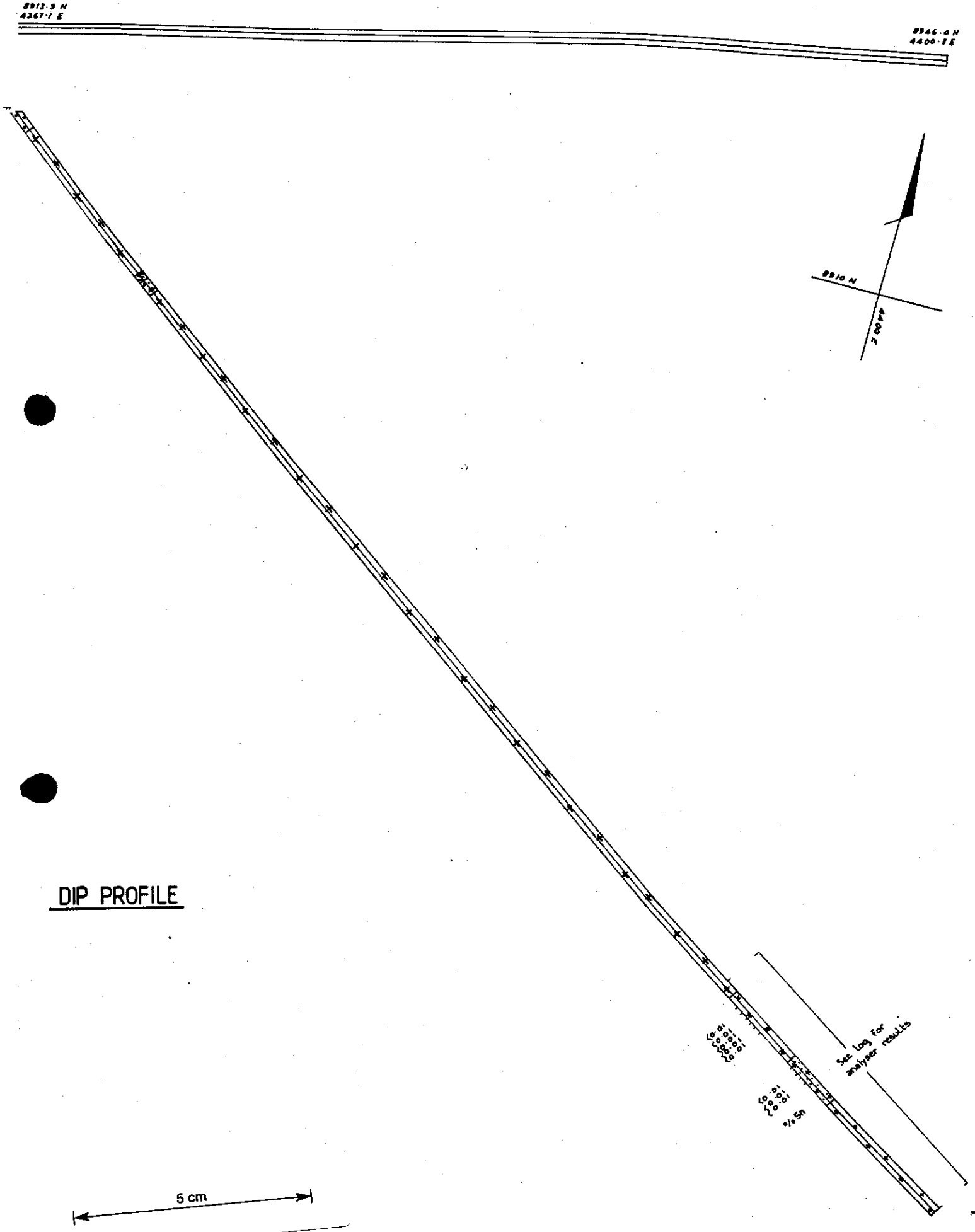
All coded except lithologies

SUMMARY – ASSAY DATA

LODE NAME	FROM	TO	LENGTH (m)	AVERAGE WEIGHTED ASSAYS													B.C.A.
				Sn.	Acid Sol. Sn.	Cu.	As.	S.	Pb.	Zn.	Bi.	WO_3	Ag g/t				

PLAN

657052


8913·9 N
4267·1 E
8946·6 N
4400·1 E
8910 N
4400 E
DIP PROFILE
See log for analyser results
5 cm

DIAMOND DRILL RECORD

657053

HOLE NUMBER : BT 95
LOGGED BY : L.MARTIN

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION	FORM.	% Sn. FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO_3
0	3.7	-	-	SAND: Coarse grained, cream to brown, iron oxide stained.													
3.7	30.1			POIMENA GRANITE:													
		9.84	80	3.7 - 16.0m: Coarse grained, porphyritic, light brown to grey weathered rock with pink feldspars. Fractured with iron oxide staining on surfaces, crumbly and more weathered in places. Some core loss in first few metres. Minor patches of graphic granite. Irregular veining at 11.35 - 12.15m, of fine light grey 'sugary' textured aplite, at 0 - 5°, 0-5cm wide.												
		1.9	100	16.0 - 17.9m: Fresh, hard, grey with pink feldspars.													
		2.25	100	17.9 - 20.15m: Fresh, hard, grey with cream feldspars, light greenish in places.													
		2.18	72	20.15 - 23.18m: Green, soft, very altered in places with altered chloritized feldspars. Core very crumbly - some core loss.													
		6.92	100	23.18 - 30.1m: Fresh, hard, grey with pink feldspar porphyroblasts. Pinkish in places. inor aplite veins at 30° - 40°, 2-3cm wide. Greisenized zones at 23.18 - 23.63m, 24.32 - 24.51m, 25.15 - 25.5m, of medium grey hard rock with original texture mostly obscured. Gradational boundaries.												
30.1	33.9	3.8	100	PEGMATITE - APLITE ZONE: 30.1 - 31.42m: Pegmatite of very coarse grained cream quartz and light pink feldspar, in places coarsely graphic. Very minor grey-brown coarse mica in patches. Upper boundary vague and gradational. 31.42 - 31.80m: Mixed zone of aplite with patches and fragments of pegmatite. 31.80 - 33.90m: Aplite/fine grained granite, light pink to light green, some zones slightly greener. Minor pegmatite patches. Lower boundary sharp at 80° and marked by 5cm wide band of quartz and light pink feldspar pegmatite. No reaction selvages in Poimena granite at either the upper or lower boundaries.												
33.9	168.38	134.48	100	POIMENA GRANITE: 33.9 - 35.1m: Coarse grained, grey pink, hard and porphyritic. Pegmatite aplite vein at 34.71 - 35.1m, with patches of light pink and cream graphic granite. Last 8cm are aplititic and light brown. Upper boundary gradational over 10cm, lower boundary sharp at 90°.												

DIAMOND DRILL RECORD

657054

HOLE NUMBER : BT 95

LOGGED BY : L.MARTIN

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION	FORM.	% Sn. FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO_3
				49.99 - 52.43m: Fine grained Poimena granite, non-porphyritic, grading to coarse grained Poimena granite. Minor pegmatite veins of light pink graphic granite up to 20cm in width, at 30°-45° with minor reaction selvages in Poimena granite in the form of a concentration of black biotite.													
				52.43 - 90.1m : Fresh, hard, grey, coarse grained and porphyritic. Aplite - pegmatite zone at 58.22 - 58.72m, vaguely banded light grey rock with patches of coarse and fine grained asicular biotite. Sharp boundaries at 60°.													
				90.1 - 92.5m: Altered slightly pinked granite. Core very fractured 90.9 - 91.65m with dark green chlorite veining at 40°.													
				92.5 - 168.38m: Fresh, hard and grey. Very minor slightly pink zones and very minor fractured zones with green chloritic veins. Pegmatite-aplite vein at 96.45 - 97.15m, light grey to pink. Pegmatite of quartz and light pink feldspar for first and last 10cm and grades to fine aplite. Upper boundary sharp at 85°; at lower boundary pegmatite grades into slightly greisenized granite. Granite is slightly pinked and altered on either side of vein. Pegmatite vein at 133.18m - 133.48m, mostly of very coarse grained white quartz, minor light pink feldspar and light green mica. Minor zones of Poimena granite grading into pegmatite. Boundaries sharp: lower one at 80°, upper one at 45°.		166	212	≤0.10	according to NUTMAQ tin core analyser (MAB).								
						Mines Department Assays				Reg No.: 302146-153							
168.38	181.2	12.82	100	GREISEN: Fine grained, light grey 'sugary' textured rock of quartz, topaz and brown flakes of biotite. Minor vague darker grey bands. Sharp upper boundary at 40°; no apparent alteration of Poimena granite near the contact. (Pet. 173.66 - 173.71m).		170	171	<0.01									
							172	<0.01									
							173	<0.01									
							174	<0.01									
							175	<0.01									
181.2	189.95	8.75	100	LOTTAH GRANITE GREISEN: Fine grained, light grey, slightly greisenized and 'sugary' textured. Some greisen zones. Gradational to fine grained lottah granite.													
189.95	212.0	22.05	100	LOTTAH GRANITE: Fine grained, slightly altered, light yellow brown rock. First 4-5m slightly 'sugary' and greisenized.													
				END OF HOLE		182	183	<0.01									
							184	<0.01									
							185	<0.01									

RENISON LIMITED - DRILL CORE RECORD

657055

HOLE NUMBER	BT.112
PURPOSE	To test for extensions to Moon mineralisation
LOCATION	Moon Workings
COLLAR R.L.	734.1
CO-ORDINATES	9177.71N 4232.16E
LENGTH	146m
HOLE SIZE	0 - 9m NQ -146m BQ
DATE DRILLED	10.2.81 to 16.2.81
SIGNIFICANT CORE LOSS ZONES	
ORE ZONE GROUND CONDITIONS	
LOGGED BY	A. ROSS
COMMENTS	Younger granite completely barren (with respect to tin), although alteration is variable

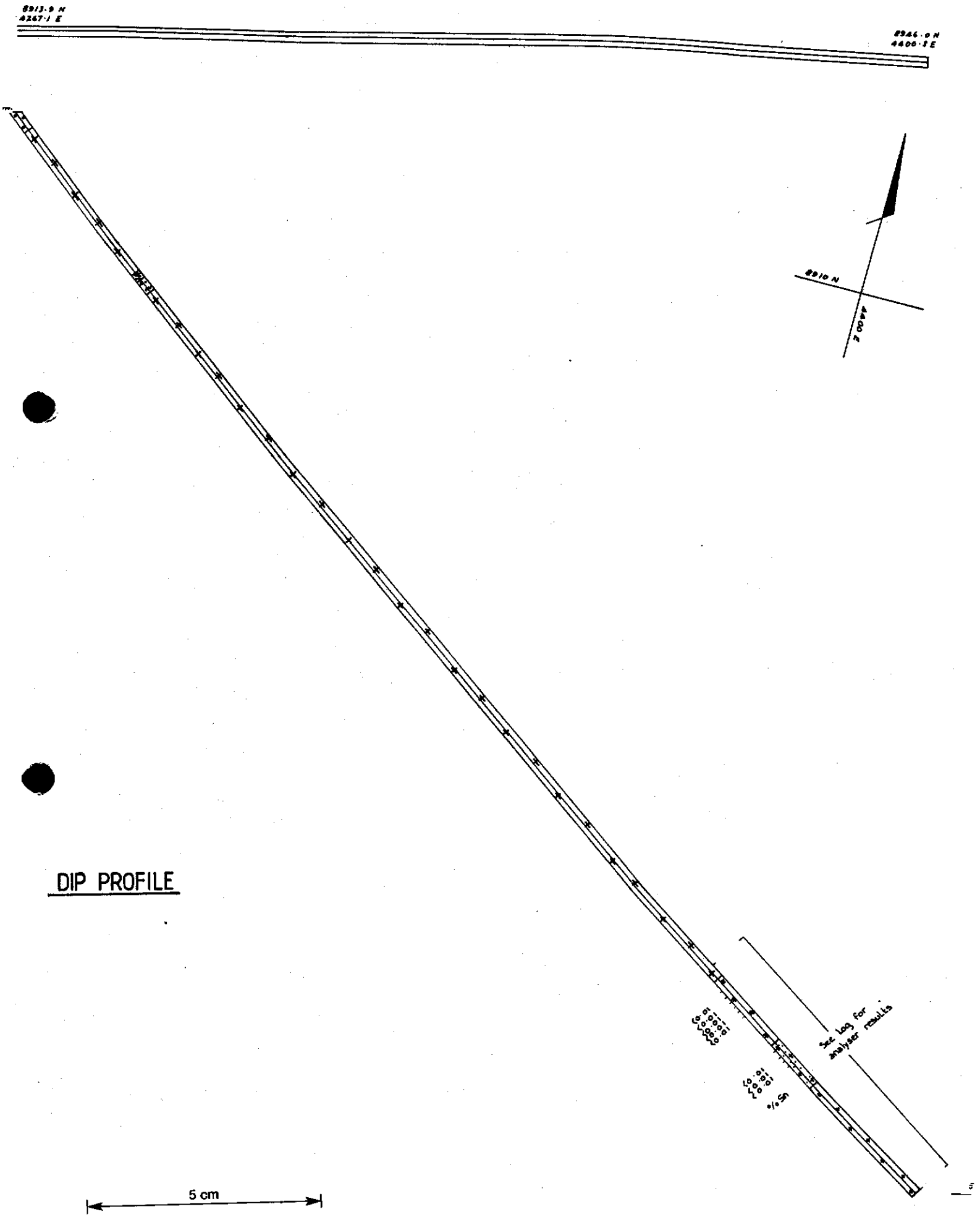
SURVEY			From – To	Distance D	VERTICAL		HORIZONTAL	
Depth	Bearing	Dip			D.Sin.Dip	R.L.	D.Cos.Dip	Prog. Total
	GRID					734.1		
0	077	- 50.0	0 - 12	12	9.193	724.9	7.713	7.7
25	086	- 52.0	12 - 40	28	22.064	702.8	17.239	25.0
55	086	- 51.75	40 - 70	30	23.560	679.8	18.573	43.5
85	086	- 51.25	70 -100	30	23.397	655.9	18.778	62.3
115	088.5	- 50.25	100 -130	30	23.065	632.8	19.183	81.5
145	090	- 49.75	130 -146	16	11.448	621.4	9.692	91.2

SUMMARY – ASSAY DATA

LODE NAME	FROM	TO	LENGTH (m)	AVERAGE WEIGHTED ASSAYS													B.C.A.
				Sn.	Acid Sol. Sn.	Cu.	As.	S.	Pb.	Zn.	Bi.	WO_3	Ag g/t				
	67.2	146		<0.01													

PLAN

657056


8913.9 N
4267.1 E
8946.0 N
4400.3 E
8910 N
4400 E
DIP PROFILE
See log for analyser results
5 cm

657057

INTERVAL (m) FROM	INTERVAL (m) TO	RECOVERY m	RECOVERY %	DESCRIPTION	FORM.
				SUMMARISED LOG	
0	26.0			WEATHERED COARSE GRAINED PORPHYRITIC ADAMELLITE.	
26.0	67.2			FRESH, SLIGHTLY WEATHERED, PORPHYRITIC ADAMELLITE MINOR ARGILLISATION, PINKENING. (POIMENA ADAMELLITE).	
67.2	146.0			ALKALI GRANITE. ZONES OF INTENSE FELDSPATHISATION. VARIABLE GREISEN STYLE ALTERATION.	
				DETAILED LOG	
0	5.0	1.3	26.0	Fresh to weathered P.A.	
5.0	9.0	4	100	Weathered to fresh dark coloured PA.	
9.0	14.0	3.7	74.0	Dark grey fresh to yellow weathered PA.	
14.0	17.0	3	100	Yellow weathered to grey fresh PA.	
17.0	20.0	3	100	Dark grey fresh PA.	
20.0	23.0	1	33.3	Weathered PA.	
23.0	26.0	3	100	Fresh to weathered PA.	
26.0	26.5	0.5	100	Yellow weathered PA.	
26.5	40.0	13.5	100	Fresh dark blue grey PA. Pinkened from 39m.	
40.0	40.6	0.6	100	Broken, chloritic zone in PA.	
40.6	42.3	1.7	100	Pinkened PA.	
42.3	43.0	0.7	100	Broken PA. Chloritic joints. Partly pinkened.	
43.0	46.8	3.8	100	Generally competent fresh PA. Little pinkening.	
46.8	47.2	0.4	100	Broken. Zone of clayey joints.	
47.2	48.8	1.6	100	Fresh PA.	

FROM	TO	% Sn. TAL	% Sn. ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO_3
67.2	68	<0.01									
	69	"									
	70	0.01									
	71	<0.01									
	72	"									
	73	"									
	74	"									
	75	"									
	76	"									
	77	"									
	78	"									
	79	"									
	80	"									
	81	"									
	82	0.01									
	83	0.02									
	84	<0.01									
	85	"									
	86	"									
	87	"									
	88	"									
	89	"									
	90	"									
	91	"									
	92	"									
	93	"									
	94	"									
	95	"									
	96	"									
	97	"									
	98	"									
	99	"									
	100	"									
	101	"									
	102	"									
	103	"									
	104	"									
	105	"									
	106	"									
	107	"									
	108	"									
	109	"									
	110	"									

657058

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION	FORM.
48.8	49.7	0.9	100	Clayey, chloritic PA. Broken core	
49.7	55.9	6.2	100	Fresh blue grey P.A. Minor pinkening.	
55.9	58.0	2.1	100	Weakly argillised, mainly fresh PA.	
58.0	59.0	1.0	100	Fresh blue grey PA.	
59.0	60.2	1.2	100	White slightly weathered PA.	
60.2	67.0	6.8	100	Dark grey, minor white, fresh to slightly weathered PA. Little pinkening.	
67.0	67.2	0.2	100	White, pink very weathered or argillised PA. Sharp contact.	
				CONTACT AT 67.2m	
67.2	68.75	1.55	100	Alkali granite - weak alteration. White to pale green equigranular granite with green muscovite and minor black biotite.	
68.75	68.85	0.10	100	Pegmatite band.	
68.85	70.0	1.15	100	Pale green-white alkali granite - weak greisen (green muscovite). Minor rare pegmatite bands up to 2cm wide.	
70.0	71.1	1.1	100	Broken zone of granite - weak sericite greisen. Black weathered manganese or iron oxides.	
71.1	72.4	1.3	100	Zone of orange brown limonite stained alkali granite - weak muscovite greisen.	
72.4	75.5	3.1	100	White to cream granite - weak greisen with disseminated dark phlogopite, 5cm wide albite? vein at 74m at 45° CA. Minor darker zones present.	
75.5	80.2	4.7	100	Alkali granite-weak greisen with brownish zones of weak limonitic staining.	
80.2	82.9	2.7	100	White cream alkali granite - weak greisen. Weak disseminated dark phlogopite and weak sericitisation. 10cm pegmatite segregation at 82.8m.	

FROM	TO	% Sn. TAL	% Sn. ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO_3
110	111	<0.01									
	112	"									
	113	"									
	114	"									
	115	"									
	116	"									
	117	"									
	118	"									
	119	"									
	120	"									
	121	"									
	122	"									
	123	"									
	124	"									
	125	"									
	126	"									
	127	"									
	128	"									
	129	"									
	130	"									
	131	"									
	132	"									
	133	"									
	134	"									
	135	"									
	136	"									
	137	"									
	138	"									
	139	"									
	140	"									
	141	"									
	142	"									
	143	"									
	144	"									
	145	"									
	146	"									

Assays by Mines Department, Launceston

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTI[illegible] 657059	FORM.	% Sn. FROM	TO	[illegible]TAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO_3
82.9	85.8	2.9	100	Zone of differing textures. Bleached white to darker brown alkali altered granite. Minor greenish mottled alteration beginning. Disseminated dark phlogopite.													
85.8	86.1	0.3	100	Much limonitic alteration along joints at 45° CA.													
86.1	111.6	25.5	100	Variably mottled and bleached alkali granite. Small yellow argillic spots throughout. Commonly these are narrow 10cm wide zones of limonite on joints, narrow broken zones. Variable intensity of disseminated dark phlogopite.													
111.6	112.1	0.5	100	Vein like zone of darker grey alkali granite - weak greisen. Contacts distinct but diffuse. Grey brown micas.													
112.1	114.6	2.5	100	White, greenish mottled alkali granite with variable disseminated dark mica.													
114.6	116.6	2.0	100	Darker brown, limonite stained alkali granite - weak greisen. Bleached, white 'albite?' alteration around joints and as discrete 'blobs'.													
116.6	138.2	21.6	100	Zone of variably mottled greenish to white bleached alkali granite. Minor zones of broken core, occasional limonite on joints.													
138.2	146.0	7.8	100	Alkali granite. A more pink appearance, with minor zones of variable greenish mottled alteration. Minor limonite on joints. Variable disseminated dark mica present.													
				END OF HOLE.													

RENISON LIMITED - DRILL CORE RECORD

657060

HOLE NUMBER	BT 113
PURPOSE	To test for extensions to Moon mineralisation
LOCATION	Moon Workings
COLLAR R.L.	742.1m
CO-ORDINATES	9048.87N 4217.62E
LENGTH	180m
HOLE SIZE	0 - 25m NQ -180m BQ
DATE DRILLED	16.2.81 to 23.2.81
SIGNIFICANT CORE LOSS ZONES	
ORE ZONE GROUND CONDITIONS	
LOGGED BY	A. ROSS

SURVEY			From – To	Distance D	VERTICAL		HORIZONTAL	
Depth	Bearing	Dip			D.Sin.Dip	R.L.	D.Cos.Dip	Prog. Total
	GRID					742.1		
0	057	- 50.0	0 - 13	13	9.959	732.1	8.356	8.4
26	NA	- 52.0	13 - 42	29	22.852	709.3	17.854	26.2
57	068.5	- 51.75	42 - 79	37	29.057	680.2	22.906	49.1
102	072.0	- 51.25	79 -122	43	33.535	646.7	26.915	76.0
141	074.75	- 51.0	122-160	38	29.532	617.2	23.914	99.9
180	072.5	- 50.25	160-180	20	15.377	601.8	12.789	112.7

COMMENTS

Younger granite generally low in tin except for 71-73m.
Variable, intense alteration encountered in alkali granite.
At depth, hole encountered xenoliths of adamellite, prior to re-entering mass of porphyritic adamellite.

SUMMARY – ASSAY DATA

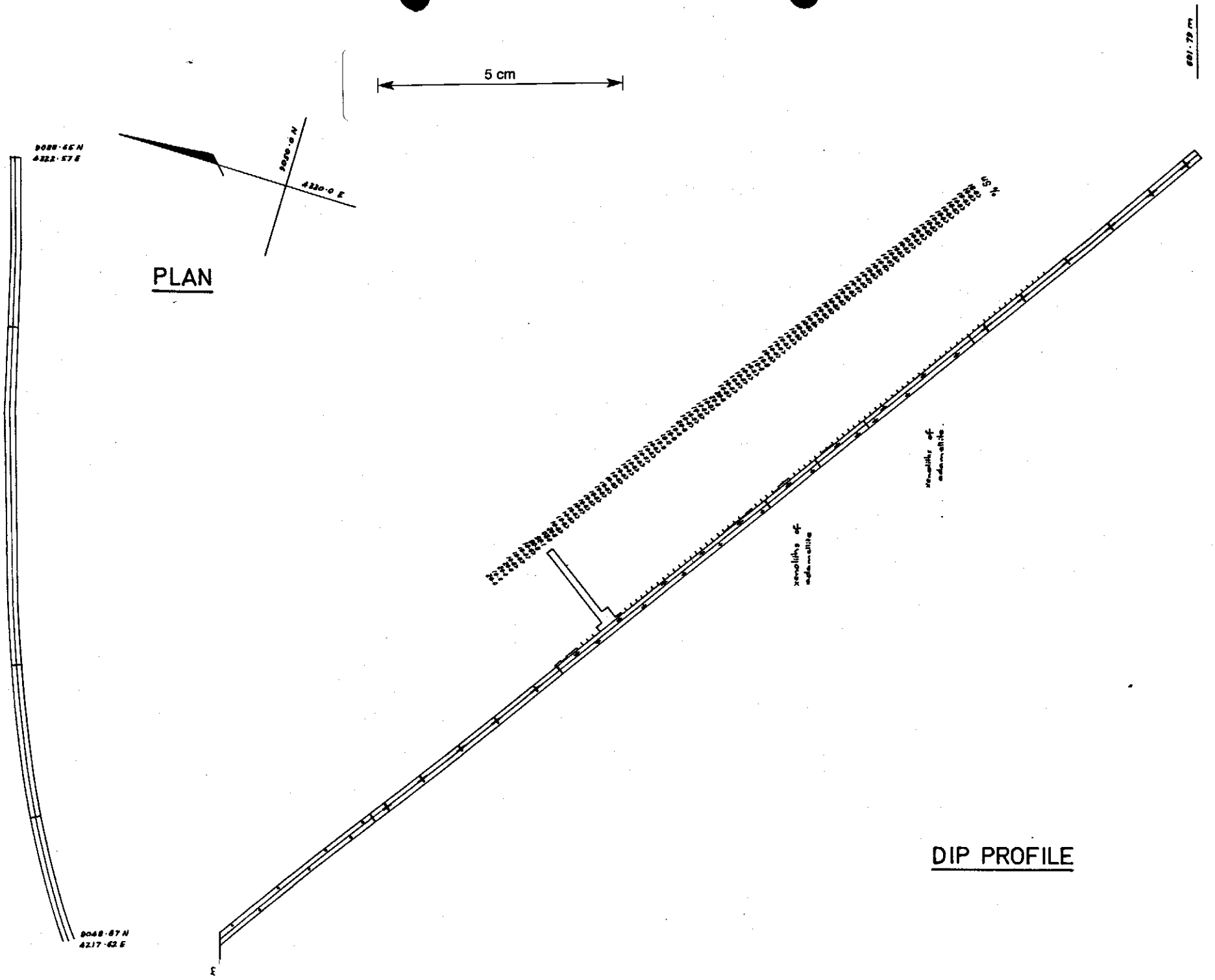
LODE NAME	FROM	TO	LENGTH (m)	AVERAGE WEIGHTED ASSAYS													B.C.A.
				Sn.	Acid Sol. Sn.	Cu.	As.	S.	Pb.	Zn.	Bi.	WO_3	Ag g/t				
	71	73	2	0.78													

HOLE No BT 113

SCALE 0 10 20 metres

DIAMOND DRILL HOLE PLOT

5 cm



657061

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION 657062	FORM.	FROM	TO	% Sn. TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Mo	g/t Ag	% WO_3
				SUMMARISED LOG													
0	28.0			WEATHERED COARSE GRAINED ADAMELLITE.													
28.0	62.1			FRESH COARSE GRAINED ADAMELLITE, MINOR PEGMATITE, SLIGHT ALTERATION.													
62.1	86.8			ALKALI GRANITE. WEAK VARIABLE GREISEN ALTERATION WITH CASSITERITE FROM 71 to 72m, AND TRACE MOLYBDENITE.													
86.8	100.3			ALKALI GRANITE WITH INTENSE FELDSPATHISATION, MINOR SERICITISATION.													
100.3	109.7			ALKALI GRANITE WITH XENOLITHS OF PORPHYRITIC ADAMELLITE.													
109.7	118.6			ALKALI GRANITE. STRONG ALTERATION. A.C													
118.6	138.0			ALKALI GRANITE WITH XENOLITHS OF PORPHYRITIC ADAMELLITE.													
138.0	180.0			PORPHYRITIC ADAMELLITE WITH MINOR ALKALI GRANITE VEINS, DYKES.													
				DETAILED LOG													
0	6	0.7	11.7	Weathered Poimena Adamellite.		62	63	0.02		0.0015				0.0135	0.005	< 1	0.002
							64	0.01		0.002				0.005	0.029	< 1	0.002
6	14	1.2	15.0	Weathered P.A. Gradually freshening. Minor limonite.			65	0.02		0.0015				0.005	0.008	< 1	<0.001
							66	"		0.0015				0.006	0.006	< 1	0.002
14	20	1.5	25.0	Weathered P.A.			67	<0.01		0.0015				0.018	0.006	< 1	0.002
							68	"		0.0015				0.0065	0.007	< 1	0.002
20	23	1.3	43.3	Weathered P.A., grading to fresher P.A.			69	"		0.0015				0.0075	0.007	< 1	0.004
							70	"		0.0015				0.0065	0.007	< 1	0.002
23	25	1.1	55.0	Fresher P.A.			71	0.08		0.0015				0.004	0.009	< 1	0.004
							72	1.35		0.0015				0.0115	0.042	< 1	0.002
25	28	1.4	46.7	Fresh to weathered P.A.			73	0.20		0.0025				0.009	0.021	< 1	0.002
							74	0.02		0.0015				0.008	0.017	< 1	<0.001
28	31	2.0	66.7	Weathered to fresh P.A. Full recovery from here.			75	<0.01		0.0015				0.01	0.026	< 1	0.002
							76	"		0.0015				0.005	0.007	< 1	0.002
31.0	43.3	12.3	100	Mainly fresh dark grey P.A. Occasional rare quartz/pegmatite			77	"		0.0015				0.004	0.006	< 1	0.002
				segregation.			78	"		0.0015				0.0065	0.006	< 1	0.002
							79	"		0.0015				0.009	0.007	< 1	0.002
43.3	43.42	0.12	100	Quartz pegmatite vein.			80	"		0.0020				0.011	0.007	1	0.002
							81	"		0.0025				0.013	0.006	1	0.002
43.42	61.5	18.08	100	Fresh dark grey P.A. with occasional pink feldspar and rare broken			82	"		0.0045				0.03	0.005	1	0.00
				chloritic zones. Minor narrow, clayey zones up to 30cms wide.			83	"									

657063

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION	FORM.
61.5	62.1	0.6	100	Mixture of argillised PA and lesser pinked, chloritic varieties.	
62.1	63.0	0.9	100	Complex contact zone. Layered pegmatite/aplite up to 20cms wide at 45° CA. Diffuse altered varieties of alkaline granite.	
				CONTACT 62.1m.	
63.0	69.6	6.6	100	Alkali granite. Variably altered and greisenised. White grey to grey green greisen granite. Minor vein like (discordant) alteration zones of grey green mica. Common dark mica.	
69.6	70.3	0.7	100	Zone of pegmatite (20cms) and argillised P.A. Upper and lower contacts sharp at 40° CA.	
70.3	77.2	6.9	100	Variably greisenised alkaline granite. Common dark green micas and abundant cassiterite from 71-72m. Minor molybdenite.	
77.2	78.4	1.2	100	White alkali granite with diffuse altered texture and disseminated dark mica. No intense blotchy alteration as encountered below. Very rare clayey joints.	
78.4	86.8	8.4	100	Curious zone of splotchy alteration of white (albitised?) alkali granite. Very rare disseminated dark mica. Gradational boundaries.	
86.8	90.6	3.8	100	White very altered alkali granite. Completely feldspathised (albitised?). No micas or greisen alteration.	
90.6	94.0	3.4	100	Blotchy altered alkali granite without dark mica disseminations.	
94.0	97.0	3.0	100	Overall a light coloured alkali granite with dark disseminated mica and blotchy green alteration which gives a mottled texture to the core. The more intense blotchy green patches appear to be discordant alteration zones (very fine sericite? alteration).	
97.0	98.0	1.0	100	Regular looking relict alkali granite with disseminated dark biotite. Minor sericitisation. Rare clusters of coarse dark mica.	
98.0	100.0	2.0	100	Bleached white alkali granite with diffuse pale brown mica throughout.	
100.0	100.3	0.3	100	White alkali granite with rare clusters of black biotite (unusual). Very broken core.	
100.3	100.7	0.4	100	Xenolith of completely argillised P.A.	

FROM	TO	% Sn. [redacted]L	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO_3
83	84	<0.01									
	85	"									
	86	"									
	87	"									
	88	"									
	89	"									
	90	"									
	91	"									
	92	"									
	93	"									
	94	0.01									
	95	"									
	96	"									
	97	"									
	98	0.02									
	99	<0.01									
	100	"									
	101	"									
	102	"									
	103	0.01									
	104	0.02									
	105	"									
	106	<0.01									
	107	"									
	108	"									
	109	"									
	110	"									
	111	"									
	112	0.01									
	113	"									
	114	<0.01									
	115	"									
	116	"									
	117	"									
	118	"									
	119	"									
	120	"									
	121	"									
	122	"									
	123	"									
	124	"									
	125	"									
	126	"									

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION 657064 FORM.
100.7	104.9	4.2	100	Variably altered alkaline granite. Relict texture well preserved with disseminated dark biotite and pervasive sericitisation throughout. Rarely there are stronger sericite zones up to 30cms wide. Rare smears of fluorite on joints. Rare limonite on joints.
104.9	109.7	4.8	100	Complex zone of P.A. (50%) and alkali granite (50%). Zones of both up to 1.3m wide, and commonly 50-80cms. Interpreted as xenoliths of P.A. in alkali granite. Black biotite rims adjacent to alkali granite contacts (sharp). P.A. is weakly pinked, chloritised, and occasionally argillised. Alkali granite is sericitised and contains disseminated dark biotite. Contact angles are commonly 40° CA.
109.7	110.5	0.8	100	White cream competent alkali granite with disseminated biotite. No significant greisen alteration.
110.5	114.8	4.3	100	Very broken cream white alkali granite with disseminated biotite. Minor zones of intense limonite (on joints) or as zones. Clayey fragments at 110.7 to 110.9m.
114.8	117.2	2.4	100	Diffused textured green completely altered alkali granite. Pale brown mica throughout. Very fine grained aplitic rock grading to relict alkali granite.
117.2	118.6	1.4	100	White-green medium grained alkali granite with disseminated green biotite. Minor limonite developed on joints and in parts of competent core. Intense seritice alteration appears as if in discordant zones at 45° CA, up to 30cm wide.
118.6	123.75	5.15	100	Zone of variably altered alkali granite. Medium grained equigranular, with disseminated biotite, subtle greenish sericitic alteration and grading to very minor intense bleached zones.
123.75	124.35	0.6	100	Argillised, chloritised, pinked P.A.
124.35	125.4	1.05	100	Zone of alkali granite. White with minor green sericite alteration. Dark green biotite common in first 40cms. Sharp contacts with lower one associated with xenoliths of P.A. No visible mineralisation.
125.4	126.0	0.6	100	Pinked, chloritised, argillised PA with crude veins of black biotite up to 3cm wide.
126.0	126.3	0.3	100	White alkali granite vein. Sharp contacts at 45° CA with black biotite rims.

FROM	TO	% Sn. TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO_3
126	127	<0.01									
	128	"									
	129	"									
	130	"									
	131	"									
	132	"									
	133	"									
	134	"									
	135	"									
	136	"									
	137	"									
	138	"									
	139	"									
	140	"									
	141	"									
	142	"									
	143	"									
	144	"									
	145	"									
	146	"									
	147	"									
	148	"									
	149	"									
	150	"									
	151	"									
	152	"									

Sn Assays by Mines Department, Launceston (KRF)

* Cu, Zn, Mo, Ag, WO_3 assays by Renison.

65706

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION	FORM.	% Sn FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO_3
126.3	127.8	1.5	100	Dark Poimena Adamellite. Weak pinkening and chloritisation. Argillic alteration pronounced within 10cms of contacts.													
127.8	130.2	2.4	100	Zone of alkali granite. Upper contact is sharp, 70° CA with black biotite rims. Lower contact sharp with few xenoliths of PA. White to light pink brown alkali granite with very light green sericite alteration. Medium grained, equigranular. Common black biotite in first 40cms.													
130.2	131.0	0.8	100	Intense jointing 45° CA in altered clayey P.A. and alkali granite (50/50).													
131.0	132.3	1.3	100	Pinked, chloritic PA (95%) and veins up to 5cm, of alkali granite. Black biotite rims on veins.													
132.3	133.5	1.2	100	White alkali granite vein. Lower contact 40° CA. Upper contact 50° CA. Rimmed with black biotite. Weak sericite alteration. Vuggy appearance.													
133.5	138.0	4.5	100	Dark Poimena Adamellite (80%), white alkali granite (20%). Irregular veins of alkali granite in P.A. with discordant relationships, up to 40° CA. Larger veins of alkali granite contain xenoliths of PA. Weak sericite alteration of alkali granite. P.A. is weakly pinked and chloritised.													
138.0	141.9	3.9	100	P.A. Weak chloritic and pinkening alteration.													
141.9	143.5	1.6	100	Very broken chloritic P.A.													
143.5	143.6	0.1	100	Vein of alkali granite. No significant alteration. Attitude not available.													
143.6	144.55	0.95	100	Very chloritic and broken P.A.													
144.55	144.6	0.05	100	Vein of alkali granite. Attitude n.a.													
144.6	146.4	1.8	100	Very chloritic and broken P.A.													
146.4	157.3	10.9	100	Monotonous P.A. Variable greenish chloritic alteration of feldspars and pinkened feldspars (dark granite).													
157.3	159.0	1.7	100	Much chloritic alteration of P.A. Core broken.													

657066

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION
159.0	163.1	4.1	100	Moderately broken, pinkened P.A. (Overall dark adamellite).
163.1	164.5	1.4	100	Altered alkali granite dyke. Upper contact sharp at 45° CA. Lower contact not observable. White bleached appearance, sparse mica and vuggy due to loss of sericite? Colours white-orange pink, minor greenish alteration.
164.5	169.0	4.5	100	Pinkened P.A. Minor chloritic (green alteration). Minor rare alkali granite vein at 166.9m (5cms wide), slight mica alteration. Core moderately broken.
169.0	174.8	5.8	100	Blue grey unaltered P.A. Monotonous minor pegmatite segregations. Weak greenish alteration of some feldspars. No pinkening.
174.8	174.93	0.13	100	Vein of alkali granite. Upper contact 45° CA. Lower 90° CA. Sharp contacts. No greisen alteration.
174.93	180.0	5.07	100	Medium to coarse grained porphyritic adamellite. Pinkened phenocrysts of feldspar. Minor pegmatite segregations at 177.6m.
				END OF HOLE.

FORM. FROM	TO	% Sn TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO_3

RENISCO LIMITED - DRILL CORE RECORD

657067

HOLE NUMBER	BT 114
PURPOSE	To test for extensions to Moon mineralisation.
LOCATION	Moon Workings
COLLAR R.L.	743.9m
CO-ORDINATES	8970.31N 4200.86E
LENGTH	201m
HOLE SIZE	0 - 2m Tricone -20m NQ -201m BQ
DATE DRILLED	23.2.81 to 27.2.81
SIGNIFICANT CORE LOSS ZONES	
ORE ZONE GROUND CONDITIONS	
LOGGED BY	A. ROSS

SURVEY			From - To	Distance D	VERTICAL		HORIZONTAL	
Depth	Bearing	Dip			D.Sin.Dip	R.L.	D.Cos.Dip	Prog. Total
	GRID					743.9		
0	056°	-52.25	0 - 20	20	15.8138	728.1	12.2443	12.2
40	067°	-54.25	20-60	40	32.4630	695.6	23.37	35.6
80	066°	-53.75	60-100	40	32.2578	663.4	23.6524	59.3
120	068.5	-52.00	100-140	40	31.5204	631.8	24.6264	83.9
160	069°	-52.00	140-180	40	31.5204	600.3	24.6264	108.5
200	064°	-49.75	180-201	21	16.0279	584.3	13.5686	122.1

COMMENTS

Younger granite generally very low in tin, except for 101 to 103m.
Hole failed to confirm down dip extensions of mineralisation from hole BT 90.
Similar sequence to that encountered in previous holes.

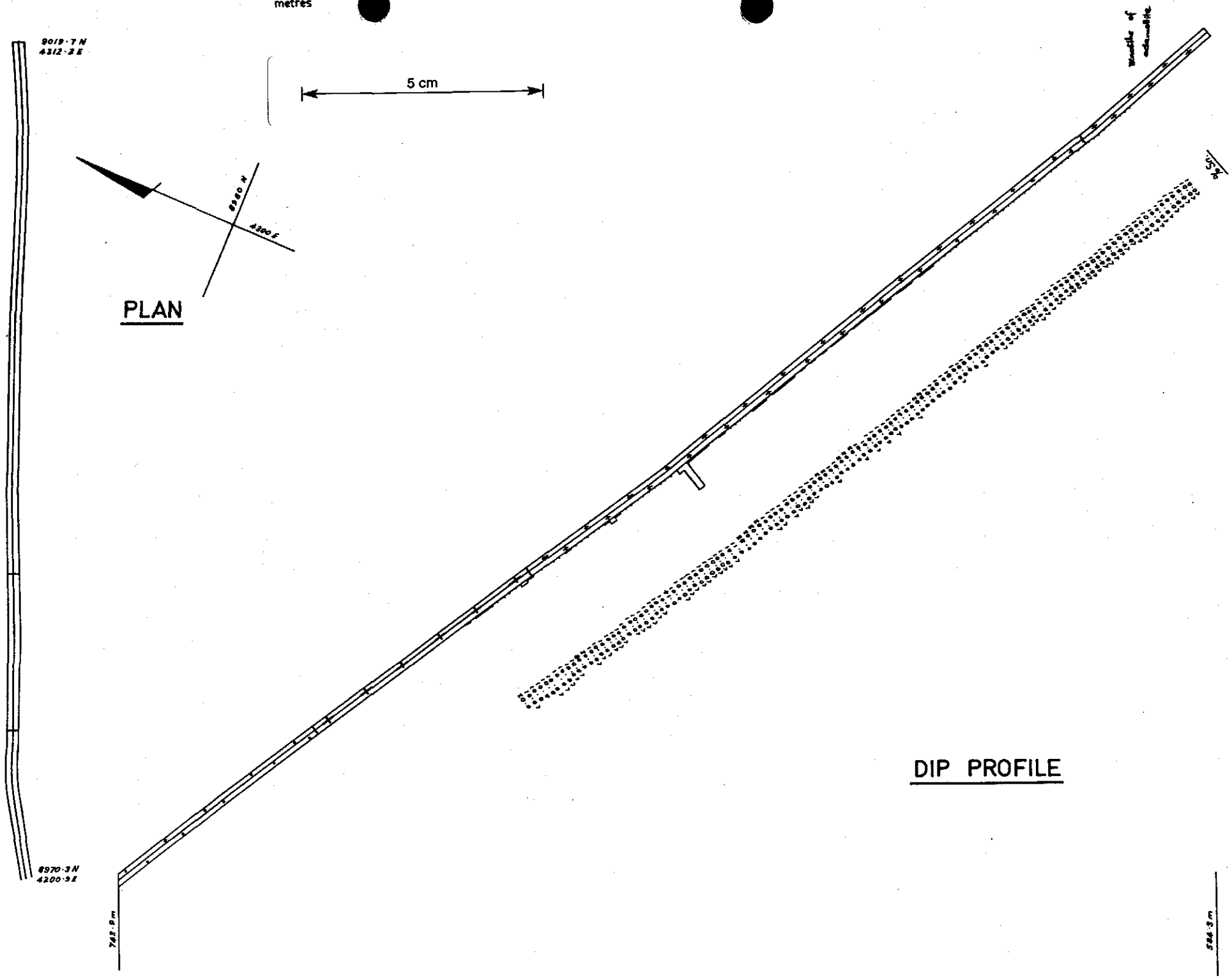
SUMMARY - ASSAY DATA

LODE NAME	FROM	TO	LENGTH (m)	AVERAGE WEIGHTED ASSAYS													B.C.A.
				Sn.	Acid Sol. Sn.	Cu.	As.	S.	Pb.	Zn.	Bi.	WO_3	Ag g/t				
	101	103	2m	0.48													

HOLE No.: BT 114

SCALE: 0 10 20 metres

DIAMOND DRILL HOLE PLOT



657068

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION 657069	FORM.
				SUMMARISED LOG	
0	36.0			WEATHERED COARSE GRAINED ADAMELLITE.	
36.0	63.1			FRESH, COARSE GRAINED ADAMELLITE.	
63.1	68.95			SILICEOUS, GREISENISED ADAMELLITE? OR QUARTZ VEIN.	
68.95	74.7			PINKENED, ARGILLISED PORPHYRITIC ADAMELLITE.	
74.7	176.8			ALKALI GRANITE. VARIABLY ALTERED WITH ZONES OF GREISEN ALTERATION,	
				FELDSPATHISATION. DISSEMINATED CASSITERITE FROM 101.9 to 103.6m.	
176.8	176.9			QUARTZ VEIN.	
176.9	201.0			ALKALI GRANITE WITH RARE XENOLITHS OF PORPHYRITIC ADAMELLITE.	
				DETAILED LOG	
0	3.0	0	0	Tricone. No recovery.	
3.0	6.0	0.05	1.7	Yellow weathered Poimena Adamellite.	
6.0	17.5	1.5	13	Yellow weathered P.A.	
17.5	19.0	1.5	100	Yellow weathered P.A. (50%), fresh P.A. (50%).	
19.0	20.0	1.0	100	Fresh dark blue grey P.A.	
20.0	24.0	1.1	27.5	Fresh to yellow weathered P.A.	
24.0	27.0	2.3	76.7	Yellow weathered P.A.	
27.0	33.0	0.3	5.0	Yellow weathered P.A.	
33.0	36.0	1.8	6.0	Yellow weathered P.A.	
36.0	39.0	3.0	100	Fresh blue grey P.A.	
39.0	60.1	21.1	100	Full recovery. Fresher, pinkened P.A. From 58.2m, there is chloritic	
				alteration and broken core.	

FROM	TO	% Sn. TOTAL	ACID SOL.	* % Cu.	% As.	% S.	% Pb.	* % Zn.	* %Mo	* g/t Ag	* % WO_3
63	64	0.02									
	65	<0.01									
	66	0.01									
	67	"									
	68	"									
	69	<0.01									
	70	"									
	71	"									
	72	"									
	73	"									
	74	0.08									
	75	0.02									
	76	<0.01									
	77	"									
	78	"									
	79	"									
	80	"									
	81	"									
	82	0.01									
	83	<0.01									
	84	"									
	85	"									
	86	"									
	87	"									
	88	"									
	89	0.01									
	90	0.14									
	91	0.01		0.001				0.0115	0.004	1	<0.002
	92	<0.01		0.001				0.0155	0.054	1	0.004
	93	"		0.0015				0.0201	0.02	<1	0.002
	94	"		0.0015				0.018	0.01	1	0.002
	95	"		0.0015				0.021	0.014	1	0.002
	96	"		0.002				0.0235	0.011	2	0.002
	97	"		0.0015				0.015	0.007	1	0.002
	98	"		0.001				0.017	0.019	<1	0.002
	99	"		0.0015				0.0095	0.01	<1	0.002
	100	"		0.0015				0.007	0.012	1	0.002
	101	"		0.0015				0.0065	0.009	1	0.002
	102	0.11		0.001				0.012	0.006	1	0.002
	103	0.85		0.001				0.0125	0.006	<1	0.004
	104	0.02		0.001				0.01	0.005	<1	<0.002
	105	0.03		0.001				0.008	0.005	<1	<0.002
								0.007	0.005	<1	0.002

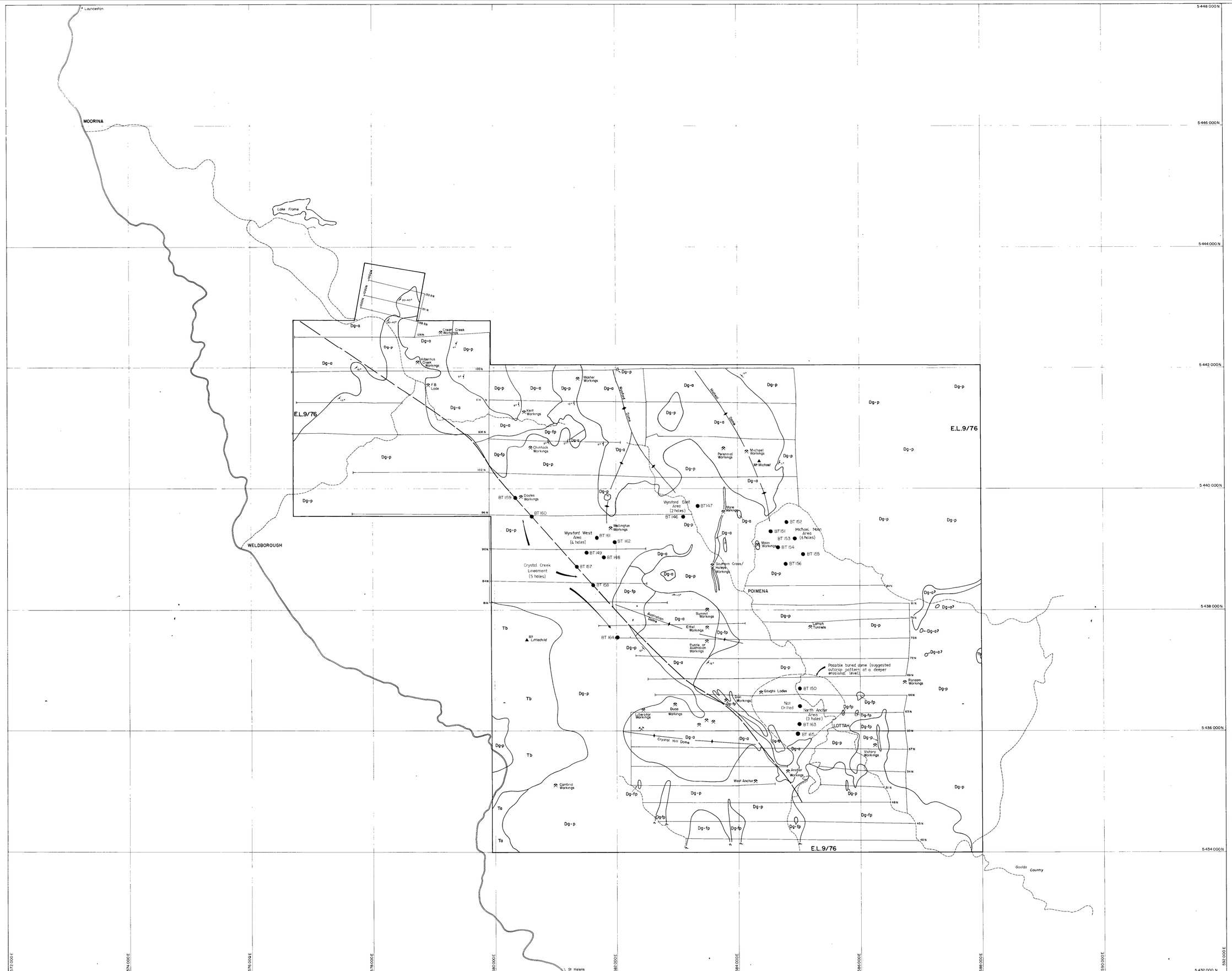
INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION [redacted] 657070	FORM.	FROM	TO	% Sn. [redacted]AL	ACID SOL.	* % Cu.	% As.	% S.	% Pb.	* % Zn.	* % Mo	* g/t Ag	* % WO_3
61.9	63.1	1.2	100	Pinkened fresh P.A. Lower contact sharp at 30° CA.		106	107	0.01		0.0015				0.012	0.013	1	0.002
							108	<0.01		0.001				0.0105	0.005	1	0.002
63.1	68.95	5.85	100	Silicified, quartzose greisen? or massive quartz vein. Minor			109	"		0.0015				0.01	0.007	1	0.002
				fluorite on joints. Minor zones of mixed pink feldspar, weak			110	0.01		0.0015				0.0085	0.007	<1	<0.002
				sericitisation, grading to pinkened weak chloritic P.A. Lower			111	<0.01		0.001				0.005	0.004	<1	<0.002
				contact sharp at 30° CA. Trace brown cassiterite? at margin of quartzose			112	"		0.001				0.007	0.005	<1	<0.002
				dyke.			113	"		0.001				0.0065	0.005	<1	0.002
							114	"		0.001				0.004	0.004	<1	0.002
68.95	71.6	2.65	100	Fresh, very pinkened P.A.			115	"		0.0005				0.003	0.003	<1	0.002
							116	0.01									
71.6	73.1	1.5	100	Mainly pinkened P.A., but containing minor zones of argillised P.A.,			117	0.02									
				pegmatite, alkali granite veins, pronounced black biotite segregations.			118	"									
							119	<0.01									
73.1	74.7	1.6	100	Mixed zone of pinked, argillised P.A., minor black biotite			120	0.01									
				segregations, curious infilled brecciated P.A. fragments. Layering			121	0.02									
				in some patches at 45° CA to 35° CA. Narrow zones of alkali/			122	"									
				pegmatite granites. Contact marked by 10cm pegmatite at 74.7m.			123	"									
							124	<0.01									
	74.7			CONTACT AT 74.7m.			125	0.01									
							126	<0.01									
74.7	76.9	2.2	100	Pale white to light green sericitised alkali granite, probably			127	0.01									
				albitised also. Few low angle limonitic joints.			128	<0.01									
							129	0.01									
76.9	78.1	1.2	100	Grades into variably darker green granite with minor disseminated			130	<0.01									
				dark green phlogopite.			131	0.01									
							132	"									
78.1	79.4	1.3	100	Sharp contact. Zone of argillised very altered P.A. Yellow-green			133	"									
				colours.			134	<0.01									
							135	0.02									
79.4	81.1	1.7	100	Sharply back into white-green to darker shades. Bleached sericitised			136	"									
				alkali granite with disseminated dark green phlogopite.			137	0.01									
							138	"									
81.1	83.5	2.4	100	Tendency to blotchy mottled alteration as in other Moon drill holes.			139	"									
				Minor joints carry weathered limonitic material. Minor disseminated			140	"									
				phlogopite throughout.			141	"									
							142	<0.01									
83.5	87.0	3.5	100	As before with more pronounced mottly zone, generally highly broken.			143	0.01									
				Bleached, sericitised alkali granite. Subtle pink-white colour.			144	"									
							145	"									
87.0	90.6	3.6	100	More competent blotchy, mottled pinkish alkali granite.			146	<0.01									
							147	0.02									
90.6	90.95	0.35	100	Grades into thoroughly bleached granite. Complete feldspathisation?			148	0.01									
							149	0.01									

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION 657071 FORM.
90.95	98.9	7.95	100	Grades sharply back to grey-white mottled alkali granite with disseminated dark green phlogopite and blotchy alteration. Minor quartz veinlets at 0° CA forming sinuous wavy veinlets up to 3-5mm wide. Minor pervasive sericite alteration. Trace molybdenite.
98.9	100.2	1.3	100	Zone without disseminated green phlogopite. White grey mottled alkali granite. Blotchy grey alteration with sericite.
100.2	101.9	1.7	100	Re-appearance of dark green phlogopite.
101.9	103.6	1.7	100	White grey alkali granite without dark green phlogopite. Minor sericite alteration. Disseminated dark grains of cassiterite.
103.6	105.5	1.9	100	Zone with limonite on joints. Minor but increasing blotchy alteration.
105.5	106.4	0.9	100	Variable with some zones completely with greenish alteration in otherwise blotchy alkali granite.
106.4	106.52	0.12	100	Zone of dark grey to black green greisen. Gradational but generally sharp boundaries. Dark biotite very common.
106.52	109.8	3.28	100	Back to monotonous mottled green and white sericitised alkali granite.
109.8	124.4	14.6	100	Zone of monotonous light pink to white bleached alkali granite with very rare disseminated micas (light brown). Few clayey joints. Strongly altered (albitised?) granite. Slight sericite.
124.4	127.4	3.0	100	Grades into a more normal, less altered granitic texture. Grey to pink with zones of grey green mottling. Disseminated dark green mica and trace molybdenite.
127.4	128.4	1.0	100	Grades into light pink white, thoroughly altered (albitised?) bleached granite as before.
128.4	129.1	0.7	100	Grades back into more normal less altered granite with mottled texture.
129.1	151.0	21.9	100	Into normal slightly altered granite. Medium grained equigranular alkali granite with very minor zones of lime green alteration and several minor zones of mottling.
151.0	153.2	2.2	100	Grades into mottled altered zone without dark mica.

FROM	TO	% Sn. TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO_3
149	150	<0.01									
	151	"									
	152	"									
	153	"									
	154	"									
	155	"									
	156	"									
	157	"									
	158	"									
	159	"									
	160	"									
	161	"									
	162	"									
	163	"									
	164	"									
	165	"									
	166	"									
	167	"									
	168	"									
	169	"									
	170	"									
	171	"									
	172	"									
	173	"									
	174	"									
	175	"									
	176	"									
	177	"									
	178	"									
	179	"									
	180	"									
	181	"									
	182	"									
	183	"									
	184	"									
	185	"									
	186	"	Sn Assays by Mines Department, Launceston (XRF)								
			* Cu, Zn, Mo, Ag, WO_3 assays by Renison.								

LOGGED BY . AFR

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION 657072	FORM.	% Sn. FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO_3
153.2	155.5	2.3	100	Grades into pink-orange monotonous altered granite, still with granitic fabric.													
155.5	156.3	0.8	100	Increase in pervasive orange brown alteration. Gradual loss of granitic texture.													
156.3	160.2	3.9	100	Intensely bleached (albitised?) altered granitic rock.													
160.2	160.7	0.5	100	Slight re-appearance of dark mica and granitic texture.													
160.7	176.8	16.1	100	Weak granitic texture. Light green, pink altered granite with minor sericite. No dark primary micas.													
176.8	176.9	0.1	100	Massive quartz vein.													
176.9	179.35	2.45	100	Pinkish alkali granite (altered), with narrow veins and bands of dark mica. 30cm zone of absorbed argillised, very altered P.A.													
179.35	179.5	0.15	100	Pink feldspar, pegmatite?													
179.5	191.2	11.7	100	Complex zone of altered pink alkali granite and fragments of argillised P.A. with black biotite. Zone of P.A. xenoliths.													
191.2	201.0	9.8	100	Pink-grey alkali granite with rare xenoliths of altered, argillised P.A. to 196m. Slight alteration to 195m, then less altered with granitic texture, and overall pink colour.													
				END OF HOLE 201m													



DRILL HOLE DATA

BT 146 0-43m Poimena Adamellite
(42.5 percussion) 43-45m Pegmatite
45-96.2 Phyric granite - either Poimena Adamellite (?) or Alkali Granite(?)

BT 147 0-86m Poimena Adamellite
(34.0 percussion) 86-115.55m Alkali Granite

BT 148 0-103.7m Poimena Adamellite
(52.0 percussion)

BT 149 0-100m Poimena Adamellite
(100.0 percussion)

BT 150 0-115m Poimena Adamellite
(73.0 percussion)

BT 151 0-101.9m Poimena Adamellite
(43.0 percussion)

BT 152 0-99.3m Poimena Adamellite
(64.0 percussion)

BT 153 0-94m Poimena Adamellite
(94.0 percussion)

BT 154 0-102m Poimena Adamellite
(25.0 percussion)

BT 155 0-99.5m Poimena Adamellite
(13.0 percussion)

BT 156 0-93.3m Poimena Adamellite
(25.0 percussion)

BT 157 0-108m Poimena Adamellite
(17.0 percussion)

BT 158 0-100.35m Poimena Adamellite
(10.0 percussion)

BT 159 0-99.2m Poimena Adamellite
(9.0 percussion)

BT 160 0-99.10m Poimena Adamellite
(30.0 percussion)

BT 161 0-99.6m Poimena Adamellite
(31.0 percussion)

BT 162 0-97.5m Poimena Adamellite
(10.0 percussion)

BT 163 0-88m Poimena Adamellite
(25.0 percussion) 88-113.7m Alkali Granite

BT 164 0-99.5m Poimena Adamellite
(26.0 percussion)

BT 165 0-38 Poimena Adamellite
(43.0 percussion)
38-99.6m Alkali Granite

NOTE: GEOLOGICAL INTERPRETATION ON THIS PLAN NOW SUPERSEDED (NOV. 1982) SHOWN FOR COMPARISON WITH AMENDED INTERPRETATION (FIGURES 9, 10, etc.) AND TO ILLUSTRATE THE JUSTIFICATION FOR DRILLING THE NORTH ANCHOR HOLES.

LEGEND

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

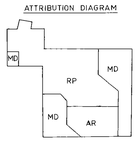
BLUE TIER COMPOSITE BATHOLITH

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
- Dip of granite contact
- Interpreted geological contact
- Photo-lineament
- Old Workings
- 75N — Cut Grid Line
- Vehicle Track
- Sealed Road
- Licence Boundary
- ● BT 151 Completed drillhole

657073

ATTRIBUTION DIAGRAM



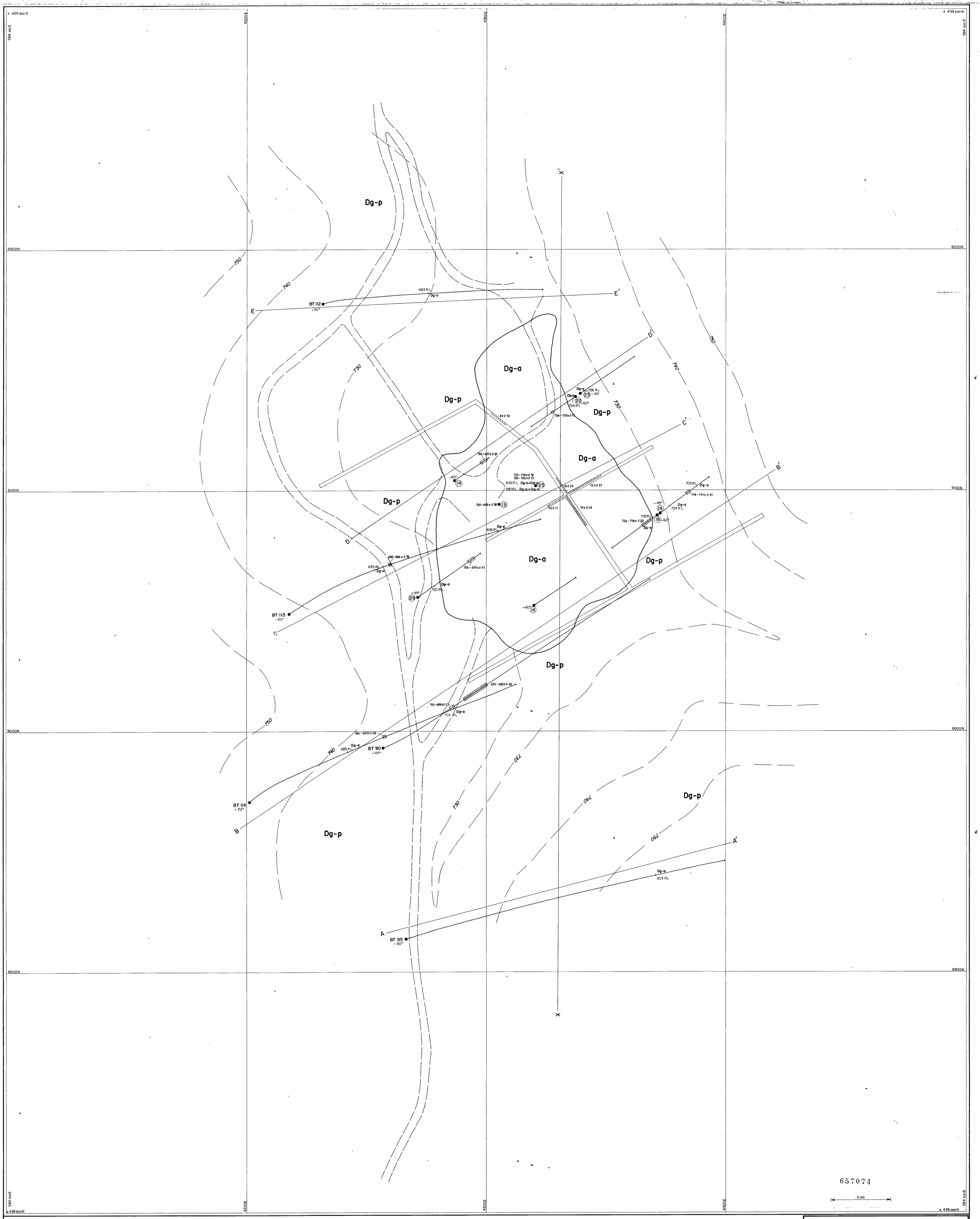
RP MAPPING BY R Pottock (contract geologist)
AR A Ross
MD Mines Department (1 50000 mapping)

RENISON LIMITED 82-1858

BLUE TIER AREA
DRILL HOLE LOCALITY PLAN

GEOLOGIST	PAR/AJC	SCALE 1:20,000 METRES
DRAUGHTSMAN	TGDS/SJF	400 0 400 800
DATE	APRIL 1982	
REVISIONS		8 cm — FIGURE 2

1383



Sn

ASSAY DATA AT 0·1% Sn CUT OFF

Drill Holes

Trench

BT 110 -50° 700-694x 0 17 — RENISON DRILL HOLES

22 -60° 702-701x 0·3

8x0 25

MT. LYELL (1906-07)

ROAD

740 — TOPOGRAPHIC CONTOUR (10m. interval)

Dg-p / Dg-a — 700 R L — CONTACT
– Surface
– Drill Hole

NOTE: OPEN CUTS WITHIN MOON MINE WORKINGS NOT SHOWN.

GN MN 14 2°

1 | 2 MOON MINE AREA | 3 | 4

1:5000 Series

GOLD FIELDS EXPLORATION PTY. LIMITED

82-1888

MOON MINE AREA

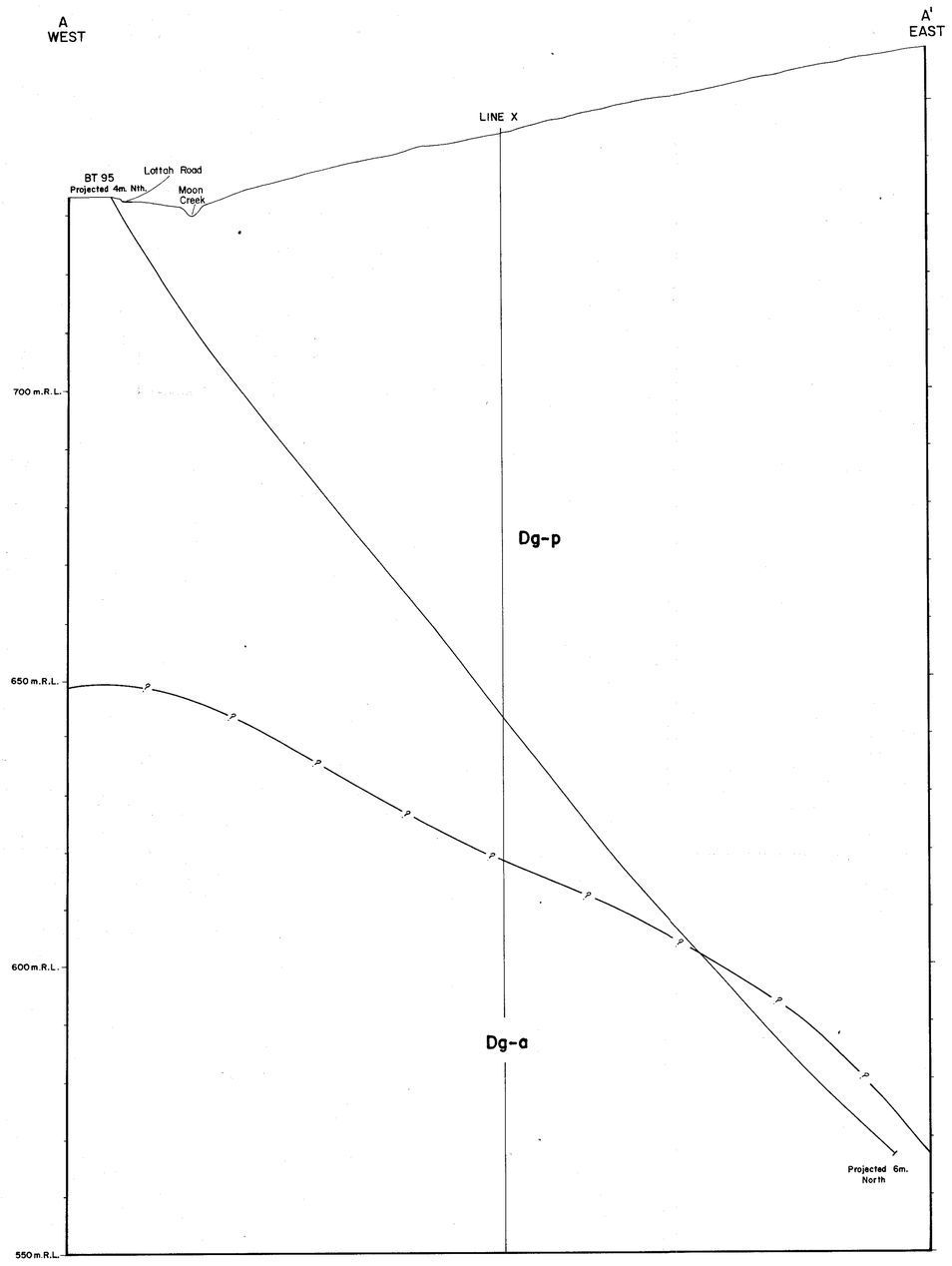
INTERPRETATIVE GEOLOGY AND DRILL HOLES

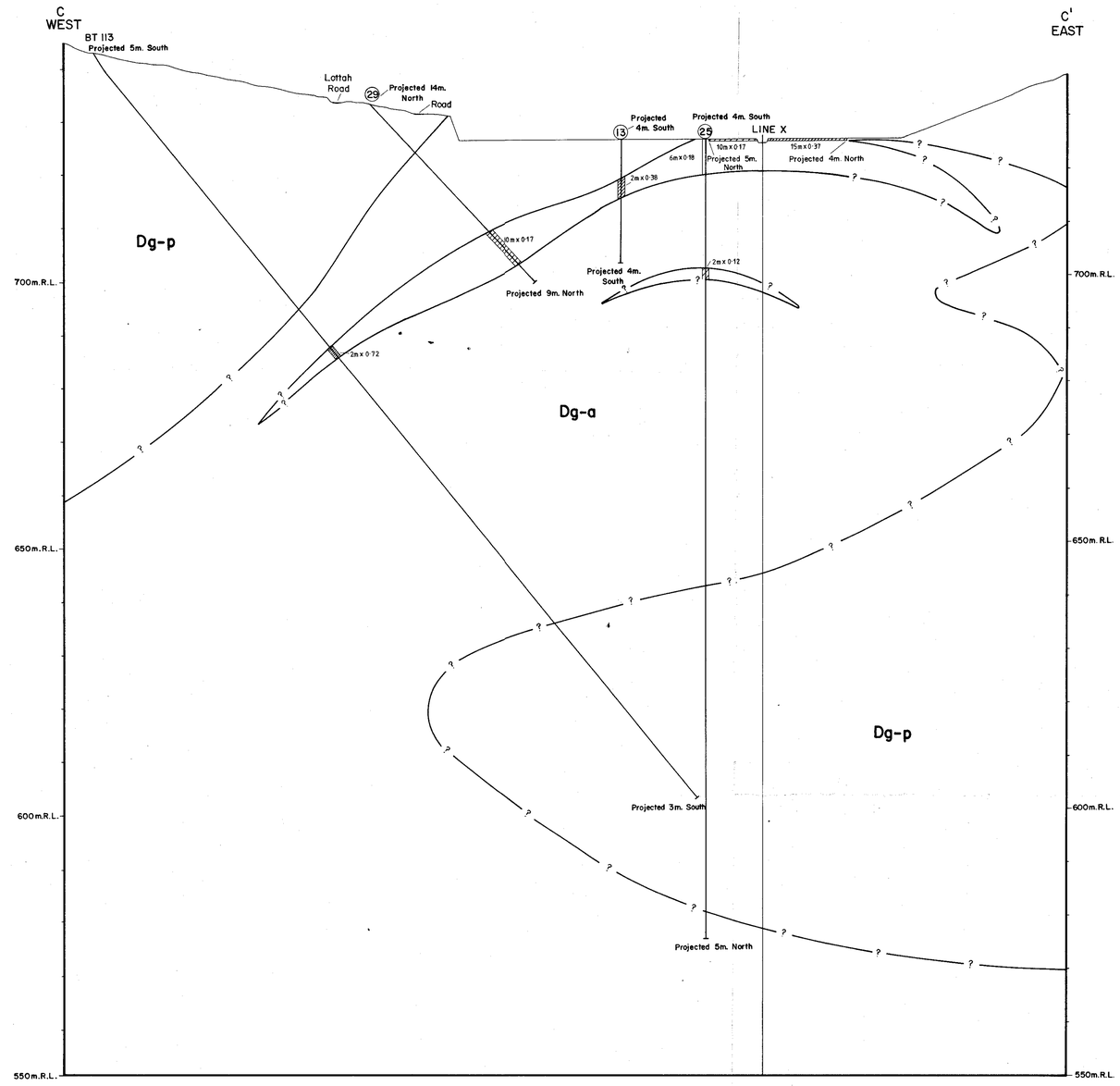
DRAWN BY	A.J.C.
DRAFTSMAN	S.J.F
DATE	Nov. 82
REVISIONS	
FILE NO.	

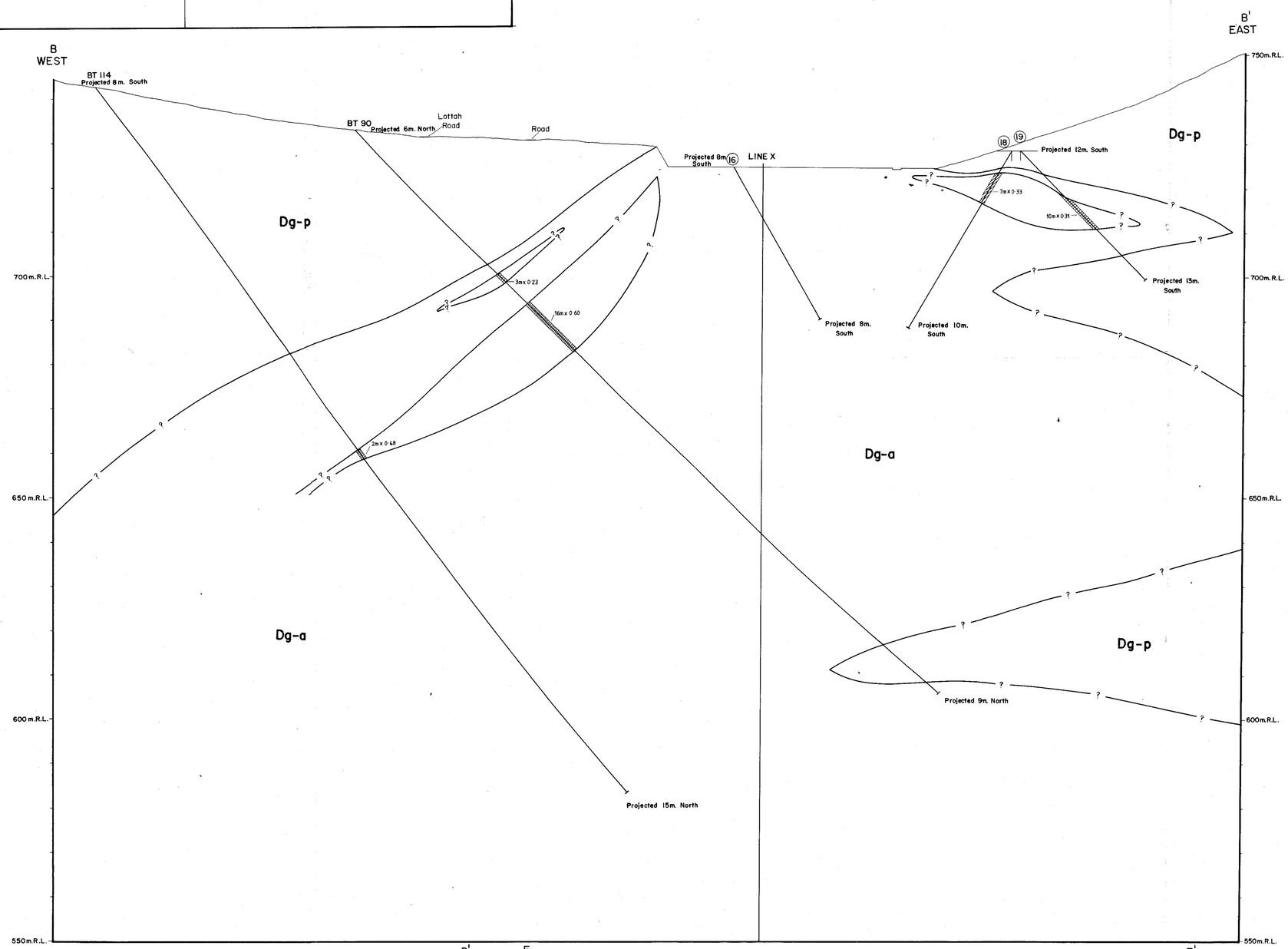
SCALE 1:500 — 10 5 0 5 10 15 20 METRES

FIGURE 3

1384







657075

GOLD FIELDS EXPLORATION PTY. LIMITED

82-1888

MOON MINE AREA

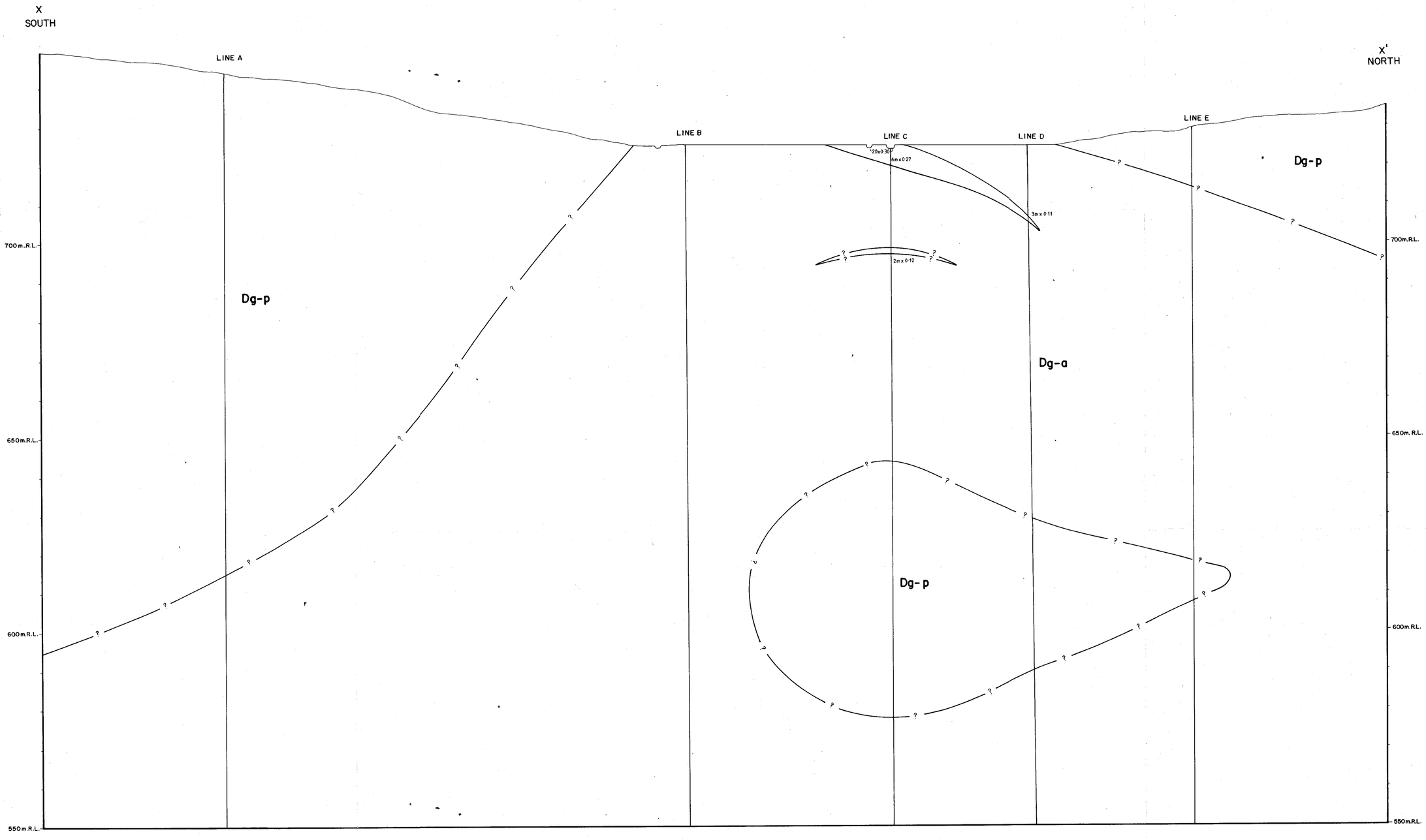
CROSS SECTIONS

5 cm

DRAWN BY	: A.J.C.
DRAFTSMAN	: S.J.F.
DATE	: Dec.82
REVISIONS	:
FILE NO.	

SCALE 1:500 — METRES

FIGURE 4



657076

GOLD FIELDS EXPLORATION PTY. LIMITED

82-1858

MOON MINE AREA

LONGITUDINAL SECTION

5 cm

DRAWN BY	A.J.C.
DRAFTSMAN	S.J.F.
DATE	Dec.,82
REVISIONS	
FILE NO.	

SCALE 1:500 — 10 5 0 5 10 15 20 METRES

FIGURE 5

1384

STRUCTURE CONTOURS AT THE TOP OF THE ALKALI GRANITE (640)

EASTERN LIMIT OF THE UPPER AND LOWER POIMENA GRANITE PROJECTIONS

Sn
ASSAY DATA AT 0·1% Sn CUT OFF

BT 110 — RENISON DRILL HOLES

Drill Holes — MT. LYELL (1906-07)

Trench — MT. LYELL (1906-07)

ROAD

TOPOGRAPHIC CONTOUR (10m. interval)

CONTACT
– Surface
– Drill Hole

NOTE: OPEN CUTS WITHIN MOON MINE WORKINGS NOT SHOWN.

DIRECTION OF MAXIMUM POTENTIAL FOR UNEXPOSED RIDGE OR DOME OF ALKALI GRANITE.

PROPOSED DRILL HOLE

G.N. M.N. 14·2°

1 2 3 4 — MOON MINE AREA

1:5000 Series

GOLD FIELDS EXPLORATION PTY. LIMITED

82-1888

MOON MINE AREA

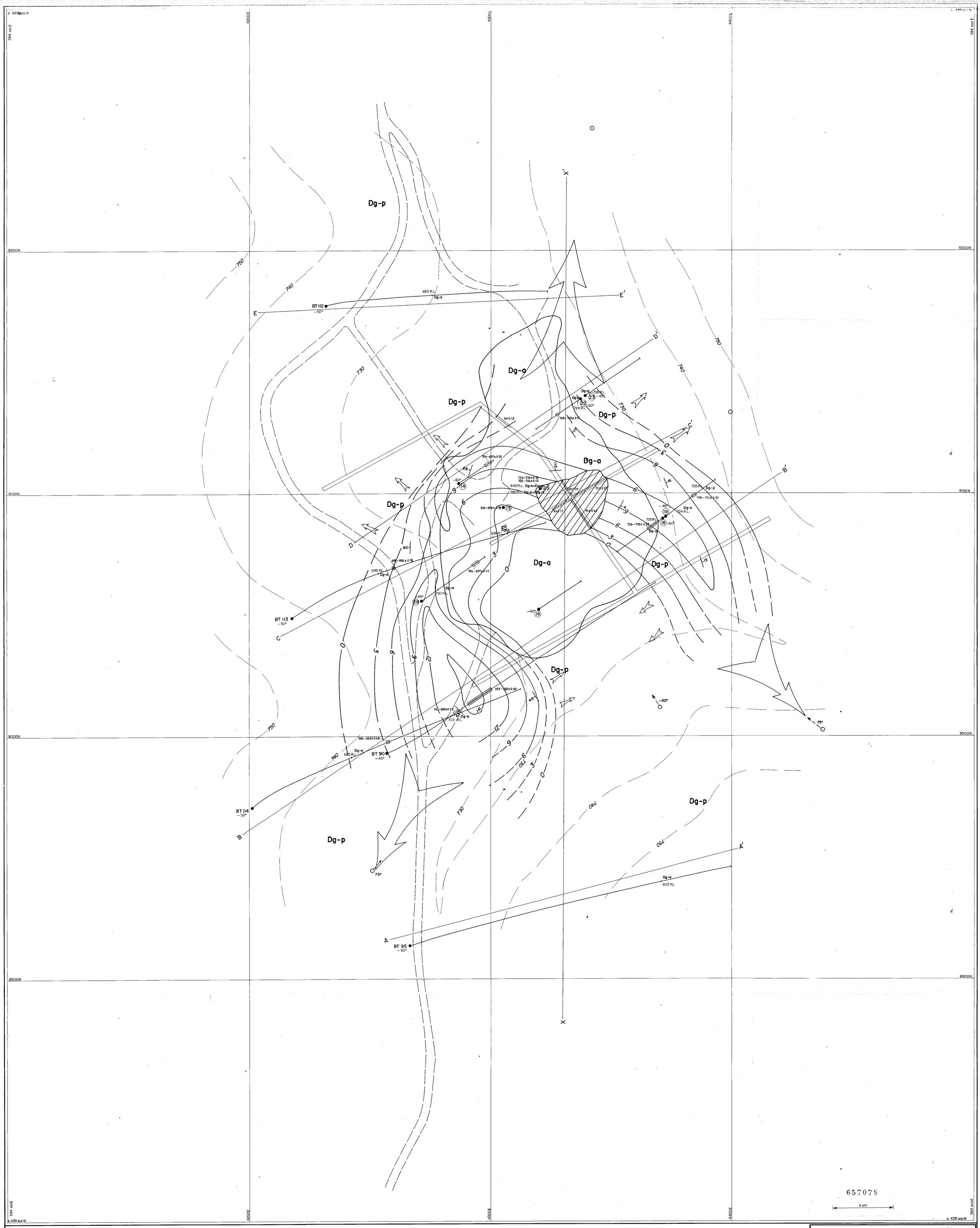
STRUCTURE CONTOURS AT THE TOP OF THE ALKALI GRANITE & PROPOSED DRILL HOLES

DRAWN BY	A.J.C.
DRAFTSMAN	S.J.F
DATE	Nov.82
REVISIONS	
FILE NO.	

SCALE 1:500 — 10 5 0 5 10 15 20 METRES

FIGURE 6

1385



THICKNESS CONTOURS AT 3m. INTERVALS

INTERPRETED ATTITUDE OF THE MINERALISED ZONE

MINED OUT TO A MAXIMUM DEPTH OF 4m.

POSSIBLE MAJOR EXTENSIONS OF MINERALISATION

POSSIBLE LIMITED EXTENSIONS OF MINERALISATION

Sn
ASSAY DATA AT 0·1% Sn CUT OFF

BT 110 -50° 700-694x 0·17 — RENISON DRILL HOLES

Drill Holes (22) -60° 702-701x 0·3

Trench 8x0·25 — MT. LYELL (1906-07)

ROAD

740 — TOPOGRAPHIC CONTOUR (10m. interval)

Dg-p / Dg-a 700 R.L. — CONTACT – Surface – Drill Hole

NOTE: OPEN CUTS WITHIN MOON MINE WORKINGS NOT SHOWN.

PROPOSED DRILL HOLE

G.N. M.N. 14·2°

1 2 3 4 — MOON MINE AREA

1:5000 Series

GOLD FIELDS EXPLORATION PTY. LIMITED

E2 - 1988

MOON MINE AREA

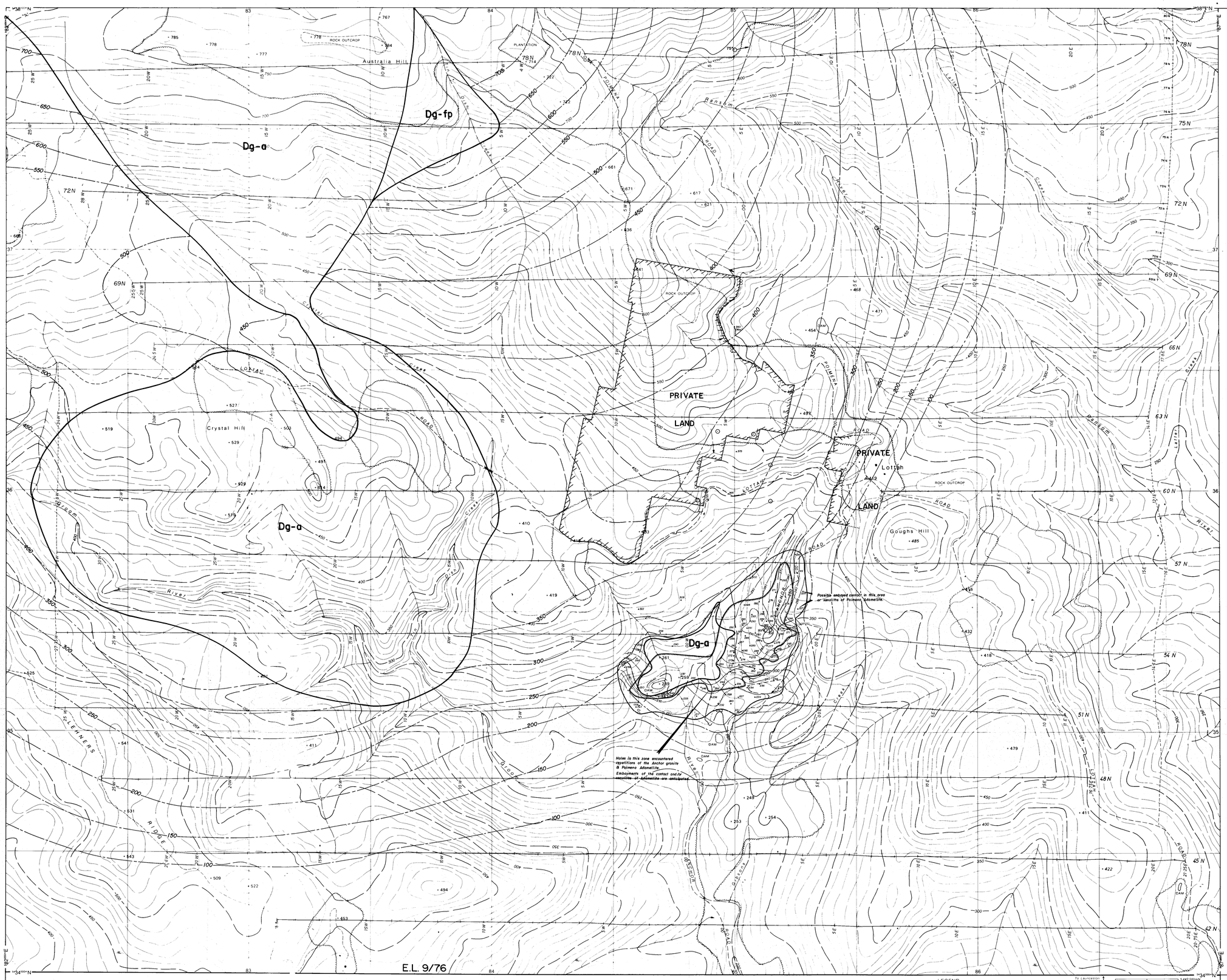
ISOPACH MAP OF THE MAJOR MINERALISED ZONE & PROPOSED DRILL HOLES

DRAWN BY	A.J.C.
DRAFTSMAN	S.J.F
DATE	Nov.82
REVISIONS	
FILE NO.	

SCALE 1:500 — 10 5 0 5 10 15 20 METRES

FIGURE 7

1385



GEOLOGICAL CONTACT

LIMIT OF ANCHOR DRILLING ENCOUNTERING ALKALI GRANITE

MINERALISATION DEFINED BY ABOVE DRILLING

PRIVATE LAND BOUNDARY

PROPOSED DRILL HOLE

STRUCTURAL CONTOURS AT THE TOP OF THE ALKALI GRANITE.

POTENTIAL TONNAGE GUIDE

EACH SQUARE REPRESENTS 1,000,000 TONNES AT THE INDICATED THICKNESS ON THIS PLAN.

20m Thick

15m Thick

10m Thick

657079

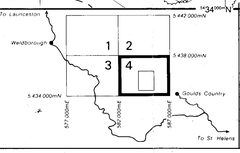
5 cm

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 denser vegetation cover.
Timber Boundary		Datum	Horizontal: Australian Map Grid; Vertical: Australian Height Datum
(P.D.)	Position Doubtful	Grid Interval	500 metres
(I.D.)	Interpretation Doubtful		

Mapping photogrammetrically compiled by Associated Aerial Surveys Pty. Ltd. Compilation date November 1978 from aerial photographs dated 12.12.1977.



RENISON LIMITED

82/168%

BLUE TIER AREA

STRUCTURAL CONTOURS AT THE TOP OF THE ALKALI GRANITE, ANCHOR DRILLING RESULTS AND PROPOSED DRILL HOLES

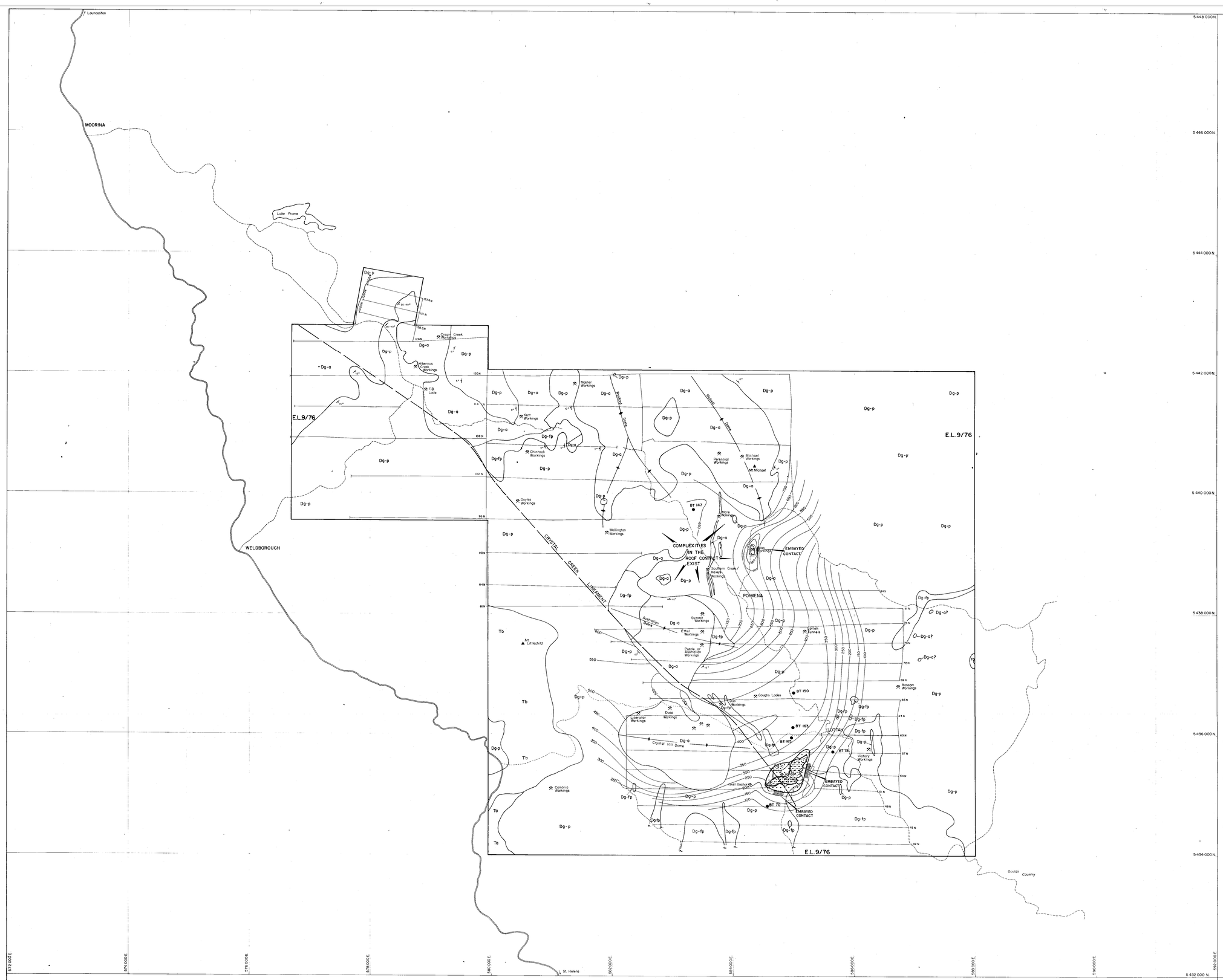
GEOLOGIST	A.J.C.
DRAUGHTSMAN	S.J.F.
DATE	Dec. 1982
REVISIONS	

SCALE 1:5,000 METRES

100 50 0 100 200

FIGURE 8

1335



BT 164 DRILL HOLE

200 STRUCTURAL CONTOURS AT THE TOP OF THE ALKALI GRANITE

ANCHOR DRILLED AREA

MINERALISED ZONE DELINEATED BY ABOVE DRILLING

LEGEND

Quaternary	Qa	Alluvium, colluvium
Tertiary	Tk	Gravel, sand, clay
	Tb	Basalt
	Tc	Agglomerate and tuff
Silurio-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

Dip of granite contact

Interpreted geological contact

Photo-lineament

Old Workings

Cut Grid Line

Vehicle Track

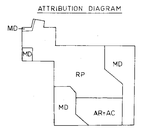
Sealed Road

Licence Boundary

657080

5 cm

ATTRIBUTION DIAGRAM



MAPPING BY
RP R Pollock (contract geologist)
AR A Ross
MD Mines Department (1:50000 mapping)
AC A CARTWRIGHT

RENISON LIMITED

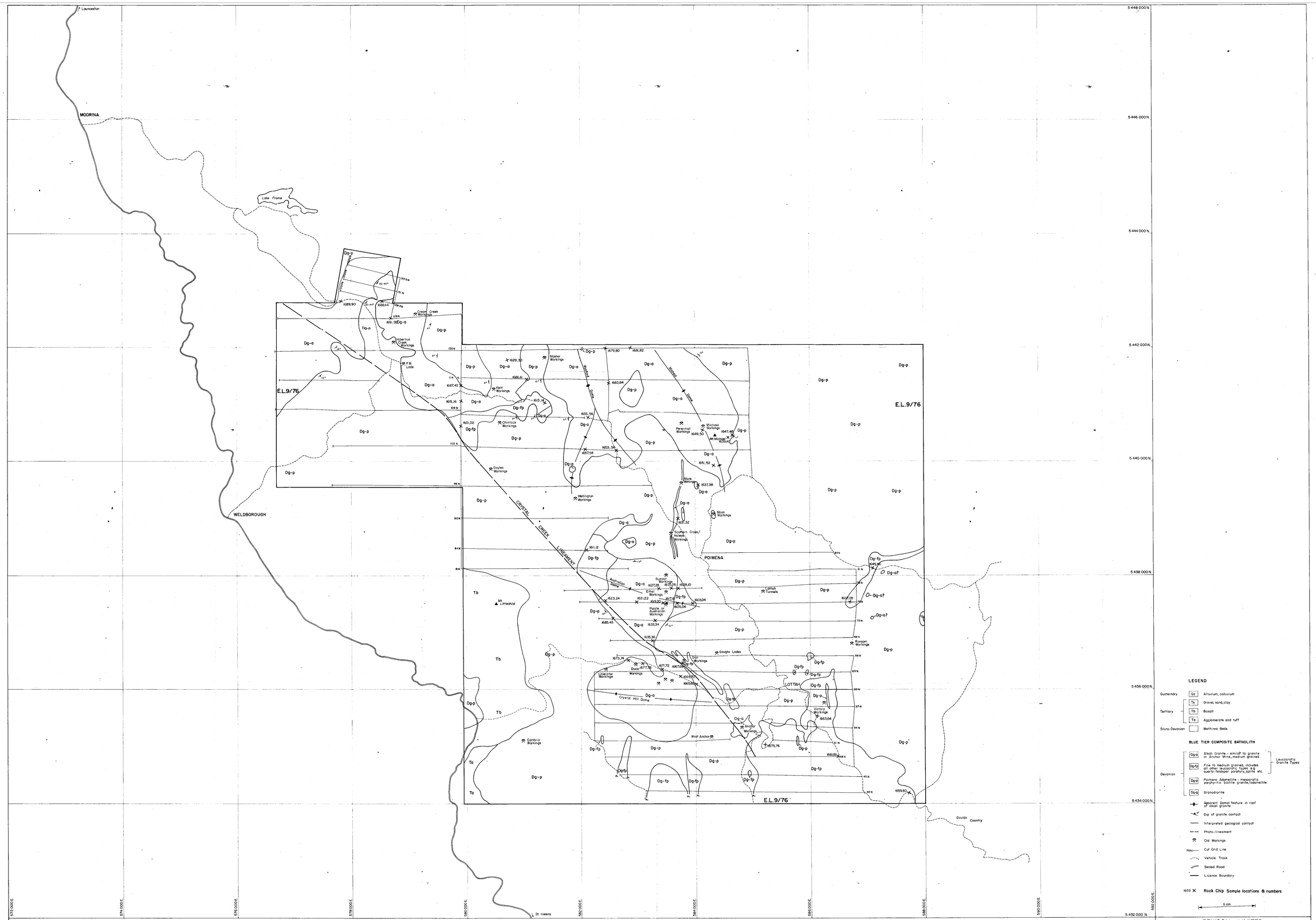
82-1868

BLUE TIER AREA

STRUCTURAL CONTOURS AT THE TOP OF THE ALKALI GRANITE AND ANCHOR DRILLING RESULTS

GEOLOGIST	P.A.R./A.J.C.	SCALE 1:20,000 METRES
DRAUGHTSMAN	T.G.D.S./S.J.F.	400 0 400 800
DATE	DEC. 1982	
REVISIONS	A.J.C. (Nov. 1982)	FIGURE 9

1386



LEGEND

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

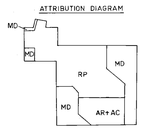
BLUE TIER COMPOSITE BATHOLITH

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-q	Granodiorite	

- Apparent Domal feature in roof of alkali granite
- Dip of granite contact
- Interpreted geological contact
- Photo-lineament
- Old Workings
- 75N — Cut Grid Line
- Vehicle Track
- Sealed Road
- Licence Boundary
- 1659 × Rock Chip Sample locations & numbers

5 cm

ATTRIBUTION DIAGRAM



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

RENISON LIMITED

52-1665

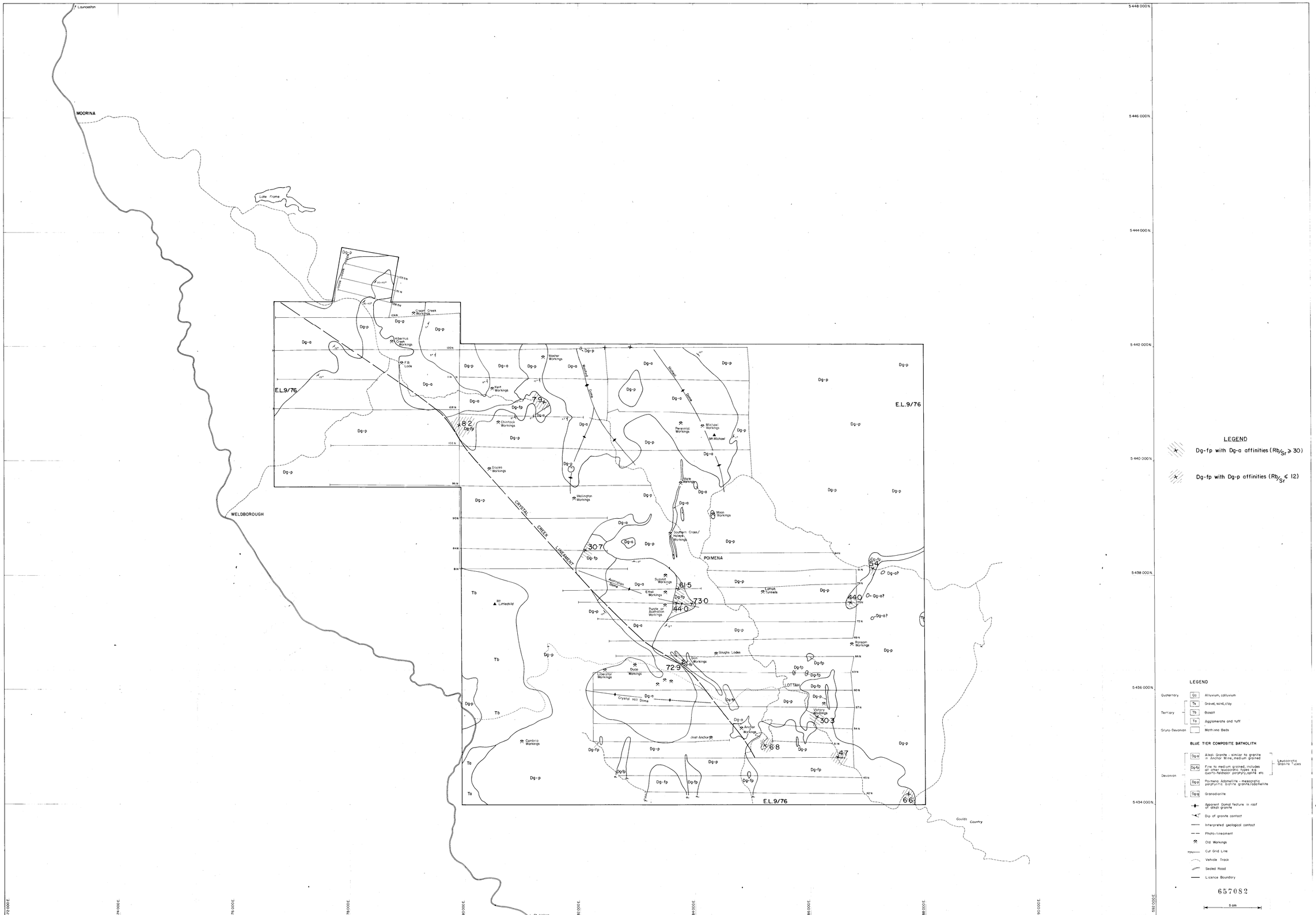
BLUE TIER AREA
INTERPRETATIVE GEOLOGY & ROCK CHIP SAMPLES

GEOLOGIST	P.A.R.	SCALE 1:20,000 METRES	
DRAUGHTSMAN	T.G.D.S./S.F.	400 0 400 800	
DATE	APRIL 1982		
REVISIONS	A.J.C.	DRAWING No.	

FIGURE 10

657081

/387



RENISON LIMITED

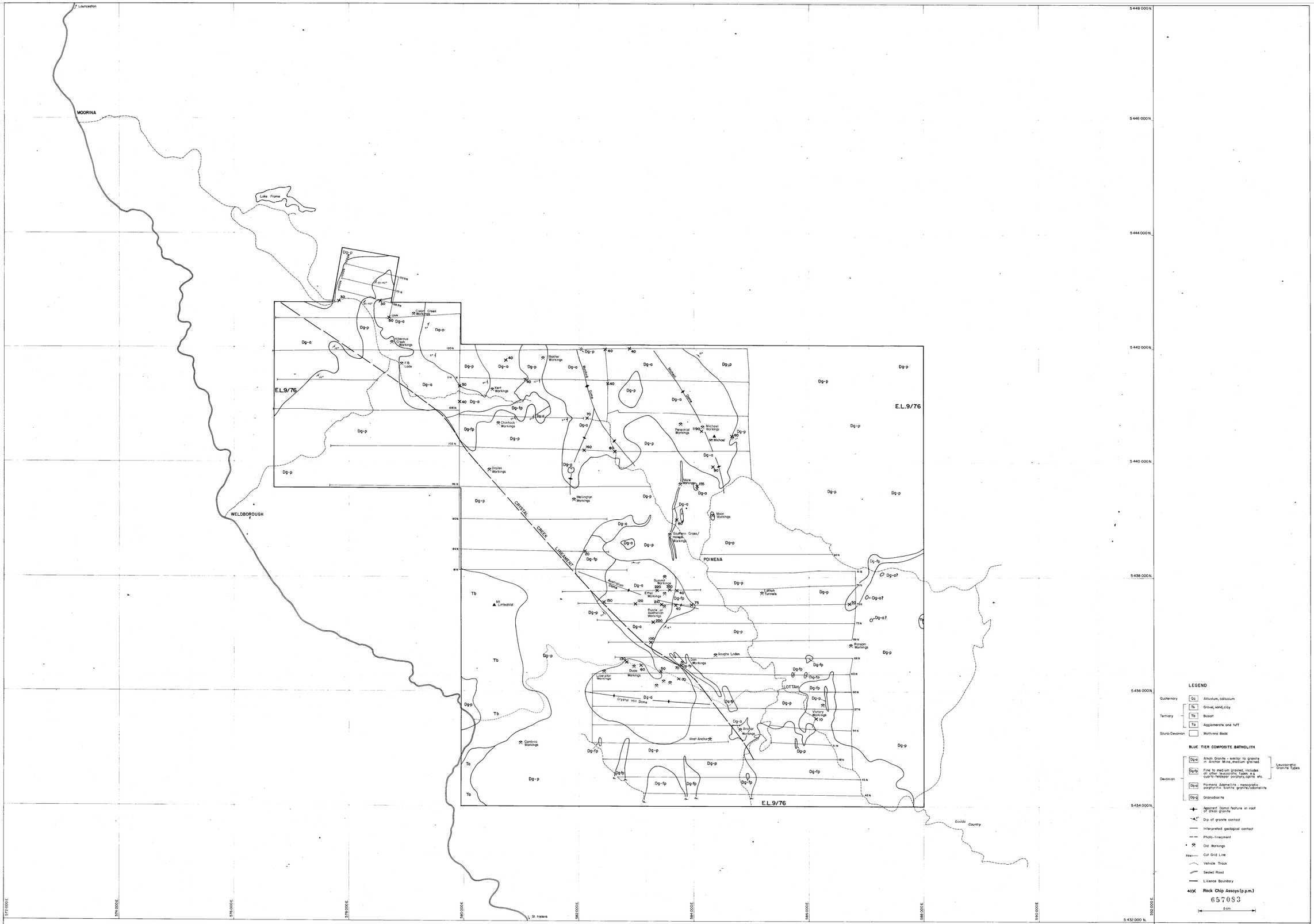
82-1888

BLUE TIER AREA

Rb/Sr RATIOS OF Dg-fp ROCK SAMPLES

GEOLOGIST	P.A.R./A.J.C.	SCALE 1:20,000 METRES
DRAUGHTSMAN	T.G.D.S./S.J.F.	400 0 400 800
DATE	DEC., 1982	
REVISIONS	A.J.C. (NOV., 1982)	FIGURE 12

1388



LEGEND

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

BLUE TIER COMPOSITE BATHOLITH

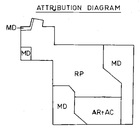
Devonian	Dg-a	Alkali Granite - similar to granite in Anchor Mine, medium grained	Leucocratic Granite Types
	Dg-fp	Fine to medium grained, includes all other leucocratic types e.g. quartz-feldspar porphyry, aplite etc.	
	Dg-p	Poimena Adamellite - melanocratic porphyritic biotite granite/adamellite	
	Dg-g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

- Apparent Domal feature in roof of alkali granite
- Dip of granite contact
- Interpreted geological contact
- Photo-lineament
- Old Workings
- 7550 Cut Grid Line
- Vehicle Track
- Sealed Road
- Licence Boundary
- 40X Rock Chip Assays (p.p.m.)

657083

8 cm

ATTRIBUTION DIAGRAM



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

RENISON LIMITED

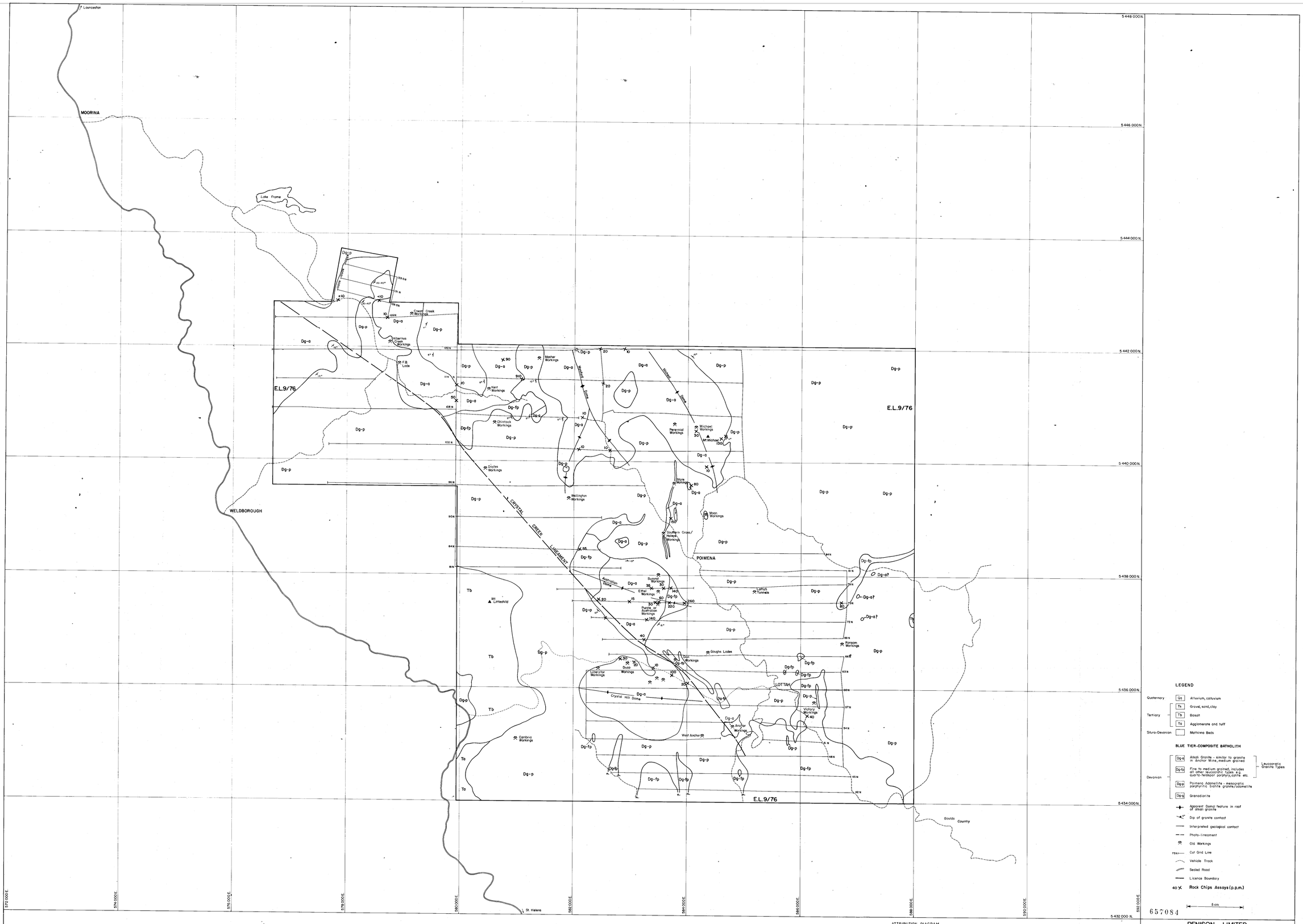
52-1888

BLUE TIER AREA
TIN GEOCHEMISTRY FROM ROCK CHIPS

GEOLOGIST	P.A.R./S.J.C.	SCALE 1:20,000 METRES
DRAUGHTSMAN	T.G.D.S./S.J.E.	400 0 400 800
DATE	APRIL 1982	
REVISIONS	A.J.C.	DRAWING No.

FIGURE 13

1389



LEGEND

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

BLUE TIER-COMPOSITE BATHOLITH

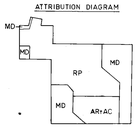
Devonian	Dg-a	Alkali Granite – similar to granite in Anchor Mine, medium grained (Leucocratic Granite Types)
	Dg-fp	Fine to medium grained, includes all other leucocratic types, e.g. quartz-feldspar porphyry, aplite etc. (Leucocratic Granite Types)
	Dg-p	Poimena Adamellite – mesocratic porphyritic biotite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

- Apparent Domal feature in roof of alkali granite
- Dip of granite contact
- Interpreted geological contact
- Photo-lineament
- Old Workings
- 75N — Cut Grid Line
- Vehicle Track
- Sealed Road
- Licence Boundary
- 40 × Rock Chips Assays (p.p.m.)

5 cm

657084

ATTRIBUTION DIAGRAM



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

RENISON LIMITED

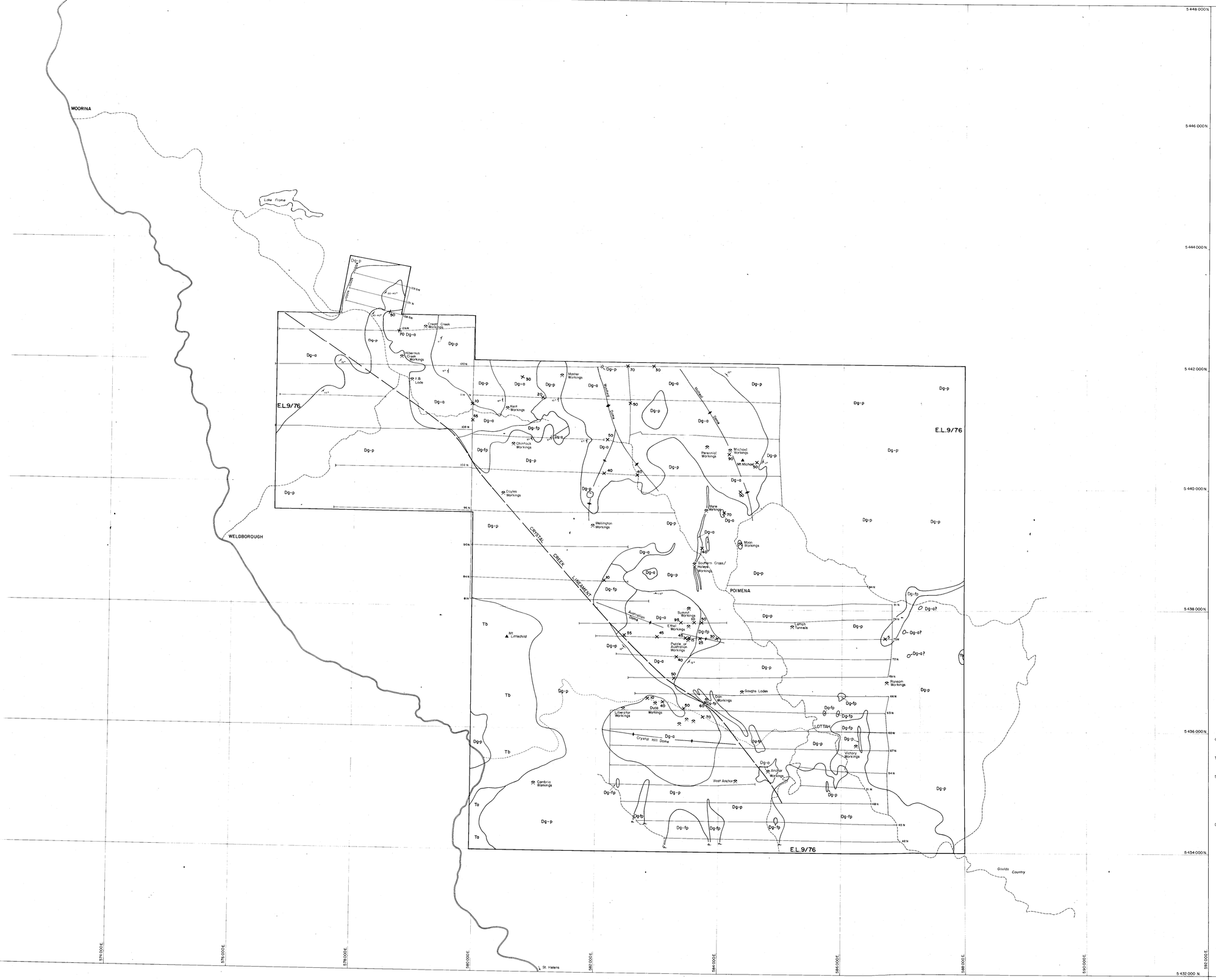
22-1975

BLUE TIER AREA

COPPER GEOCHEMISTRY FROM ROCK CHIPS

GEOLOGIST	: P.A.R./A.J.C.	SCALE 1:20,000 METRES
DRAUGHTSMAN	: T.G.D.S./S.J.K.	400 0 400 800
DATE	: APRIL 1982	
REVISIONS	: A.J.C.	DRAWING No.

FIGURE 14



RENISON LIMITED

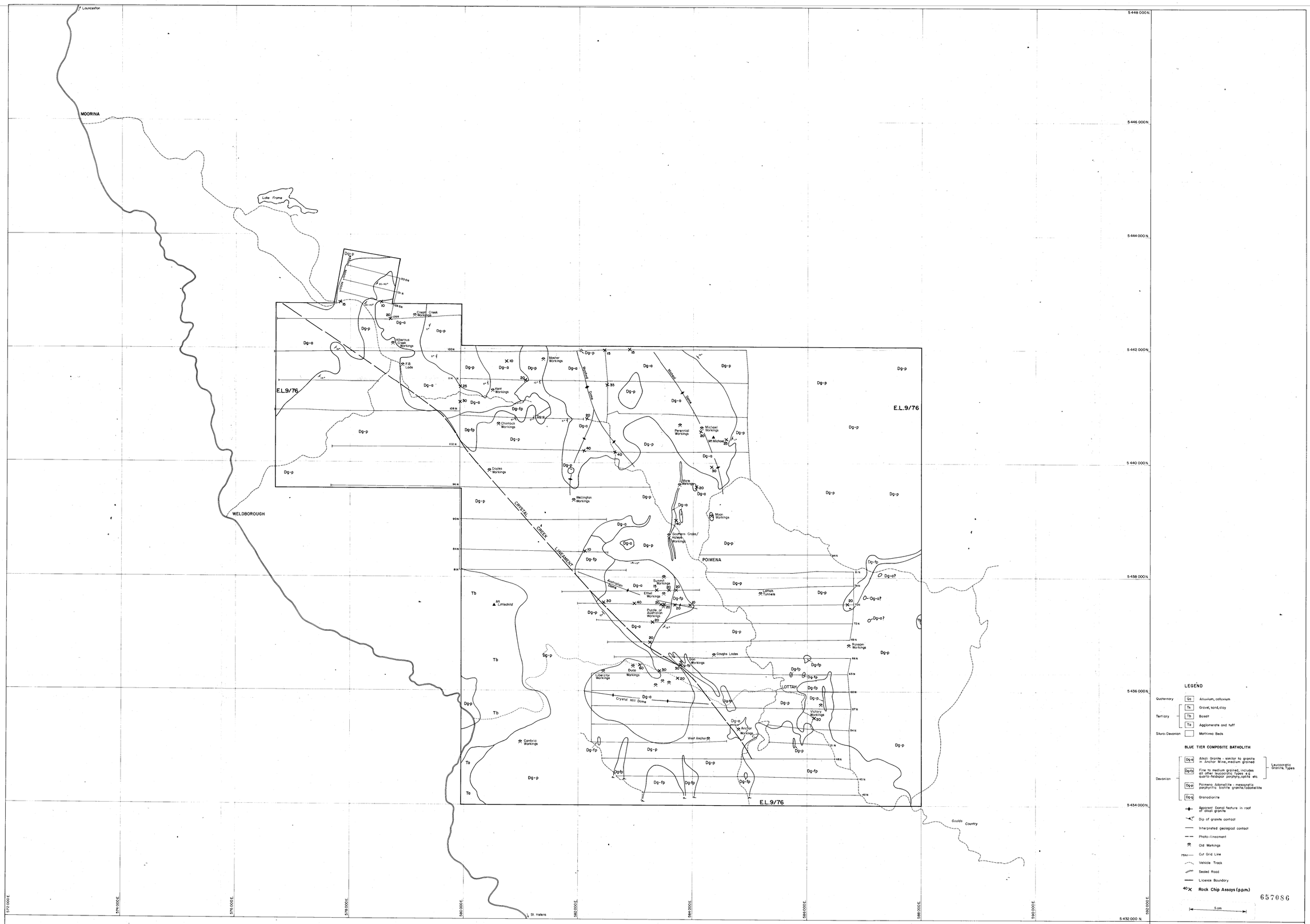
52-1555

657085 BLUE TIER AREA

ZINC GEOCHEMISTRY FROM ROCK CHIPS

GEOLOGIST	P.A.R./A.J.C.	SCALE 1:20,000 METRES
DRAUGHTSMAN	T.G.D.S./S.J.F.	400 0 400 800
DATE	APRIL 1982	
REVISIONS	A.J.C.	DRAWING No.

FIGURE 15



LEGEND

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

BLUE TIER COMPOSITE BATHOLITH

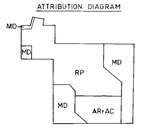
Devonian	Dg-a	Alkali Granite - similar to granite in Anchor Mine, medium grained	Leucocratic Granite Types
	Dg-fp	Fine to medium grained, includes all other leucocratic types e.g. quartz-feldspar porphyry, aplite etc.	
	Dg-p	Poimena Adamellite - mesocratic porphyritic biotite granite/adamellite	
	Dg-q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

- Apparent Domal feature in roof of alkali granite
- Dip of granite contact
- Interpreted geological contact
- Photo-lineament
- Old Workings
- 7641 — Cut Grid Line
- Vehicle Track
- Sealed Road
- Licence Boundary
- 40 × Rock Chip Assays (p.p.m.)

5 cm

657086

ATTRIBUTION DIAGRAM



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

RENISON LIMITED

82-1886

BLUE TIER AREA
TUNGSTEN GEOCHEMISTRY FROM ROCK CHIPS

GEOLOGIST	P.A.R./A.J.C.	SCALE 1:20,000 METRES	
DRAUGHTSMAN	T.O.D.S./S.J.F.	400 0 400 800	
DATE	APRIL 1982		
REVISIONS	A.J.C.	DRAWING No.	

FIGURE 16

1392

657087

BLUE TIER DRILL LOGS

HOLES : BT 146 →

Diamond Drill Hole Plot Geological Symbols:

- Poimena Adamellite
- Poimena Adamellite – Weathered
- Fine Grained Poimena Adamellite (Dg-fp)
- Pegmatite
- Alkali Granite
- Alkali Granite – Altered

~~SEEINARS~~

657088

ANCHOR / BLUE TIER

DRILL CORE

OPEN FILE

82-1888

PROGRESS REPORT – EL 9/76
GOLDFIELDS – A J CARTWRIGHT

657089 69268

Enquiries: N.J. Turner
Phone: 33 8363
Your ref:
Our file: NJT34.92:JH

23 JUL 1992

Mr C Cannard
Chief Geologist
Renison Ltd
ZEEHAN TAS 7469

Dear Sir,

BLUE TIER/ANCHOR MINE DRILL CORE

The Department of Mines core store at 93 Mornington Drive will accept the 18 pallets (360 trays) of diamond drill core from Blue Tier/Anchor Mine that are held in the Renison Ltd core store. Please do not send the 3 pallets of assay rejects.

Kindly notify our core store supervisor, Mike Jacobson, of your expected date and time of delivery of the core. Mike can be contacted directly on (002) 33 8406 or by leaving a message with our Receptionist on (002) 33 8333.

Yours faithfully,

M.R. Hargreaves
DEPUTY SECRETARY

cc J.S.

Records

Please send a copy of this letter to Mike Jacobson DONE BB

657090

DEPARTMENT OF MINES

INTERNAL MEMORANDUM

Inquiries: N.J. Turner
Phone: 33 8363
Your ref:
Our file: NJT28.92:JH

MINES
File Ref. 69268
17 JUN 1992
Doc. Ref. RE6258

Action Officer	Initials
DD	DD
Dep S	[illegible]
NT.	N.J.T.
Resubmit to	Date

17 JUN 1992

Mr M R Hargreaves
Deputy Secretary
ROSNY PARK

BLUE TIER/ANCHOR MINE DRILLING BY RENISON LTD, GOLDFIELDS EXPL.

Colin Cannard of Renison Ltd wishes to dispose of the Blue Tier/Anchor Mine diamond drill core that is held in the core store at Renison mine. There are 360 trays of core stored on 18 pallets of 20 trays each. There are also three pallets of assay rejects.

We already hold a substantial proportion of the Blue Tier/Anchor Mine core which we received from RGC, and we have the necessary capacity to store the additional core from Renison Ltd. At this stage there has been no editing of any of the Blue Tier/Anchor Mine core.

To satisfactorily edit the Blue Tier/Anchor Mine core we will need to have all the available material to hand, Therefore, it is recommended that we accept the Renison Ltd core and store it until such time as it is necessary to edit the collection. We do not want the three pallets of assay rejects.

N.J. Turner

N.J. Turner
PROJECT GEOLOGIST

Forwarded through Dr D.McP. Duncan

Agreed. DMcPD.

Copies to Dr. M.P. McClenaghan
M Jacobson

OK but we must plan to edit the collection within 3 months of delivery mlr

657091

DEPARTMENT OF MINES

INTERNAL MEMORANDUM

Enquiries: N.J. Turner
Phone: 33 8363
Your ref:
Our file: NJT28.92:JH

Mr M R Hargreaves
Deputy Secretary
ROSNY PARK

BLUE TIER/ANCHOR MINE DRILLING BY RENISON LTD, GOLDFIELDS EXPL.

Colin Cannard of Renison Ltd wishes to dispose of the Blue Tier/Anchor Mine diamond drill core that is held in the core store at Renison mine. There are 360 trays of core stored on 18 pallets of 20 trays each. There are also three pallets of assay rejects.

We already hold a substantial proportion of the Blue Tier/Anchor Mine core which we received from RGC, and we have the necessary capacity to store the additional core from Renison Ltd. At this stage there has been no editing of any of the Blue Tier/Anchor Mine core.

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N.J. Turner
PROJECT GEOLOGIST

Forwarded through Dr D.McP. Duncan

c.c. Dr M P McClenaghan Rosny Park
Mr M Jacobson Mornington

NJT28A.92:JH

BLUE TIER/ANCHOR DRILLING BY RENISON LTD, GOLDFIELDS EXPL.

A. Hole numbers corresponding to core held in DOM store at 16 June 1992

B. Hole numbers corresponding to core apparently held in Renison Ltd Store at 16 June 1992

C. Other hole numbers

A	B	C
		BT1A
		BT1-21
BT22		
		BT23-33
BT34-35		
		BT36-39
	BT40-42	
BT43		
	BT44-49	
BT50		
	BT51-68	
	BT69-78	
	BT79-80	
BT81		
		?BT82-91
	BT92-94	
BT95		
	BT96	
BT97-111		
BT112-114		
		BT115-126
BT127-132		
		BT133-136
BT137-145		
		BT146-162
BT163		
		BT164
BT165		
BT166-176		

Mick McEown 16.6.92

Blue Tier / Anchor Drilling

Renison Ltd / Goldfields Exploration.

461101

Ore Reserves at Savage. — Mining Reserve.

Core at Anchor – stored outside

Anchor 736262 — Mark.

Royal George core — drilled HQ with 100% recov., sawn in half — stacked on pallets underground.

Logs, + assays, photos of core.

Anchor Mine — development core from the bodies being worked Approx 100 trays. — not on pallets.

Uc	Them.
1 ✓	1 ✓
2 ✓	21 ✓
1 ✓	11 ✓
1 ✓	4 ✓
1 ✓	9 ✓
1 ✓	18 ✓
15	10 ✓
3 ✓	2 ✓
6 ✓	5 ✓
9 ✓	12 ✓
1 ✓	4 ✓
1 ✓	17 ✓
11 ✓	1 ✓
53	115

sending their 1070 racks. if tall ie holds 29 vertically.

115 — Revision Mine Core Store.

Theoretical total 12080 m

Theoretical core boxes at 8m / box 1510 boxes

1070 — can be stacked on palletts

DOM store

29 trays / rack

16 racks / aisle of 1m.

~~16 racks per aisle~~

~~300~~

~~180~~

~~3180~~

$\boxed{\begin{array}{r} 29 \\ \times 16 \\ 29 \\ 16\ 5 \\ \hline 455 \end{array}}$ trays

per aisle

⇒ 2 aisles for 1000 trays.

657095

Jake

— wants to inspect — Phelan.

— if to be palletized — start from bottom of hole so tray no 1 is on top of stack.

18x20 360

447222 657096

Doris — Blue Tier

Held by them
X 124
From DORIS
~~BT 146-162~~
~~BT 164~~
~~BT 42~~
~~BT 115-126~~
~~BT 133-136~~
~~BT 79-80~~
~~BT 82-96~~
~~BT 69-78~~
~~BT 68-51~~
~~BT 49-40~~
~~BT 1A~~
~~BT 39-36~~
~~BT 33-23~~
~~BT 21-1~~

Rearranged
BT 1A
BT 1-21
BT 23-33
BT 36-39
BT 40-49 BT 42
BT 51-68
BT 69-78
BT 79-80
BT 82-96

~~BT 115-126~~
~~BT 133-136~~
~~BT 146-162~~
~~BT 164~~

Held by us
✓ FROM DORIS
~~BT 22~~
~~BT 34-35~~
~~BT 50~~
~~BT 81~~
~~BT 145-137~~
~~BT 132-127~~
~~BT 111-97~~
~~BT 43~~
~~BT 165~~
~~BT 163~~
~~BT 114-112~~
~~BT 95~~
~~BT 176-166~~

Rearranged

~~BT 22~~
~~BT 34-35~~
~~BT 43~~
~~BT 50~~
~~BT 81~~
~~BT 95~~
~~BT 97-111~~
~~BT 112-114~~
~~BT 127-132~~
~~BT 137-145~~
~~BT 163~~
BT 165
BT 166-176

Them	Us
BT 1A	
BT 1-21	
	BT 22
BT 23-33	
	BT 34-35
BT 36-39	
BT 40-49 (42)	(BT 43)
	BT 50
BT 51-68	
BT 69-78	
BT 79-80	
	BT 81
(*10 missing*)	
BT 92-96	(BT 95)
	BT 97-111
	BT 112-114
BT 115-126	
	BT 127-132
BT 133-136	BT 137-145
BT 146-162	
	BT 163
BT 164	
	BT 165
	BT 166-176
	53 holes

X Not held by DOM 1m trays can be stored
Probably in Rienison Mine Store 1070 can't be stored in racks

Total pink 12080m indicated

657097

REF NO	BOREHOLE NO	QUAD / ORGANISATION	SHEET / AMG REF	DRILLER	ACC	PURPOSE / DATE	PLAN / DEPTH	REPORT / DRILL	GEOPHYS	LOG LOCN	CORE	EL OR ML
2262	BLUE TIER 1A	, 33 ,	85154, 581000543000,	DOM		, MET 1/1968,		DDH ,	N	06	N	
3611	BLUE TIER ANCHOR M 39P	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 4/1966,	92m,	DDH ,	N	17	Y	
3612	BLUE TIER ANCHOR M 38II	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 3/1966,	170m,	DDH ,	N	17	Y	
3613	BLUE TIER ANCHOR M 37E	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 3/1966,	112m,	DDH ,	N	17	Y	
3614	BLUE TIER ANCHOR M 36GG	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 0/1964,	144m,	DDH ,	N	17	Y	
3615	BLUE TIER ANCHOR M 35HH	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 2/1966,	186m,	DDH ,	N	17	Y	
3616	BLUE TIER ANCHOR M 34EE	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 2/1966,	62m,	DDH ,	N	17	Y	
3617	BLUE TIER ANCHOR M 33DD	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 2/1966,	52m,	DDH ,	N	17	Y	
3618	BLUE TIER ANCHOR M 32BB	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 0/1966,	55m,	DDH ,	N	17	Y	
3619	BLUE TIER ANCHOR M 31I	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 1/1966,	74m,	DDH ,	N	17	N	
3620	BLUE TIER ANCHOR M 30W	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 1/1966,	57m,	DDH ,	N	17	Y	
3621	BLUE TIER ANCHOR M 29CC	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 1/1966,	49m,	DDH ,	N	17	Y	
3622	BLUE TIER ANCHOR M 28K	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 1/1966,	70m,	DDH ,	N	17	Y	
3623	BLUE TIER ANCHOR M 27FF	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 1/1966,	61m,	DDH ,	N	17	Y	
3624	BLUE TIER ANCHOR M 26G	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 12/1965,	65m,	DDH ,	N	17	Y	
3625	BLUE TIER ANCHOR M 25-O	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 12/1965,	104m,	DDH ,	N	17	Y	
3626	BLUE TIER ANCHOR M 24V	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 12/1965,	55m,	DDH ,	N	17	Y	
3627	BLUE TIER ANCHOR M 23D	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 12/1965,	57m,	DDH ,	N	17	Y	
3628	BLUE TIER ANCHOR M 22N	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 12/1965,	90m,	DDH ,	N	17	Y	
3629	BLUE TIER ANCHOR M 21Q	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 0/1965,	105m,	DDH ,	N	17	Y	
3630	BLUE TIER ANCHOR M 20C	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 11/1965,	68m,	DDH ,	N	17	Y	
3631	BLUE TIER ANCHOR M 19R	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 11/1965,	104m,	DDH ,	N	17	Y	
3632	BLUE TIER ANCHOR M 18U	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 11/1965,	61m,	DDH ,	N	17	Y	
3633	BLUE TIER ANCHOR M 17S	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 10/1965,	84m,	DDH ,	N	17	Y	
3634	BLUE TIER ANCHOR M 16T	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 10/1965,	62m,	DDH ,	N	17	Y	
3635	BLUE TIER ANCHOR M 15L	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 10/1965,	122m,	DDH ,	N	17	Y	
3636	BLUE TIER ANCHOR M 14M	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 0/1965,	66m,	DDH ,	N	17	Y	
3637	BLUE TIER ANCHOR M 13B	, 32 ,	84151, 584900543520,	ABERFOYLE	PRIV	, MET 9/1965,	62m,	DDH ,	N	17	Y	

REF NO	BOREHOLE NO	QUAD	SHEET	AMG REF	ACC	PURPOSE	PLAN	REPORT	LOG LOCN	CORE	EL OR ML
		ORGANISATION	DRILLER	DATE	DEPTH	DRILL	GEOPHYS				
3638	BLUE TIER ANCHOR M 12	, 32 , 84151, 5849005435200,		, MET					17	Y	
		ABERFOYLE	PRIV	9/1965,	61m,	DDH ,		N			
3639	BLUE TIER ANCHOR M 11	, 32 , 84151, 5849005435200,		, MET					17	Y	
		ABERFOYLE	PRIV	3/1965,	62m,	DDH ,		N			
3640	BLUE TIER ANCHOR M 10	, 32 , 84151, 5849005435200,		, MET					17	Y	
		ABERFOYLE	PRIV	3/1965,	61m,	DDH ,		N			
3641	BLUE TIER ANCHOR M 9	, 32 , 84151, 5849005435200,		, MET					17	Y	
		ABERFOYLE	PRIV	2/1965,	61m,	DDH ,		N			
3642	BLUE TIER ANCHOR M 8	, 32 , 84151, 5849005435200,		, MET					17	Y	
		ABERFOYLE	PRIV	2/1965,	61m,	DDH ,		N			
3643	BLUE TIER ANCHOR M 7	, 32 , 84151, 5849005435200,		, MET					17	Y	
		ABERFOYLE	PRIV	2/1965,	61m,	DDH ,		N			
3644	BLUE TIER ANCHOR M 6	, 32 , 84151, 5849005435200,		, MET					17	Y	
		ABERFOYLE	PRIV	1/1965,	61m,	DDH ,		N			
3645	BLUE TIER ANCHOR M 5	, 32 , 84151, 5849005435200,		, MET					17	Y	
		ABERFOYLE	PRIV	4/1964,	16m,	DDH ,		N			
3646	BLUE TIER ANCHOR M 4	, 32 , 84151, 5849005435200,		, MET					17	Y	
		ABERFOYLE	PRIV	3/1964,	15m,	DDH ,		N			
3647	BLUE TIER ANCHOR M 3	, 32 , 84151, 5849005435200,		, MET					17	Y	
		ABERFOYLE	PRIV	3/1964,	32m,	DDH ,		N			
3648	BLUE TIER ANCHOR M 2	, 32 , 84151, 5849005435200,		, MET					17	Y	
		ABERFOYLE	PRIV	3/1964,	15m,	DDH ,		N			
3649	BLUE TIER ANCHOR M 1 MORNSTOR	, 32 , 84151, 5849005435200,		, MET					17	Y	
		ABERFOYLE	PRIV	3/1964,	15m,	DDH ,		N			
3739	BLUE TIER MAGNET M WP83	, 32 , 84151, 3717005411400,		, MET					20	N	
		ELECTROLYTIC ZINC	PRIV	0/ 0,	171m,	DDH ,		N			
3740	BLUE TIER MAGNET M WP84	, 32 , 84151, 3717005411400,		, MET					20	N	
		ELECTROLYTIC ZINC	PRIV	0/ 0,	334m,	DDH ,		N			
10212	BT 178 BLUE TIER	, 32 , 84151, 5844005436400,		, MET			TCR 84-2143		35		EL9/76
		GOLDFIELDS EXPL	PRIV	4/1984,	151m,	DDH ,		N			
10213	BT179 BLUE TIER	, 32 , 84151, 5842005436800,		, MET			TCR 84-2143		35		EL9/76
		GOLDFIELDS EXPL	PRIV	4/1984,	121m,	DDH ,		N			
10214	BT180 BLUE TIER	, 32 , 84151, 5822005436800,		, MET			TCR 84-2143		35		EL9/76
		GOLDFIELDS EXPL	PRIV	5/1984,	140m,	DDH ,		N			
10395	BT166 BLUE TIER MORNLOWR	, 33 , 85154, 5850005437800,		, MET			TCR 84-2081		35		EL9/76
		GOLDFIELDS EXPL	PRIV	7/1983,	240m,	DDH ,		N			
10396	BT167 BLUE TIER	, 33 , 85154, 5842005438900,		, MET			TCR 84-2081		35		EL9/76
		GOLDFIELDS EXPL	PRIV	7/1983,	146m,	DDH ,		N			
10397	BT168 BLUE TIER	, 33 , 85154, 5843005439000,		, MET			TCR 84-2081		35		EL9/76
		GOLDFIELDS EXPL	PRIV	7/1983,	126m,	DDH ,		N			
10398	BT169 BLUE TIER	, 33 , 85154, 5843005439100,		, MET			TCR 84-2081		35		EL9/76
		GOLDFIELDS EXPL	PRIV	7/1983,	147m,	DDH ,		N			
10399	BT170 BLUE TIER	, 33 , 85154, 5843005439200,		, MET			TCR 84-2081		35		EL9/76
		GOLDFIELDS EXPL	PRIV	8/1983,	107m,	DDH ,		N			
10400	BT171 BLUE TIER	, 33 , 85154, 5851005436200,		, MET			TCR 84-2081		35		EL9/76
		GOLDFIELDS EXPL	PRIV	8/1983,	140m,	DDH ,		N			
10401	BT172 BLUE TIER	, 33 , 85154, 5849005436100,		, MET			TCR 84-2081		35		EL9/76
		GOLDFIELDS EXPL	PRIV	8/1983,	141m,	DDH ,		N			
10402	BT173 BLUE TIER	, 33 , 85154, 5849005436100,		, MET			TCR 84-2081		35		EL9/76
		GOLDFIELDS EXPL	PRIV	8/1983,	140m,	DDH ,		N			
10403	BT174 BLUE TIER	, 33 , 85154, 5851005436100,		, MET			TCR 84-2081		35		EL9/76
		GOLDFIELDS EXPL	PRIV	8/1983,	140m,	DDH ,		N			
10404	BT175 BLUE TIER	, 33 , 85154, 5851005435900,		, MET			TCR 84-2081		35		EL9/76
		GOLDFIELDS EXPL	PRIV	8/1983,	101m,	DDH ,		N			
10405	BT176 BLUE TIER	, 33 , 85154, 5848005435900,		, MET			TCR 84-2081		35		EL9/76
		GOLDFIELDS EXPL	PRIV	8/1983,	80m,	DDH ,		N			

REF NO	BOREHOLE NO	QUAD	SHEET	AMG REF	ACC	PURPOSE	PLAN	REPORT	LOG LOCN	CORE	EL OR ML
		ORGANISATION	DRILLER	DATE	DEPTH	DRILL	GEOPHYS				
10406	BT150 BLUE TIER	33	85154	5850005437600		MET		TCR 84-2081	35		EL9/76
		GOLDFIELDS EXPL	PRIV	6/1982	191m	DDH		N			
10407	BT177 BLUE TIER	33	85154	5843005437700		MET		TCR 84-2081	35		EL9/76
		GOLDFIELDS EXPL	PRIV	9/1983	200m	DDH		N			
10894	BT90 BLUE TIER	32	84151	5842005438900		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	6/1980	102m	DDH		N			
10895	BT95 BLUE TIER	32	84151	5842005438900		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	8/1980	212m	DDH		N			
10896	BT112 BLUE TIER	32	84151	5842005439100		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	2/1981	146m	DDH		N			
10897	BT113 BLUE TIER	32	84151	5842005439000		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	2/1981	180m	DDH		N			
10898	BT114 BLUE TIER	32	84151	5842005438900		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	2/1981	201m	DDH		N			
10899	BT146 BLUE TIER	32	84151	5830005439500		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	5/1982	96m	DDH		N			
10900	BT147 BLUE TIER	32	84151	5832005439600		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	6/1982	116m	DDH		N			
10901	BT148 BLUE TIER	32	84151	5818005438800		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	6/1982	104m	DDH		N			
10902	BT149 BLUE TIER	32	84151	5815005438900		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	6/1982	108m	DDH		N			
10903	BT151 BLUE TIER	33	85154	5845005439200		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	6/1982	102m	DDH		N			
10904	BT152 BLUE TIER	33	85154	5847005439300		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	6/1982	99m	DDH		N			
10905	BT153 BLUE TIER	33	85154	5848005439100		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	6/1982	94m	DDH		N			
10906	BT154 BLUE TIER	33	85154	5846005439000		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	7/1982	102m	DDH		N			
10907	BT155 BLUE TIER	33	85154	5850005438800		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	7/1982	108m	DDH		N			
10908	BT156 BLUE TIER	33	85154	5847005438700		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	7/1982	93m	DDH		N			
10909	BT157 BLUE TIER	32	84151	5814005438700		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	7/1982	108m	DDH		N			
10910	BT158 BLUE TIER	32	84151	5816005438400		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	7/1982	108m	DDH		N			
10911	BT159 BLUE TIER	32	84151	5803005439800		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	7/1982	99m	DDH		N			
10912	BT160 BLUE TIER	32	84151	5806005439500		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	8/1982	89m	DDH		N			
10913	BT161 BLUE TIER	32	84151	5817005439200		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	8/1982	108m	DDH		N			
10914	BT162 BLUE TIER	32	84151	5819005439000		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	8/1982	98m	DDH		N			
10915	BT163 BLUE TIER	33	85154	5850005436100		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	8/1982	114m	DDH		N			
10916	BT164 BLUE TIER	32	84151	5819005437500		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	9/1982	108m	DDH		N			
10917	BT165 BLUE TIER	33	85154	5849005436000		MET		TCR 82-1888	35		EL9/76
		RENISON LTD	PRIV	9/1982	108m	DDH		N			
11052	BT42 BLUE TIER	33	85154	5851005435400		MET		TCR 82-1792	35		EL9/76
		RENISON LTD	PRIV	8/1982	140m	DDH		N			
11053	BT43 BLUE TIER	33	85154	5851005435600		MET		TCR 82-1792	35		EL9/76
		RENISON LTD	PRIV	8/1982	176m	DDH		N			

REF NO	BOREHOLE NO	QUAD	SHEET	AMG REF	ACC	PURPOSE	PLAN	REPORT	LOG LOCN	CORE	EL OR ML
		ORGANISATION			DRILLER	DATE	DEPTH	DRILL	GEOPHYS		
11588	BT115 BLUE TIER	, 33 , 85154, 5848005435200,			, MET			TCR 81-1595	35		EL9/76
		RENISON LIMITED			PRIV	3/1981,	25m,	DDH ,	N		
11589	BT116 BLUE TIER	, 33 , 85154, 5848005435200,			, MET			TCR 81-1595	35		EL9/76
		RENISON LIMITED			PRIV	3/1981,	25m,	DDH ,	N		
11590	BT117 BLUE TIER	, 33 , 85154, 5848005435200,			, MET			TCR 81-1595	35		EL9/76
		RENISON LIMITED			PRIV	3/1981,	25m,	DDH ,	N		
11591	BT118 BLUE TIER	, 33 , 85154, 5848005435200,			, MET			TCR 81-1595	35		EL9/76
		RENISON LIMITED			PRIV	3/1981,	25m,	DDH ,	N		
11592	BT119 BLUE TIER	, 33 , 85154, 5848005435200,			, MET			TCR 81-1595	35		EL9/76
		RENISON LIMITED			PRIV	3/1981,	25m,	DDH ,	N		
11593	BT120 BLUE TIER	, 33 , 85154, 5848005435200,			, MET			TCR 81-1595	35		EL9/76
		RENISON LIMITED			PRIV	3/1981,	25m,	DDH ,	N		
11594	BT121 BLUE TIER	, 33 , 85154, 5848005435200,			, MET			TCR 81-1595	35		EL9/76
		RENISON LIMITED			PRIV	3/1981,	25m,	DDH ,	N		
11595	BT122 BLUE TIER	, 33 , 85154, 5848005435200,			, MET			TCR 81-1595	35		EL9/76
		RENISON LIMITED			PRIV	3/1981,	25m,	DDH ,	N		
11596	BT123 BLUE TIER	, 33 , 85154, 5850005435400,			, MET			TCR 81-1595	35		EL9/76
		RENISON LIMITED			PRIV	3/1981,	65m,	DDH ,	N		
11597	BT124 BLUE TIER	, 33 , 85154, 5850005435400,			, MET			TCR 81-1595	35		EL9/76
		RENISON LIMITED			PRIV	3/1981,	65m,	DDH ,	N		
11598	BT125 BLUE TIER	, 33 , 85154, 5850005435400,			, MET			TCR 81-1595	35		EL9/76
		RENISON LIMITED			PRIV	3/1981,	65m,	DDH ,	N		
11599	BT126 BLUE TIER	, 33 , 85154, 5850005435400,			, MET			TCR 81-1595	35		EL9/76
		RENISON LIMITED			PRIV	3/1981,	65m,	DDH ,	N		
11600	BT133 BLUE TIER	, 33 , 85154, 5850005435400,			, MET			TCR 81-1595	35		EL9/76
		RENISON LIMITED			PRIV	4/1981,	65m,	DDH ,	N		
11601	BT134 BLUE TIER	, 33 , 85154, 5850005435400,			, MET			TCR 81-1595	35		EL9/76
		RENISON LIMITED			PRIV	4/1981,	65m,	DDH ,	N		
11602	BT135 BLUE TIER	, 33 , 85154, 5850005435400,			, MET			TCR 81-1595	35		EL9/76
		RENISON LIMITED			PRIV	4/1981,	65m,	DDH ,	N		
11603	BT136 BLUE TIER	, 33 , 85154, 5850005435400,			, MET			TCR 81-1595	35		EL9/76
		RENISON LIMITED			PRIV	5/1981,	52m,	DDH ,	N		
11609	BT97 BLUE TIER	, 33 , 85154, 5852005435600,			, MET			TCR 81-1596	35		EL9/76
		RENISON LIMITED			PRIV	12/1980,	149m,	DDH ,	N		
11610	BT98 BLUE TIER	, 33 , 85154, 5851005435500,			, MET			TCR 81-1596	35		EL9/76
		RENISON LIMITED			PRIV	12/1980,	123m,	DDH ,	N		
11611	BT99 BLUE TIER	, 33 , 85154, 5850005435500,			, MET			TCR 81-1596	35		EL9/76
		RENISON LIMITED			PRIV	12/1980,	131m,	DDH ,	N		
11612	BT100 BLUE TIER	, 33 , 85154, 5851005435400,			, MET			TCR 81-1596	35		EL9/76
		RENISON LIMITED			PRIV	12/1980,	130m,	DDH ,	N		
11613	BT101 BLUE TIER	, 33 , 85154, 5851005435300,			, MET			TCR 81-1596	35		EL9/76
		RENISON LIMITED			PRIV	1/1981,	151m,	DDH ,	N		
11614	BT102 BLUE TIER	, 33 , 85154, 5850005435400,			, MET			TCR 81-1596	35		EL9/76
		RENISON LIMITED			PRIV	1/1981,	53m,	DDH ,	N		
11615	BT103 BLUE TIER	, 33 , 85154, 5849005435400,			, MET			TCR 81-1596	35		EL9/76
		RENISON LIMITED			PRIV	1/1981,	71m,	DDH ,	N		
11616	BT104 BLUE TIER	, 33 , 85154, 5849005435300,			, MET			TCR 81-1596	35		EL9/76
		RENISON LIMITED			PRIV	1/1981,	56m,	DDH ,	N		
11617	BT105 BLUE TIER	, 33 , 85154, 5847005435300,			, MET			TCR 81-1596	35		EL9/76
		RENISON LIMITED			PRIV	1/1981,	44m,	DDH ,	N		
11618	BT106 BLUE TIER	, 33 , 85154, 5850005435300,			, MET			TCR 81-1596	35		EL9/76
		RENISON LIMITED			PRIV	1/1981,	86m,	DDH ,	N		
11619	BT107 BLUE TIER	, 33 , 85154, 5851005435200,			, MET			TCR 81-1596	35		EL9/76
		RENISON LIMITED			PRIV	1/1981,	86m,	DDH ,	N		
11620	BT108 BLUE TIER	, 33 , 85154, 5850005435300,			, MET			TCR 81-1596	35		EL9/76
		RENISON LIMITED			PRIV	1/1981,	71m,	DDH ,	N		

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11621	BT109 BLUE TIER	, 33 ,	85154,	5850005435200,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	1/1981,	101m,	DDH ,		N		
11622	BT110 BLUE TIER	, 33 ,	85154,	5849005435200,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	2/1981,	62m,	DDH ,		N		
11623	BT111 BLUE TIER	, 33 ,	85154,	5849005435100,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	2/1981,	89m,	DDH ,		N		
11624	BT127 BLUE TIER	, 33 ,	85154,	5848005435200,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	4/1981,	62m,	DDH ,		N		
11625	BT128 BLUE TIER	, 33 ,	85154,	5846005435200,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	4/1981,	50m,	DDH ,		N		
11626	BT129 BLUE TIER	, 33 ,	85154,	5846005435200,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	4/1981,	83m,	DDH ,		N		
11627	BT130 BLUE TIER	, 33 ,	85154,	5845005435300,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	4/1981,	80m,	DDH ,		N		
11628	BT131 BLUE TIER	, 33 ,	85154,	5845005435200,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	4/1981,	80m,	DDH ,		N		
11629	BT132 BLUE TIER	, 33 ,	85154,	5845005435100,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	4/1981,	44m,	DDH ,		N		
11630	BT137 BLUE TIER	, 33 ,	85154,	5849005435100,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	5/1981,	83m,	DDH ,		N		
11631	BT138 BLUE TIER	, 33 ,	85154,	5850005435100,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	5/1981,	89m,	DDH ,		N		
11632	BT139 BLUE TIER	, 33 ,	85154,	5849005435100,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	5/1981,	80m,	DDH ,		N		
11633	BT140 BLUE TIER	, 33 ,	85154,	5851005435100,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	5/1981,	105m,	DDH ,		N		
11634	BT141 BLUE TIER	, 33 ,	85154,	5850005435100,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	5/1981,	104m,	DDH ,		N		
11635	BT142 BLUE TIER	, 33 ,	85154,	5851005435200,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	5/1981,	131m,	DDH ,		N		
11636	BT143 BLUE TIER	, 33 ,	85154,	5850005435200,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	6/1981,	120m,	DDH ,		N		
11637	BT144 BLUE TIER	, 33 ,	85154,	5848005435100,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	6/1981,	89m,	DDH ,		N		
11638	BT145 BLUE TIER	, 33 ,	85154,	5849005435200,	,	MET		TCR 81-1596	35		EL9/76
		RENISON LIMITED		PRIV	6/1981,	86m,	DDH ,		N		
12143	BT79 BLUE TIER	, 33 ,	85154,	5849005435200,	,	MET		TCR 80-1488	35		EL9/76
		RENISON LTD		PRIV	4/1980,	75m,	DDH ,		N		
12144	BT80 BLUE TIER	, 33 ,	85154,	5850005435200,	,	MET		TCR 80-1488	35		EL9/76
		RENISON LTD		PRIV	4/1980,	83m,	DDH ,		N		
12145	BT81 BLUE TIER	, 33 ,	85154,	5851005435600,	,	MET		TCR 80-1488	35		EL9/76
		RENISON LTD		PRIV	5/1980,	209m,	DDH ,		N		
12146	BT82 BLUE TIER	, 33 ,	85154,	5849005435100,	,	MET		TCR 80-1488	35		EL9/76
		RENISON LTD		PRIV	5/1980,	119m,	DDH ,		N		
12147	BT83 BLUE TIER	, 33 ,	85154,	5847005435200,	,	MET		TCR 80-1488	35		EL9/76
		RENISON LTD		PRIV	5/1980,	40m,	DDH ,		N		
12148	BT84 BLUE TIER	, 33 ,	85154,	5847005435300,	,	MET		TCR 80-1488	35		EL9/76
		RENISON LTD		PRIV	5/1980,	82m,	DDH ,		N		
12149	BT85 BLUE TIER	, 33 ,	85154,	5848005435300,	,	MET		TCR 80-1488	35		EL9/76
		RENISON LTD		PRIV	6/1980,	62m,	DDH ,		N		
12150	BT86 BLUE TIER	, 33 ,	85154,	5849005435100,	,	MET		TCR 80-1488	35		EL9/76
		RENISON LTD		PRIV	6/1980,	77m,	DDH ,		N		
12151	BT87 BLUE TIER	, 33 ,	85154,	5848005435100,	,	MET		TCR 80-1488	35		EL9/76
		RENISON LTD		PRIV	6/1980,	60m,	DDH ,		N		
12152	BT88 BLUE TIER	, 33 ,	85154,	5848005435200,	,	MET		TCR 80-1488	35		EL9/76
		RENISON LTD		PRIV	6/1980,	57m,	DDH ,		N		

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12153	BT89 BLUE TIER	, 33 ,	85154,	5846005435200,	,	MET		TCR 80-1488	35		EL9/76
		RENISON LTD		PRIV	6/1980,	104m,	DDH ,	N			
12154	BT91 BLUE TIER	, 33 ,	85154,	5850005435100,	,	MET		TCR 80-1488	35		EL9/76
		RENISON LTD		PRIV	7/1980,	90m,	DDH ,	N			
12155	BT92 BLUE TIER	, 33 ,	85154,	5850005435400,	,	MET		TCR 80-1488	35		EL9/76
		RENISON LTD		PRIV	7/1980,	0m,	DDH ,	N			
12156	BT93 BLUE TIER	, 33 ,	85154,	5851005435700,	,	MET		TCR 80-1488	35		EL9/76
		RENISON LTD		PRIV	7/1980,	179m,	DDH ,	N			
12157	BT94 BLUE TIER	, 33 ,	85154,	5850005435000,	,	MET		TCR 80-1488	35		EL9/76
		RENISON LTD		PRIV	7/1980,	107m,	DDH ,	N			
12158	BT96 BLUE TIER	, 33 ,	85154,	5845005435100,	,	MET		TCR 80-1488	35		EL9/76
		RENISON LTD		PRIV	8/1980,	134m,	DDH ,	N			
12751	BT69 BLUE TIER	, 23 ,	85154,	5850005435200,	,	MET		TCR 80-1418	35		EL9/76
		RENISON LTD		PRIV	9/1979,	100m,	DDH ,	N			
12752	BT70 BLUE TIER	, 23 ,	85154,	5845005434800,	,	MET		TCR 80-1418	35		EL9/76
		RENISON LTD		PRIV	9/1979,	159m,	DDH ,	N			
12753	BT71 BLUE TIER	, 23 ,	85154,	5848005435200,	,	MET		TCR 80-1418	35		EL9/76
		RENISON LTD		PRIV	9/1979,	60m,	DDH ,	N			
12754	BT72 BLUE TIER	, 23 ,	85154,	5848005435000,	,	MET		TCR 80-1418	35		EL9/76
		RENISON LTD		PRIV	10/1979,	90m,	DDH ,	N			
12755	BT73 BLUE TIER	, 23 ,	85154,	5847005435100,	,	MET		TCR 80-1418	35		EL9/76
		RENISON LTD		PRIV	0/1979,	132m,	DDH ,	N			
12756	BT74 BLUE TIER	, 23 ,	85154,	5849005435100,	,	MET		TCR 80-1418	35		EL9/76
		RENISON LTD		PRIV	10/1979,	62m,	DDH ,	N			
12757	BT75 BLUE TIER	, 23 ,	85154,	5847005435500,	,	MET		TCR 80-1418	35		EL9/76
		RENISON LTD		PRIV	0/1979,	57m,	DDH ,	N			
12758	BT76 BLUE TIER	, 23 ,	85154,	5846005435400,	,	MET		TCR 80-1418	35		EL9/76
		RENISON LTD		PRIV	10/1979,	51m,	DDH ,	N			
12759	BT77 BLUE TIER	, 23 ,	85154,	5846005435400,	,	MET		TCR 80-1418	35		EL9/76
		RENISON LTD		PRIV	10/1979,	57m,	DDH ,	N			
12760	BT78 BLUE TIER	, 23 ,	85154,	5856005435600,	,	MET		TCR 80-1418	35		EL9/76
		RENISON LTD		PRIV	10/1979,	225m,	DDH ,	N			
13178	BT68 BLUE TIER	, 33 ,	85154,	5850005435400,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	7/1978,	101m,	DDH ,	N			
13179	BT67 BLUE TIER	, 33 ,	85154,	5850005435400,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	7/1978,	80m,	DDH ,	N			
13180	BT66 BLUE TIER	, 33 ,	85154,	5850005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	7/1978,	81m,	DDH ,	N			
13181	BT65 BLUE TIER	, 33 ,	85154,	5850005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	7/1978,	92m,	DDH ,	N			
13182	BT64 BLUE TIER	, 33 ,	85154,	5850005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	7/1978,	102m,	DDH ,	N			
13183	BT63 BLUE TIER	, 33 ,	85154,	5851005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	6/1978,	98m,	DDH ,	N			
13184	BT62 BLUE TIER	, 33 ,	85154,	5851005435400,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	6/1978,	152m,	DDH ,	N			
13185	BT61 BLUE TIER	, 33 ,	85154,	5851005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	6/1978,	123m,	DDH ,	N			
13186	BT60 BLUE TIER	, 33 ,	85154,	5851005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	6/1978,	147m,	DDH ,	N			
13187	BT59 BLUE TIER	, 33 ,	85154,	5847005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	6/1978,	57m,	DDH ,	N			
13188	BT58 BLUE TIER	, 33 ,	85154,	5846005435100,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	6/1978,	102m,	DDH ,	N			
13189	BT57 BLUE TIER	, 33 ,	85154,	5846005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	5/1978,	99m,	DDH ,	N			

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13190	BT56 BLUE TIER	, 33 ,	85154,	5847005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	5/1978,	50m,	DDH ,		N		
13191	BT55 BLUE TIER	, 33 ,	85154,	5847005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	5/1978,	67m,	DDH ,		N		
13192	BT54 BLUE TIER	, 33 ,	85154,	5848005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	5/1978,	93m,	DDH ,		N		
13193	BT53 BLUE TIER	, 33 ,	85154,	5849005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	5/1978,	63m,	DDH ,		N		
13194	BT52 BLUE TIER	, 33 ,	85154,	5849005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	5/1978,	242m,	DDH ,		N		
13195	BT51 BLUE TIER	, 33 ,	85154,	5849005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	4/1978,	229m,	DDH ,		N		
13196	BT50 BLUE TIER	, 33 ,	85154,	5852005435400,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	11/1977,	155m,	DDH ,		N		
13197	BT49 BLUE TIER	, 33 ,	85154,	5847005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	11/1977,	116m,	DDH ,		N		
13198	BT48 BLUE TIER	, 33 ,	85154,	5851005435400,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	11/1977,	194m,	DDH ,		N		
13199	BT47 BLUE TIER	, 33 ,	85154,	5845005435000,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	11/1977,	105m,	DDH ,		N		
13200	BT46 BLUE TIER	, 33 ,	85154,	5847005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	11/1977,	162m,	DDH ,		N		
13201	BT45 BLUE TIER	, 33 ,	85154,	5847005435100,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	11/1977,	114m,	DDH ,		N		
13202	BT44 BLUE TIER	, 33 ,	85154,	5849005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	11/1977,	114m,	DDH ,		N		
13203	BT41 BLUE TIER	, 33 ,	85154,	5849005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	11/1977,	114m,	DDH ,		N		
13204	BT40 BLUE TIER	, 33 ,	85154,	5850005435600,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	10/1977,	119m,	DDH ,		N		
13205	BT1A BLUE TIER	, 33 ,	85154,	5850005435600,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	1/1968,	244m,	DDH ,		N		
13206	BT39 BLUE TIER	, 33 ,	85154,	5852005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	4/1966,	92m,	DDH ,		N		
13207	BT38 BLUE TIER	, 33 ,	85154,	5852005435500,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	3/1966,	170m,	DDH ,		N		
13208	BT37 BLUE TIER	, 33 ,	85154,	5852005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	3/1966,	113m,	DDH ,		N		
13209	BT36 BLUE TIER	, 33 ,	85154,	5852005435400,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	0/1966,	144m,	DDH ,		N		
13210	BT35 BLUE TIER	, 33 ,	85154,	5851005435400,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	2/1966,	186m,	DDH ,		N		
13211	BT34 BLUE TIER	, 33 ,	85154,	5846005435400,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	2/1966,	62m,	DDH ,		N		
13212	BT33 BLUE TIER	, 33 ,	85154,	5847005435400,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	2/1966,	52m,	DDH ,		N		
13213	BT32 BLUE TIER	, 33 ,	85154,	5848005435400,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	0/1966,	55m,	DDH ,		N		
13214	BT31 BLUE TIER	, 33 ,	85154,	5850005435100,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	1/1966,	74m,	DDH ,		N		
13215	BT30 BLUE TIER	, 33 ,	85154,	5850005435500,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	1/1966,	57m,	DDH ,		N		
13216	BT29 BLUE TIER	, 33 ,	85154,	5848005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	1/1966,	49m,	DDH ,		N		
13217	BT28 BLUE TIER	, 33 ,	85154,	5851005435100,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	1/1966,	71m,	DDH ,		N		

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13218	BT27 BLUE TIER	, 33 ,	85154,	5849005435400,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	1/1966,	61m,	DDH ,		N		
13219	BT26 BLUE TIER	, 33 ,	85154,	5851005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	12/1965,	65m,	DDH ,		N		
13220	BT25 BLUE TIER	, 33 ,	85154,	5851005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	12/1965,	104m,	DDH ,		N		
13221	BT24 BLUE TIER	, 33 ,	85154,	5849005435400,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	12/1965,	35m,	DDH ,		N		
13222	BT23 BLUE TIER	, 33 ,	85154,	5851005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	12/1965,	99m,	DDH ,		N		
13223	BT22 BLUE TIER	, 33 ,	85154,	5851005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	12/1965,	90m,	DDH ,		N		
13224	BT21 BLUE TIER	, 33 ,	85154,	5852005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	11/1965,	105m,	DDH ,		N		
13225	BT20 BLUE TIER	, 33 ,	85154,	5850005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	11/1965,	60m,	DDH ,		N		
13226	BT19 BLUE TIER	, 33 ,	85154,	5851005435400,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	11/1965,	104m,	DDH ,		N		
13227	BT18 BLUE TIER	, 33 ,	85154,	5850005435400,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	11/1965,	61m,	DDH ,		N		
13228	BT17 BLUE TIER	, 33 ,	85154,	5851005435400,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	10/1965,	84m,	DDH ,		N		
13229	BT16 BLUE TIER	, 33 ,	85154,	5850005435400,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	10/1965,	63m,	DDH ,		N		
13230	BT15 BLUE TIER	, 33 ,	85154,	5850005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	10/1965,	122m,	DDH ,		N		
13231	BT14 BLUE TIER	, 33 ,	85154,	5850005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	9/1965,	66m,	DDH ,		N		
13232	BT13 BLUE TIER	, 33 ,	85154,	5850005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	9/1965,	62m,	DDH ,		N		
13233	BT12 BLUE TIER	, 33 ,	85154,	5849005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	9/1965,	63m,	DDH ,		N		
13234	BT11 BLUE TIER	, 33 ,	85154,	5850005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	3/1965,	62m,	DDH ,		N		
13235	BT10 BLUE TIER	, 33 ,	85154,	5850005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	3/1965,	61m,	DDH ,		N		
13236	BT9 BLUE TIER	, 33 ,	85154,	5850005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	2/1965,	61m,	DDH ,		N		
13237	BT8 BLUE TIER	, 33 ,	85154,	5849005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	2/1965,	61m,	DDH ,		N		
13238	BT7 BLUE TIER	, 33 ,	85154,	5849005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	2/1965,	61m,	DDH ,		N		
13239	BT6 BLUE TIER	, 33 ,	85154,	5849005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	1/1965,	61m,	DDH ,		N		
13240	BT5 BLUE TIER	, 33 ,	85154,	5849005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	4/1964,	16m,	DDH ,		N		
13241	BT4 BLUE TIER	, 33 ,	85154,	5849005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	3/1964,	15m,	DDH ,		N		
13242	BT3 BLUE TIER	, 33 ,	85154,	5849005435300,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	3/1964,	32m,	DDH ,		N		
13243	BT2 BLUE TIER	, 33 ,	85154,	5849005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	3/1964,	15m,	DDH ,		N		
13244	BT1 BLUE TIER	, 33 ,	85154,	5849005435200,	,	MET		TCR 78-1314	35		EL9/76
		RENISON LTD		PRIV	3/1964,	16m,	DDH ,		N		

↑ DORIS 1643

↓ Location in store 657105

REFRNCE NUMBER	BOREHOLE NUMBER	STORE LOCATION	RACK NUMBER	DEPTH FROM	DEPTH TO	UNITS	TYPE	TOTAL BOXES
3611	BLUE TIER ANCHOR M 39P	MORNSTOR	M0033	0	260	FEET	DIAM.COR	12
		MORNSTOR	M0034	260	302	FEET	DIAM.COR	
3612	BLUE TIER ANCHOR M 38II	MORNSTOR	M0032	346	369	FEET	DIAM.COR	21
		MORNSTOR	M0033	0	557	FEET	DIAM.COR	
3613	BLUE TIER ANCHOR M 37E	MORNSTOR	M0032	206	347	FEET	DIAM.COR	5
3614	BLUE TIER ANCHOR M 36GG	MORNSTOR	M0032	0	473	FEET	DIAM.COR	17
3615	BLUE TIER ANCHOR M 35HH	MORNSTOR	M0031	0	409	FEET	DIAM.COR	21
		MORNSTOR	M0032	409	609	FEET	DIAM.COR	
3616	BLUE TIER ANCHOR M 34EE	MORNSTOR	M0031	0	201	FEET	DIAM.COR	7
3617	BLUE TIER ANCHOR M 33DD	MORNSTOR	M0031	0	171	FEET	DIAM.COR	6
3618	BLUE TIER ANCHOR M 32BB	MORNSTOR	M0031	124	179	FEET	DIAM.COR	2
3620	BLUE TIER ANCHOR M 30W	MORNSTOR	M0030	0	186	FEET	CUTTINGS	5
3621	BLUE TIER ANCHOR M 29CC	MORNSTOR	M0030	0	160	FEET	DIAM.COR	5
3622	BLUE TIER ANCHOR M 28K	MORNSTOR	M0030	0	231	FEET	DIAM.COR	6
3623	BLUE TIER ANCHOR M 27FF	MORNSTOR	M0029	0	99	FEET	DIAM.COR	7
		MORNSTOR	M0030	99	200	FEET	DIAM.COR	
3624	BLUE TIER ANCHOR M 26G	MORNSTOR	M0029	0	213	FEET	DIAM.COR	6
3625	BLUE TIER ANCHOR M 25-0	MORNSTOR	M0029	5	340	FEET	DIAM.COR	11
3626	BLUE TIER ANCHOR M 24V	MORNSTOR	M0029	0	181	FEET	DIAM.COR	5
3627	BLUE TIER ANCHOR M 23D	MORNSTOR	M0028	42	215	FEET	DIAM.COR	11
		MORNSTOR	M0029	215	325	FEET	DIAM.COR	
3629	BLUE TIER ANCHOR M 21Q	MORNSTOR	M0027	0	119	FEET	DIAM.COR	14
		MORNSTOR	M0028	119	309	FEET	DIAM.COR	
3630	BLUE TIER ANCHOR M 20C	MORNSTOR	M0027	80	222	FEET	DIAM.COR	7
3631	BLUE TIER ANCHOR M 19R	MORNSTOR	M0027	0	342	FEET	DIAM.COR	13
3632	BLUE TIER ANCHOR M 18U	MORNSTOR	M0027	46	200	FEET	DIAM.COR	6
3633	BLUE TIER ANCHOR M 17S	MORNSTOR	M0026	0	243	FEET	DIAM.COR	10
		MORNSTOR	M0027	243	275	FEET	DIAM.COR	
3634	BLUE TIER ANCHOR M 16T	MORNSTOR	M0026	47	205	FEET	DIAM.COR	5
3635	BLUE TIER ANCHOR M 15L	MORNSTOR	M0026	50	400	FEET	DIAM.COR	13
3636	BLUE TIER ANCHOR M 14M	MORNSTOR	M0025	64	104	FEET	DIAM.COR	5
		MORNSTOR	M0026	104	210	FEET	DIAM.COR	
3637	BLUE TIER ANCHOR M 13B	MORNSTOR	M0025	70	204	FEET	DIAM.COR	5
3638	BLUE TIER ANCHOR M 12	MORNSTOR	M0025	75	206	FEET	DIAM.COR	5
3639	BLUE TIER ANCHOR M 11	MORNSTOR	M0025	32	185	FEET	DIAM.COR	6
3640	BLUE TIER ANCHOR M 10	MORNSTOR	M0025	60	201	FEET	DIAM.COR	6
3641	BLUE TIER ANCHOR M 9	MORNSTOR	M0025	70	199	FEET	DIAM.COR	5
3642	BLUE TIER ANCHOR M 8	MORNSTOR	M0024	34	199	FEET	DIAM.COR	7
		MORNSTOR	M0025	199	200	FEET	DIAM.COR	
3643	BLUE TIER ANCHOR M 7	MORNSTOR	M0024	59	200	FEET	DIAM.COR	6
3644	BLUE TIER ANCHOR M 6	MORNSTOR	M0024	68	200	FEET	DIAM.COR	6
3645	BLUE TIER ANCHOR M 5	MORNSTOR	M0024	0	52	FEET	DIAM.COR	3
3646	BLUE TIER ANCHOR M 4	MORNSTOR	M0024	0	101	FEET	DIAM.COR	4
3647	BLUE TIER ANCHOR M 3	MORNSTOR	M0023	0	66	FEET	DIAM.COR	6
		MORNSTOR	M0024	66	100	FEET	DIAM.COR	
3648	BLUE TIER ANCHOR M 2	MORNSTOR	M0023	0	50	FEET	DIAM.COR	3
3649	BLUE TIER ANCHOR M 1	MORNSTOR	M0023	0	50	FEET	DIAM.COR	3
10395	BT166 BLUE TIER	MORNLOWR	05A01	13	108	METRES	DIAM.COR	28
		MORNLOWR	05A02	108	239	METRES	DIAM.COR	
10396	BT167 BLUE TIER	MORNLOWR	05A02	50	146	METRES	DIAM.COR	13
10397	BT168 BLUE TIER	MORNLOWR	05A03	17	126	METRES	DIAM.COR	14
10398	BT169 BLUE TIER	MORNLOWR	05A03	12	134	METRES	DIAM.COR	17
		MORNLOWR	05A04	134	147	METRES	DIAM.COR	

REFRNCE NUMBER	BOREHOLE NUMBER	STORE LOCATION	RACK NUMBER	DEPTH FROM	DEPTH TO	UNITS	TYPE	TOTAL BOXES
10399	BT170 BLUE TIER	MORNLOWR	05A04	14	107	METRES	DIAM.COR	11
10400	BT171 BLUE TIER	MORNLOWR	05A04	8	140	METRES	DIAM.COR	16
10401	BT172 BLUE TIER	MORNLOWR	05A05	7	139	METRES	DIAM.COR	8
10402	BT173 BLUE TIER	MORNLOWR	05A05	63	139	METRES	DIAM.COR	10
10403	BT174 BLUE TIER	MORNLOWR	05A05	18	140	METRES	DIAM.COR	11
10404	BT175 BLUE TIER	MORNLOWR	05A06	27	101	METRES	DIAM.COR	10
10405	BT176 BLUE TIER	MORNLOWR	05A06	9	65	METRES	DIAM.COR	6
10895	BT95 BLUE TIER	MORNLOWR	04A02	6	86	METRES	DIAM.COR	19
		MORNLOWR	04A03	86	145	METRES	DIAM.COR	
10896	BT112 BLUE TIER	MORNLOWR	04A09	0	146	METRES	DIAM.COR	19
10897	BT113 BLUE TIER	MORNLOWR	04A09	0	57	METRES	DIAM.COR	22
		MORNLOWR	04A10	57	180	METRES	DIAM.COR	
10898	BT114 BLUE TIER	MORNLOWR	04A10	3	113	METRES	DIAM.COR	24
		MORNLOWR	04A11	113	201	METRES	DIAM.COR	
10915	BT163 BLUE TIER	MORNLOWR	05A01	76	114	METRES	DIAM.COR	6
10917	BT165 BLUE TIER	MORNLOWR	05A01	43	100	METRES	DIAM.COR	8
11053	BT43 BLUE TIER	MORNLOWR	04A01	71	155	METRES	DIAM.COR	11
11609	BT97 BLUE TIER	MORNLOWR	04A03	10	150	METRES	DIAM.COR	19
11610	BT98 BLUE TIER	MORNLOWR	04A03	4	25	METRES	DIAM.COR	17
		MORNLOWR	04A04	25	123	METRES	DIAM.COR	
11611	BT99 BLUE TIER	MORNLOWR	04A04	18	128	METRES	DIAM.COR	16
		MORNLOWR	04A05	128	131	METRES	DIAM.COR	
11612	BT100 BLUE TIER	MORNLOWR	04A05	21	130	METRES	DIAM.COR	15
11613	BT101 BLUE TIER	MORNLOWR	04A05	0	112	METRES	DIAM.COR	19
		MORNLOWR	04A06	112	151	METRES	DIAM.COR	
11614	BT102 BLUE TIER	MORNLOWR	04A06	18	53	METRES	DIAM.COR	5
11615	BT103 BLUE TIER	MORNLOWR	04A06	8	71	METRES	DIAM.COR	9
11616	BT104 BLUE TIER	MORNLOWR	04A06	9	56	METRES	DIAM.COR	7
11617	BT105 BLUE TIER	MORNLOWR	04A06	0	14	METRES	DIAM.COR	6
		MORNLOWR	04A07	14	44	METRES	DIAM.COR	
11618	BT106 BLUE TIER	MORNLOWR	04A07	15	86	METRES	DIAM.COR	10
11619	BT107 BLUE TIER	MORNLOWR	04A07	14	86	METRES	DIAM.COR	10
11620	BT108 BLUE TIER	MORNLOWR	04A07	24	68	METRES	DIAM.COR	6
		MORNLOWR	04A08	68	71	METRES	DIAM.COR	
11621	BT109 BLUE TIER	MORNLOWR	04A08	12	101	METRES	DIAM.COR	13
11622	BT110 BLUE TIER	MORNLOWR	04A08	2	62	METRES	DIAM.COR	9
11623	BT111 BLUE TIER	MORNLOWR	04A08	12	56	METRES	DIAM.COR	11
		MORNLOWR	04A09	56	89	METRES	DIAM.COR	
11624	BT127 BLUE TIER	MORNLOWR	04A11	3	62	METRES	DIAM.COR	8
11625	BT128 BLUE TIER	MORNLOWR	04A11	3	50	METRES	DIAM.COR	7
11626	BT129 BLUE TIER	MORNLOWR	04A11	0	13	METRES	DIAM.COR	12
		MORNLOWR	04A12	13	83	METRES	DIAM.COR	
11627	BT130 BLUE TIER	MORNLOWR	04A12	25	80	METRES	DIAM.COR	8
11628	BT131 BLUE TIER	MORNLOWR	04A12	3	80	METRES	DIAM.COR	10
11629	BT132 BLUE TIER	MORNLOWR	04A12	2	10	METRES	DIAM.COR	6
		MORNLOWR	04A13	10	44	METRES	DIAM.COR	
11630	BT137 BLUE TIER	MORNLOWR	04A13	10	83	METRES	DIAM.COR	11
11631	BT138 BLUE TIER	MORNLOWR	04A13	13	89	METRES	DIAM.COR	11
11632	BT139 BLUE TIER	MORNLOWR	04A13	13	26	METRES	DIAM.COR	10
		MORNLOWR	04A14	26	80	METRES	DIAM.COR	
11633	BT140 BLUE TIER	MORNLOWR	04A14	18	105	METRES	DIAM.COR	12
11634	BT141 BLUE TIER	MORNLOWR	04A14	15	82	METRES	DIAM.COR	12
		MORNLOWR	04A15	82	104	METRES	DIAM.COR	

REFRNCE NUMBER	BOREHOLE NUMBER	STORE LOCATION	RACK NUMBER	DEPTH FROM	DEPTH TO	UNITS	TYPE	TOTAL BOXES
11635	BT142 BLUE TIER	MORNLOWR	04A15	9	130	METRES	DIAM.COR	17
11636	BT143 BLUE TIER	MORNLOWR	04A15	9	74	METRES	DIAM.COR	16
		MORNLOWR	04A16	74	120	METRES	DIAM.COR	
11637	BT144 BLUE TIER	MORNLOWR	04A16	0	89	METRES	DIAM.COR	13
11638	BT145 BLUE TIER	MORNLOWR	04A16	0	68	METRES	DIAM.COR	12
		MORNLOWR	05A01	68	86	METRES	DIAM.COR	
12145	BT81 BLUE TIER	MORNLOWR	04A01	75	97	METRES	DIAM.COR	13
		MORNLOWR	04A02	97	171	METRES	DIAM.COR	
12156	BT93 BLUE TIER	MORNLOWR	04A02	106	166	METRES	DIAM.COR	8
13196	BT50 BLUE TIER	MORNLOWR	04A01	58	124	METRES	DIAM.COR	9
13210	BT35 BLUE TIER	MORNSTOR	M0031	0	5	FEET	DIAM.COR	1
13211	BT34 BLUE TIER	MORNSTOR	M0031	0	37	FEET	DIAM.COR	1
13223	BT22 BLUE TIER	MORNSTOR	M0028	0	295	FEET	DIAM.COR	14
		MORNSTOR	M0028	0	25	FEET	DIAM.COR	
		MORNSTOR	M0028	0	60	FEET	DIAM.COR	

Renison 731203 ← Mike Phelan. core store 447222 RGC 657108

Blue Tier Core — L. Newnham 29.5.92.

(1) RGC core store at Burnie — regional core plus Anchor core
(2) Stored outside at Anchor — Anchor core: recent
(3) Renison Mine — regional plus early Anchor.

1960's Aberfoyle core goes up to Hole Number BT41 but L.N. never saw any of it, only logs. Presumed lost.
Some 30 of the Anchor holes were large diameter (PQ) drilled at 3 sites in groups of 10 to collect metallurgical samples — these no longer exist, having been used up during testing.
One hole at Moon is of interest. Core from top of Blue Tier is of regional interest. Need several holes from mine to show variation in style of mineralisation. Some holes were deep & intersected greisen at levels well below the mine.

Note: Phone call to Phil Uttley — Burnie core shifted to Zeehan. He will FAX a copy of the hole numbers for Blue Tier that they hold.
Phone call to Bruce McQuitty — Their core storeman (Mike Phelan) will FAX a list of their Blue Tier core numbers next week.

L. Newnham 29.5.92 657109

Anchor Core — (1) RGC store at Burnie — regional + Anchor
— (2) some stacked outside at Anchor. — Anchor.

Rawison Ltd — probably early regional + (3) some Anchor

Aberfoyle Hole — go up to Hole 41 — L. Newnham never saw any Aberfoyle core.

Hole 42 onwards — mixture of Anchor + Blue Tier Plateau

≃ 30 holes were PQ for metalurgical purposes 3 sites c ≃ 10 holes each — these holes are now gone ie for metalurgical purposes.

— One hole at Moon of interest

— Plateau core of interest from regional aspect.

— Mine holes — variation in style in mineralisation around mine. Some deep holes (several hundred m's) intersected deeper greesen.

Index 657110

85-2483 — relinquishment

1976-78 2 × DDH's BT 40 & 40 500m NW of Poim. at Southern Cross / Haley's workings — low tin grades 78-1314

1978-1980 2 × DDH's BT 70 & 78 in vicinity of Anchor Mine 78-1269, 80-1418.

1980-82 5 × DDH's BT 90, 95, 112-114 at Moon Mine. BT90 intersected 16m of 0.6% Sn, other holes were barren.

1982-1984 Percussion & DDH's (BT146-165) completed at various localities — no buried cupolas found but might exist in some places.
4 Holes at Moon (BT 167-170) - disappointing
8 Holes (BT 166, 171-177) various places — only unmineralised fg granite
3 Holes (BT 178-180) - near Coughs Lode, North Liberator - both N & W of Lottah — intersected Sn poor greisen.

77-1204

Mt. Lyell Mining & Railway Co. Ltd.
1904-1907 : BT 3A - 6 Crystal Hill (in S) to Perennial (in N)

1964-1967 (Aberfoyle) mostly NE of Anchor open cut BT 8, 9.

Note 8 × DDH at Haleys Working 1904-1906 (DDH1-8) Lyell
DDH1-39 at Anchor 1965-66 Aberfoyle

88-2835 Anchor feasibility RL 8713
microfilm. 26.5.92.

657111

ANCHOR DRILL CORE – Message from RJB on 6.2.92 to phone RGC on this matter.
Phoned Colin Cannard (004 731203) on 7.2.92

1.) RGC is holding about 15000 m of core from Anchor and wants to get rid of it. Say 100 holes at say 150 m (average).

2.) Colin Cannard has discussed with Mick McEwan and has agreed to keep two type section holes.

3.) Wants us to make a decision on the rest by end of March.

4.) NJT will discuss matter further with Mick McEwan.

5.) Mick McEwan works one day per week at Lyell (contact Murray Flitcroft, 004 71 1111) and one day per week at Savage River Mine.

Colin Cannard
004 731203

Mick McEwan

Anchor Drill Core

Nic, Please see me
Ralph

Cartwright
Cartright

657112

Anchor references.
Ross, A.F., 1981

Aberfoyle Tin from 64

EL 9/76

88-2835 feasibility

82-188 Summarises expl. drilling 1981-82

~~1000 x 500~~ 356000 x 500
178,000,000

007113

HOLE NO.	B.T. 146
STATE	TASMANIA

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

ULV. PRESS

PROJECT	BLUE TIER
DESIGNED BY	P.A. ROBERTS
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	26/5/82
COMPLETED	2/6/82

PURPOSE

To test the possible existence of unexposed Alkali Granite in the Wynifordeast Area.

LOG SUMMARY	0-7 SOIL AND WEATHERED POIMENA ADAMELLITE. 7-96.20 VARIABLY ALTERED AND FINE GRAINED POIMENA ADAMELLITE.
GENERAL COMMENTS	

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	9503.3m
EASTING	3096.8m
R.L.	731.9m
GRID	A.M.G.
LENGTH	96.2m

HOLE CONDITION

SIZE Hole Size	SIZE Depth
HAMMER	0-42.5
BY	42.5-96.2

SIGNIFICANT CORE LOSS INTERVALS From	To	% Los'

POOR GROUND CONDITION ZONES From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0		-90	0	48.0	48.0	48.0	683.9		
96		-89.75	48.00	96.2	48.2	48.2	635.7		

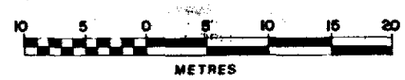
SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total

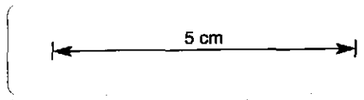
HOLE NO. BT 146

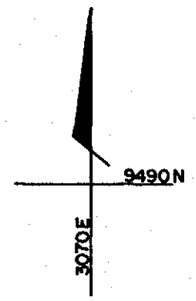
GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:

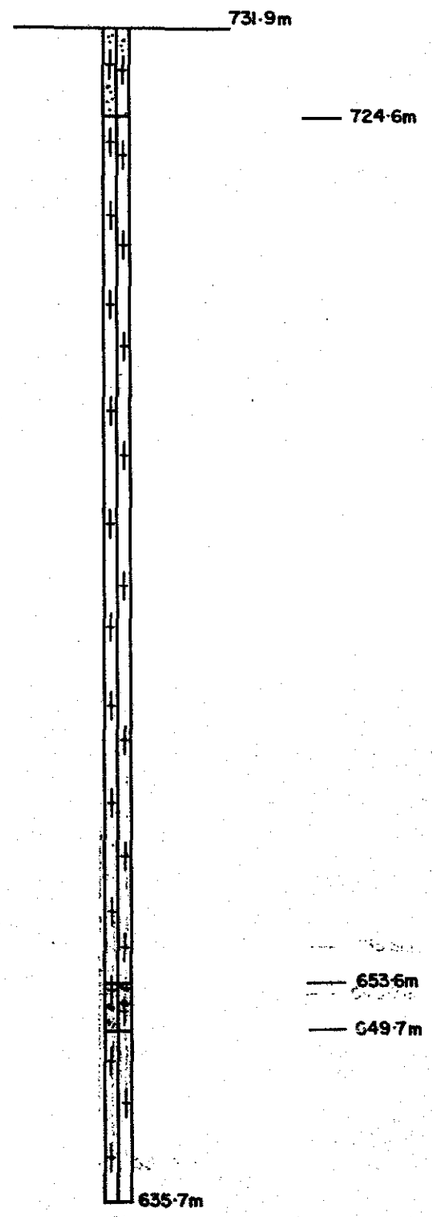






9503·3N
3096·8E

PLAN



DIP PROFILE

657114

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 146

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0	7			SOIL, STRONGLY WEATHERED POIMENA ADAMELLITE.				
7	78.25			WEATHERED TO FRESH POIMENA. VARIABLY BUT WEAKLY ALTERED AND UNUSUALLY FINE GRAINED.				
78.25	81.95			PATCHY, WEAKLY DEVELOPED GREISENISED POIMENA WITH NUMEROUS PEGMATITES.				
81.95	96.20			FRESH AND WEAKLY ALTERED FINE GRAINED POIMENA.				
				DETAILED LOG				
				0-7 SOIL AND STRONGLY WEATHERED POIMENA ADAMELLITE.				
0	7	7		Yellow-brown clay containing crystals of quartz, feldspar and biotite, the feldspar weathered to white clays.				
				7-78.25 WEATHERED TO FRESH WEAKLY ALTERED POIMENA.				
7	19	12		Consolidated light yellow-brown clay with abundant fragments of quartz, biotite and feldspar. The biotite is dark-brown-black and the feldspar, weathered to clays which are often several cm. in size.				
19	34	15		Large feldspar, phenocyrsts(up to 3cm.), partially weathered/altered to white clay, show a pale pink colouration. Quartz forms small phenocrysts, biotite - small dark flakes and pale green, platey sericite together with the pinkening of feldspar becomes more abundant below 37m, grading into the contact below.				
34	42.5	8.5		Light brown-grey granite with fresh unaltered/unweathered feldspar. Green sericite and pink tinged feldspar are common.				

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GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T.146

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				Muscovite is absent and biotite forms small black grains.				
42.50	43.50	1.0	100	Weakly porphyritic, medium-fine grained pinkish-grey granite. Small (2.3cm) pegmatite consisting of layers of quartz and feldspar at 49.20m. Fracturing with sericite coating the fracture and as a replacement mineral becomes more abundant towards lower contact.				
43.50	44.15	0.65	100	Strongly fractured with clays and iron staining on joints. Sericite replacement is common, as are thin pegmatites.				
44.15	44.70	0.55	100	Pink-grey, medium grained, weakly porphyritic granite. Weakly fractured. Large (4-5cm) "mafic clots" of very fine grained biotite dominated rounded xenoliths. Small granis of yellow sericite and a quartz veinlet (20°CA) at 44.20.				
44.70	44.80	0.10	100	10 cm pegmatite consisting of 2 cm crystals of feldspar and quartz with rare, small dark biotites.				
44.80	46.90	2.10	100	Medium and fine grained pink-grey granite. Porphyritic with large feldspar phenocrysts in places. Very weakly and unaltered.				
46.90	47.10	0.20	100	Fine grained, non-porphyritic version of above. Crudely layered.				
47.10	50.35	3.25	100	Slightly pink-grey, slightly porphyritic medium to fine grained granit. Yellow sericite grains, minor red hematite and abundant small dark biotites. Rare fractures are yellow sericite clay coated.				
50.35	53.60	3.25	100	Medium to dark grey granite. Medium grained and porphyritic, with feldspar phenocrysts up to 1.5cm in diameter. Occasional				

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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 146

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				fractures are sericite coated. Minor yellow sericite replacement of biotite. Coarse grained quartz vein (70° CA), 1cm thick at 50.45m.				
53.60	53.80	0.20	100	Strongly sericitic. The yellow-green mineral is abundant both as a replacement alteration and as a fracture coating.				
53.80	56.90	3.10	100	Slightly pink-grey granite. Fine-medium granied, weakly porphyritic and only slightly fractured. Slickensides developed.				
56.90	59.90	3.00	100	Loss of pink colouration. Small, mafic xenoliths (up to 1cm diameter) - rounded, micaceous. Fractured, but no mineral coatings.				
59.90	60.10	0.20	100	Increase in pink colour. Offset by decrease in modal biotite. This surrounds a 2cm wide (20°CA) zone of strongly altered granite.				
60.10	71.20	11.10	100	Grey granite. Medium-fine grained and slightly porphyritic. Yellow-green sericite replacing some micas and feldspars, also occurs as a fracturing coating. Rare large (3-4cm) mafic xenoliths.				
71.20	73.85	2.65	100	Grades from above into pink granite. Hematite becomes common and biotite rare. Fracturing increases slightly.				
73.2	77.25	3.40	100	Loss of pink colour and hematite. Medium-fine grained, weakly porphyritic, light grey granite. A 2cm thick, coarse grained quartz-feldspar pegmatite occurs at 76.20.				
77.25	78.25	1.00	100	Pink-grey granite. Moderatley fractured with clays developed on fractures. Minor hematite present.				
				78.25-81.95 VARIABLY, OCCASIONALLY STRONGLY ALTERED AND INCIPIENTLY CREISENISED POIMENA ADAMELLITE WITH NUMEROUS PEGMATITES				

65171

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 146

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
78.25	79.20	0.95	100	Moderately altered pink granite. Moderately fractured with yellow-green sericite replacement common. Fine-grained with fine-medium grained hematite abundant. Many thin (2cm, and 1cm) pegmatites of quartz and feldspar.
79.20	79.30	0.10	100	Weakly greisenised granite. Original textures preserved. Green sericite is pervasive with a minor pink colouration.
79.30	81.95	2.65	100	Mixed fine and coarse grained pegmatite with clots of muscovite, abundant sericite, large pink feldspars and quartz. Fractures are few and biotite is rare.
				81.95-96.20 FRESH AND WEAKLY ALTERED FINE GRAINED POIMENA ADAMELLITE.
81.95	82.75	0.80	100	Fine-medium grained pink granite with a 2cm thick pegmatite at 82.10, consisting of quartz and phenocrysts of ?tourmaline.
82.75	84.65	1.90	100	Coarse and fine grained pegmatite. Minor amounts of sericite, muscovite and biotite. Large feldspar phenocrysts are common.
84.65	85.60	0.95	100	Pink-grey fine grained granite, occasionally reddish, due to hematite. Patches of fine and coarse grained pegmatite.
85.60	89.00	3.40	100	Pink medium grained quartz granite. Very weakly porphyritic with rare, large (2cm) feldspar phenocrysts. Biotite occurs as small, black flakes. Weakly fractured with sericite coatings. Occasional thin pegmatites (3-4 cm).
89.00	91.60	2.60	100	Slightly pink medium grained granite. Slightly more porphyritic feldspar phenocrysts are more abundant. Large grains of yellow sericite are present with minor muscovite. Biotite is common. Unfractured a 1cm thick vein (80°CA) of sericite and chlorite in a quartz cement, at 90.87.

ASSAY DATA

Sample No.	From	To	Rec. %

65711S

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 146

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
91.60	95.00	3.40	100	Grey fine grianed granite. Porphyritic and unfractured it is				
				biotite rich. Between 93.75 and 94.65, a 2 mm quartz vein				
				(0° CA) surrounded by a very fine grained, grey, muscovite				
				rich silicified zone 5cm wide.				
95.00	96.20	1.20	100	Weak pink increasing to strongly pink granite. With increasing				
				pink colour a reduction in modal biotite. Sericite is common				
				and increases as a coating when fracturing increases with				
				depth.				
				END OF HOLE 96.20m				

657119

HOLE NO.:	B.T. 147
STATE :	TASMANIA

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

ULV. PRESS

PROJECT	BLUE TIER
DESIGNED BY	P.A. ROBERTS
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	3/6/82
COMPLETED	5/6/82

PURPOSE

To test the possible existence of unexposed Alkali Granite in the Wyiford East Area.

LOG SUMMARY	0-17	WEATHERED POIMENA ADAMELLITE.
	17-84.60	WEAKLY ALTERED POIMENA ADAMELLITE.
GENERAL COMMENTS	84.60	FRESH ALKALI GRANITE.

ASSAY SUMMARY

INTERVAL														COMMENTS
From	To													

LOCATION

NORTHING	9680.6m
EASTING	3297.8m
R.L.	719.2
GRID	A.M.G.
LENGTH	115.55m

HOLE CONDITION

SIZE	
Hole Size	Depth
HAMMER	0-34m
BY	34-115.55m

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY			INTERVAL			VERTICAL		HORIZONTAL	
Depth	Bearing	Dip	From	To	Distance	D. Sin. Dip	R.L.	D. Cos. Dip	Prog. Total
0		-90.0	0	57.5	57.5	57.5	661.70		
115		-89.0	57.5	115.55	58.05	58.04	603.66		

SURVEY			INTERVAL			VERTICAL		HORIZONTAL	
Depth	Bearing	Dip	From	To	Distance	D. Sin. Dip	R.L.	D. Cos. Dip	Prog. Total

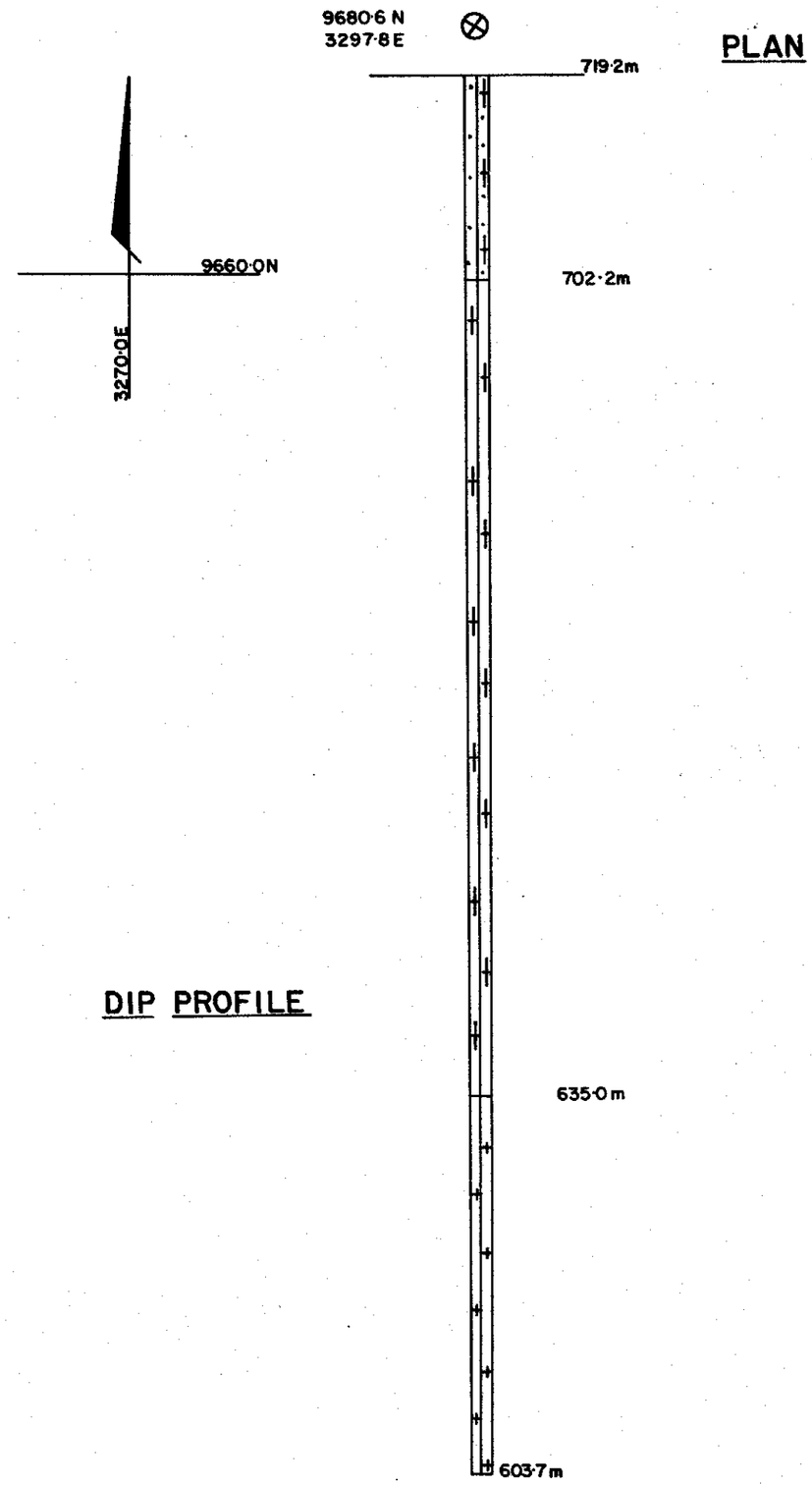
657120

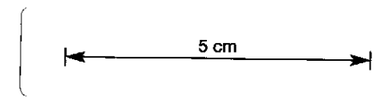
HOLE NO. BT 147

GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:





657121

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 147

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0	17			SOIL AND STRONGLY WEATHERED POIMENA ADAMELLITE.				
17	84.60			VARIABLY WEAKLY ALTERED POIMENA ADAMELLITE WITH SEVERAL APLITIC NUMEROUS PEGMATITIC PHASES.				
84.60	115.55			FRESH AND INCIPIENTLY ALTERED ALKALI GRANITE.				
				DETAILED LOG				
				0-17 SOIL,STRONGLY WEATHERED POIMENA ADAMELLITE.				
0	12	12		Pale brown sand and rock fragments.				
12	17	5		Light brown granite fragments. Feldspars are relatively fresh and muscovite is present red hematite and sericite are rare.				
				17-84.60 PREDOMINANTLY FRESH POIMENA WITH MINOR APLITES AND PEGMATITES.				
17	21	4		White granite fragments. Very-fine crushed.				
21	24	3		Pink chips of feldspar and quartz with minor amounts of biotite and muscovite. A pegmatite.				
24	29	5		Grey granite. Dark brown-black biotites are abundant with large white feldspar phenocrysts. Minor hematite is also present.				
29	40.30	10.30	91	Pink-grey granite. Large pink phenocrysts (up to 3.4cm) of feldspar. Coarse grained, it contains small dark biotites with small grains of yellow sericite and red hematite.				
40.30	40.80	0.50	100	Coarse grained (1cm) pegmatite of very pink feldspar and quartz with accessory yellow sericite.				

657122

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 147

Page: 2.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
40.80	48.95	8.15	100	Pinkish-grey granite, porphyritic and coarse grained with numerous pink feldspar phenocrysts. Relatively unfractured it contains minor sericite and hematite, with patches of increased modal biotite. Pegmatites of medium granied quartz and feldspar with sericitised joints occur between 41.85-41.95 and 43.55-43.65.				
48.95	55.50	6.55	100	Greenish-grey fine-medium grained porphyritic granite. Feldspars have a green tinge. Biotite occurs as fine grained flakes. Numerous thin pegmatites and microcrystalline quartz veins form sinuous features. Several fractures coated with sericite occur.				
55.20	55.80	0.30	100	A 2cm thick pegmatite consisting of feldspar with minor quartz and biotite (10° CA) is underlain by an aplite with thin quartz veinlets. The aplite contains very fine grained quartz with minor feldspar and biotite. This is underlain by a 3cm pegmatite.				
55.80	59.20	3.30	100	Pale green-grey granite, with white feldspar phenocrysts and veinlets of pegmatite and aplite.				
59.20	61.80	2.70	100	Pink granite. Porphyritic and coarse grained, with minor hematite and sericite. Gradational contacts above and below.				
61.80	72.60	10.80	100	Green-grey granite. Very porphyritic in places, with large white-green feldspars up to 4cm. Coarse grained and patches of increased medium-coarse grained modal biotite. Fracturing is weakly developed- some are clay coated.				
72.60	78.10	5.50	100	Pale pink-grey coarse-medium grained porphyritic granite. Several thin medium grained pegmatites and quartz veinlets occur. Pink colour is variable, becoming stronger with more abundant hematite. Sericite content is variable. Between 74.20 and 74.50 a pink medium grained pegmatite surrounds a 5cm thick, horizontal muscovite rich, fine grained aplite.				
78.10	84.55	6.45	100	Green-grey granite with pink tinged feldspar phenocrysts. Biotite				

657123

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 147

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				is more abundant than normal. Green sericite is common. Fractures are limonite coated. At 84.50 a 0.5cm layer of coarse grained biotite.				
84.55	84.60	0.05	100	A quartz rick pegmatite, with limonite coated fractures. Micas are uncommon.				
				84.60-115.55 ALKALI GRANITE: PREDOMINANTLY FRESH				
84.60	85.15	0.55	100	Pale green-white, equigranular, non-porphyritic granite. Muscovite rather than biotite is the mica phase. Medium grained.				
85.15	92.65	7.50	100	Variable coloured, bleached white, pale green and orangey-pink granite. The green is due to sericite and an incipiently developing greisenisation, the orangey pink, limonite. Moderately fractured with both limonite and sericite coatings, the fractures are all low CA angles. Between 91.35 and 92.35 a 1cm band (at 0° CA) of strongly sericitised granite surrounded by a 3cm thick zone of strongly, limonitised granite.				
92.65	94.50	1.85	100	Variably coloured, equigranular, medium granied granite with increased fracturing and quartz veinlets (at low CA angles). Granite is fresh.				
94.50	102.75	8.25	100	Alternating (approximately every 0.75m) greenish-white and orange white granite. Very weakly fractured with limonite and sericite coatings.				
102.75	103.35	0.60	100	Orange-white granite, moderately highly fractured with white clay infilling the fractures.				
103.35	107.10	3.75	100	Alternating orangey-white and greenish-white, equigranular, medium grained granite.				
107.10	109.20	2.10	100	Weak orange-white granite with patches of bright green sericite.				

651124

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 147

Page: 4.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				Weakly developed fractures with limonite coatings. Between				
				107.50 and 107.80 fracturing increases to strongly fractured				
				with sericite infillings.				
109.20	111.80	2.60	100	Fresh, bleached orangey-white granite. Weakly fractured with				
				a few green sericite patches. Equigranular quartz, feldspar				
				and muscovite with rare single flakes of brown biotite. Non-				
				porphyritic and medium grained.				
111.80	115.55	3.85	100	Slight orange-white granite, weakly fractured in places and				
				strongler in others, with white clays, yellow-green sericite				
				and fluorite as coating minerals. Medium grained and equi-				
				granular.				
				END OF HOLE 115.55m				

65/125

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO. :	B.T. 148
STATE :	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	P.A. ROBERTS
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	7-6-82
COMPLETED	11-2-82

PURPOSE

To test the possible existence of unexposed Alkali Granite in the Wyniford West Area.

LOG SUMMARY	0-32 WEATHERED POIMENA ADAMELLITE. 32-103.70 WEAKLY ALTERED POIMENA ADAMELLITE.
GENERAL COMMENTS	

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	8834.9
EASTING	1819.7
R.L.	739.6
GRID	A.M.G.
LENGTH	103.70m

HOLE CONDITION

SIZE	
Hole Size	Depth
HAMMER	0-52
BY	52-103.7

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0		-90.0	0	51.5	51.5	51.5	688.1		
103		-88.25	51.5	103.7	52.2	52.2	635.9		

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total

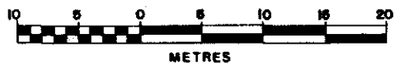
65 71 26

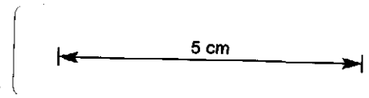
HOLE NO. **BT 148**

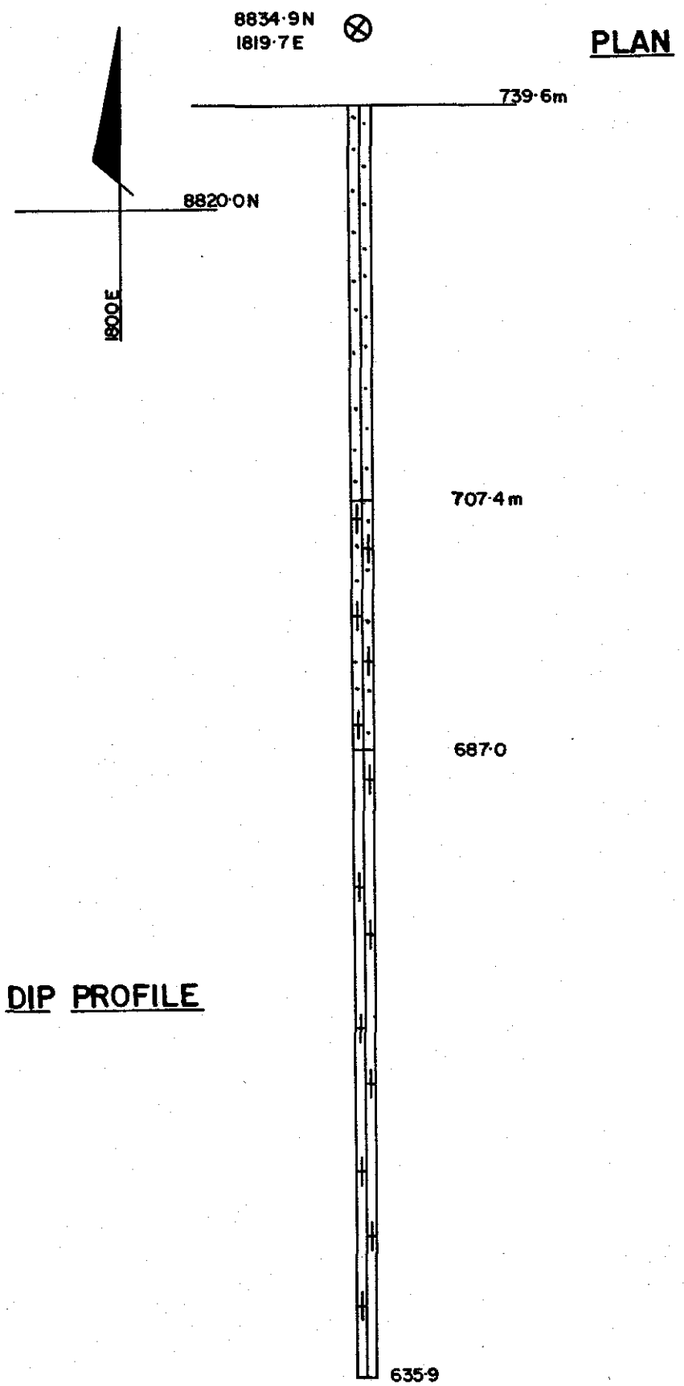
GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:







657127

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 148

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0	32			SOIL, CLAY AND WEATHERED POIMENA ADAMELLITE.				
32	52.60			SLIGHTLY WEATHERED POIMENA ADAMELLITE.				
52.60	103.70			POIMENA ADAMELLITE WITH NARROW ZONES EXHIBITING MODERATE ALTERATION, APLITES AND PEGMATITES.				
				DETAILED LOG				
				0-32 SOIL AND DEEPLY WEATHERED ADAMELLITE.				
0	10	10		Brown, coarse grained clayey soil. Weathered white feldspars and black biotites.				
10	22	12		Rock chips, clay and sand; light and dark brown. A few large unaltered feldspar phenocrysts.				
22	29	7		Increased sand component. Some feldspars are pink. Dark brown fragments - still soil.				
29	32	3		Clay content increases to a brown clay layer between 31 and 32 (poor recovery).				
				32-52.6 SLIGHTLY WEAHTERED ADAMELLITE.				
32	49	17		Pink-brown weathered granite. Minor clay and sand fraction. Feldspars are both white and pink - unweathered. A clay-rich seam occurs between 40 and 42.				
49	52.60	3.60		Orangey-grey porphyritic granite. Coarse grained with few joints and minor sericite patches. Thin pegmatites and limonite staining are common.				

65125

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 148

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				52.60-103.70 POIMENA ADAMELLITE, VARIABLY WEAKLY ALTERED WITH PEGMATITES AND APLITES.				
52.60	56.30	3.70	100	Grey porphyritic, coarse grained granite. 2-3cm white feldspar phenocrysts, coarse grained, black biotites "books" and xenoliths of mafic crystals-fine grained biotites, 2-3cm wide. Unfractured.				
56.30	56.60	0.30	100	A 8cm thick coarse grained pegmatite of feldspar-quartz and rare biotite, at 75°CA. Underlain by 7cm quartz vein-massive quartz with rare feldspars and biotites. Underlain by 15cm mixed fine and coarse grained pegmatite similar to the one above.				
56.60	58.95	2.35	100	Orangey-grey porphyritic granite. Limonite stained quartz (small phenocrysts - 0.5cm) and patches of light green sericite. A 0.3cm (70°CA) quartz veinlet at 58.85.				
58.95	63.85	4.90	100	Pink-grey porphyritic, coarse grained granite with rare patches of yellow-green sericite. Very thin quartz veinlets infilling fractures gives way to sericite infillings with increased fracturing grading downwards. Between 60.45 and 60.85, 20cm. of soft highly fractured, strongly sericitised granite: underlain by 20cm of unfractured, coarse grained, pink pegmatite.				
63.85	65.65	1.50	84	Very coarse grained pinkish granite. Crumbly with abundant light to green sericite. Subhorizontal, parallel, closely spaced, thin sericite filled fractures and quartz veinlets. Biotite is uncommon.				
65.65	69.55	3.90	100	Coarse grained pink granite. Competent with few fractures or quartz veinlets. Much biotite. A few subhorizontal layers of 1-2mm thick veinlets of quartz, sericite and ?chlorite.				
69.55	73.15	3.60	100	Pink granite, coarse grained with large (1cm) patches of pale green sericite. Fractures increase locally to produce crumbly rock (sericite coated fractures) and between 70.90 and 70.95				

651129

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 148

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				a very fine grained, sub-horizontal aplite of quartz-feldspar-muscovite.				
73.15	75.00	1.85	100	Very faint pink-greenish-grey granite. Quartz veining and fractures are absent or rare, as are sericite patches. A few large (5cm) xenoliths of quartz-feldspar-numerous small biotites ("mafic clots") are present.				
75.00	81.35	6.35	100	Green-dark grey granite. Large feldspar phenocrysts are green-white. Green colour fades with depth as does sericite and rare "mafic clots". Between 75.00 and 76.80 are numerous, thin parallel (45°CA) veinlets of "black quartz".				
81.35	92.65	11.30	100	Pale grey granite, biotite poor and coarse-medium grained. Feldspar phenocrysts are off-white and quartz is grey. Modal biotite increases with depth. Between 90.80 and 90.85 a coarse grained quartz-feldspar-rare biotite pegmatite.				
92.65	94.60	1.95	100	Grey-granite with slightly pink feldspar phenocrysts. Between 93.30-93.55 and 94.20 and 94.60, strongly sericitised, pale green, crumbly rock.				
94.60	99.80	5.30	100	Slight pink and green-grey granite. Porphyritic and coarse grained. Aplites fine grained, equigranular, consisting of quartz, feldspar and rare biotite, occur between 98.20-98.30 and and 98.50-98.70.				
99.80	103.70	3.90	100	Pinkish-grey granite, coarse grained and porphyritic. Rare, red hematitic horizons.				
				END OF HOLE 103.70				

657130

HOLE NO.	: B.T. 149
STATE	: TASMANIA

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

ULV. PRESS

PROJECT	BLUE TIER
DESIGNED BY	P.A.ROBERTS
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	11-6-82
COMPLETED	16-6-82

PURPOSE

To test the possible existence of unexposed Alkali Granite in the Wyniford West Area.

LOG SUMMARY	0 - 14 WEATHERED POIMENA ADAMALLITE.
GENERAL COMMENTS	14 - 100 INCIPIENTLY ALTERED POIMENA ADAMELLITE.

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	8932.2
EASTING	1586.8
R.L.	746.2
GRID	A.M.G.
LENGTH	100m

HOLE CONDITION

SIZE	
Hole Size	Depth
HAMMER	0-100

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY			INTERVAL			VERTICAL		HORIZONTAL	
Depth	Bearing	Dip	From	To	Distance	D. Sin. Dip	R.L.	D. Cos. Dip	Prog. Total
0		-90.0	0	50	50	50	696.2		
100		-89.2	50	100	50	50	646.2		

SURVEY			INTERVAL			VERTICAL		HORIZONTAL	
Depth	Bearing	Dip	From	To	Distance	D. Sin. Dip	R.L.	D. Cos. Dip	Prog. Total

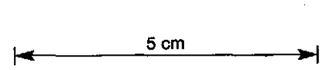
69-1131

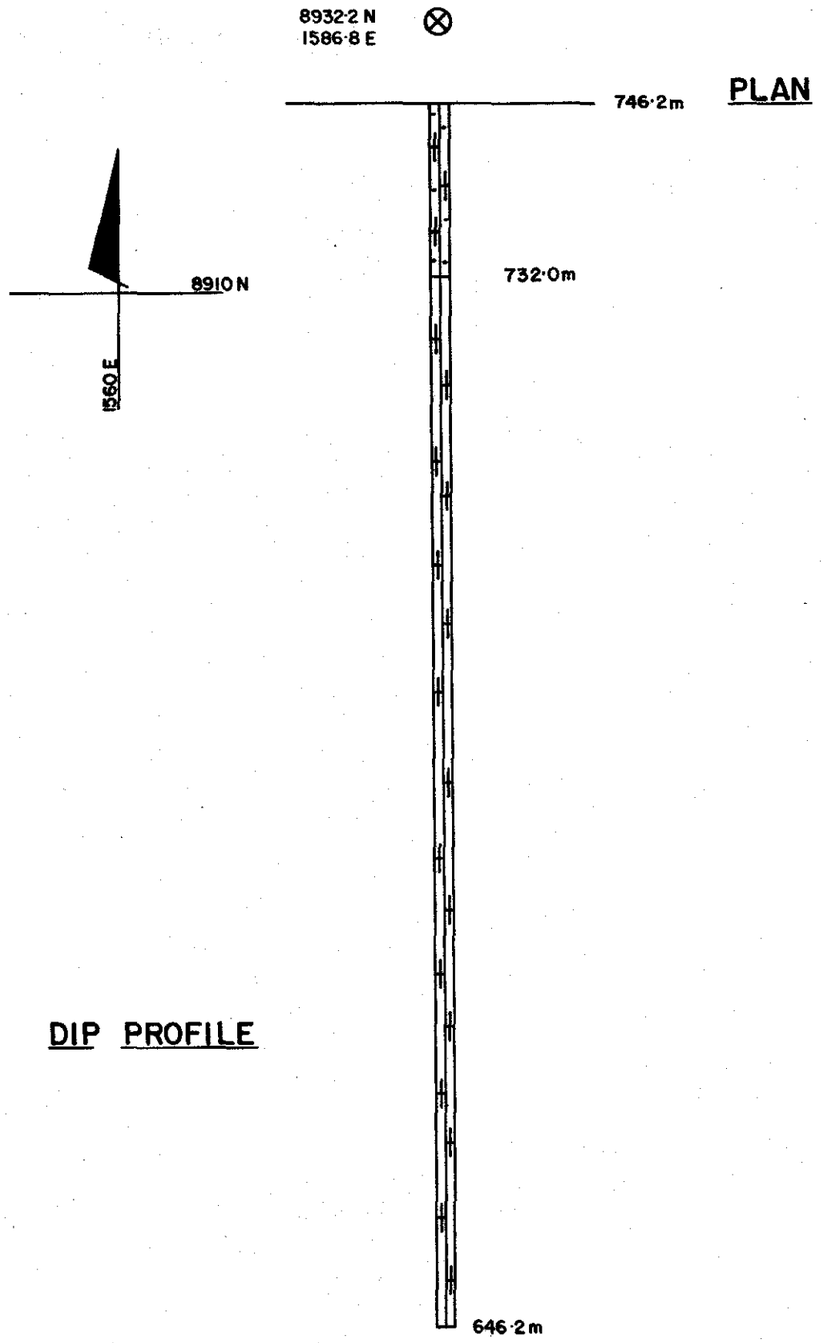
HOLE NO. **BT 149**

GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:





657132

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 149 Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				SUMMARISED LOG
0	14			WEATHERED POIMENA ADAMELLITE
14	100			INCIPIENTLY ALTERED POIMENA ADAMELLITE
				DETAILED LOG
				0-14 WEATHERED POIMENA ADAMELLITE
0	6	6		A weathered clayey soil with few rock fragments. Brown colour.
6	8	2		Weathered brown rock. Very minor clay component, with some sand.
8	14	6		Slightly weathered grey-brown rock. Feldspars are predominantly unweathered.
				14-100 INCIPIENTLY ALTERED POIMENA ADAMELLITE
14	37	23		Grey granite: porphyritic with white feldspar phenocrysts, some altered/weathered to white, clays. Pale green sericite and pale orange limonite stained chips. Coarse grained, with small quartz phenocrysts and numerous small, black biotites.
37	38	1		Strongly weathered, limonitic, clay rich, light brown rock.
38	45	7		Light brown-grey granite. Coarse grained and feldspar porphyritic with abundant limonite staining.
45	67	22		Greenish-grey, coarse grained, porphyritic granite. Limonite staining is rare, sericite as a pale green coating is common. Between 60-64. A distinct red (hematitic?) colouration on feldspar phenocrysts, producing an overall pink-green-grey colour, which grades downwards.

ASSAY DATA

Sample No.	From	To	Rec. %

65/133

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 149

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
67	70	3		Pink-grey granite. Porphyritic and coarse grained, with abundant limonite staining.
70	84	14		Greenish grey, feldspar porphyritic granite. Sericite is patchily developed and limonite is rare. Local increases in sericite produce a deeper green colour.
84	97	13		Pink-greenish-grey granite. Small quartz phenocrysts and "book" biotites are abundant. Staining due to limonite and sericite is strong. Pink stained feldspar phenocrysts are common.
97	100	3		Greenish-grey granite with large white feldspr phenocrysts, numerous, small, black biotites are rare light orange limonite stained grains. Pale green sericite staining is common.
				END OF HOLE 100.0m.

ASSAY DATA

Sample No.	From	To	Rec. %

65P134

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO. :	B.T. 150
STATE :	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	P.A. ROBERTS
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	17/6/82
COMPLETED	22/6/82

PURPOSE

To test the possible existence of unexposed Alkali Granite.
Hole deepened; 2-9-83 to 6-9-83

LOG SUMMARY

0 - 39.0	Weathered Poimena Adamellite.
39.0 -171.0	Variably altered Poimena Adamellite.
171.0 -191.0	Unaltered Alkali Granite.

GENERAL COMMENTS

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	6994.3
EASTING	5003.9
R.L.	499.6
GRID	A.M.G.
LENGTH	111.50

Deepened to 191.0

HOLE CONDITION

SIZE	
Hole Size	Depth
HAMMER	0-72.7
BY	72.7-111.5
BQ	111.5-191.0

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

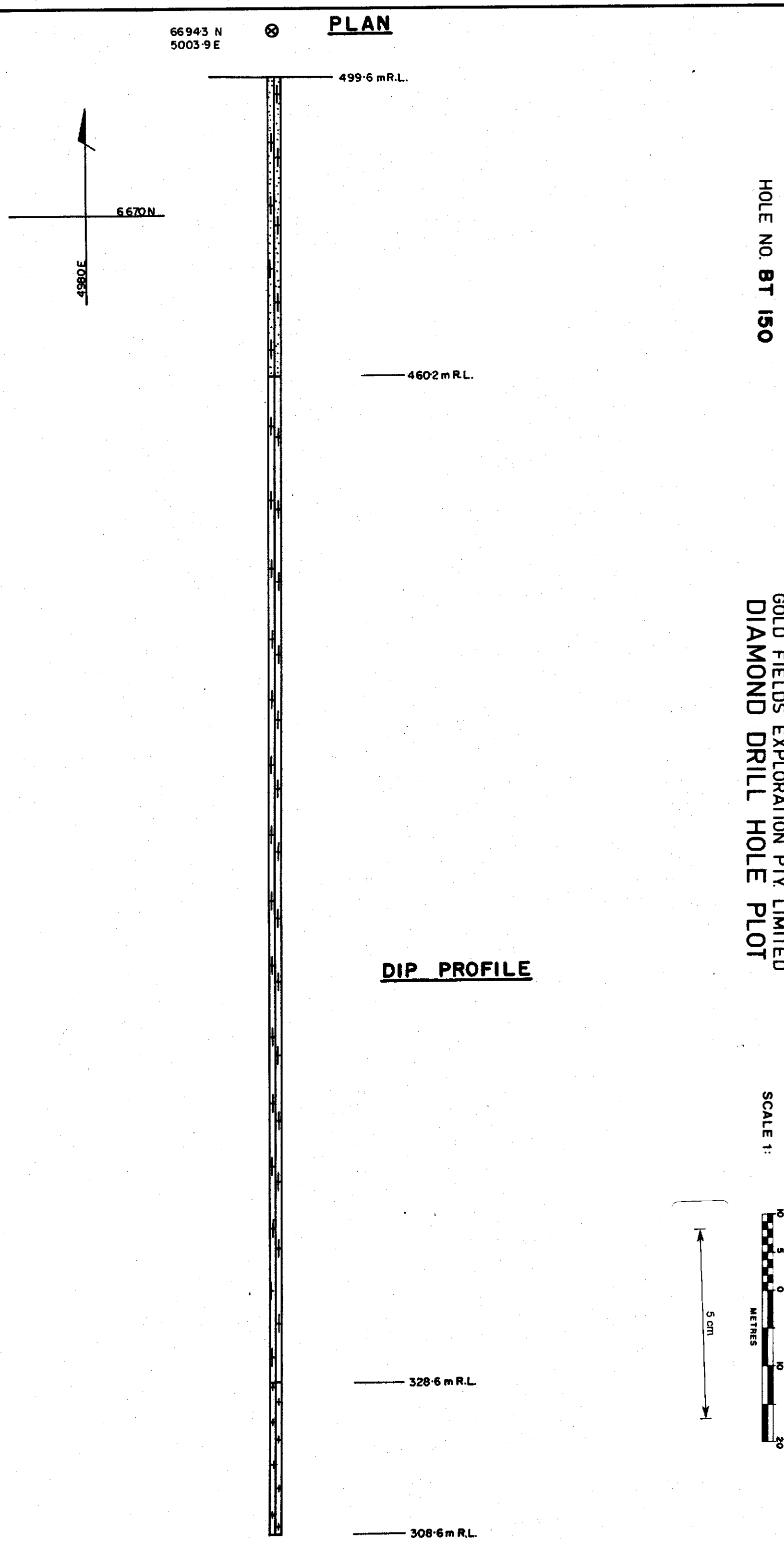
Hole now open with a black polythene marker.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY			INTERVAL			VERTICAL		HORIZONTAL	
Depth	Bearing	Dip	From	To	Distance	D. Sin. Dip	R.L.	D. Cos. Dip	Prog. Total
0	-	-90.0	0	55.5	55.5	55.5	444.1		
111	-	-89.0	55.5	111.5	56.0	56.0	388.1		
141.2	-	-88.5	111.5	162.2	50.7	50.7	337.4		
183.2	-	-88.5	162.2	191.0	28.8	28.8	308.6		

SURVEY			INTERVAL			VERTICAL		HORIZONTAL	
Depth	Bearing	Dip	From	To	Distance	D. Sin. Dip	R.L.	D. Cos. Dip	Prog. Total

65113



GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

HOLE NO. BT 150

657136

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 150

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				0-39 WEATHERED AND SLIGHTLY WEATHERED POIMENA ADAMELLITE.				
0	22	22		Orange-brown weathered granite. Large white feldspar phenocrysts, some weathered to white clays, black biotites and Fe-oxide stained quartz are the main minerals.				
22	26	4		Grey-orange slightly weathered granite. A decrease in the amount of Fe-oxide corresponds to an increase in green sericite.				
26	39	13		Grey granite with slight orange colour. Fe-oxide staining is still common as are weathered feldspar phenocrysts.				
				39-111.50 VARIABLY BUT GENERALLY WEAKLY ALTERED POIMENA ADAMELLITE.				
39	72.70	33.70		Grey porphyritic granite. Feldspar phenocrysts are fresh and white. Sericite is rare, as is Fe-oxide staining. Biotite is present as small aggregates and clusters.				
72.70	84.50	11.80	100	Greenish-grey granite. Moderately porphyritic and medium grained with a few very large (3-4cm) phenocrysts of feldspar, smaller feldspar phenocrysts and small quartz phenocrysts. Mafic dots of fine grained quartz and feldspar with coarse grained biotite occur as small (5-6cm) rounded bodies. Moderately to poorly fractured with sericite in the fractures and increased modally in the rock surrounding them. Minor quartz veinlets also occur randomly throughout. Between 82.20 and 82.95, a 75cm pegmatite of medium grained, equigranular feldspar and quartz occurs. Moderately fractured with light green sericite and traces of fluorite on joint surfaces.				
84.50	88.10	3.60	100	Pale grey granite with only very minor sericite development. Fractures are moderate with minor sericite coatings.				
88.10	94.80	6.70	100	Pale grey-green granite. Weakly porphyritic and medium to				

657137

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 150

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				fine grain size. Still moderately fractured with sericite, quartz and fluorite as infilling minerals. Sericite is moderately developed in the rock.				
94.80	100.20	5.40	100	Grey granite. Fresh, with sericite found only in the vicinity of fractures filled with clays. Poorly fractured and strongly porphyritic with a few minor quartz veinlets.				
100.20	111.50	11.30	100	Greenish-grey granite. Moderately jointed and sericitised except in a few places where increased alteration produces a crumbly, highly fractured, clay-sericite rich rock. Moderate to weakly porphyritic with patches of biotite accumulation. Becomes relatively coarse grained at depth.				
				END OF HOLE 111.50				
				B.T. 150 DEEPENED 2-9-83 to 6-9-83				
111.50	159.0	47.5	100	Grey, medium grained, porphyritic granite. Unaltered apart from a few sericitised fractures. Also, zones of pink hematitic granite occur. Overall, incipiently fractured. A few large (3cm feldspar phenocrysts occur otherwise they are around 2cm long. Smaller (0.5-1cm) phenocrysts of feldspar and quartz are present together with "book biotites" - dark coloured clots of the mica. A few finer-granied phases also exist. Between 120.0 and 123.0, a zone of highly fractured and moderately sericitised granite occurs. At 126.5, a 30cm fine-medium grained, grey, unaltered aplite. At 152.4, a major vein of white feldspar, colorless quartz and green + brown sericite runs at 0° CA for 1.9m. Accessory purple fluorite occurs and the vein has a narrow, weakly developed silicified halo.				
159.0	171.0	12.0	100	Pale pink-green, grey granite. Medium grained and porphyritic				

651138

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 150

Page: 3.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				with the larger feldspars coloured pale pink and the smaller ones				
				pale green. The biotites become rare, being replaced by pale				
				brown-grey clays. Still incipiently fractured with sericite				
				fillings. Overall slightly to weakly altered.				
				At 170.2, a 0.4m thick, pale pink, medium grained quartz-				
				feldspar aplite.				
				At 170.95, a 0.5m thick, weakly sericitised medium grained				
				pegmatite of quartz, feldspar and biotite.				
171.0				CONTACT				
				171.0-191.0 UNALTERED, MEDIUM GRAINED, EQUIGRANULAR ALKALI				
				GRANITE				
171.0	191.0	20.0	100	Pale green-grey, medium grained, equigranular alkali granite.				
				Unaltered apart from fractures filled with green sericite and				
				zones of incipiently developed pale green sericite replacing				
				micas. Fracturing is rare.				
				At 173.2, a 10cm thick, pale grey, unaltered aplite.				
				Below 175.0, the granite is pale grey and completely unaltered.				
				Below 186.0, several fractures with pale green sericite infill-				
				ings (2mm wider) occur. Pyrite also occurs as an accessory				
				phase with the sericite.				
				END OF HOLE 191.0				

65/139

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED
DRILL CORE RECORD

HOLE NO.	B.T. 151
STATE	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	P.A. ROBERTS
LOGGED BY	A.J. Cartwright
COMMENCED	23/6/82
COMPLETED	25/6/82

PURPOSE

To test the possible existence of unexposed Alakali Granite. Michael Moon Area.

LOG SUMMARY	0-16 WEATHERED POIMENA ADAMELLITE.
GENERAL COMMENTS	16-101.90 WEAKLY ALTERED COARSE GRAINED POIMENA ADAMELLITE WITH NUMEROUS PEGMATITES AND OCCASIONAL APLITES.

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	9290.1
EASTING	4524.6
R.L.	770.1
GRID	A.M
LENGTH	101.90

HOLE CONDITION

SIZE	
Hole Size	Depth
HAMMER	0-43m
BY	43-101.90

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0		-90.0	0	50.5	50.5	50.5	719.6		
101		-89.9	50.5	101.90	51.4	51.4	668.2		

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total

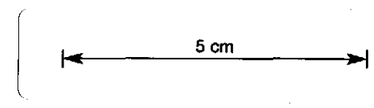
657140

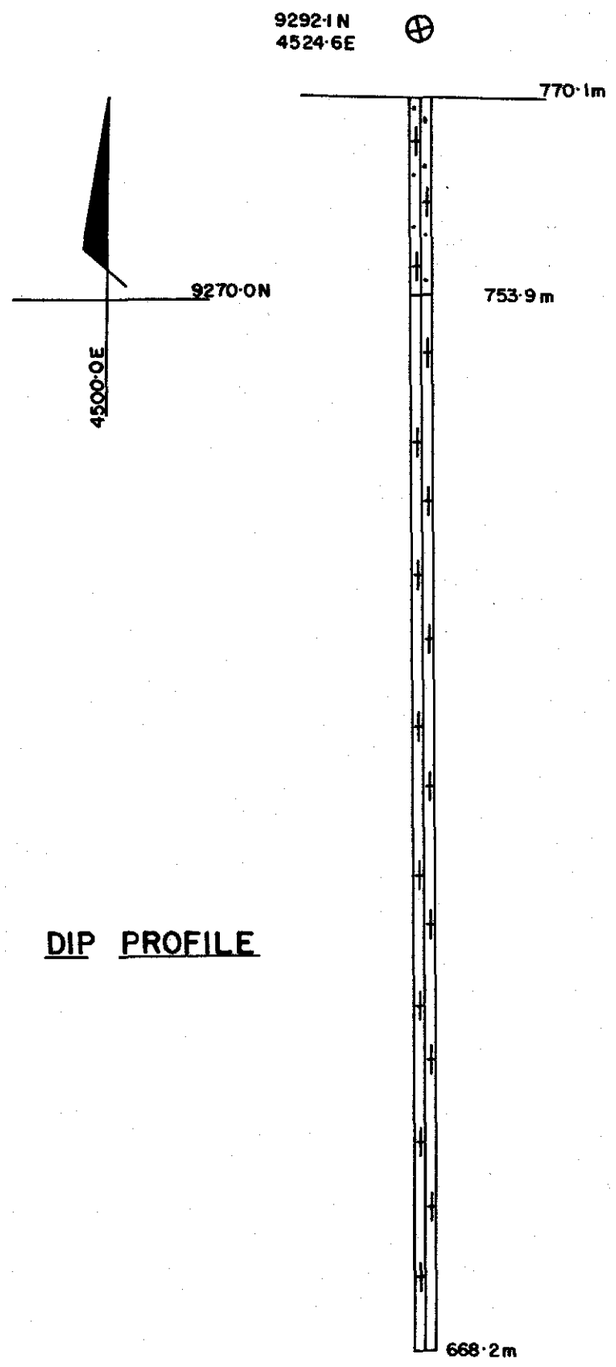
HOLE NO. **BT 151**

GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:





657141

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 151

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0	16			WEATHERED POIMENA ADAMELLITE				
16	101.90			WEAKLY ALTERED COARSE GRAINED POIMENA ADAMELLITE WITH NUMEROUS PEGMATITES AND OCCASIONAL APLITES.				
				DETAILED LOG				
0	16	16		0-16 WEATHERED POIMENA ADAMELLITE Brown-orangey grey, weathered granite. Oxidised mafic minerals occur and orange clays replace feldspars (phenocrysts). With depth becomes less weathered and more grey in colour, containing abundant small quartz phenocrysts and many unweathered feldspars.				
16	22	6		16-101.90 WEAKLY ALTERED POIMENA ADAMELLITE WITH MANY PEGMATITES AND APLITES. Light grey, fresh granite with very minor pale orange clays and staining due to weathered. Rare, tiny hematite flakes.				
22	47.60	25.60	100	Dark grey-greenish granite. Medium-coarse grained with large white feldspar phenocrysts (up to 3cm). Smaller quartz phenocrysts and black biotite flakes make the remaining phases. Unfractured.				
47.60	49.20	1.60	100	Biotite rich grey granite, green and pink coloured feldspars. Very coarse grained with biotite occuring as large flakes. Thin pegmatites of quartz, feldspar and biotite are common. Between 48.50 and 49.20, a mixed coarse and fine grained pegmatite of quartz, feldspar and biotite with several muscovite-rich horizons. Pink-green in colour.				
49.20	67.60	18.40	100	Pinkish-green dark grey granite. Coarse grained and porphyritic with patchily distributed biotites. Sericite and hematite are responsible for the green and pink colouration in the				

65142

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T.151

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				feldspars. Few fractures: thinly coated with green sericitic clays.				
				At 59.15, pyrite occurs as a thin coating on a joint surface.				
				Between 59.25 and 59.85, a monomineralic, cryptocrystalline quartz vein, 1-2cm wide (0° CA).				
				Between 63.50 and 64.20, a medium grained, highly fractured pink feldspar-quartz pegmatite.				
67.60	68.65	1.05	100	Very coarse grained granite, similar to above, but more fractured with numerous pegmatites. Yellow sericite is common, coating fractures.				
68.65	83.35	15.30	100	Predominantly medium grained with rare coarse grained sections. Pale pink, slightly greeinsh grey granite. Numerous thin pegmatites and aplites occur. Porphyritic, with rare sericite and weakly fractured although local increases to produce zones of incompetent, crumbly rock (usually less than 0-5m) are present.				
83.35	84.65	1.30	100	Mixed phases of granite (slightly altered), quartz-sericite-mica mosaics, and quartz-feldspar-sericite pegmatites, all around 30cm thick.				
84.65	86.70	2.05	100	Pink green granite, porphyritic and coarse grained. Strongly developed sericite and pink feldspar phenocrysts. Unfractured.				
86.70	87.80	1.10	100	Variety of granite, pegmatites and veins of quartz, pink feldspar and sericitised (green) biotites, intergrown. The vein is at 30° CA and is 1cm thick (quartz).				
88.80	101.90	14.10	100	Pink green granite, coarse grained and moderately porphyritic. Sericite occurs as dark and pale green patches, veinlets and fracture coatings. Fracturing is variable - in places the granite is soft and friable, in others totally unfractured. Large black biotites are common.				

651143

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 151

Page: 3.

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA													
From	To	m	%		Sample No.	From	To	Rec. %										
				At 95.45, 40 cm of quartz-very pale green sericite, anastamosing veinlets.														
				Between 97.30 and 98.80, at 15° CA, a medium grained aplite of very pale pink feldspars, black biotites and colourless quartz, with minor green sericite and lenses of granite.														
				END OF HOLE 101.90														

95714 4

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO.	B.T. 152
STATE	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	P.A. ROBERTS
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	25-6-82
COMPLETED	29-6-82

PURPOSE

To test the possible existance of unexposed Alkali Granite in the Michael Moon area.

LOG SUMMARY	0-21m	MODERATELY TO WEAKLY WEATHERED POIMENA ADAMELLITE
	21-99.3m	VARIABLY BUT PREDOMINANTLY WEAKLY ALTERED POIMENA ADAMELLITE.
GENERAL COMMENTS		

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	9383.9
EASTING	4791.3
R.L.	778.55
GRID	A.M.
LENGTH	99.30m

HOLE CONDITION

SIZE	
Hole Size	Depth
HAMMER	0-64m
BY	64-99.3m

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total	SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0		90.0	0	49.5	49.5	49.5	729.05												
99		90.0	44.5	49.8	49.8	49.8	679.25												

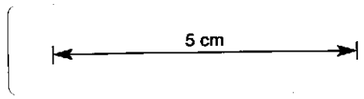
65143

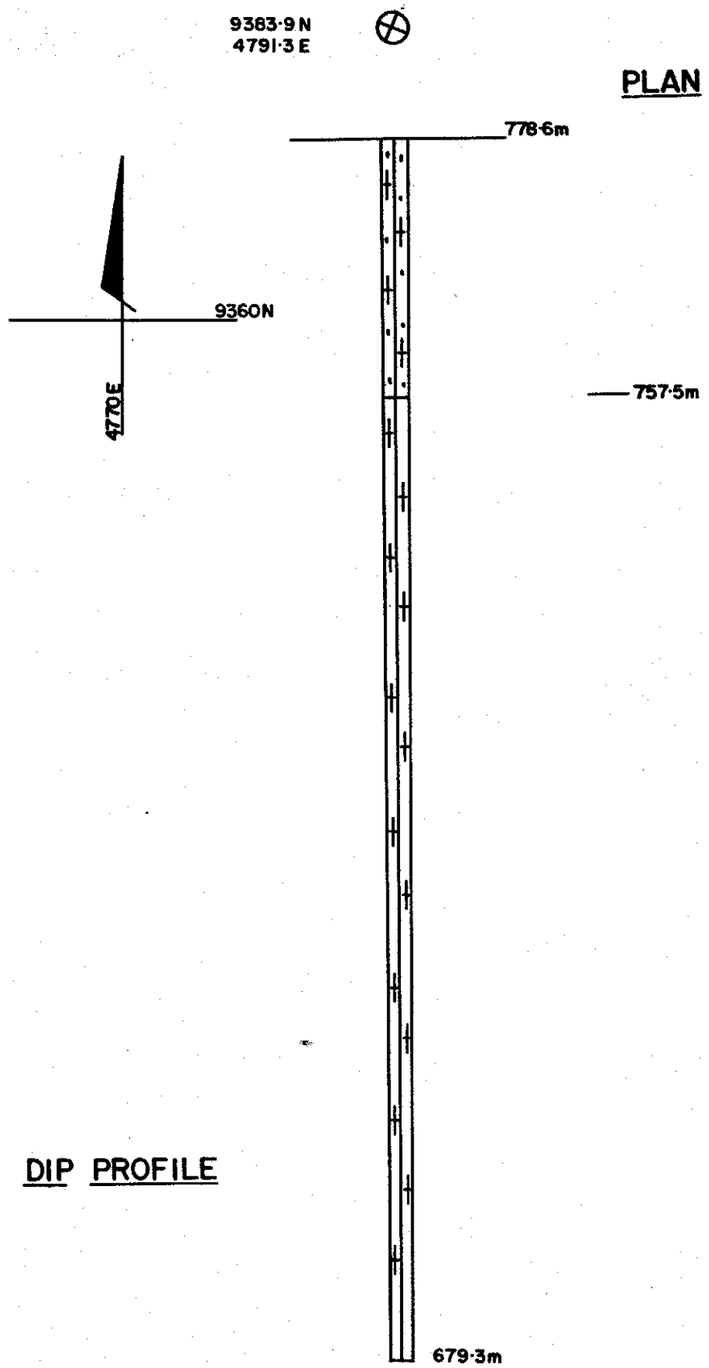
HOLE NO. BT 152

GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:





657146

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 152.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				0-21 WEATHERED POIMENA ADAMELLITE				
0	7	7		Strongly weathered granite and soil. Abundant clays and sand with occasional white, weathered rock fragments.				
7	14	7		Brown grey weathered granite. Colourless quartz, weathered feldspars as large phenocrysts and limonitised biotites are the predominant minerals.				
14	21	7		Pale grey granite. Limonite coatings and weathered feldspars are rare. Modal biotite increases producing a darker grey colour with depth.				
				21-99.3 WEAKLY ALTERED POIMENA ADAMELLITE				
21	47	26		Medium-dark grey granite with minor green sericite. Large phenocrysts of white feldspar, smaller phenocrysts of quartz and small, black biotites.				
47	53	6		Orangey-grey grey granite. Limonite stained quartz grains and decreased modal biotite are characteristic. Sericite is absent.				
53	57	4		Purple-grey granite with slight orange tinge. Minerals present are black biotites as small aggregates, large white feldspar phenocrysts, colourless quartz and purple fluorite: medium grained. Limonite and sericite are rare.				
57	78.60	21.60	100	Medium grey granite, porphyritic with large phenocrysts of feldspar. Sericite is rare and orange limonite staining is weakly developed, predominantly around occasional fractures. Medium grained with abundant, small dark biotite clusters. Rare pegmatite--granite intergrowths occur. A major pegmatite lies between 74.50 and 75.25, consisting of coarse grained pale orange feldspar and quartz with accesory biotite, muscovite and ?tourmaline.				

ASSAY DATA

Sample No.	From	To	Rec. %

657147

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 152

Page: 2.

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA			
From	To	m	%		Sample No.	From	To	Rec. %
78.60	90.95	12.35	100	Orangey-green-grey granite. Moderately altered with abundant limonite development. Weakly fractured overall, with small zones (up to 20cm) of highly fractured, crumbly, strongly altered rock. Numerous thin quartz veinlets occur, producing increased sericitisation and limonitisation approximately 3cm.either side.				
90.95	92.45	1.50	100	Dark grey green granite. Porphyritic and medium grained with large (up to 3cm) white feldspars, dark green sericitised feldspars, quartz and black biotites. Rarely fractured and unlimonitised.				
92.45	99.30	6.85	100	Grey granite with orange limonite and green sericite. Weakly fractured with pale green sericite clay coatings. Orange limonite increases around fractures also. Reddish hematite flakes become abundant with depth. At 95.00, a 40cm zone and at 96.25 a 15cm zone of highly fractured, crumbly, yellow-green sericite rich rock with thin quartz veinlets (20° CA).				
				END OF HOLE 99.30 m.				

65/145

HOLE NO.	: B.T. 153
STATE	: TASMANIA

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

ULV. PRESS

PROJECT	BLUE TIER
DESIGNED BY	P.A. ROBERTS
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	30-6-82
COMPLETED	1-7-82

PURPOSE

To test the possible existence of unexposed Alkali Granite in the Michael Moon area.

LOG SUMMARY	0-94m SOIL AND WEATHERED POIMENA ADAMELLITE
GENERAL COMMENTS	

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	9120.6
EASTING	4892.3
R.L.	786.4
GRID	A.M.
LENGTH	94.0

HOLE CONDITION

SIZE	
Hole Size	Depth
HAMMER	0-94m

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY			INTERVAL			VERTICAL		HORIZONTAL	
Depth	Bearing	Dip	From	To	Distance	D. Sin. Dip	R.L.	D. Cos. Dip	Prog. Total
0		90.0	0	47	47	47	739.4		
94		89.0	47	94	47	47	692.4		

SURVEY			INTERVAL			VERTICAL		HORIZONTAL	
Depth	Bearing	Dip	From	To	Distance	D. Sin. Dip	R.L.	D. Cos. Dip	Prog. Total

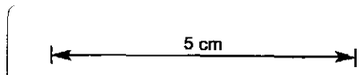
657149

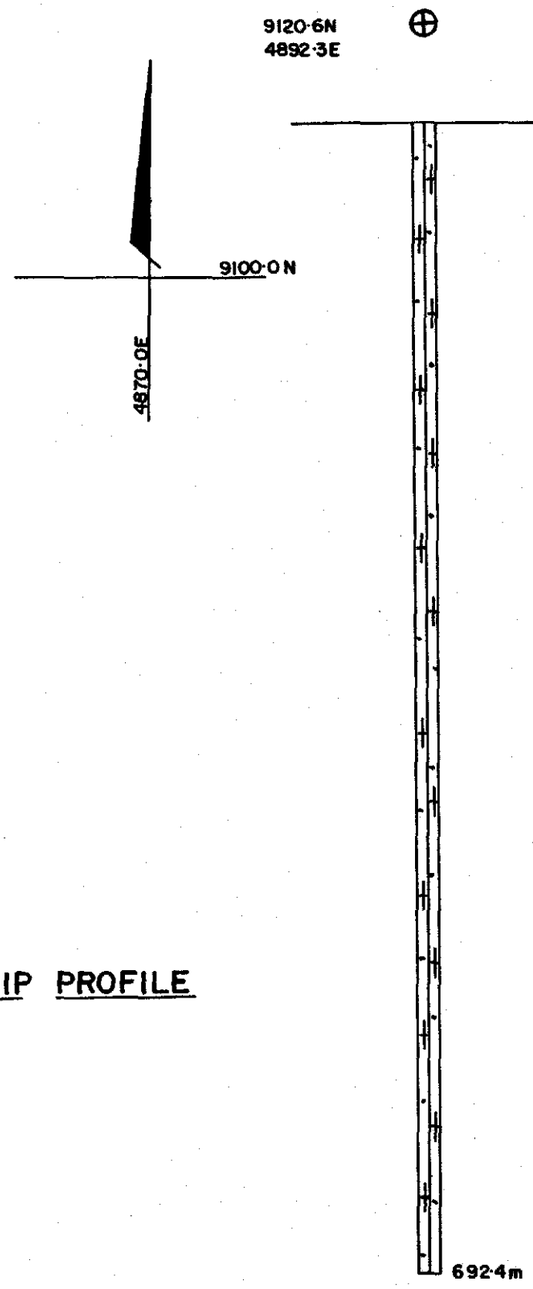
HOLE NO. **BT 153**

GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:





PLAN

DIP PROFILE

657150

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 153

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				0-94 SOIL AND VARIABLY WEATHERED POIMENA ADAMELLITE
0	11	11		Predominantly soil with few rock fragments. Moderately high brown clay content - all rock chips are weathered.
11	69	58		Light brown to dark brown, clay rich soil with minor, weathered rock fragments. Quartz is the only unweathered constituent, feldspar is present as white, pale orange and pale green clays. Biotite is absent. The feldspars/clays are up to 2cm in diameter - porphyritic. Limonite is abundant, often as a weak cement.
69	84	15		Brown clay and weathered rock. The amount of rock fragments increases down hole at the expense of the clays. Feldspar phenocrysts are pseudomorphed by pale orange (limonitised) - white clays. Quartz is a minor constituent and biotite is absent.
84	94	10		Light brown rock-clay. Feldspars are still weathered although a few rare unweathered phenocrysts exist. Rock fragments are more abundant than clays.Biotite is absent (weathered out) and limonite staining is decreased (from above).
				END OF HOLE 94.0m.

ASSAY DATA

Sample No.	From	To	Rec. %

651161

HOLE NO.	: B.T.154
STATE	: TASMANIA

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

ULV. PRESS

PROJECT	BLUE TIER
DESIGNED BY	P.A. ROBERTS
LOGGED BY	A.J. Cartwright
COMMENCED	2-7-82
COMPLETED	5-7-82

PURPOSE

To test the possible existence of unexposed Alkali Granite in the Michael Moon area.

LOG SUMMARY	0-20 MODERATELY WEATHERED POIMEMA ADAMELLITE. 20-102.20 WEAKLY, VARIABLY ALTERED POIMENA ADAMELLITE CONTAINING ABUNDANT HEMATITIC FELDSPARS.
GENERAL COMMENTS	

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	9015.0
EASTING	4689.0
R.L.	765.7
GRID	A.M.
LENGTH	102.20

HOLE CONDITION

SIZE	
Hole Size	Depth
HAMMER	0-25
BY	25-102.2

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0		90.0	0	51	51.0	51.0	714.70		
102		89.0	51	52.2	51.2	51.19	663.51		

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total

67152

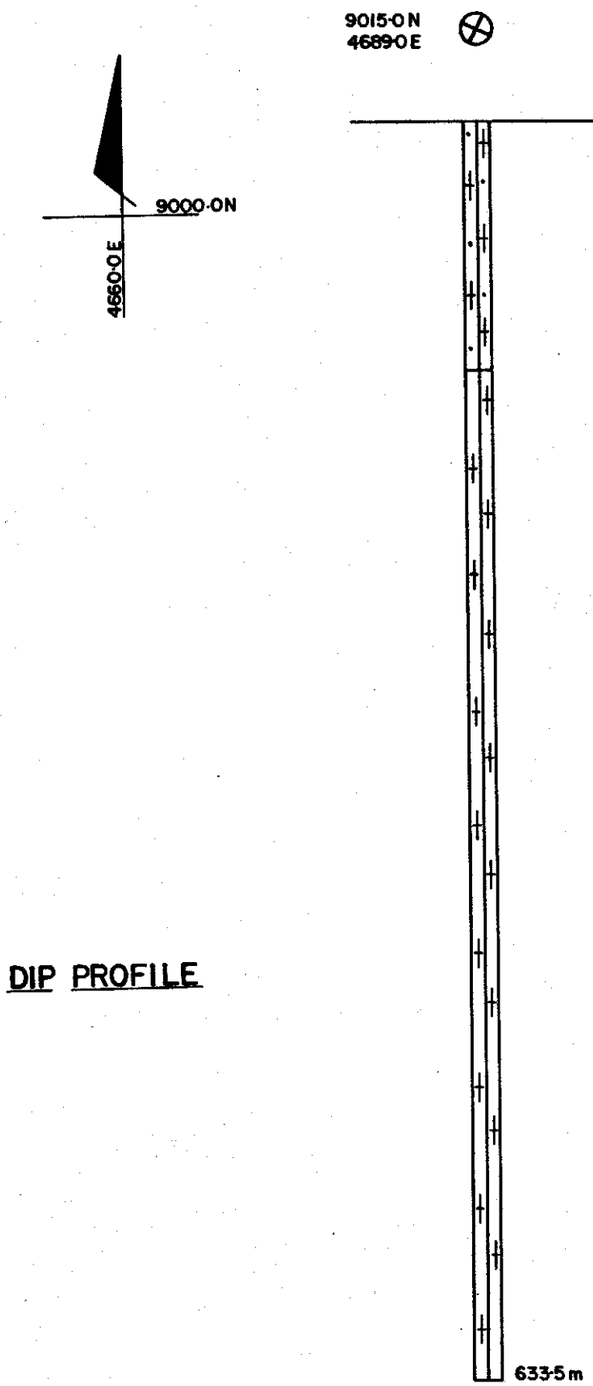
HOLE NO. BT 154

GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:

5 cm



PLAN

DIP PROFILE

657153

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 154

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				0-20 MODERATELY WEATHERED POIMENA ADAMELLITE				
0	10	10		White-grey weathered rock chips and sand with a very minor clay component. Quartz is unweathered and feldspar phenocrysts are psuedomorphed by white clays.				
10	20	10		Brown grey granite with abundant, small, black biotite clusters. Porphyritic with both weathered and unweathered feldspar phenocrysts. A brown limonite stain coats many minerals.				
				20-102.20 WEAKLY ALTERED POIMENA ADAMELLITE WITH ABUNDANT HEMATITIC FELDSPARS.				
20	26.45	6.45	100	Medium grey granite with rare weathered feldspars and incipiently developed liminitic staining. Moderately porphyritic with feldspar phenocrysts up to 2cm: medium grained. Fractures are rare and are coated (thinly) with pale green sericite. At 26.20, a 25cm pegmatite consisting of colourless quartz and white feldspars with accesory biotite and muscovite.				
26.45	31.20	5.57	100	Grey granite, both coarse and fine grained. Sericite is weakly developed and red-brown hematite replaces biotite. Porphyritic and weakly fractured.				
31.20	37.80	6.60	100	Reddish-green granite. Hematite and sericite are strongly developed, accompanied by increased jointing and veining. Biotite is replaced and muscovite is present. Porphyritic and medium grained. At 34.00, a 20cm zone of highly fractured, crushed rock and sericitic clays.				
37.80	48.00	10.20	100	Weak greenish-pink grey granite, porphyritic and medium grained. Numerous small black biotites, small colourless quartz phenocrysts, reddish hematite and greenish sericite replaced feldspars, and large white feldspar phenocrysts are the major mineral phases. Weakly fractured.				

65154

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 154

Page: 2

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
48.00	53.70	3.70	65	A 2cm thick monomineralic grey quartz vein, cryptocrystalline, fractured at 10°CA. Underlain by highly fractured, soft sericite rich rock with abundant slickensides and relict quartz.				
53.70	65.00	11.30	100	Grey granite with medium green abundant sericitic and pink-red hematitic feldspars. Medium grained and weakly porphyritic with few fractures. At 59.30 at 40cm quartz-feldspar pegmatite, 10°CA and moderately fractured, is surrounded either side by 10cm zones of highly sericitised + muscovitised rock. Becomes coarser grained and more porphyritic over the last 2.50m.				
65.00	74.95	5.95	60	Fine to medium grained granite with quartz, feldspar, muscovite, sericite and hematite- moderately altered. In places highly altered and fractured with numerous veins.				
74.95	89.40	14.45	100	Very weakly altered, medium grained, prophyritic granite. Yellow-green sericite patches and slightly pinkish feldspar phenocrysts add colour to an otherwise grey granite. Unfractured.				
89.40	91.75	2.35	100	Highly fractured and crushed, altered granite, reddish-green grey. Biotite is rare, green and white sericite as well as red hematite are common. Muscovite is moderately abundant and several small pegmatites occur. Medium grained and porphyritic.				
91.75	93.25	1.50	100	Unaltered, pinkish-grey, medium grained, porphyritic granite. Unfractured with rare sericite and hematite. Numerous biotites.				
93.75	102.20	6.45	76	Moderately fractured and altered, medium-fine grained granite. Muscovite is common, biotite is rare. Sericite occurs in fractures and veinlets. Brown hematite is present. Small quartz-feldspar pegmatite.				

END OF HO'E '02 20

657155

HOLE NO. :	B.T. 155
STATE :	TASMANIA

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

ULV. PRESS

PROJECT	BLUE TIER
DESIGNED BY	P.A. ROBERTS
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	6-7-82
COMPLETED	9-7-82

PURPOSE

To test for the possible existence of unexposed Alkali Granite in the Michael Moon Area.

LOG SUMMARY	0 - 99.50 WEAKLY ALTERED POIMENA ADAMELLITE WITH MANY APLITES AND PEGMATITES.
GENERAL COMMENTS	

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	8855.5
EASTING	5018.7
R.L.	792.1
GRID	A.M.
LENGTH	99.50

HOLE CONDITION

SIZE	
Hole Size	Depth
HAMMER	0-13
BY	13-99.50

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total	SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0		90.0	0	49.5	49.5	49.5	742.6												
99		89.1	49.5	99.5	50.0	50.0	692.6												

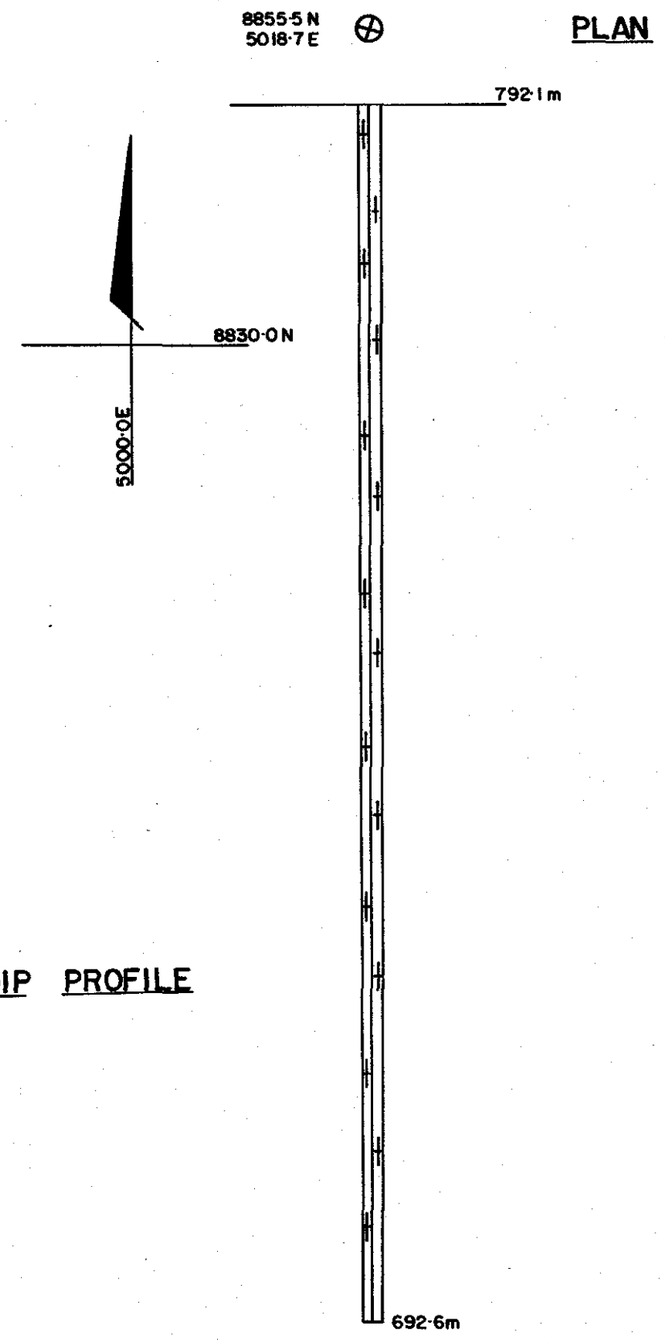
65/156

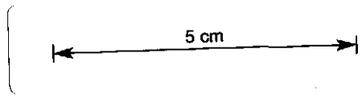
HOLE NO. BT 155

GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:





DIP PROFILE

657157

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 155

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0	99.50			VERY WEAKLY ALTERED POIMENA ADAMELLITE WITH MANY APLITIC AND PEGMATITIC PHASES.				
				DETAILED LOG				
0	7	7		Slightly weathered pale brown-grey granite. Minerals include quartz phenocrysts, larger feldspar phenocrysts - some weathered to white clays, and numerous small black biotites. A limonite stain is incipiently developed.				
7	58.10	50.10	98	Light greenish-grey granite, medium-coarse grained and moderately porphyritic. Unfractured and unweathered. Several thin pegmatites exist. At 13.60, a 20cm thick very fine grained grey quartz aplite with accessory biotite, feldspar and green sericite, surrounds a limonite stained fracture. At 26.25, a 50cm mixed, complex aplite-pegmatite of white feldspar, quartz and accessory micas-weakly fractured. At 37.30, 10cm of myremekitically intergrown quartz and feldspar with minor pyrite. Numerous patches of increased sericitised feldspars occur throughout.				
58.10	60.80	2.70	100	A slight pinkering of the large feldspar phenocrysts together with an increase in pale green sericite becomes noticeable. Several 10cm thick, muscovite bearing pegmatites exist.				
60.80	77.70	16.90	100	Fresh grey granite, with very weakly developed, pale green sericite. Medium grained, moderately porphyritic. Weakly to unfractured. Black biotite as small flakes, small quartz phenocrysts and feldspar phenocrysts. At 70.20, a 15cm medium grained aplite consisting of quartz, white feldspars and muscovite-equigranular, 20° CA.				

65715S

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 155

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				At 73.25, a 20cm coarse grained pegmatite of quartz feldspar				
				and biotite with biotite flakes up to 2cm across.				
77.20	81.20	3.50	100	Increased pink and green colour to above granite. Weakly				
				fractured.				
				Between 78.30 and 80.20, a zone of mixed very fine and very				
				coarse grained pegmatites of quartz, feldspar and biotite,				
				the latter up to 1cm wide flakes.				
				At 81.00, a 2cm thick fine grained aplite, 20°CA, with large				
				white feldspars in a very fine grained quartz-sericitised				
				feldspar matrix.				
81.20	86.60	5.40	100	Fresh grey granite with minor pale green sericite, quartz,feldspar				
				and biotite. Moderately fractured in places with a wide variety				
				of pegmatites, aplites, quartz veins and variably altered				
				granite. Some micas (especially muscovite) in coarse grained				
				pegmatites reach 1-2cm across.				
86.60	90.00	3.40	100	Pink-green-grey granite. Pink feldspar phenocrysts, smaller				
				pale green feldspar and colourless quartz phenocrysts and				
				numerous small black biotites. Mafic clots fine grained biotite				
				rich, up to 3cm across occur. Medium grained, moderately				
				porphyritic and weakly fractured, although fracturing increases				
				locally to produce a friable rock.				
90.00	99.50	9.50	100	Fresh grey granite unfractured, similar in mineralogy to above.				
				Incipiently developed sericite and no pinkened feldspar. A				
				weak pale orange limonite coating occurs on some mineral faces.				
				END OF HOLE 99.50				

65139

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO.	B.T. 156
STATE	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	P.A. ROBERTS
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	10-7-82
COMPLETED	14-7-82

PURPOSE

To test for the possible existence of unexposed Alkali Granite in the Michael Moon Area.

LOG SUMMARY	0 - 26.20	WEATHERED POIMENA ADAMELLITE
	26.20 - 93.30	WEAKLY ALTERED POIMENA ADAMELLITE.
GENERAL COMMENTS		

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	8750.8
EASTING	4762.2
R.L.	769.1
GRID	A.M.
LENGTH	93.30

HOLE CONDITION

SIZE	
Hole Size	Depth
HAMMER	0-25
BY	25-93.30

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total	SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0		90.0	0	46.5	46.5	46.5	772.6												
93		88.8	46.5	93.3	46.8	46.8	676.8												

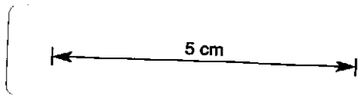
651160

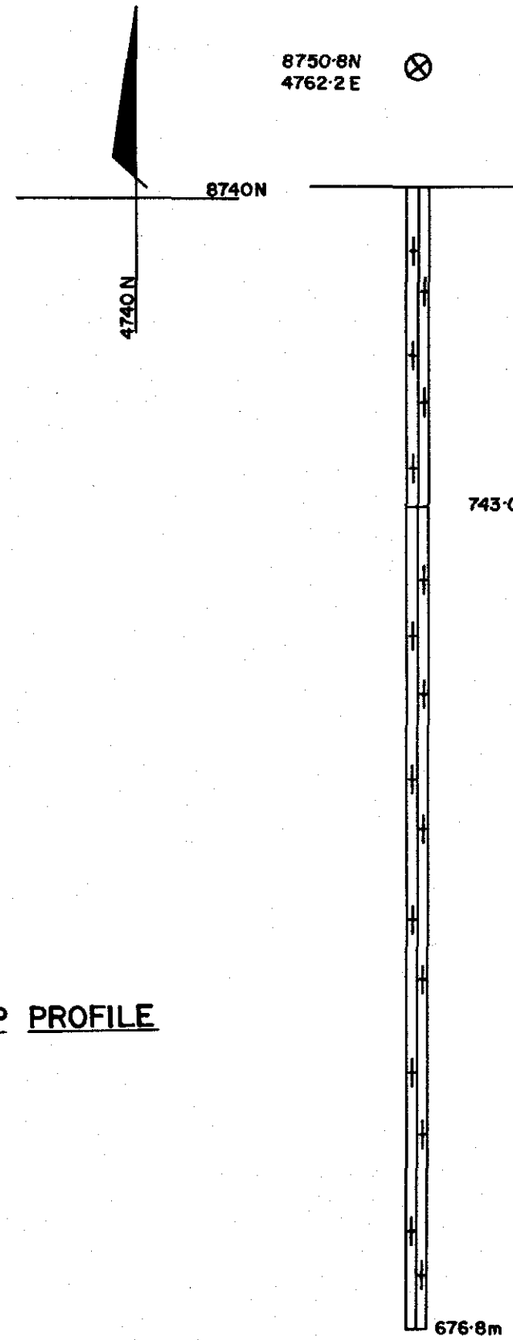
HOLE NO. **BT 156**

GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:





DIP PROFILE

657161

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 156

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0	26.20			VARIABLY WEATHERED POIMENA ADAMELLITE				
26.20	93.30			WEAKLY ALTERED POIMENA ADAMELLITE				
				DETAILED LOG				
				0-26.20 VARIABLY WEATHERED POIMENA ADAMELLITE				
0	26.20	16.20		Moderately weathered pale-brown grey granite. A weakly developed limonite clay becomes weaker down hole as does the degree of weathering. Feldspar phenocrysts are weathered to white clays, biotites occur in small clusters. Fracturing is moderate to strong with limonite coatings.				
				26.20-93.30 WEAKLY ALTERED POIMENA ADAMELLITE				
26.20	31.65	5.45	100	Pink grey granite with greenish tinge. Pink feldspar phenocrysts, pale green and yellow sericite. Moderately porphyritic, medium grained and weakly fractured. Increasing down hole to a pale green clay zone, are sericite and fracturing. Moderately altered. At 28.80, a 1.0m zone of clay with minor quartz and feldspar. The clay appears to be talc-like.				
31.65	39.90	8.25	100	Pale pink green-grey granite, moderately-weakly fractured, medium grained and weakly altered. Sericite is incipiently developed and minor limonite occurs on joints. Patches of stronger alteration produce deep pink, increased sericite and replacement of biotites.				
39.90	47.30	5.10	69	Pink-pale green granite, highly fractured with numerous small muscovite flakes and limonite on joint faces. Rock is incompetent in places, modal biotite is decreased. Large 2-3cm thick quartz veins at low CA angles occur.				

65/169

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T.156

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
47.30	60.00	12.70	100	Pink-yellow granite changing to reddish-grey granite. Medium grained and porphyritic with pink feldspar phenocrysts and yellow sericite patches; becoming rare after 49.0m. Red hematite becomes abundant; weakly fractured with a few highly fractured sericite rich 10-20cm lenses. At 55.0°, a 2cm thick quartz vein at 10°CA, surrounded by quartz-biotite-muscovite altered zone 2-3cm wide. At 57.30, a 10cm coarse grained pegmatite underlain by a 60cm fine grained aplite.				
60.00	65.30	5.30	100	Grey granite, coarse grained and porphyritic with a slight green brown colour due to sericite. Very weakly fractured with thin pale green sericite coatings.				
65.30	74.40	9.10	100	Pink green grey granite, medium-coarse grained, porphyritic, moderately fractured in places, otherwise unfractured. Slightly pegmatitic, with a few large (3-4cm) mafic clots: Yellow-brown sericite is common on joints.				
74.40	82.80	8.40	100	Fresh greenish grey granite. Biotite is abundant, sericitised feldspars are not. Unfractured, medium-coarse grained and moderately porphyritic.				
82.80	85.00	2.20	100	Pink colour increases, as does yellow sericite and fracturing, to produce a crumbly, highly fractured, clay rich rock for 0.5m at 83.70..				
85.00	93.30	8.30	100	Fresh grey granite with minor greenish tinge. Large feldspar phenocrysts are white, small feldspar phenocrysts are pale green. Very weakly fractured, coarse grained and porphyritic. From 90.80 to 92.80, disseminated fluoritic quartz phenocrysts occur.				
				END OF HOLE 93.30				

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO. :	B.T. 157
STATE :	TASMANIA

ULV. PRESS

PROJECT	BLUE TIER
DESIGNED BY	P.A. ROBERTS
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	16-7-82
COMPLETED	22-7-82

PURPOSE

To test for the possible existence of unexposed Alkali Granite in the Crystal Creek Area.

LOG SUMMARY	0 - 41.30	WEATHERED POIMENA ADAMELLITE
	41.30-108.00	WEAKLY ALTERED POIMENA ADAMELLITE WITH NUMEROUS PEGMATITES.
GENERAL COMMENTS		

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	8756.9
EASTING	1413.2
R.L.	775.3
GRID	A.M.
LENGTH	108.00

HOLE CONDITION

SIZE	
Hole Size	Depth
HAMMER	0-17.0
BY	17 -108.0

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY			INTERVAL			VERTICAL		HORIZONTAL	
Depth	Bearing	Dip	From	To	Distance	D. Sin. Dip	R.L.	D. Cos. Dip	Prog. Total
0	235	75.0	0	54.0	54.0	52.2	723.1	13.5	13.5
108	228.0	75.0	54.0	108.0	54.0	52.2	670.9	13.5	27.0

SURVEY			INTERVAL			VERTICAL		HORIZONTAL	
Depth	Bearing	Dip	From	To	Distance	D. Sin. Dip	R.L.	D. Cos. Dip	Prog. Total

657164

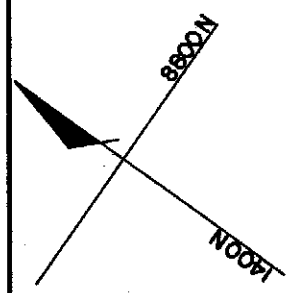
HOLE NO. BT 157

GOLD FIELDS EXPLORATION PTY. LIMITED

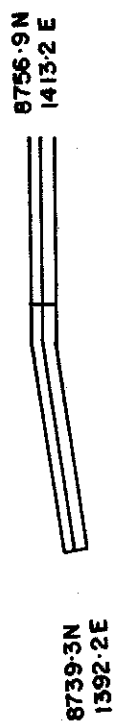
DIAMOND DRILL HOLE PLOT

SCALE 1:

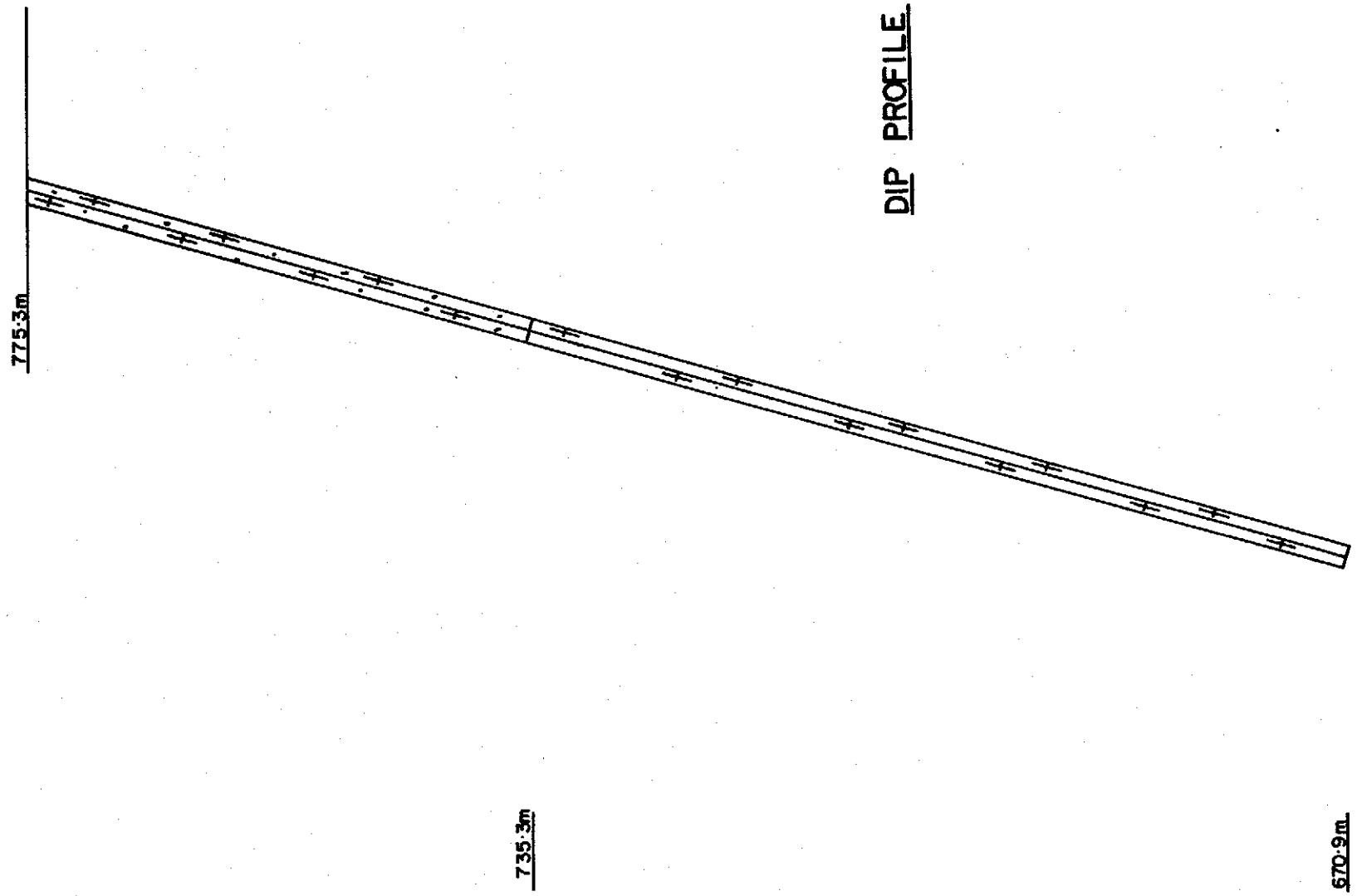
5 cm



PLAN



DIP PROFILE



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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 157

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0	41.30			VARIABLY WEATHERED POIMENA ADAMELLITE				
41.30	108.00			WEAKLY ALTERED POIMENA ADAMELLITE WITH NUMEROUS PEGMATITES.				
				DETAILED LOG				
				0-41.30 WEATHERED POIMENA ADAMELLITE				
0	13	13		Clay, soil and weathered rock. Pink feldspar phenocrysts, quartz and a few small black biotites are relict minerals in a brown clay. Mineral surfaces are coated with a limonite stain.				
13	16	3		Weathered rock, less clay, pale brown in colour. Large unweathered pink and white feldspar phenocrysts. Minor pale green sericite developed.				
16	41.30	25.30	100	Slightly weathered, grey granite. Abundant yellow and minor green sericite, pink feldspars, common black biotites. Strongly porphyritic with feldspar phenocrysts up to 4cm. Moderately fractured and broken in places with green sericite on joints. In places is very coarse grained.				
				41.30-108.00 ALTERED POIMENA ADAMELLITE				
41.30	49.00	7.70	100	Greenish grey granite, very porphyritic, coarse grained, moderately-weakly fractured, with pale green sericite, pale pink feldspar phenocrysts and numerous biotites. At 44.60, a 25cm very coarse grained pegmatite.				
49.00	63.80	14.80	100	Pinkish grey granite with yellowish tinges. Fracturing increases in places to become highly fractured and crumbly with abundant yellow-green sericitic clays.				

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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 157

Page: 2.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				At 60.90, a 15cm fine grained aplite of quartz, feldspar				
				and rare biotite.				
63.80	81.20	17.40	100	Greenish pink grey granite. Coarse grained, porphyritic with				
				very pale pink feldspar phenocrysts (up to 4cm). Abundant				
				biotite and green sericite. Weakly fractured with rare 'mafic				
				clots'. Few thin medium grained quartz-feldspar pegmatites				
				and occassional patches (~20cm thick) of pervasive dark green				
				alteration to quartz-muscovite-sericite.				
81.20	108.00	26.80	100	Pink grey granite with yellow and green sericite. Increased				
				fracturing produces in patches, crumbly green clay rich rock.				
				Strongly porphyritic with euhedral feldpar phenocrysts, coarse				
				grained. Biotite rich, the biotite occuring as clots. Rare				
				pegmatites and mafic clots.				
				END OF HOLE 108.00				

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO. :	B.T. 158
STATE :	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	P.A. ROBERTS
LOGGED BY	A.J. Cartwright
COMMENCED	23-7-82
COMPLETED	27-7-82

PURPOSE

To test the possible existence of unexposed Alkali Granite in the Crystal Creek area.

LOG SUMMARY

0-12.5 WEATHERED POIMENA ADAMELLITE.
12.5-100.35 VARIABLY, WEAKLY ALTERED POIMENA ADAMELLITE

GENERAL COMMENTS

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	8489.5
EASTING	1667.7
R.L.	799.9
GRID	A.M.
LENGTH	100.35

HOLE CONDITION

SIZE	
Hole Size	Depth
HAMMER	0-10
BY	10-100.35

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0	235.0	75.0	0	50	50.0	48.3	751.6	12.9	12.9
100	234.0	75.0	50	100.35	50.35	48.6	703.0	13.0	25.9

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total

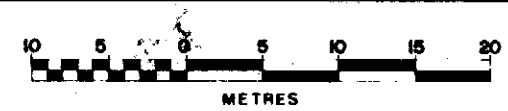
65716S

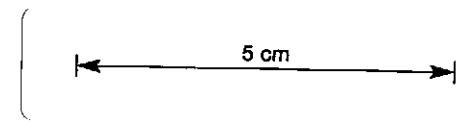
HOLE NO. BT 158

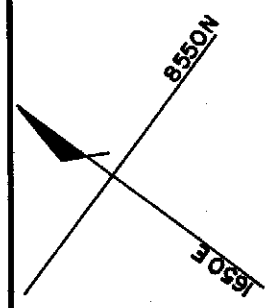
GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

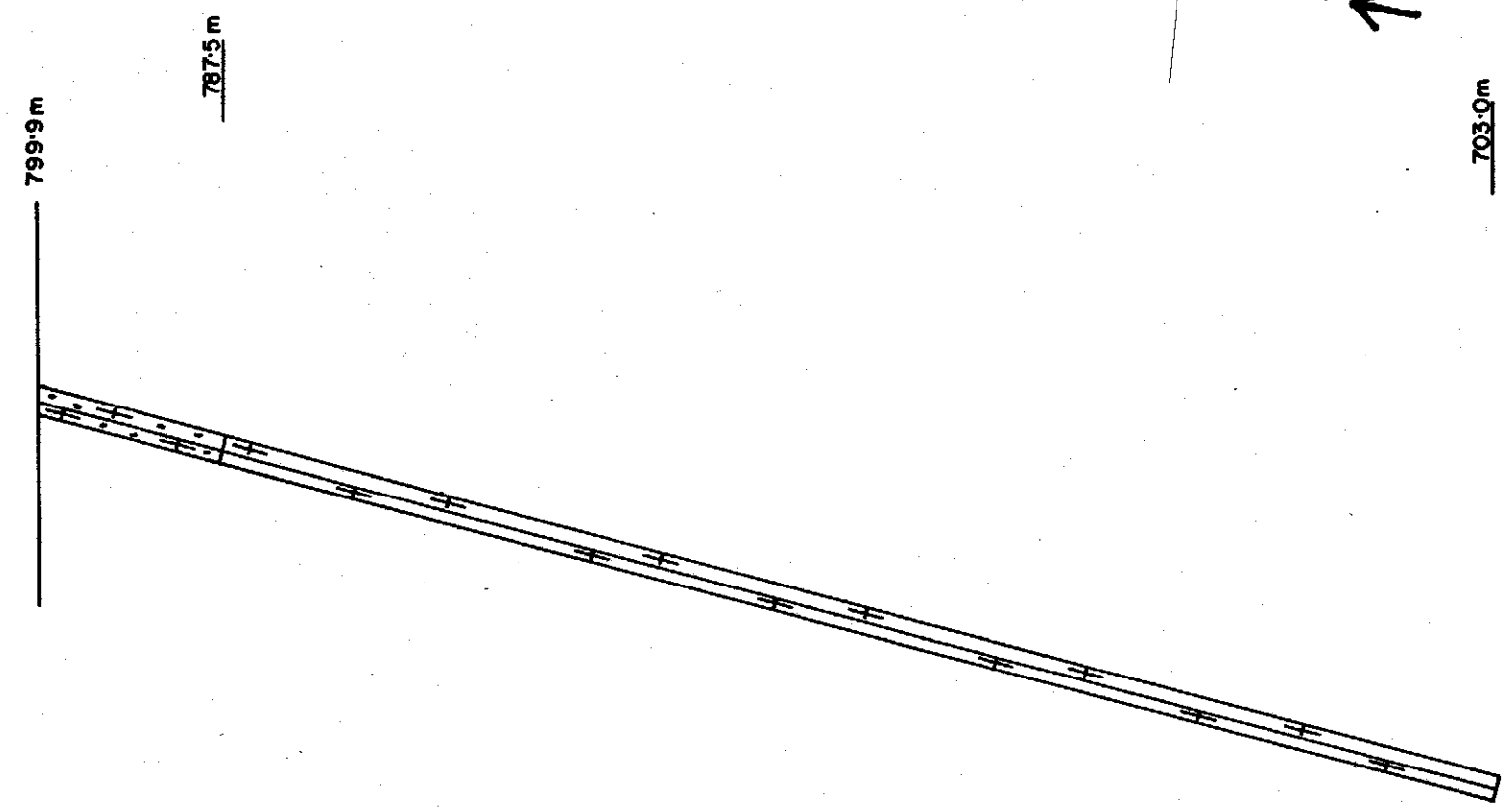
SCALE 1:







PLAN



DIP PROFILE

657169

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 158

Page: 1.

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA			
From	To	m	%		Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0	12.50			WEATHERED POIMENA ADAMELLITE				
12.50	100.35			VARIABLY ALTERED POIMENA ADAMELLITE				
				DETAILED LOG				
				0-12.80 WEATHERED POIMENA ADAMELLITE.				
0	12.50	11.50	92	Soil and moderately weathered granite. Porphyritic and medium-coarse grained with small black biotites. Limonite staining is well developed and rare, small aplites are also found.				
				12.50 -100.35 WEAKLY, PATCHILY ALTERED POIMENA ADAMELLITE.				
12.50	20.55	8.05	100	Fresh greenish-grey, porphyritic and medium grained. Large white feldspar phenocrysts and sericitised (green) feldspars are common. Limonite is rare, being restricted to narrow (5-10cm) zones of weathered rock. At 18.85, a 10cm thick pegmatite consisting of mixed fine and coarse grained colourless quartz and white feldspar with an orange Fe-oxide stain. At 10°CA.				
20.55	23.80	2.45	75	Crushed and fractured granite, sericite rich with relict feldspar and quartz. Greenish-grey with rare unaltered biotites in patches of more competent weaker altered rock. At 23.45, a 35cm very coarse grained pegmatite of pink feldspar and colourless quartz with minor dark green sericite, red-brown hematite and accesory biotite.				
23.80	38.20	14.40	100	Red-grey granite, porphyritic, medium grained and weakly fractured. Feldspar forms pink phenocrysts up to 2cm and numerous, small red-brown hematite grains are found. The green sericite content is variable, from rare to abundant and biotite content				

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GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 158

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				is also irregular.				
				Between 27.45 and 28.65, at 15°CA, a 5cm thick black quartz-				
				sericite vein, fractured and underlain by sericite rich				
				coarse grained, moderately altered pink-green granite.				
				Between 31.15 and 32.35, a very coarse grained pegmatite,				
				dominated by pink feldspar, granite inclusions and minor				
				quartz and biotite.				
38.20	53.30	15.10	100	Reddish-green grey granite, unfractured and weakly altered.				
				Medium grained and porphyritic with abundant black biotites,				
				pale pink feldspar phenocrysts, reddish hematite and green				
				sericite. A few local (~1.0m) increases in fracturing and				
				modal sericite accompanied by an intensification of the pink				
				colouration in the feldspars, occur occasionally.				
53.30	54.55	1.25	100	A highly fractured and crushed, soil-like, zone of strongly				
				altered granite. Biotite is altered to dark green sericite,				
				feldspar to pale green sericite, with relict colourless quartz.				
54.55	63.10	8.55	100	Greenish-grey granites, medium grained and strongly porphyritic				
				with rare feldspar phenocrysts up to 5cm. Unfractured with				
				green sericite patches. Biotite rich.				
				At 55.90 and 57.75, 10cm thick pegmatites of coarse grained				
				colourless quartz and white feldspar with accessory biotite				
				and pale green sericite.				
				At 57.85, a 10cm thick fine grained, equigranular, quartz				
				feldspar, biotite aplite.				
				The last 40 cm is highly fractured and crushed with pervasive				
				sericite developed, rare green biotites and pink feldsaprs.				
63.10	100.35	37.25	100	Pink-grey granite. Medium grained, porphyritic and very weakly				
				fractured, with minor pale green sericite. Reddish hematite				
				flakes are abundant as are biotite clots. Occasional small				
				(~10cm) crush zone of lightly fractured, altered sericite				
				rich granite also occur.				

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 158

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA			
From	To	m	%		Sample No.	From	To	Rec. %
				At 69.40, a 70cm long 2mm thick fracture at 0^{0} CA exists filled with green sericitic clays.				
				END OF HOLE 100.35				

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ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO.	B.T. 159
STATE	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	P.A. ROBERTS
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	28-7-82
COMPLETED	4-8-82

PURPOSE

To test the possible existence of unexposed Alkali Granite in the Doyles Workings Area.

LOG SUMMARY	0 - 10.55	WEATHERED POIMENA ADAMELLITE.
	10.55 - 99.20	WEAKLY ALTERED POIMENA ADAMELLITE WITH SEVERAL APLITIC PHASES.
GENERAL COMMENTS		

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	9821.6
EASTING	0374.0
R.L.	607.1
GRID	A.M.
LENGTH	99.20

HOLE CONDITION

SIZE Hole Size	SIZE Depth
HAMMER	0-9
BY	9-99.20

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost

POOR GROUND CONDITION ZONES From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total
0	096	75.0	0	49.5	49.5	47.8	559.3	12.8	12.8
99	099	74.7	49.5	99.2	49.7	47.9	511.4	13.1	25.9

SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total

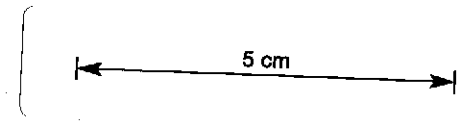
657173

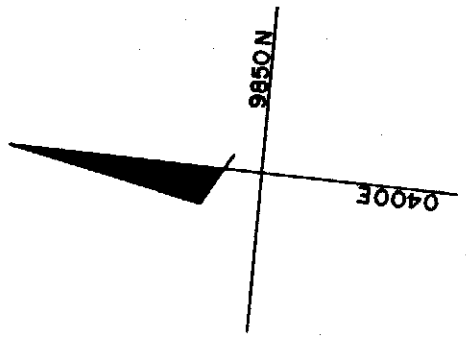
HOLE NO. **BT 159**

GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

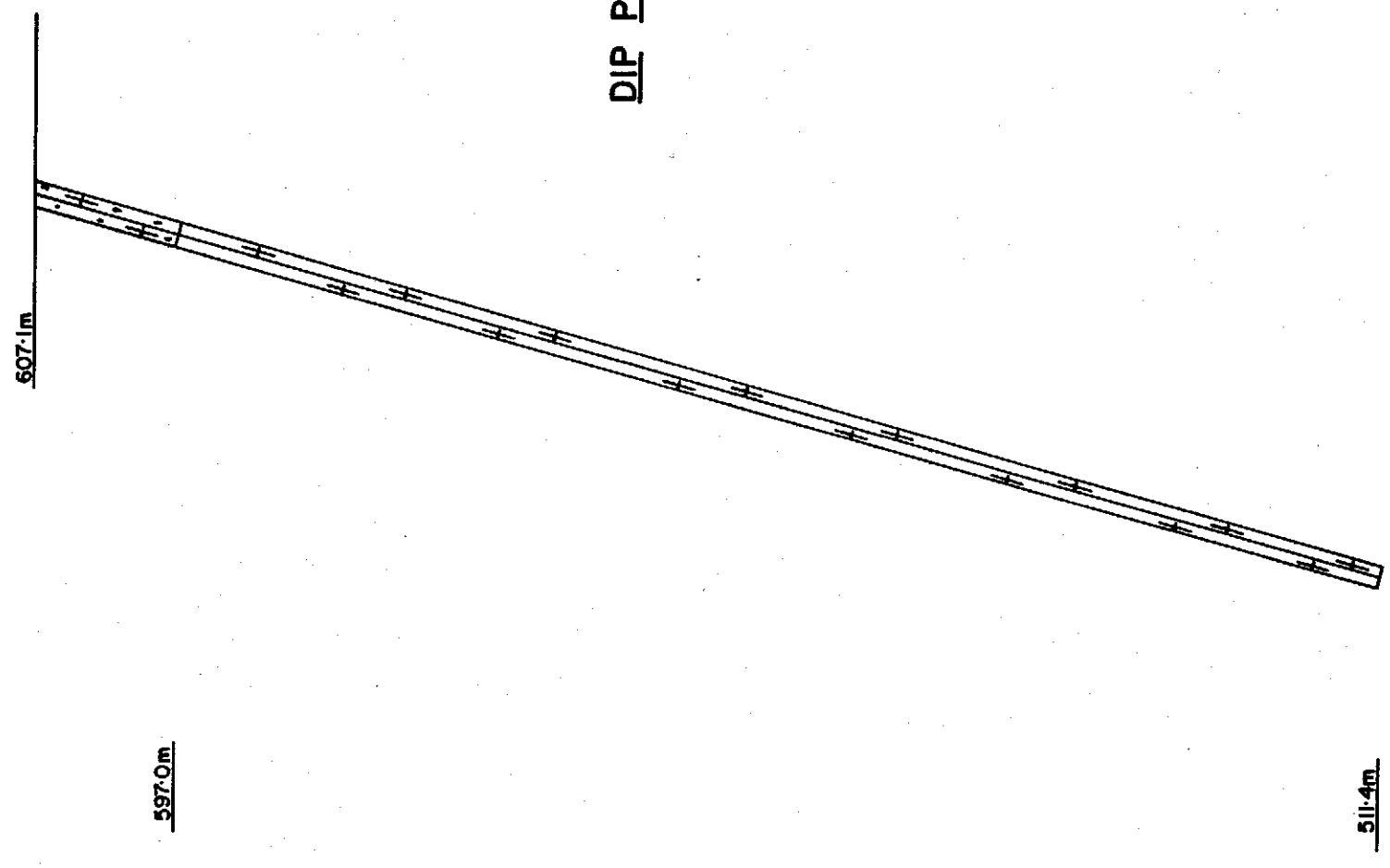
SCALE 1:





PLAN

DIP PROFILE



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GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 159

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0	10.55			WEATHERED POIMENA ADAMELLITE				
10.55	99.20			WEAKLY ALTERED POIMENA ADAMELLITE WITH SEVERAL THICK APLITES.				
				DETAILED LOG				
				0-10.55 WEATHERED POIMENA ADAMELLITE				
0	7	7		Moderately weathered brown granite. Minor clay weathered feldspar phenocrysts.				
7	10.55	3.55	100	Fresh-slightly weathered granite, medium grained, porphyritic, grey. Biotite accumulations - very rich in places, occur. Pale green sericite is weakly developed, very weakly fractured with large white feldspar phenocrysts.				
				10.55-99.20 ALTERED POIMENA ADAMELLITE WITH APLITIC PHASES.				
* 10.55	16.50	5.95	100	Moderatley fractured, blocky aplite. Orange in colour with quartz, feldspar (some pink), and accessory biotite as single brown flakes. Also several fine grained pegmatitic veins rich in pale pink feldspar exist.				
16.50	49.30	32.80	100	Fresh grey granite. Phenocrysts up to 2.5cm, biotite accumulations, coarse grained semi-pegmatitic and highly fractured patches are common. Overall-weakly fractured. Weakly developed pale green sericite, fractures are white clay filled. Areas (~ 20cm) of quartz - dark green sericite pervasive alteration.				
49.30	54.90	5.60	100	Pale orange-greenish grey granite. Porphyritic, medium grained and weakly-moderately fractured. Abundant pervasive quartz-sericite alteration and quartz veining. Sericitic fractures.				

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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 159

Page: 2.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
54.90	73.00	18.10	100	Green-grey granite with orange-white feldspar phenocrysts(up to 3cm), small green sericitised feldspars and small black biotite clots. Porphyritic and medium-coarse grained. Weakly fractured with thin coatings (on 90° CA fractures)of red clays. Rare, thin (∿20cm) pegmatites, silicified-sericitised zones and quartz veinlets.				
73.00	85.40	12.40	100	Fresher, greenish grey granite. Porphyritic, medium grained weakly sericitised feldspars and weakly to unfractured. Patches (rare) of pervasive quartz-sericite and veinlets, semi-pegmatitic coarse grained granite and increased fracturing, with very weakly developed red clays and limonite (orange) on joints.				
85.40	86.70	1.30	100	Pale green dark grey granite with pervasive biotite and pervasive fine grained quartz for 15cm; then coarse grained interlocking quartz, dark green sericitised feldspar, minor biotite and clays for 80cm. Then 35cm of coarse grained pegmatite, with pale orange feldspars, quartz and accessory green sericitised biotites.				
86.70	89.20	2.50	100	Orangey-green grey granite. Porphyritic, medium grained and weakly to moderately fractured with strongly developed yellow green sericite in places. Pale orange feldspar phenocrysts.				
89.20	94.25	5.05	100	Fine grained biotitie rich aplite, with minor yellow sericite, white feldspars and occasional coarse grained pegmatites and granite (pale orange). Weak-moderately fractured.				
94.25	97.00	2.75	100	Pale orange-greenish grey granite. Medium grained, porphyritic and unfractured-to weakly fractured.Rare pegmatites also exist.				
97.00	99.20	2.20	100	Medium to coarse grained pale green-grey granite weakly porphyritic with rare biotites and aplitic biotite-rich patches. Weakly fractured. END OF HOLE 99.20				

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ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO.	B.T. 160
STATE	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	P.A. ROBERTS
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	5-8-82
COMPLETED	11-8-82

PURPOSE

Tot test for the possible existence of unexposed Alkali Granite in the Doyles Workings area.

LOG SUMMARY	0 - 32.50 WEATHERED POIMENA ADAMELLITE. 32.50- 58.85 ALTERED AND FRACTURED POIMENA ADAMELLITE. (FAULT ZONE?) 58.85- 99.10 WEAKLY ALTERED POIMENA ADAMELLITE.
GENERAL COMMENTS	

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	9535.1
EASTING	0609.4
R.L.	544.5
GRID	A.M.
LENGTH	99.10

HOLE CONDITION

SIZE	
Hole Size	Depth
HAMMER	0-30.50
BY	30.50-99.10

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition
32.50	58.85	MODERATELY TO HIGHLY FRACTURED WITH PERVASIVE CLAYS.

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY			INTERVAL			VERTICAL		HORIZONTAL	
Depth	Bearing	Dip	From	To	Distance	D. Sin. Dip	R.L.	D. Cos. Dip	Prog. Total
0	235	75.0	0	49.5	49.5	47.8	596.7	12.8	12.8
99	239	74.9	49.5	99.1	49.6	47.9	548.8	12.9	25.7

SURVEY			INTERVAL			VERTICAL		HORIZONTAL	
Depth	Bearing	Dip	From	To	Distance	D. Sin. Dip	R.L.	D. Cos. Dip	Prog. Total

67117

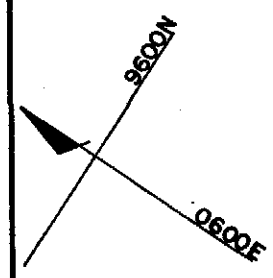
HOLE NO. **BT 160**

GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

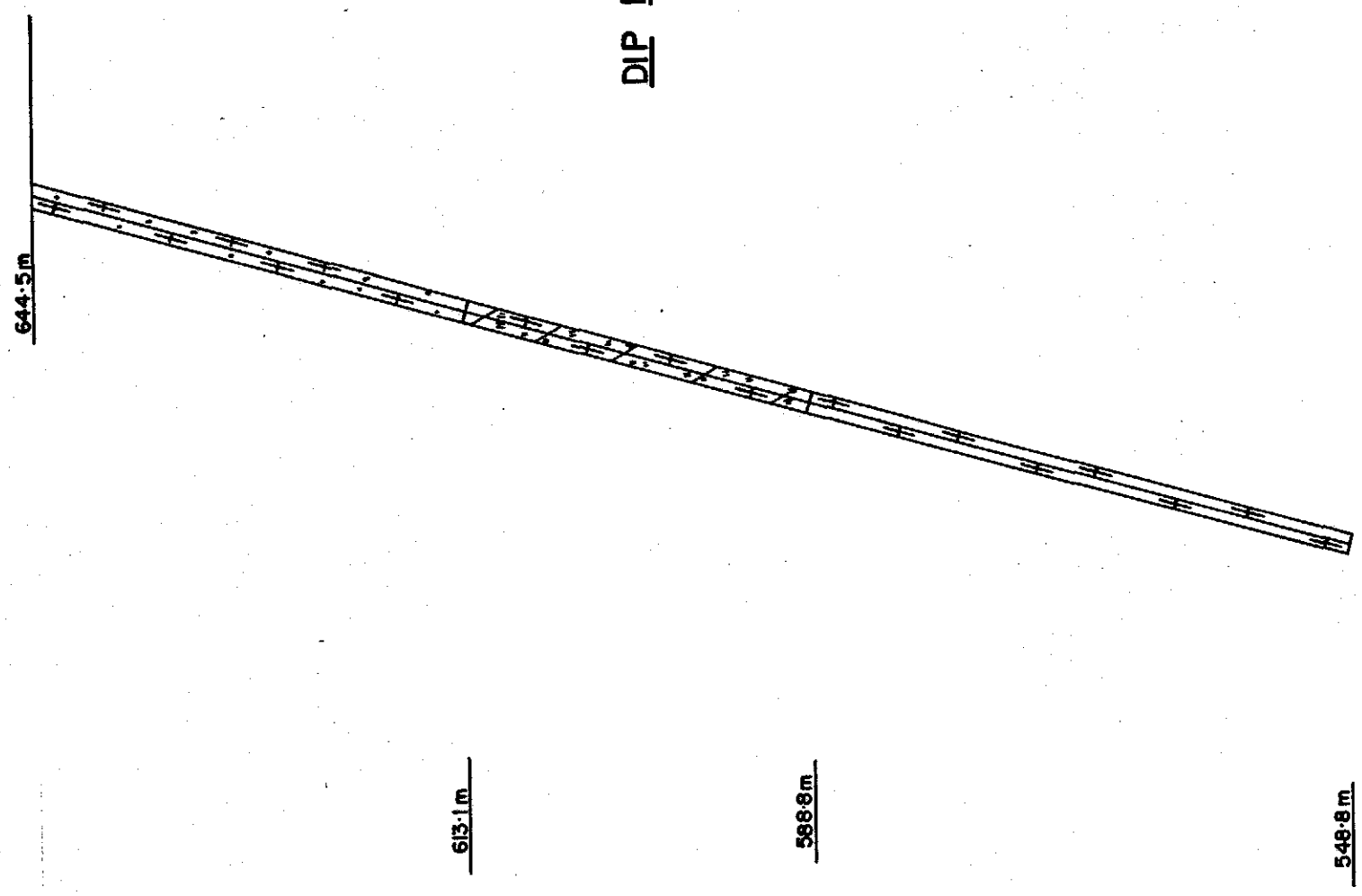
SCALE 1:

5 cm



PLAN

DIP PROFILE



657178

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 160

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
				0-32.50 WEATHERED POIMENA ADAMELLITE				
				32.50-58.85 MODERATELY ALTERED AND FRACTURED POIMENA ADAMELLITE	(FAULT ZONE?)			
				58.85-99.10 WEAKLY ALTERED POIMENA ADAMELLITE WITH SEVERAL APLITES AND PEGMATITES.				
				DETAILED LOG				
				0-32.50 WEATHERED POIMENA ADAMELLITE				
0	9	9		Strongly weathered granite and soil. Light brown with abundant clays, colourless quartz and pink feldspar fragments.				
9	32.50	23.50		Moderately to strongly weathered granite becoming less weathered down hole. Pink and white feldspars, rare biotites:- light brown - pink in colour. Weakly porphyritic with pale green sericitised feldspars and green-brown sericitised biotites. Medium grained and weakly fractured.				
				32.50 - 58.85 FRACTURED AND ALTERED POIMENA ADAMELLITE.				
32.50	58.85	26.35	100	Pale pink-green altered and fractured granite, with many quartz-sericite veins. Equigranular (secondary) texture of anhedral colourless quartz and euhedral pink feldspar. Pervasive yellow-green sericite and dark green-brown sericite replaces biotite which is absent. Medium grained with numerous fractures and numerous irregular quartz-sericite veins. Veins cut larger feldspars, producing small (several mm) offsets. Intensely developed veining in some areas produce patches of crumbly, imcompetent, clay rich rock, a deep green colour.				
Between 41.35	42.55	0.70	56					

65149

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 160

Page: 2.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				58.85-99.10 WEAKLY ALTERED POIMENA ADAMELLITE WITH APLITE
				AND PEGMATITES.
58.85	99.10	40.25	100	Medium grey granite with patches of green-sericite development.
				Modal biotite increases down hole. Medium grained, moderately
				porphyritic with a moderate to weak fracture. Sericite coats
				fractures. Phenocrysts of feldspar with smaller quartz phenocrys-
				ts and biotite as clusters.
				At 83.15, a 5cm thick pegmatite of coarse grained pink feldspar,
				minor colourless quartz, is underlain by 0.5m of fine grained
				aplite consisting of pink feldspar, colourless quartz accessory
				black biotite and patches of sericite.
				Between 89.90 and 91.40 a mixed phase of granite and aplite
				(as described above).
				Between 96.70 and 98.10, the granite becomes coarse grained
				then pegmatitic, then aplitic. Highly fractured in places
				with abundant green sericitic clays replacing biotite.
				END OF HOLE 99.10

ASSAY DATA

Sample No.	From	To	Rec. %

657180

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED
DRILL CORE RECORD

HOLE NO.	B.T. 161
STATE	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	P.A. ROBERTS
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	12-8-82
COMPLETED	19-8-82

PURPOSE

To test for the possible existence of unexposed Alkali Granite in the Wyniford West area.

LOG SUMMARY	0- 31.05	SLIGHTLY WEATHERED POIMENA ADAMELLITE.
	31.05-99.60	VARIABLY BUT WEAKLY ALTERED POIMENA ADAMELLITE.
GENERAL COMMENTS		

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	9201.4
EASTING	1780.7
R.L.	719.4
GRID	A.M.
LENGTH	99.60

HOLE CONDITION

SIZE	
Hole Size	Depth
HAMMER	0-31.0
BY	31.0-99.60

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total	SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0		90.0	0	49.5	49.5	49.5	669.9												
99		88.5	49.5	99.6	50.1	50.1	619.8												

657181

HOLE NO. BT 161

GOLD FIELDS EXPLORATION PTY. LIMITED

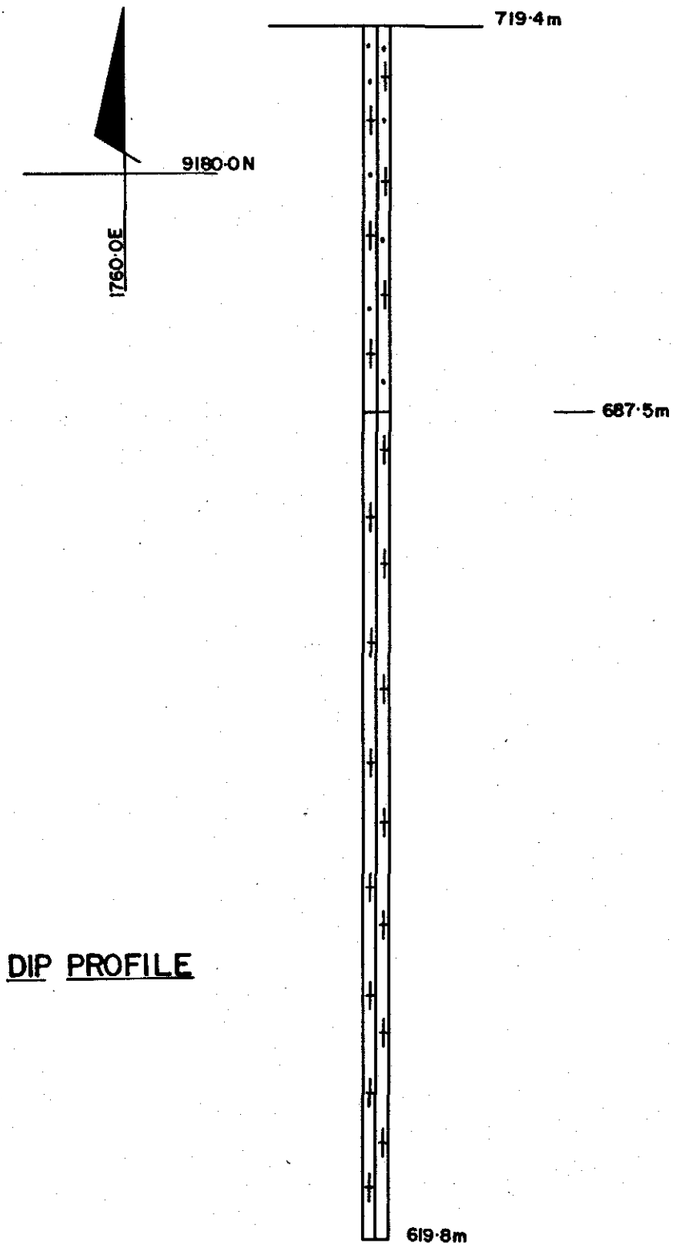
DIAMOND DRILL HOLE PLOT

SCALE 1:

5 cm

9201·4 N
1780·7E

PLAN



DIP PROFILE

657182

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 161

Page: 1

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0	31.05			SLIGHTLY WEATHERED POIMENA ADAMELLITE				
31.05	99.60			VARIABLY ALTERED POIMENA ADAMELLITE WITH RARE APLITES AND PEGMATITES.				
				DETAILED LOG				
				0-31.05 WEATHERED POIMENA ADAMELLITE				
0	7	7		Moderately weathered pale-grey white granite with minor clay development. Feldpars are phenocrysts (large ~2cm) pseudomorphed by white clays. Micas and quartz are also present.				
7	31.05	24.05	100	Medium grey granite with a weakly developed pale orange limonite stain coating some mineral surfaces. Porphyritic and medium grained with very fine grained biotite. Minor white clay weathering of feldspar phenocrysts. Sericite (pale green) becomes more abundant down hole.				
				31.05-99.60 WEAKLY ALTERED POIMENA ADAMELLITE				
31.05	64.00	32.95	100	Fresh grey granite. Pale orange limonite surrounds weakly developed joints which are coated with yellow green sericite. In places-highly fractured (approx. 0.5m lengths) with abundant sericite.Also developed are patches of very coarse grained - pegmatite like granite. Medium grained and strongly porphyritic overall. A few dark, thin quartz veinlets are present. Pale green sericitised feldspars, small quartz phenocrysts, black biotite clusters and very fine grained muscovite veinlets are the major minerals.				
Between 51.00	52.50	0.75	50	At 45.00, a 1.0m pegmatite of very coarse grained white feldspar, colourless quartz and accessory biotite.				

657183

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER B.T.161

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
64.00	74.20	10.20	100	Pale pink grey granite, moderately to highly fractured (blocky). Thin coatings of pale green sericite along fractures, numerous small pegmatites and quartz veins and veinlets at low CA angles are common. Medium grained and porphyritic.				
74.20	76.40	2.20	100	Grey granite with a slight pink tinge to feldspar phenocrysts, which increased down hole. Prophyritic, medium grained and incipiently fractured. At 75.70, a 0.5m of very coarse grained quartz and feldspar; a semi-pegmatitic intergrowth.				
76.40	79.10	2.70	100	Pale pink, reddish grey aplite with 3cm thick pegmatite. Unfractured and unsericitised,medium and fine grained with colourless quartz white and pink feldspars and single black brown biotite flakes.				
79.10	87.40	8.30	100	Pink green grey, highly fractured and crumbly rock, with abundant pale green sericite. Minor aplites and pegmatites are present. Biotites are still present.				
87.40	99.60	12.20	100	Grey granite, weakly and unfractured, strongly porphyritic and medium to coarse grained. Weak developed limonite and sericite very weakly altered.				
				END OF HOLE 99.60				

657184

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO. :	B.T. 162
STATE :	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	P.A. ROBERTS
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	20-8-82
COMPLETED	25-8-82

PURPOSE

To test for the possible existence of unexposed Alkali Granite in the Wyniford West area.

LOG SUMMARY	0-8 WEATHERED POIMENA ADAMELLITE 8-97.50 WEAKLY ALTERED POIMENA ADAMELLITE
GENERAL COMMENTS	

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	9066.9
EASTING	1995.5
R.L.	722.3
GRID	AM
LENGTH	97.50

HOLE CONDITION

SIZE	
Hole Size	Depth
HAMMER	0-10
BY	10-97.50

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0		90.0	0	48.5	48.5	48.5			
97		88.0	48.5	97.5	49.0	49.0			

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total

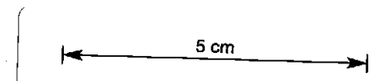
65 71 83

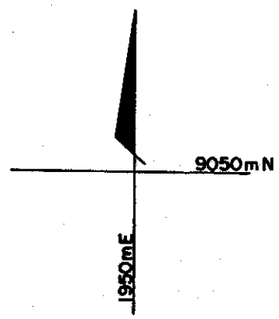
HOLE NO. **BT 162**

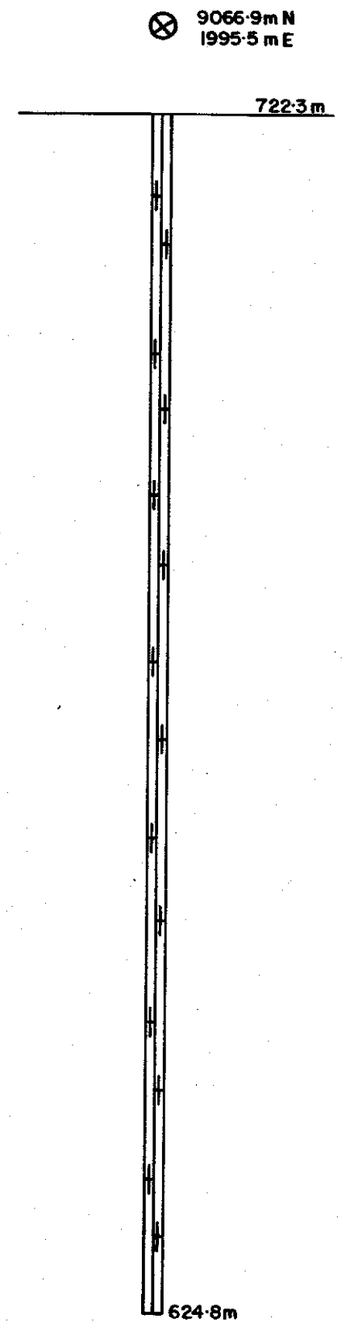
GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:







PLAN

DIP PROFILE

657186

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

DLV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: BIT. 162

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0	8			WEATHERED POIMENA ADAMELLITE				
8	97.50			WEAKLY ALTERED POIMENA ADAMELLITE				
				DETAILED LOG				
				0-8 WEATHERED POIMENA ADAMELLITE				
0	4	4		Soil and light brown weathered granite. Abundant brown clay with a few weathered feldspars and relict quartz.				
4	8	4		Slightly weathered brown-grey granite with a weak iron oxide stain. Feldspar phenocrysts are pseudomorphed by white clays. Biotite and quartz are also present.				
				8-97.50 WEAKLY ALTERED POIMENA ADAMELLITE				
8	24.00	16.00	100	Fresh light grey granite. Weakly fractured with green sericite coatings. Off white feldspars and smaller greenish feldspars with quartz and clots of black biotites. Porphyritic (feldspars up to 3cm) and medium to coarse grained.				
24.00	35.00	11.00	100	Pink green grey granite with pale green sericite patches and pink-red feldspars. Fracturing and grain textures are as above with a slight silicification developed around some fractures.				
35.00	36.80	1.80	100	Increased fracturing, producing blocky and crumbly day-sericite joints. Colour and texture are unchanged except for biotites which are altered dark green.				
36.80	46.80	10.00	100	Fracturing decreases to weak-unfractured, apart from local zones (1-2m) of moderately fractured-sericite rich rock.				

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 162

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
46.80	51.00	4.20	100	Pink grey granite. Porphyritic and medium grained with no sericite. Unfractured with minor veinlets of quartz. The pink colour is weak.
51.00	77.80	26.80	100	Pinkish green grey granite, weakly to moderately fractured with sericitic clay coated joints. Porphyritic and medium grained, some feldspars up to 3cm. Fracturing increases locally to produce crumbly rock in places.
Between 60.10	62.30	1.50	68	At 55.80, fracturing increases to give crumbly, blocky and sandy rock. Between 59.00 and 63.00, green sericite rich rock with rare purple fluorite and muscovite. Slikensides developed.
77.80	93.30	15.50	100	Fracturing becomes less developed. A pale pink light green grey granite. White sericite, medium grained and porphyritic with rare sericite on rare fractures.
93.30	97.50	4.20	100	Fresh granite. Grey, no pink with rare sericite. Unfractured medium grained, porphyritic with patches of biotite enrichment.
Between 94.40	97.50	2.10	66	In places;very coarse grained with large colourless quartz phenocrysts.

END OF HOLE 97.50

ASSAY DATA

Sample No.	From	To	Rec. %

65/188

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED
DRILL CORE RECORD

CORE KEPT IN BURNIE

HOLE NO.	B.T. 163
STATE	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	P.A.ROBERTS.
LOGGED BY	A.J.CARTWRIGHT
COMMENCED	26-8-82
COMPLETED	2-9-82

PURPOSE

To test for the possible existence of un-exposed Alkali Granite in the North Anchor Area.

LOG SUMMARY

0 - 29 WEATHERED MICRO-ADAMELLITE AND POIMENA ADAMELLITE

29 - 88.25 WEAKLY PORPHYRITIC POIMENA ADAMELLITE AND PEGMATITE

GENERAL COMMENTS

88.25-113.7 MODERATELY GREISENISED AKALI GRANITE

ASSAY SUMMARY

INTERVAL From	INTERVAL To	Sn	As	WO_3	Cu	Pb	Zn	Sol.Sn	Ag	Bi				COMMENTS
														All values in ppm.
87.8	113.7	39	22	34	10	10	58	<50	1	63				

LOCATION

NORTHING	6158.7
EASTING	5017.9
R.L.	464.3
GRID	A.M.
LENGTH	113.7

HOLE CONDITION

SIZE: Hole Size	Depth
HAMMER	0-25
BY	25-113.7

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost

POOR GROUND CONDITION ZONES From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total	SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total
0		90.0	0	56.5	56.5	56.5	407.8												
113		88.3	56.5	113.7	57.2	57.2	350.6												

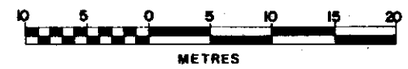
65 7189

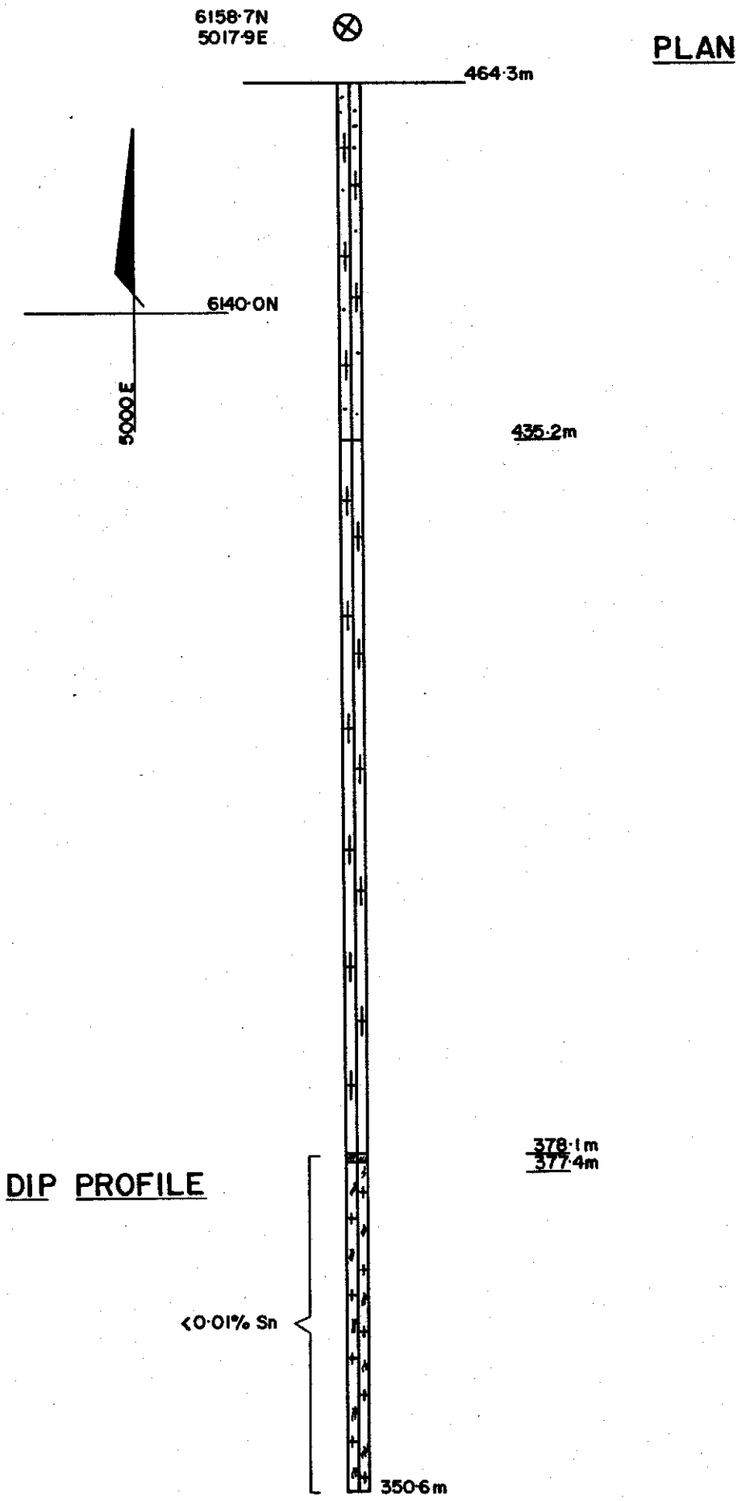
HOLE NO. BT 163

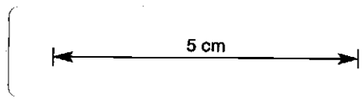
GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:







657190

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T.163

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				SUMMARISED LOG
0	19			MODERATELY WEATHERED MICRO-ADAMELLITE (Dg-fp)
19	29.00			MODERATELY WEATHERED MEDIUM FINE GRAINED POIMENA ADAMELLITE.
29	87.80			MEDIUM GRAINED WEAKLY PORPHYRITIC POIMENA ADAMELLITE. PATCHILY ALTERED AND FRACTURED.
87.80	88.25			PEGMATITE.
88.25				CONTACT.
88.25	113.70			MODERATELY, VARIABLY GREISENISED ALKALI GRANITE.
				DETAILED LOG
				0-19 MODERATELY WEATHERED MICRO-ADAMELLITE.
0	13	13		Brown, fine grained, equigranular, moderately-weakly weathered granite. Numerous small black biotites and hematite stained feldspars-some altered to white clays. Small stained quartz crystals. Between 12.0 and 13.0, brown clay rich zone.
13	18	5		Slightly weathered granite, brown, fine grained and slightly porphyritic. Small unweathered feldspar phenocrysts.
18	19	1		Brown-orange clay, with few mineral grains.
				19-29.00 MODERATELY WEATHERED, MEDIUM-FINE GRAINED POIMENA ADAMELLITE.
19	24	5		Medium-fine grained, moderately strongly weathered granite.

ASSAY DATA

Sample No.	From	To	Rec. %

657101

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 163

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				Weakly porphyritic. Biotite is altered/weathered to yellow sericite and orange brown limonite. Light yellow-green sericite stains feldspar and quartz. Weathering decreases down hole.				
24	29.00	5.00	100	Slightly altered and weathered light brown granite. Biotite is more common. Light yellow sericite and pale pink hematitic staining is abundant. In places highly fractured and crumbly.				
				29.00-87.80 ALTERED, WEAKLY PORPHYRITIC POIMENA ADAMELLITE.				
29	30.50	1.50	100	Red-brown granite, weakly fractured with poorly developed yellow sericite - and red-pink feldspars. Fine-medium grained and weakly porphyritic with phenocrysts up to 1.0cm.				
30.50	37.10	6.60	100	Light grey granite with a dull reddish tinge. Weakly porphyritic and medium grained. Pale green sericite patches, numerous small black biotites, small (rarely up to 2.0cm, average 1.0 cm) feldspar phenocrysts and quartz are the minerals present. Very weakly developed fractures with thin yellow sericite coatings.				
37.10	39.50	1.40	70	Crumbly and highly fractured; soil-like, with pervasive pale yellow sericite. Rare biotite (replaced) and pale pink feldspars with quartz are relict.				
39.50	67.70	28.20	100	Grey granite, intact rock with small colourless quartz phenocrysts and biotite clots. Medium grained and weakly porphyritic. Very weakly fractured. At 51.20, a 10cm thick, coarse grained pegmatite at 60° CA.				
67.70	81.50	13.80	100	Medium grained, weakly porphyritic pale pink-green-brown-grey granite. Moderately fractured, and in places highly fractured and crumbly. Sericite (light green) is abundant as fracture coatings and pervasive. Biotite is rare. Quartz veins occur as sinuous, thin, sub-parallel, discoloured (light brown)				

657102

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T.163

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	Sample No.	From	To	Rec. %	Sn	As	WO_3	Cu	Pb	Zn	Sol.Sn	Ag	Bi
									ASSAY DATA (all ppm)								
				very fine grained-cryptocrystalline features. Patches of highly													
				coloured:- pale pink/light brown-yellow unfractured rock													
				also exist.													
81.50	85.60	4.10	100	Slightly altered pale pink-brown grey granite. Poorly fractured													
				with moderately abundant biotite. Few joints are surrounded													
				by zones (several cm thick) of increased alteration. Medium													
				grained and weakly porphyritic.													
				Between 84.60 and 85.20, 70cm of broken, altered, strongly													
				sericitised pink-green rock.													
85.60	87.80	2.20	100	Grey granite, weakly porphyritic and medium grained with													
				white feldspar phenocrysts averaging 1 cm. Pale green sericite													
				is weakly developed. Unfractured with minor veinlets of quartz													
				and mica. Black book biotites are common.													
				87.80 - 88.25 PEGMATITE													
87.80	88.25	0.45	100	Pegmatitic zone. 10cm of large pink feldspars in fine grained													
				quartz with minor sericitised patches and accessory biotite.													
				Crudely banded. 10cm of coarse and fine grained quartz with													
				light green sericite flakes pseudomorphing biotite.													
				10cm of massive quartz-sericite and clay altered feldspars.													
				Moderately fractured with abundant fluorite coatings. 15cm													
				of crudely banded, orange-green, fine grained quartz with													
				muscovite, sericitised biotite and abundant disseminated													
				fluorite.													
				88.25 CONTACT													
				88.25- 113.70 GREISENISED ALKALI GRANITE.													
					1215	87.8	88.1	100	30	20	30	20	10	70	<50	1	20
88.25	90.50	2.25	100	Granite, medium grained, equigranular and moderately but	1216	89.0	90.0		50	40	30	10	20	100	<50	1	50
				patchily greisenised. A crude banding or layering is produced	1217	89.0	90.0		50	30	70	10	10	100	<50	1	50
				by the two intensities of greisenisation.	1218		91.0		30	20	60	10	10	70	<50	1	50

657193

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 163

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				Pale green:- sericitised biotite poor, rare fluorite, abundant
				lime green sericite patches, quartz and muscovite.
				Dark green:- sericitised biotite rich, moderately abundant
				fluorite, muscovite, quartz and no sericite patches.
				Feldspars are cream and sericitised biotites form large "books"
				making 0.5cm cubes in places. Fractures are rare. Rapid
				transitions between the darker and light greisen styles occur.
90.50	94.00	3.50	100	Pale green greisened granite. Biotites are almost unaltered,
				lime green sericite is pervasive. Muscovite is present, fluorite
				is rare.
94.00	105.30	11.30	100	Alternating pale and dark green greisenised granite; irregularly
				approximately at 2m intervals. Equigranular and medium grained
				with white-cream feldspars and colourless quartz. Fluorite
				is absent after 95.20. Unfractured.
105.30	113.70	8.40	100	Very pale green granite. Incipiently greisenised and slightly
				crumbly-highly fractured at 107.50.
				At 109.50, a 2mm crush zone (0°CA) with white clays and
				rock fragments-crumbly in places. Ends at 111.60. After
				this zone, fracturing in granite increases, becoming filled
				with white clays. The last 2m of granite is very pale green
				white.
				END OF HOLE 113.70

ASSAY DATA

Sample No.	From	To	Rec. %	Sn	As	WO_3	Cu	Pb	Zn	Sol.Sn	Ag	Bi
1219		92.0		40	20	40	10	10	60	<50	1	30
1220		93.0	↑	30	10	60	10	10	30	<50	1	30
1221		94.0	100	40	20	30	<10	<10	40	<50	<1	30
1222		95.0		60	20	30	<<10	<10	60	<50	<<1	90
1223		96.0		40	20	30	<10	<30	50	<50	1	60
1224		97.0		50	20	30	<10	<10	70	<50	1	50
1225		98.0		40	30	50	<10	<10	90	<50	1	130
1226		99.0		40	10	20	<10	<10	60	<50	<<1	50
1227		100.0		60	30	30	<10	<10	140	<50	1	120
1228		101.0		50	20	50	<10	<10	100	<50	1	70
1229		102.0		40	20	30	10	10	70	<50	<1	40
1230		103.0		40	20	20	<10	<10	40	<50	<1	20
1231		104.0		40	20	30	<10	<10	30	<50	1	30
1232		105.0		40	10	20	<10	<10	70	<50	<1	40
1233		106.0		50	20	60	<10	<<10	70	<50	1	160
1234		107.0		40	20	40	<10	<10	50	<50	1	120
1235		108.0		40	30	30	<10	<10	40	<50	1	130
1236		109.0		30	20	30	<10	<<10	30	<50	1	70
1237		110.0		40	30	30	<30	<10	20	<50	1	50
1238		111.0		30	20	20	<10	<10	30	<50	<<1	150
1239		112.0		30	30	20	30	<10	30	<50	1	20
1240		113.0		10	10	10	30	<10	30	<50	<1	10
1241		113.7		<10	20	20	<<10	10	20	<50	<1	20

657194

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO. :	B.T. 164
STATE :	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	P.A. Roberts
LOGGED BY	A.J.Cartwright
COMMENCED	3-9-82
COMPLETED	13-9-82

PURPOSE

To test the possible existence of unexposed Alkali Granite in the Crystal Creek Area.

LOG SUMMARY	0-34	VARIABLY WEATHERED POIMENA ADAMELLITE.
	34-99.5	WEAKLY ALTERED POIMENA ADAMELLITE.
GENERAL COMMENTS		

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	7514.6
EASTING	1922.4
R.L.	726.0
GRID	A.M.
LENGTH	99.50

HOLE CONDITION

SIZE	
Hole Size	Depth
HAMMER	0-26
BY	26-99.5

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total	SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0		90.0	0	44.5	44.5	44.5	681.5												
99		89.0	44.5	99.5	45.0	45.0	636.5												

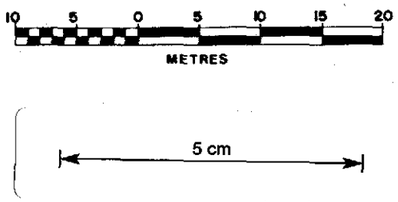
657195

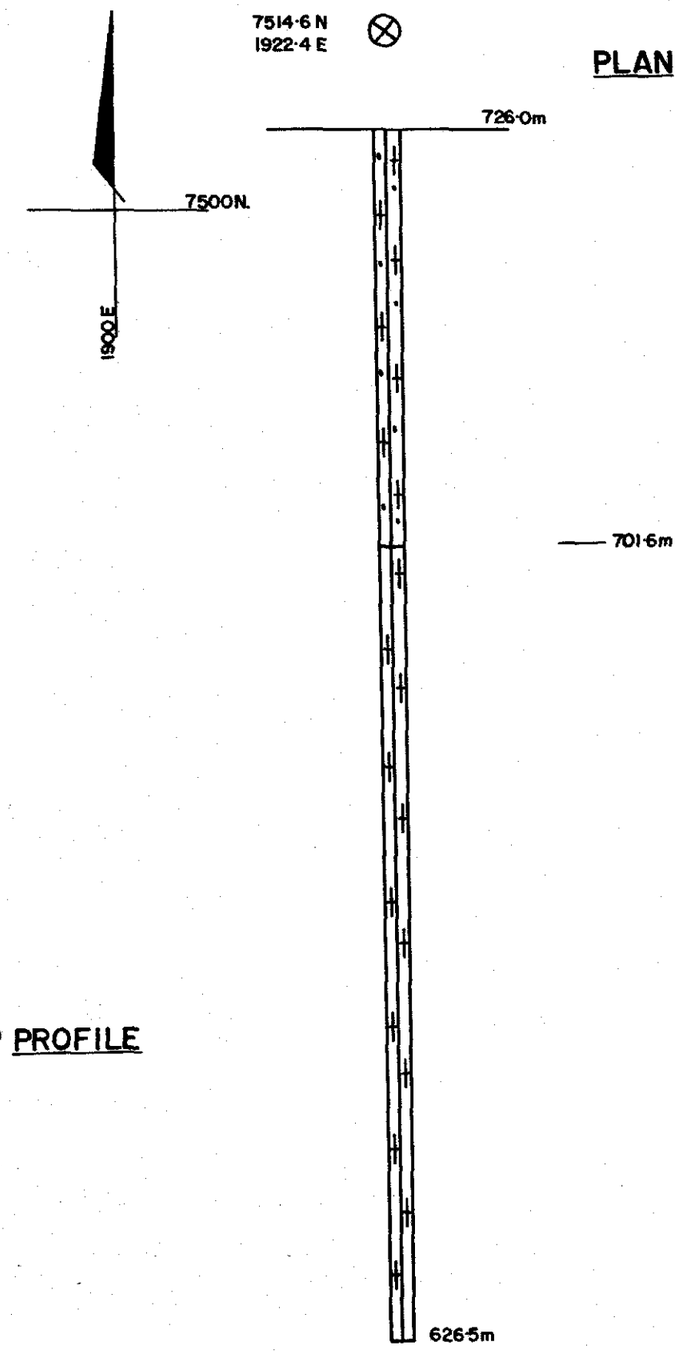
HOLE NO. BT 164

GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:





DIP PROFILE

657196

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 164

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				LOG SUMMARY				
0	34			WEATHERED POIMENA ADAMELLITE.				
34	99.50			WEAKLY ALTERED POIMENA ADAMELLITE.				
				DETAILED LOG				
				0-34 WEATHERED POIMENA ADAMELLITE				
0	15	15		White weathered granite. Abundant clays both white and brown, few feldspar phenocrysts, quartz, rare small black biotites. Limonite staining is common. Moderately bleached.				
* 15	25	10		Brown, weathered granite with pink feldspars and numerous small dark biotites. Porphyritic.				
25	27.00	2		Fresh granite. Large white feldspar phenocrysts (several cm), large quartz phenocrysts and black biotites. Unfractured.				
27.00	34.00	7		Slightly weathered granite with a weakly developed pervasive limonite stain. Moderately fractured, porphyritic and medium grained. Occasional 30-40cm lenses of fresh rock. Weathered granite is brown, brown-orange, and pale orange.				
				34-99.5 WEAKLY ALTERED POIMENA ADAMELLITE.				
34.00	69.40	35.40	100	Fresh, medium grained, grey granite. Euhedral feldspar phenocrysts up to 2cm. Rare, pale green sericite and rare fractures, chlorite? coated. Large biotite clots.				
* 69.40	80.70	10.30	91	Reddish-green granite. Hematite replaces some feldpars, large feldspar phenocrysts are pink. Yellow-green sericite is common, increasing with increasing fracturing. Some biotites are dark green; sericitised. Porphyritic and medium - coarse grained.				

65,192

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 164

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
80.70	85.50	4.80	100	Dark grey-brownish green granite, weakly fractured with poorly developed sericite and hematite. Quartz and feldspar are stained dark brown. Medium grained and weakly porphyritic with large quartz phenocrysts and less abundant feldspar phenocrysts. Becomes slightly coarser grained with depth.				
85.50	89.00	2.50	71	Pale pink-light grey granite. Medium-coarse grained and weakly porphyritic, it is slightly bleached. Moderately fractured with dark green sericitised biotites. Large (up to 2 cm) feldspar phenocrysts are not abundant. Small altered patches of quartz sericite - ?chlorite occur, destroying original textures, producing a dark green pervasive colouration.				
89.00	97.65	8.65	100	Medium-coarse grained, porphyritic, grey granite. Large white feldspar phenocrysts, small, numerous, black biotites and weakly developed grey-green sericite stains smaller feldspar phenocrysts. A weak brown limonite-hematite stain is also present. Unfractured. At 95.00, a 20cm zone of crumbly, fractured, strongly altered rock, rich in small quartz veins.				
97.65	99.50	1.85	100	Pale pink green-grey granite, medium-coarse grained and porphyritic. Feldspar colouration (pink,green) increases down hole. Weakly fractured with sericite veinlets and patches of sericite pseudomorphing biotite.				
				END OF HOLE 99.50				

65719S

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED
DRILL CORE RECORD

CORE KEPT IN BURNIE

HOLE NO.	B.T. 165
STATE	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	13-9-82
COMPLETED	17-9-82

PURPOSE

To test for the possible existence of mineralised Alkali Granite north of the Anchor.

LOG SUMMARY

0 - 38 FINE-GRAINED BIO+ ADAMELLITE (Dg-fp).

38 - 99.60 WEAKLY GREISENISED ALKALI GRANITE WITH QUARTZ VEINS AND SULPHIDES.

GENERAL COMMENTS

ASSAY SUMMARY

INTERVAL From	INTERVAL To	Sn	As	WO_3	Cu	Pb	Zn	Ag	Bi	Sol.Sn				COMMENTS
35	90.5	22	47	23	19	15	63	1	25	<50				

LOCATION

NORTHING	6001.5
EASTING	4958.6
R.L.	404.0
GRID	A.M.
LENGTH	99.60

HOLE CONDITION

SIZE: Hole Size	Depth
HAMMER	0-43
BY	43-99.6

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost

POOR GROUND CONDITION ZONES From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total
0	—	90.0	0	49.5	49.5	49.5	354.5	0	0
99	155	87.5	49.5	99.5	50.1	50.1	304.4	2.2	2.2

SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total

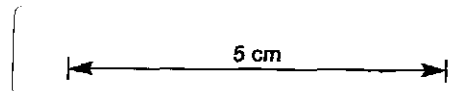
65/1199

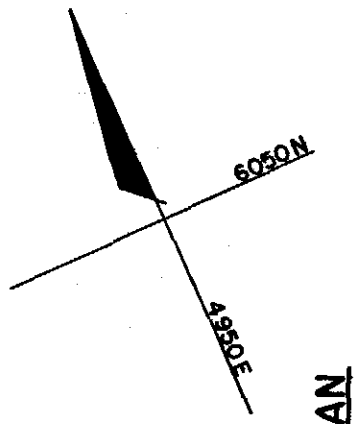
HOLE NO. **BT 165**

GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

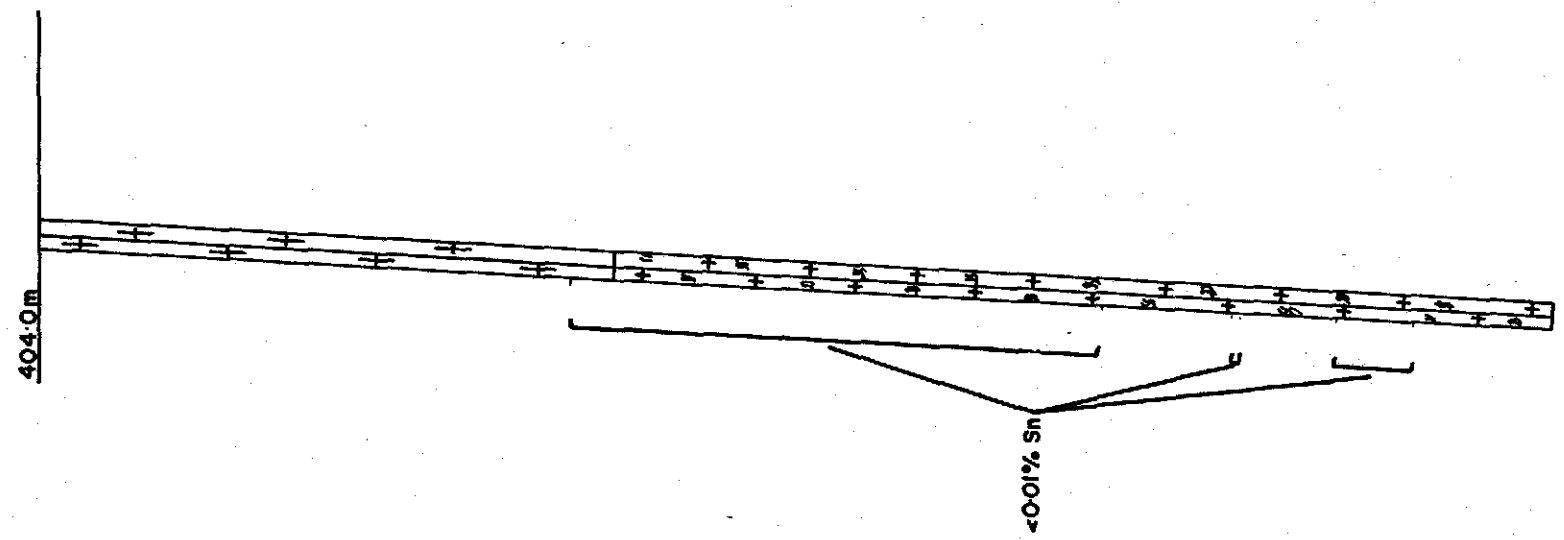
SCALE 1:





PLAN

DIP PROFILE



657200

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 165

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	Sample No.	From	To	Rec. %	Sn	As	WO_3	Cu	Pb	Zn	Ag	Bi	Sol.Sn
									ASSAY DATA (all ppm)								
				SUMMARISED LOG													
0	21			WEATHERED FINE GRAINED BIO-ADAEMLLITE (Dg-fp).													
21	38			FINE-GRAINED BIO-ADAMELLITE (Dg-fp).													
38.00				CONTACT													
38.00	99.60			WEAKLY GREISENISED ALAKALI GRANITE WITH MINOR QUARTZ VEINS AND SULPHIDES.													
				DETAILED LOG													
				0 - 38 WEAKLY AND UNWEATHERED FINE-GRAINED BIO-ADAMELLITE (Dg-fp).													
0	21	21		Slightly weathered brown-grey granite with phenocrysts (up to 1cm) of feldspar weathered to white clays. Small black biotites and small quartz phenocrysts as well as abundant brown clay and limonite staining. Fine grained overall, with low modal biotite and feldspar phenocrysts.													
21	38	17		Very pale brown-light grey, very fine grained granite. Rare large (0.5cm) feldspar phenocrysts. Biotites are brown and black. Weakly porphyritic with grain size increasing down hole.													
				38.0 CONTACT													
				38 - 99.60 WEAKLY GREISENISED ALKALI GRANITE WITH MINOR QUARTZ VEINS AND SULPHIDES.													
					1032	35.0	36.0	100	20	20	30	40	10	60	<<1	10	< 50
38	43	5		Pale green-grey granite. Becomes greener with depth. Sericite is abundant and feldspars have a pink (pale) colouration. Medium grained, equigranular and biotites are either black,	1033		37.0		30	10	20	40	10	60	<1	10	< 50
					1034		38.0		40	25	40	130	20	90	1	20	< 50
					1035		39.0		30	35	20	30	20	80	1	10	< 50

65720 1

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T.165

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %	Sn	As	WO_3	Cu	Pb	Zn	Ag	Bi	Sol.Sn
				brown, or altered dark green. Very rare fluorite and accessory	1036	39.0	40.0	100	25	40	20	30	20	70	1	10	< 50
				pyrite occur.	1037		41.0		20	35	25	30	20	80	1	10	< 50
				A small, thin clay zone at 43.00.	1038		42.0		20	75	30	20	20	90	2	20	< 50
					1039		43.0		20	95	25	20	30	90	2	30	< 50
43.00	48.50	5.00	91	Equigranular white-grey granite with numerous dark green biotites	1040		44.0		25	90	30	20	20	90	2	30	< 50
				pseudomorphed by sericite. Sericite is also weakly developed	1242		45.0		30	35	25	<10	10	70	1	40	< 50
				as pale green pervasive alteration. Moderately fractured	1243		46.0		20	50	20	<10	10	50	1	20	< 50
				with zones of white clay veinlets and pyrite, as framboids?	1244		47.0		30	35	25	20	<10	60	1	50	< 50
				and cubes-coarse grained.	1245		48.0		25	25	30	<10	10	60	1	60	< 50
					1246		49.0		30	25	20	<10	<10	60	2	70	< 50
48.50	51.45	2.95	100	Cryptocrystalline quartz-pale green sericite zone, 4mm wide	1247		50.0		25	25	20	<10	<10	70	1	50	< 50
				at 10°CA. Sinuous and anastamosing, it exhibits pinch and	1248		51.0		30	30	25	<10	<10	70	2	140	< 50
				swell textures. Strongly altered and bleached granite either	1249		52.0		30	25	30	<10	20	90	4	80	< 50
				side.	1250		53.0		20	35	20	<10	10	120	3	20	< 50
					1251		54.0		30	20	20	10	10	90	2	20	< 50
51.45	53.65	2.20	100	Bleached, soft rock: white with flecks of pale green sericite.	1252		55.0		20	20	30	<10	<10	50	1	30	< 50
				Abundant disseminated pyrite, some coarse grained (up to	1253		56.0		20	20	20	<10	<10	50	< 1	20	< 50
				2mm) and euhedral. Weakly developed iron oxide staining	1254		57.0		15	20	25	<10	<10	50	< 1	10	< 50
				and pervasive clay alteration (to white clays) has destroyed	1255		58.0		10	30	20	10	30	60	5	20	< 50
				the original texture.	1256		59.0		20	30	30	10	10	60	2	10	< 50
					1257		60.0		10	20	25	10	60	120	7	20	< 50
53.65	56.90	3.25	100	Equigranular, medium grained, green-grey granite. Moderately	1258		61.0		20	30	20	<10	<10	50	1	10	< 50
				fractured with white clays filling fractures. Biotite is	1259		62.0		15	25	20	<10	<10	50	<1	20	< 50
				totally replaced.	1260		63.0		55	25	10	<10	<10	50	<1	10	< 50
					1261		64.0		20	20	30	<10	<10	50	<1	10	< 50
56.90	59.55	2.65	100	Bleached rock with pale and dark green sericite. Moderately	1262		65.0		15	20	20	<10	<10	60	<1	10	< 50
				fractured with pyrite and molybolenite? along with white	1263		66.0		20	20	20	<10	<10	50	<1	<10	< 50
				clay and talc? infilling joints.	1264		67.0		20	20	20	<10	<10	60	<1	<10	< 50
					1265		68.0		30	30	20	<10	10	50	<1	10	< 50
59.55	78.70	19.15	100	Grey-brown granite with minor green flakes. Miscovite and	1266		69.0		30	25	30	<10	10	40	<1	<10	< 50
				some unaltered biotite are present. Equigranular, medium	1267		70.0		15	25	20	<10	<10	40	<1	<10	< 50
				grained and unfractured. Dark and light green sericite are	1268	78.7	79.1		<10	290	35	20	40	80	2	30	< 50
				present, pseudomorphing biotite, decreasing downhole.	1269	85.5	86.0		15	55	25	<10	20	40	1	<10	< 50
					1270		87.0		10	85	20	<10	10	30	<1	<10	< 50
78.70	79.20	0.50	100	A 2cm vein, 10°CA, consisting of quartz, pyrite and sericite.	1271		88.0		10	120	25	<10	10	20	1	10	< 50

657202

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 165

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				Quartz, cryptocrystalline and dark, with light green sericite,
				forms a banded vein with massive pyrite- in lenses up to
				0.5cm thick.
				Vein is surrounded by a zone (3-4cm) of increased alteration.
				Bleached, sericite rich, soft and highly fractured.
79.20	85.60	6.40	100	Weakly altered, medium grained, equigranular granite. Minerals
				include brown-black biotie, muscovite, grey quartz and white
				feldspar with patches of sericitisation. Few, thin joints,
				filled with light green sericite.
85.60	88.35	2.75	100	Altered and bleached granite, fractured and crumbly, surrounds
				a complex set of veinlets and veins of cryptocrystalline
				quartz and light green sericite. One massive, 10cm thick
				vein, is underlain by a network of vuggy veinlets and moderately
				altered granite. Sericite rich with no mica for 90cm. Pervasive
				alteration and veining continued with bands of massive py
				up to 1cm thick, and pockets of moderately altered granite.
88.35	90.60	2.25	100	Unaltered-weakly altered granite with approximately 50% of
				biotites replaced by sericite.
				At 89.55, a sinuous (approx. 0°CA) 2mm thick quart-pyrite
				veinlet for 15cm, develops into 30cm of 2cm thick vuggy
				dog-tooth quartz with a strong fluorite coating on the
				vug surface. Moderately strongly altered granite surrounds
				the vein. The last 0.5m.
90.60	99.60	9.00	100	Moderately altered and weakly fractured - along vein edges.
				Green-grey granite with unaltered and sericitised biotite
				and muscovite, quartz and feldspar. Thin veins and veinlets
				with sulphide (pyrite) selvedges.
				END OF HOLE 99.60

ASSAY DATA

Sample No.	From	To	Rec. %	Sn	As	WO_3	Cu	Pb	Zn	Ag	Bi	Sol.Sn.
1272	88.0	89.0	100	10	125	25	<10	10	30	1	10	< 50
1273		90.0		20	90	20	100	30	100	2	30	< 50
1274		90.5		10	115	20	10	20	40	2	30	< 50

657203

ULV. PRESS

CORE KEPT IN BURNIE

HOLE NO. :	BT 166
STATE :	TASMANIA

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

PROJECT	BLUE TIER
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	5-7-83
COMPLETED	13-7-83

PURPOSE

To test for unexposed Alkali Granite beneath the Lottah Veins.

LOG SUMMARY / GENERAL COMMENTS

The Lottah Veins were intersected, along with a Dg-Fp granite phase. Apart from intense alteration narrowly developed around the veins, the alteration encountered was weak.

ASSAY SUMMARY

INTERVAL From	INTERVAL To	Sn(Wt%)												COMMENTS
53.0	55.0 (2m)	0.17												Lottah veins intersected.

LOCATION

NORTHING	5437832
EASTING	585013
R.L.	639.4
GRID	A.M.G.
LENGTH	240.0

HOLE CONDITION

SIZE	
Hole Size	Depth
TRICONE	0-13.0
NQ	13.0-18.0
BQ	18.0-240.0

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

Hole left open, with a black polythene marker.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0.0	111°	84.5°	0.0	40.6	40.6	40.4	599.0	3.9	3.9
81.2	111°	84.0°	40.6	120.2	79.6	79.2	519.8	8.3	12.2
159.2	111°	84.5°	120.2	198.2	78.0	77.6	442.2	7.5	19.7
237.2	114°	83.5°	198.2	240.0	41.8	41.8	400.4	4.7	24.4

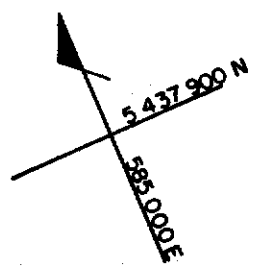
SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total

65720 4

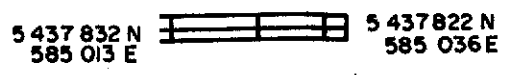
GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

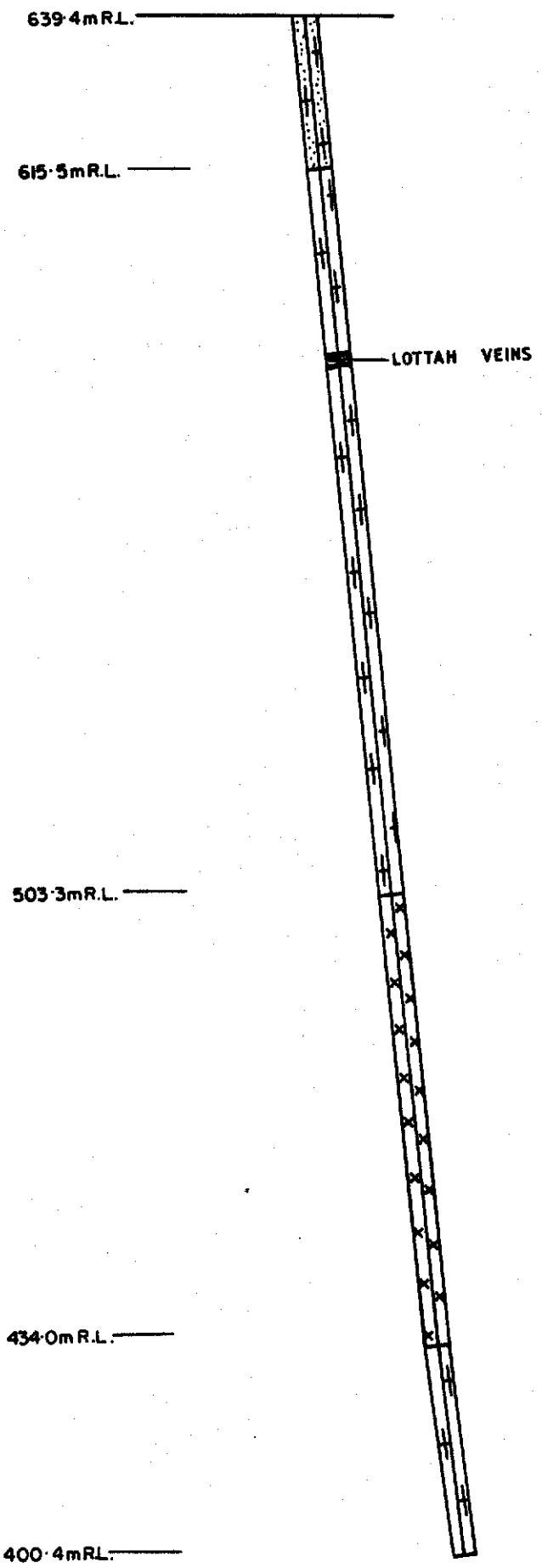
HOLE NO. BT 166



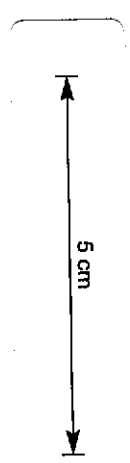
PLAN



DIP PROFILE



SCALE 1:



657205

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 166

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0.0	23.9	10.9		MODERATELY WEATHERED POIMENA ADAMELLITE, UNALTERED.				
23.9	137.3	113.4		COARSE-MEDIUM GRAINED, PORPHYRITIC AND WEAKLY ALTERED POIMENA ADAMELLITE WITH SEVERAL MAJOR QUARTZ VEINS.				
137.3	208.0	70.7		FINE GRAINED, NON-PORPHYRITIC POIMENA ADAMELLITE (Dg-fp) WITH A FEW COARSE GRAINED PHASES. WEAKLY ALTERED APART FROM THE DEVELOPMENT OF SEVERAL, NARROW SILICIFIED ZONES.				
208.0	240.0	32.0		MEDIUM-COARSE GRAINED, WEAKLY PORPHYRITIC AND WEAKLY ALTERED POIMENA ADAMELLITE.				
				DETAILED LOG				
				0.0-23.9 MODERATELY WEATHERED POIMENA ADAMELLITE.				
0.0	13.0	13.0	0	Tricone. No core.				
13.0	23.9	10.9	100	Brown weathered granite. Medium grained and strongly porphyritic with large white feldspar phenocrysts up to 4cm wide. Weakly fractured with limonite pervasively developed and intense around the fractured (crumbly zones). Patches of unweathered, unfractured granite. Unaltered.				
				23.9-137.3 POIMENA ADAMELLITE WITH MAJOR QUARTZ VEINS.				
23.9	52.6	28.7	100	Grey, coarse-medium grained, strongly porphyritic granite. Large white feldspar phenocrysts, smaller pale green sericitised feldspar, quartz and black biotites, are the phases present. Overall unfractured, however a few sericite rich crushed zones (approx. 10cm wide) do occur. Rare sericite (green) coated fractures occur also. Several 2cm thick coarse grained quartz-feldspar pegmatites are developed. Unaltered.				

65720 6

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 166

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				At 52.2, pinkening of feldspar phenocrysts occurs.
52.6	55.0	2.4	100	Strongly altered, argillised granite with abundant sericite, quartz, hematite and crush zones for 1.3m. Pink-green in colour with all the micas replaced. At 53.9, a 0.9m thick quartz-mica-sericite vein with several small vugs developed. Moderately fractured. This is underlain by 0.2m strongly sericitised, bright green-pink granite.
55.0	100.3	45.3	100	Pink granite for 4.0m, then grey, coarse-medium grained porphyritic granite. Unfractured with several thin crush zones, and rare sericite coated fractures. Unaltered with mineral phases the same as before the altered granite/vein above. Several thin (approx. 20cm) mixed aplitic-pegmatitic phases occur. Below 63.8m, pink colour returns to granite. At 64.8, a 2.0m zone of strong altered pink-green granite. Argillised with all biotites replaced. Minor quartz veining. At 91.7, a 30cm vein of white quartz and black biotite with minor sericite. Blocky fractured. At 100.1, 20cm of very coarse grained granite is overlain by 0.4m of fine grained biotite-rich granite.
100.3	137.3	37.0	100	Medium grained granite. Porphyritic with feldspars up to 2cm wide. Pink-green in colour with moderate sericite development. More fractured than granite above being fractured into short blocks with several thin (10cm) crush zones also occuring. Feldspars are semi-circular rather than long as they were in the previous granite phase. Also appears to be richer in biotite. Overall weakly sericitised. All feldspars are pinkish. At 126.0, a 0.5m thick aplite of quartz and pale green sericite. At 130.4, the pink colour in the feldspars disappears. Below 133.6, several thin crush zones, silicified zones and patches of extreme variation in grain size occur.

ASSAY DATA (all ppm)

Sample No.	From	To	Rec. %	Sn	As	Sr	Rb	Cu	Ag	Mo
4276	52.0	53.0	100	10	<10	120	530	5	<1	<10
4277	53.0	54.0	100	1120	620	40	1740	120	1	10
4278	54.0	55.0	100	2190	550	20	1470	165	1	10
4279	91.5	92.5	100	40	10	80	1200	10	<1	10

65/2201

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 166

Page: 3.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA (all ppm) Sample No.	From	To	Rec. %	Sn	As	Sr	Rb	Cu	Ag	Mo
				137.3-208.0 FINE GRAINED, NON-PORPHYRITIC POIMENA ADAMELLITE											
				WITH A FEW COARSER GRAINED PHASES.											
					4280	137.0	139.0	100	<10	10	150	550	15	<1	20
137.3	146.0	8.7	100	Fine grained grey granite. Equigranular except for a few rare											
				feldspar phenocrysts elongated up to 2.5cm. Alteration is											
				very weakly developed with unaltered feldspars and biotites.											
				A few narrow zones of sericitisation/silicification exist.											
				Unfractured.											
				At 145.2, a 0.8m thick clay zone. All the granite is altered											
				to a soft clay-pale grey in colour.											
146.0	149.5	3.5	100	Silicified granite with original texture destroyed. Moderately	4281	146.0	148.0	100	10	10	160	580	15	<1	<10
				altered. Few relict feldspar phenocrysts exist with minor											
				sericite and pervasive grey quartz. Appears to have been a											
				fine grained granite.											
149.5	160.9	11.4	100	Medium-coarse grained grey granite. Feldspar phenocrysts up											
				to 2cm wide and long. Unaltered apart from several thin (20cm)											
				silicified zones. Unfractured, with no sericite developed											
				at all. The last 2.0m gets finer grained gradually, grading											
				into the unit below.											
160.9	180.4	19.5	100	Fine grained grey granite, non-porphyritic apart from the											
				occasional large (2cm long) white feldspar. Mafic inclusions-	4282	161.0	163.0	100	<10	<10	160	500	5	<1	10
				commonly occur up to 2-3cm across, consisting predominantly											
				of black biotite. Unaltered and unfractured except for a few											
				rare,thin sericitised fractures. Several aplitic phases (approx.											
				10cm thick) also exist.											
				At 173.4, an equigranular but coarser grained (0.5cm) grey											
				granite surrounds a thin veinlet of sericite for 1.1m.											
180.4	184.5	4.1	100	Medium-coarse grained, porphyritic, grey granite. Unaltered											
				overall, apart from one sericitic and silicified vein. Becomes	4283	181.0	183.0	100	<10	10	200	460	5	<1	<10
				quite coarse grained in places with large (3-4cm across) white											
				feldspar phenocrysts.											

65/208

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 166

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA (all ppm) Sample No.	From	To	Rec. %	Sn	As	Sr	Rb	Cu	Ag	Mo
184.5	208.0	23.5	100	Fine grained grey granite. Unaltered with mafic clots and rare, small feldspar phenocrysts. Rare sericitised and silicified veins occur randomly throughout. At 189.0, a slight pinkening of the feldspars occur. This becomes slightly stronger with depth. The granite is unfractured and equigranular (around-2mm).	4284	187.0	189.0	100	<10	<10	160	470	5	<1	<10
				At 192.8, a 3cm thick white quartz vein containing minor green sericite is surrounded either side by a 3cm thick seric-itised/silicified zone of alteration, of 20° CA. Between 205.1 and 206.1, and increase in veining occurs with several thin sericite filled veinlets causing a light, pale brown alteration in the enclosing granite.											
				208.0-240.0 MEDIUM-COARSE GRAINED, WEAKLY PORPHYRITIC POIMENA ADAMELLITE.											
208.0	210.2	2.2	100	Very pale grey, silicified aplite. Green sericite and pervasive quartz (very fine grained) and feldspar. Becomes pink with depth.	4285	208.0	210.0	100	20	10	10	1970	5	<1	<10
				At 209.0, a 20cm zone at 45° CA, of increased sericitisation-greisen developed. Accessory purple fluorite occurs. The upper and lower contacts of this unit are approx. 15° CA, and are both sharp.											
210.2	225.8	15.6	100	Pink, medium-coarse grained porphyritic granite. Pink feldspars up to 2-3cm across occur commonly. The top 1.0m contains pale green sericite, otherwise the unit is unaltered with rare veins and pegmatites (thin - 10cm).											
				Between 217.1 and 219.4, the pink colour is absent (a grey unaltered, medium grained granite).	4286	217.0	219.0	100	<10	<10	170	490	5	<1	<10
				At 222.5, a 5cm thick white quartz-pale pink feldspar-pale green sericite vein at 45° CA. This is surrounded above and below by a sericitised zone (biotites altered to sericite). At 225.4, a 0.4m thick patch of silicified and sericitised granite.											

657209

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 166

Page: 5.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	Sample No.	From	To	Rec. %	Sn	As	Sr	Rb	Cu	Ag	Mo			
					ASSAY DATA (all ppm)													
225.8	240.0	14.2	100	Medium grained, grey granite. Slightly finer than the phase above.														
				Much less porphyritic, with smaller phenocrysts (up to 2.5cm).														
				Some pink and aplitic zones (20-30cm thick). Minor veinlets	4287	238.0	240.0	100	<10	10	170	530	5	<1	<10			
				surrounded by increased alteration also occur.														
				At 233.0, a 1.0m zone of deep grey, clay rich crushed rock-														
				crumbly and strongly sericitised.														
				END OF HOLE. 240.0														

65/210

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED
DRILL CORE RECORD

CORE KEPT IN BURNIE

HOLE NO.	B.T. 167
STATE	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	14-7-83
COMPLETED	20-7-83

PURPOSE

To test for extensions of the mineralisation in the Moon Mine Area.

LOG SUMMARY / GENERAL COMMENTS

The Alkali Granite was encountered at 61.5m., with a 1.1m thick pegmatite overlying the contact. Between 76.0 and 124.0 the granite is topazised, otherwise it is only weakly altered. Significant assays are given below.

ASSAY SUMMARY

INTERVAL From	INTERVAL To	Sn (Wt%)												COMMENTS
59.4	124.0	<0.01												

LOCATION

NORTHING	5438940
EASTING	584245
R.L.	732.4
GRID	A.M.G.
LENGTH	144.5

HOLE CONDITION

SIZE: Hole Size	Depth
TRICONE	0.0-6.0
NQ	6.0-15.0
BQ	15.0-144.5

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost

POOR GROUND CONDITION ZONES From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

Hole open with a black plastic tube left as a marker.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total
0.0	032	70.0	0.0	21.6	21.6	20.3	712.1	7.4	7.4
43.2	031	71.0	21.6	67.2	45.6	43.1	669.0	14.9	22.3
91.2	032	71.0	67.2	115.2	48.0	45.4	623.6	15.6	37.9
139.2	032	71.0	115.2	144.5	29.3	27.7	595.9	9.5	47.4

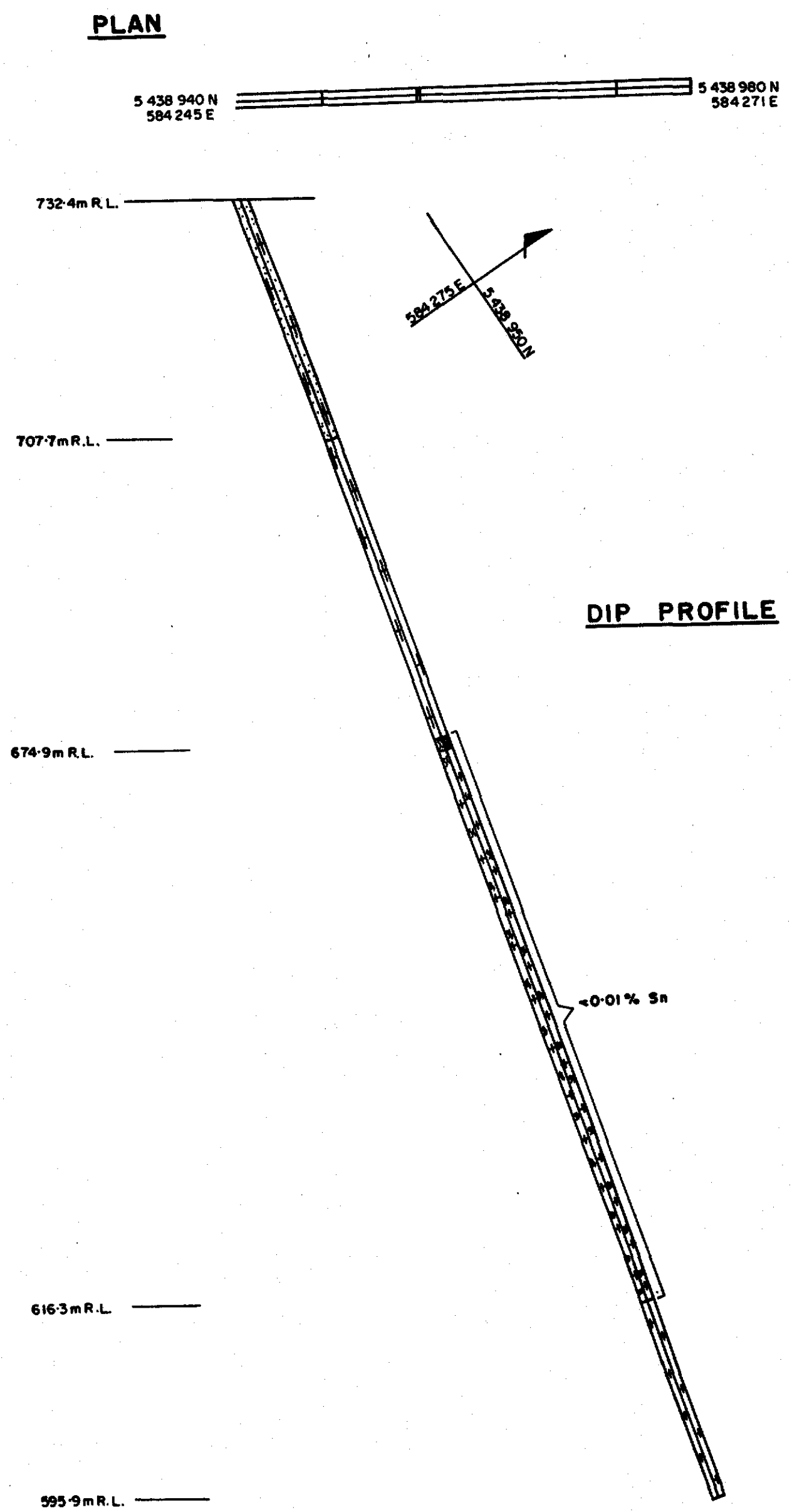
SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total

65,721

HOLE NO. **BT 167**

GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT



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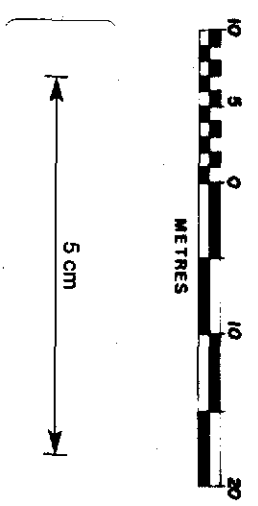


657212

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 167

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0.0	61.5	61.5		MEDIUM GRAINED, MODERATELY PORPHYRITIC POIMENA ADAMELLITE. WEAKLY WEATHERED AT FIRST, THEN VERY WEAKLY ALTERED. THIS IS UNDERLAIN BY A WELL DEVELOPED PEGMATITE/APLITE.				
61.5				CONTACT				
61.5	76.0	14.5		WEAKLY GREISENED, EQUIGRANULAR ALKALI GRANITE.				
76.0	124.0	48.0		VARIABLY GREISENED, TOPAZISED ALKALI GRANITE.				
124.0	144.5	20.5		WEAKLY AND UNALTERED ALKALI GRANITE.				
				DETAILED LOG				
				0.0-61.5 MEDIUM GRAINED, PORPHYRITIC POIMENA ADAMELLITE. WEAKLY ALTERED WITH A WELL DEVELOPED PEGMATITE ON THE LOWER CONTACT.				
0.0	6.0			Tricone-no core recovered.				
6.0	27.3	21.3	100	Brown-grey weathered granite. Medium grained and moderately porphyritic with several strong alteration zones-abundant sericite and quartz replacing feldspars and biotites. All the larger feldspar phenocrysts are pink. Strongly weathered zones of limonite crumbly granite also exist. Overall moderately fractured and weakly altered. After 18.0, unweathered and unaltered zones (approx. 50cm long) occur.				
27.3	60.4	33.1	100	Pink-grey granite, medium grained and moderately porphyritic with feldspar phenocrysts (some pink, others white) up to 2cm across. Unaltered and unfractured with numerous thin aplites and pegmatites (all aprox 10cm wide) developed at 90° CA. Occasional fractures are filled with green sericitic clays.				

657213

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 167 Page: 2.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA (Wt %) Sample No.	From	To	Rec. %	Sn
				At 53.6, a 0.5m quartz-pink feldspar-silvery muscovite coarse					
				grained pegmatite.					
				The last 0.6m becomes quite sericitised with abundant lime					
				green, soft sericite, pink feldspar and quartz.	4395	59.4	60.4	100	<0.01
					4396	60.4	61.4	100	<0.01
60.4	61.5	1.1	100	Pegmatitic. Large (up to 5cm long) blades of colourless,	4397	61.5	62.0	100	<0.01
				grey and white quartz with pink feldspar are mixed with abundant	4398	62.0	63.0	100	<0.01
				aplitic material, often banded at 20° CA. The aplite occurs	4399	63.0	64.0	100	<0.01
				in the centre with the two coarse grained pegmatite on the	4400	64.0	65.0	100	<0.01
				upper and lower contacts. Accessory micas and purple fluorite	4401	65.0	66.0	100	<0.01
				also exist.	4402	66.0	67.0	100	<0.01
					4403	67.0	68.0	100	<0.01
61.5				CONTACT	4404	68.0	69.0	100	0.01
					4405	69.0	70.0	100	<0.01
				61.5-76.0 WEAKLY GREISENED ALKALI GRANITE.	4406	70.0	71.0	100	<0.01
					4407	71.0	72.0	100	<0.01
61.5	76.0	14.5	100	Pale green alkali granite. Equigranular, medium grained and	4408	72.0	73.0	100	<0.01
				non-porphyritic with a patchily developed weak sericitic alter-	4409	73.0	74.0	100	<0.01
				ation. Unfractured. The unaltered-less altered section consists	4410	74.0	75.0	100	<0.01
				of quartz-feldspar and dark green sericitised micas. The stronger	4411	75.0	76.0	100	<0.01
				altered sections are less abundant and consist of quartz (colour-	4412	76.0	77.0	100	<0.01
				less) and pervasive sericite, as dark green replacing micas	4413	77.0	78.0	100	<0.01
				and pale green in feldspars. Alteration overall is between	4414	78.0	79.0	100	<0.01
				these two extremes. Rare purple fluorite and red hematitic	4415	79.0	80.0	100	<0.01
				veins also occur.	4416	80.0	81.0	100	<0.01
					4417	81.0	82.0	100	<0.01
				76.0-124.0 VARIABLY ALTERED, TOPAZISED ALKALI GRANITE.	4418	82.0	83.0	100	<0.01
					4419	83.0	84.0	100	<0.01
76.0	124.0	48.0	100	Pale greenish grey and off-white alkali granite. Alteration	4420	84.0	85.0	100	<0.01
				is similar to above, however may be more intense as there	4421	85.0	86.0	100	<0.01
				is little trace of the micas. The granite consists of colourless	4422	86.0	87.0	100	<0.01
				quartz and topaz? with white feldspar and pale green sericite.	4423	87.0	88.0	100	<0.16
				Unfractured with rare, thin sericite enrichments in a vein -	4424	88.0	89.0	100	<0.01
				like form. Below 87.0 the feldspar becomes pale orange, probably	4425	89.0	90.0	100	<0.01
				due to hematite. This disappears at 94.0.	4426	90.0	91.0	100	<0.01

65721

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 167

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				At 94.0, a thin (2mm) quartz veinlet is surrounded by increas-
				ed sericite development.
X inclusion				At 94.7 an inclusion, 4cm across of sericite and quartz
				(dark green) surrounded a halo of very dark green sericitised
				mica.
				Below 94.8, the alteration changes slightly with a "blotchy"
				green sericite alteration occuring randomly on a small scale.
				This causes the core to appear spotted, off-white and green.
				Fluorite is a common accessory phase, especially on the few
				fractures that occur. Rare hematitic veinlets also occur.
				This style of alteration ends at 108.1 and is replaced by
				a similar but less intense style. The granite is off-white
				overall, with zones (20-30cm long) of very pale green pervasive
				sericite-quartz.
				At 116.9, the altered micas return, although they are not
				as abundant as normal.
				Between 121.9 and 122.7, a network of brown hematitic veinlets
				is developed, together with increased green sericite.
				124.0-144.5 UNALTERED AND WEAKLY SERICITISED ALKALI GRANITE.
124.0	132.2	8.2	100	Unaltered alkali granite, pale grey, equigranular and medium
				grained. Colourless quartz and white feldspar together with
				brown biotite and rare muscovite are the main phases present.
				Fractures with green sericite infillings also occur but are
				rare.
132.2	144.5	12.3	100	Green-grey sericitised (weakly) alkali granite. Pale orange
				feldspars and dark and light green sericitised feldspars and
				micas occur. Overall very weakly altered, becoming weaker
				with depth. Unfractured except for a few narrow sericitised
				crush zones.
				At 140.2, a 1.0m zone of crush clayey sericitised granite
				is overlain and underlain by a series of hematitic-limonitic
				veinlets.
				144.5 END OF HOLE

ASSAY DATA (Wt %)

Sample No.	From	To	Rec. %	Sn
4427	91.0	92.0	100	0.01
4428	92.0	93.0	100	0.01
4429	93.0	94.0	100	<0.01
4430	94.0	95.0	100	<0.01
4431	95.0	96.0	100	<0.01
4432	96.0	97.0	100	<0.01
4433	97.0	98.0	100	<0.01
4434	98.0	99.0	100	<0.01
4435	99.0	100.0	100	<0.01
4436	100.0	101.0	100	<0.01
4437	101.0	102.0	100	<0.01
4438	102.0	103.0	100	<0.01
4439	103.0	104.0	100	<0.01
4440	104.0	105.0	100	<0.01
4441	105.0	106.0	100	<0.01
4442	106.0	107.0	100	<0.01
4443	107.0	108.0	100	<0.01
4444	108.0	109.0	100	<0 01
4445	109.0	110.0	100	<0.01
4446	110.0	111.0	100	<0.01
4447	111.0	112.0	100	<0.01
4448	112.0	113.0	100	<0.01
4449	113.0	114.0	100	<0.01
4450	114.0	115.0	100	<0.01
4451	115.0	116.0	100	<0.01
4452	116.0	117.0	100	<0.01
4453	117.0	118.0	100	<0.01
4454	118.0	119.0	100	<0.01
4455	119.0	120.0	100	<0.01
4456	120.0	121.0	100	<0.01
4457	121.0	122.0	100	<0.01
4458	122.0	123.0	100	<0.01
4459	123.0	124.0	100	0.01

657215

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED
DRILL CORE RECORD

CORE KEPT IN BURNIE

HOLE NO. :	B.T. 168
STATE :	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	21-7-83
COMPLETED	26-7-83

PURPOSE

To test for extensions of the mineralisation in the Moon Mine Area.

LOG SUMMARY / GENERAL COMMENTS

A 48.2m intersection of Alkali Granite was encountered at 62.8. This granite is not strongly altered, and is enclosed by Poimena Adamellite above and below. Significant assays are given below.

ASSAY SUMMARY

INTERVAL From	INTERVAL To	Sn (Wt%)												COMMENTS
61.8	110.8	<0.01												

LOCATION

NORTHING	5439024
EASTING	584361
R.L.	729.5
GRID	A.M.G.
LENGTH	126.0

HOLE CONDITION

SIZE	
Hole Size	Depth
TRICONE	0.0-17.0
BQ	17.0-126.0

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

Hole has been left open, with a black plastic marker.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total	SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0.0	332	60.0	0.0	18.1	18.1	15.7	713.8	9.1	9.1										
36.2	333	61.0	18.1	57.2	39.1	34.2	679.6	19.0	28.1										
78.2	333	59.0	57.2	99.2	42.0	36.0	643.6	21.6	49.7										
120.2	333	59.0	99.2	126.0	26.8	23.0	620.6	13.8	63.5										

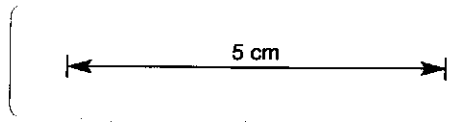
65421 6

HOLE NO. **BT 168**

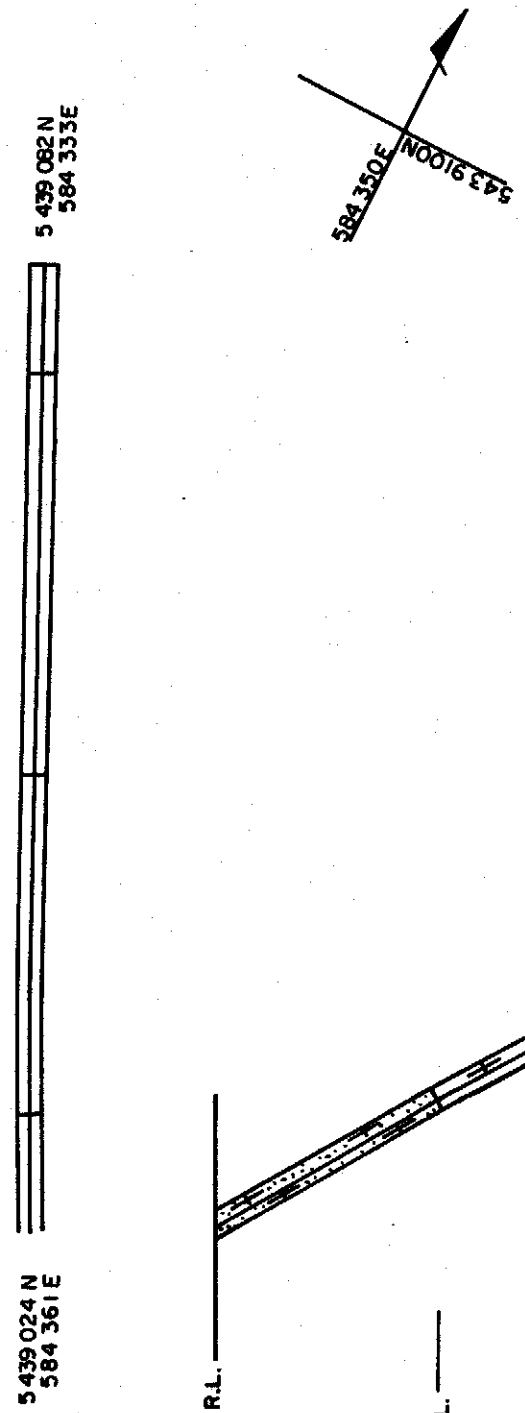
GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

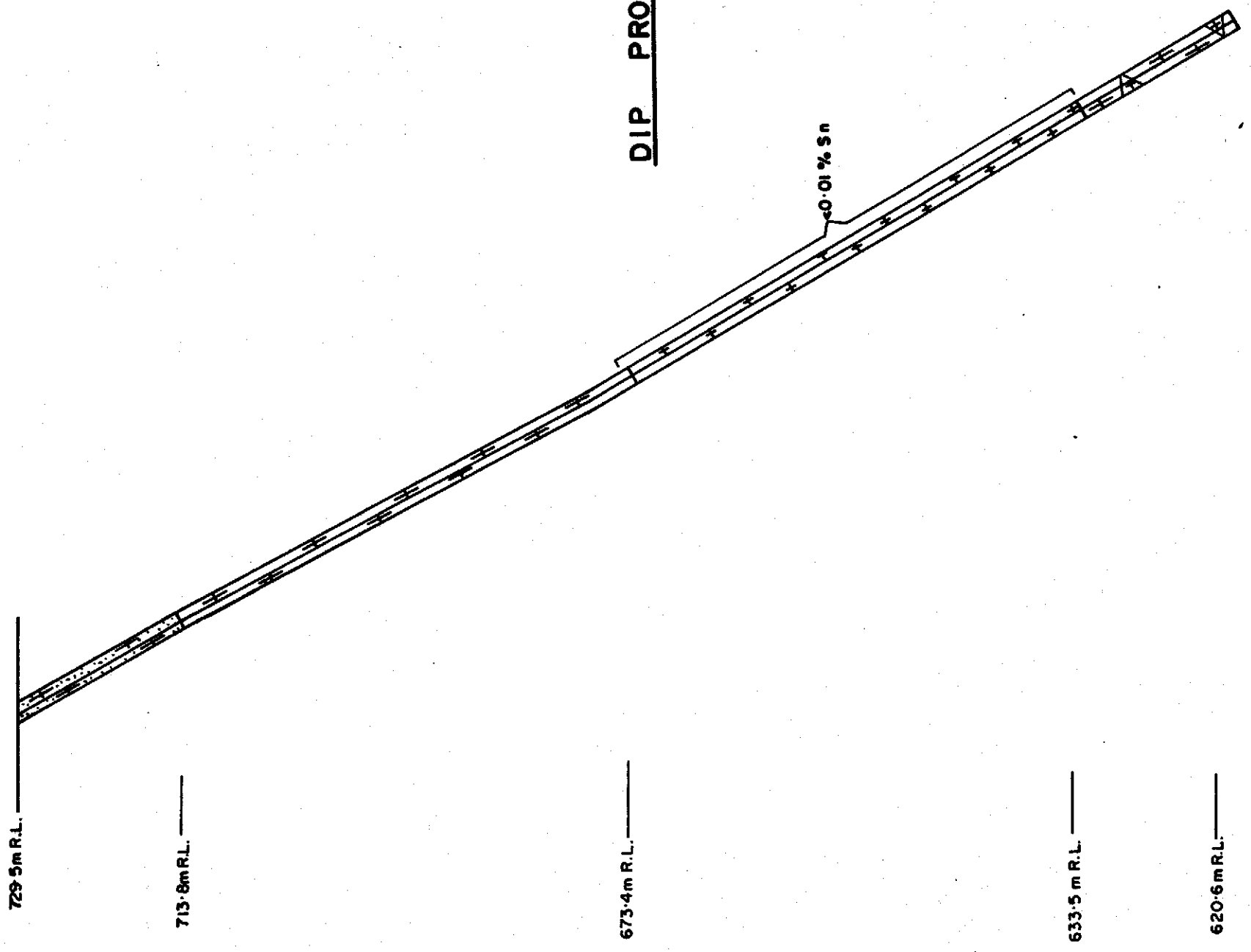
SCALE 1:



PLAN



DIP PROFILE



657217

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 168

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0.0	62.8	62.8		MODERATELY AND OCCASIONALLY STRONGLY ALTERED POIMENA ADAMELLITE. MEDIUM GRAINED AND MODERATELY PORPHYRITIC.				
62.8				CONTACT				
62.8	111.0	48.2		WEAKLY SERICITISED ALKALI GRANITE WITH PATCHES OF GREISEN WEAKLY DEVELOPED. ALSO LARGE SECTIONS OF UNALTERED ALKALI GRANITE.				
111.0				CONTACT				
111.0	126.0	15.0		UNALTERED, MEDIUM-COARSE GRAINED, PORPHYRITIC POIMENA ADAMELLITE WITH MINOR ALKALI GRANITE INTRUSIONS SURROUNDED BY THIN PEGMATITES.				
				DETAILED LOG				
				0.0-62.8 MEDIUM GRAINED, PORPHYRITIC POIMENA ADAMELLITE. MODERATELY ALTERED.				
0.0	17.0			Tricone, no recovery.				
17.0	53.9	36.9	100	Medium grained, porphyritic pinkish-grey granite. Very weakly altered and fractured. Large pink feldspar phenocrysts up to 2.5cm across, occur. Seritisation is rare, being restricted to a few narrow (approx. 10cm) crush zones. Several thin pegmatites also occur. Pink colouration is absent in places, producing a grey granite. At 18.8, a 5cm thick pegmatite of quartz and feldspar is underlain by 20cm of pale green weakly greisened alkali granite. At 39.5, a section of very coarse grained grey granite. Quartz and feldspar crystals are all approx. 1.5cm across.				

65721S

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T 168 Page: 2.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %	Sn
				This continues for 1.3m, then gradually decreases in grain					
				size over the next 1.5m.					
53.9	57.3	3.4	100	Moderately to strongly altered pale green granite. Medium					
				grained and weakly porphyritic. All feldspars are replaced					
				by pale green sericite and all biotites are sericitised. The					
				rock is very fractured, soft and crumbly with several 20cm					
				thick crushed zones.					
57.3	62.8	5.5	100	Greenish grey, medium grained porphyritic granite. Weakly					
				altered with sericite commonly developed and minor crush					
				and fractured zones occuring. Also zones up to 60cm long,					
				of increased alteration and sericitisation (pale green as					
				above) occur, including one over the last 80cm of this unit.	4541	61.8	62.8	100	<0.01
					4542	62.8	63.8	100	0.02
				62.8 CONTACT	4543	63.8	64.8	100	0.01
					4544	64.8	65.8	100	0.01
				62.8-111.0 WEAKLY AND MODERATELY ALTERED ALKALI GRANITE.	4545	65.8	66.8	100	0.01
					4546	66.8	67.8	100	0.01
62.8	66.0	3.2	100	Green alkali granite. Weakly and moderately greisened, with	4547	67.8	68.8	100	0.01
				some unaltered sections. Alteration varies overall, with darker	4548	68.8	69.8	100	0.01
				and lighter green zones. Micas are replaced but their	4549	69.8	70.8	100	<0.01
				pseudomorphs are still visible. Unfractured.	4550	70.8	71.8	100	<0.01
					4551	71.8	72.8	100	<0.01
66.0	82.7	16.7	100	Very weakly altered alkali granite. Pale brown with sericite	4552	72.8	73.8	100	0.01
				only weakly developed in a few micas, and restricted to fracture	4553	73.8	74.8	100	0.01
				coatings. Moderately to highly fractured-blocky. A pale orange	4554	74.8	75.8	100	0.01
				stain is also developed in the feldspars, probably due to	4555	75.8	76.8	100	<0.01
				hematite.	4556	76.8	77.8	100	<0.01
					4557	77.8	78.8	100	<0.01
82.7	104.3	21.6	100	Weakly altered alkali granite as above, but several zones	4558	78.8	79.8	100	<0.01
				(approx. 1.0m thick) of increased alteration occur. These	4559	79.8	80.8	100	<0.01
				are characterised by a weakly developed pervasive sericitisation.	4560	80.8	81.8	100	0.01
				Biotites and muscovites are still largely unaltered. Weakly	4561	81.8	82.8	100	0.01
				fractured with hematitic (orange-red) zones also developed.	4562	82.8	83.8	100	<0.01

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GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 168

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				The granite also appears to be slightly sericitised.
104.3	111.0	6.7	100	Pale green alkali granite. Weakly greisened and unfractured. All
				the micas are pseudomorphed by pale and dark green sericite.
				The lower contact of this unit is marked by a 3cm coarse grained
				quartz pegmatite at 50° CA.
				111.0 CONTACT
				111.0-126.0 MEDIUM-COARSE GRAINED, UNALTERED POIMENA ADAMELLITE
				WITH NUMEROUS, THIN PEGMATITE AND ALKALI GRANITE PHASES.
111.0	126.0	15.0	100	Pink-grey medium-coarse grained granite, with large (2cm)
				pink feldspar phenocrysts. Some zones of sericitisation, other-
				wise unaltered. Unfractured. This granite phase is disrupted
				by many weakly greisened, pale green alkali granites, varying
				in thickness from 5cm to 30cm. Narrow pegmatites or coarse
				grained variations surround these alkali granites.
				END OF HOLE 126.0m.

ASSAY DATA

Sample No.	From	To	Rec. %	Sn
4563	83.8	84.8	100	<0.01
4564	84.8	85.8	100	<0.01
4565	85.8	86.8	100	<0.01
4566	86.8	87.8	100	<0.01
4567	87.8	88.8	100	<0.01
4568	88.8	89.8	100	<0.01
4569	89.8	90.8	100	<0.01
4570	90.8	91.8	100	<0.01
4571	91.8	92.8	100	<0.01
4572	92.8	93.8	100	0.01
4573	93.8	94.8	100	<0.01
4574	94.8	95.8	100	<0.01
4575	95.8	96.8	100	<0.01
4576	96.8	97.8	100	<0.01
4577	97.8	98.8	100	<0.01
4578	98.8	99.8	100	<0.01
4579	99.8	100.8	100	<0.01
4580	100.8	101.8	100	<0.01
4581	101.8	102.8	100	<0.01
4582	102.8	103.8	100	<0.01
4583	103.8	104.8	100	<0.01
4584	104.8	105.8	100	<0.01
4585	105.8	106.8	100	<0.01
4586	106.8	107.8	100	<0.01
4587	107.8	108.8	100	<0.01
4588	108.8	109.8	100	<0.01
4589	109.8	110.8	100	<0.01

657220

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

CORE KEPT IN BURNIE

HOLE NO.	B.T. 169
STATE	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	A.J.CARTWRIGHT
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	27-7-83
COMPLETED	2-8-83

PURPOSE

To test for extensions of the mineralisation in the Moon Mine Area.

LOG SUMMARY / GENERAL COMMENTS

Approximately 80 metres of strongly altered, greisened alkali granite was encountered between two Poimena Adamellite phases. Numerous xenoliths and intrusions of each occur. Significant assays are given below.

ASSAY SUMMARY

INTERVAL From	INTERVAL To	Sn	wt%											COMMENTS
29.0	110.8	<0.01												

LOCATION

NORTHING	5439129
EASTING	584388
R.L.	734.6
GRID	A.M.G.
LENGTH	146.5

HOLE CONDITION

SIZE	
Hole Size	Depth
TRICONE	0.0-12.0
BQ	12.0-146.5

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

Hole left open, with a black polythene marker.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0.0		90.0	0.0	35.4	35.4	35.4	699.2	0.0	0.0
70.7		89.5	35.4	106.7	71.3	71.3	627.9	0.6	0.6
142.7		90.0	106.6	146.5	39.8	39.8	588.1	0.0	0.6

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total

657221

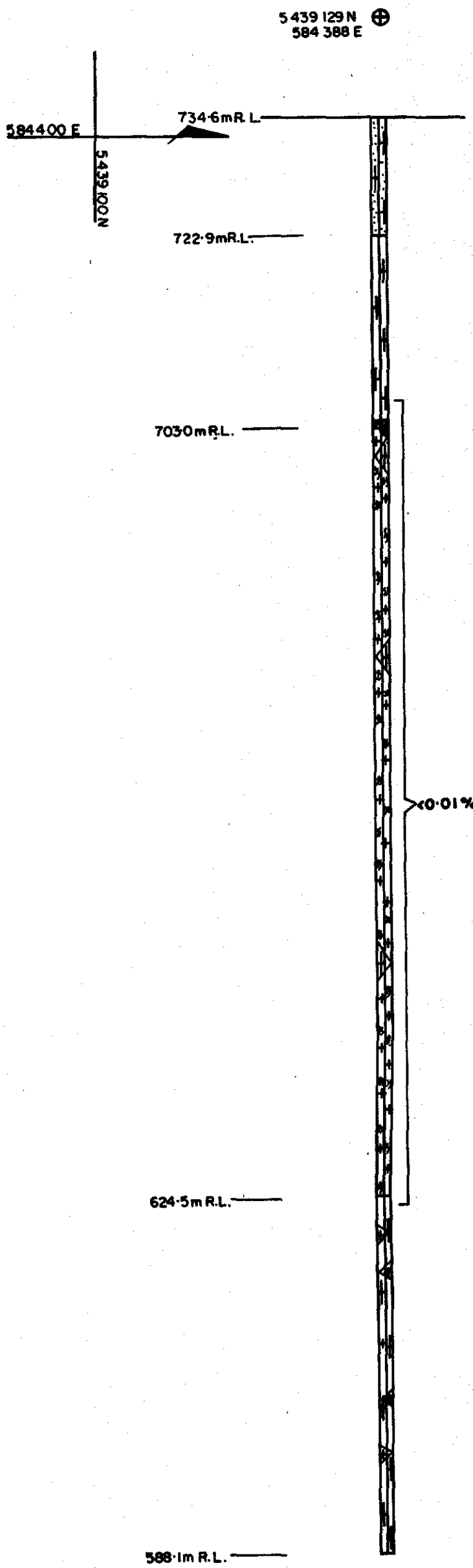
HOLE NO. BT 169

GOLD FIELDS EXPLORATION PTY. LIMITED

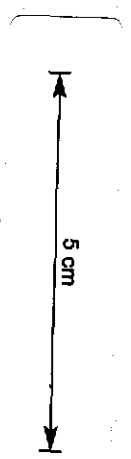
DIAMOND DRILL HOLE PLOT

SCALE 1:

PLAN



DIP PROFILE



657222

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 169

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0.0	31.6	31.6		UNALTERED, MEDIUM GRAINED, PORPHYRITIC POIMENA ADAMELLLITE WITH A WELL DEVELOPED BASAL PEGMATITE/APLITE COMPLEX.				
31.6				CONTACT				
31.6	110.3	78.7		STRONGLY ALTERED ALKALI GRANITE, GREISENED AND SERICITISED. NUMEROUS POIMENA ADAMELLITE XENOLITHS OCCUR.				
110.3				CONTACT				
110.3	146.5	36.2		WEAKLY ALTERED, MEDIUM GRAINED, PORPHYRITIC POIMENA ADAMELLITE CONTAINING MINOR ALKALI GRANITE INTRUSIONS.				
				DETAILED LOG				
				0.0-31.6 UNALTERED, MEDIUM GRAINED,PORPHYRITIC POIMENA ADAMELLITE WITH A PEGMATITIC ZONE DEVELOPED AT THE BASAL CONTACT.				
0.0	12.0			Tricone, no core recovered.				
12.0	29.0	17.0	100	Grey, medium grained porphyritic granite, consisting of large pinkish feldspar phenocrysts, smaller pale green feldspar and colourless quartz phenocrysts and numerous black biotites. Unfractured and unaltered with a few incipiently weathered zones. Also a few crushed-sericitised zones occur (30-40cm thick).				
				At 28.1, a 0.5m zone of pale red hematitic, highly altered silicified granite. Vuggy in places with all the micas replaced. This is underlain by 0.4m of highly altered granite with green sericitised feldspar.				

65722

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 169

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %	Sn wt%
29.0	31.6	2.6	100	Pegmatite and medium grained porphyritic granite. The first	4596	29.0	30.0	100	<0.01
				0.8m of this unit is a grey coarse grained pegmatite with	4597	30.6	31.6	100	<0.01
				minor aplitic phases. The feldspars are pale pink and pale	4598	31.6	32.6	100	0.01
				green, sericite is common. Accessory purple fluorite also	4599	32.6	33.6	100	0.01
				occurs.	4600	34.8	35.8	100	<0.01
				This is underlain by 1.3m of moderately weathered, limonitised	4601	35.8	36.8	100	<0.01
				medium grained granite. Alteration is strong with numerous	4602	36.8	37.8	100	<0.01
				quartz veinlets and crush zones.	4603	37.8	38.8	100	<0.01
				Beneath this is a 0.5m thick pale green quartz pegmatite.	4604	38.8	39.8	100	<0.01
					4605	39.8	40.8	100	<0.01
				31.6 CONTACT	4606	40.8	41.8	100	<0.01
					4607	41.8	42.8	100	<0.01
				31.6-110.3 VARIABLY BUT STRONGLY ALTERED AND GREISENED ALKALI	4608	42.8	43.8	100	<0.01
				GRANITE WITH NUMEROUS POIMENA XENOLITHS.	4609	43.8	44.8	100	<0.01
					4610	44.8	45.8	100	0.02
31.6	33.2	1.6	100	Pale green, equigranular, medium grained alkali granite. Banded	4611	45.8	46.8	100	<0.01
				with numerous pegmatites and several thick Poimena inclusions,	4612	46.8	47.8	100	<0.01
				it is weakly greisened.	4613	47.8	48.8	100	0.01
					4614	48.8	49.8	100	0.01
33.2	34.8	2.6	100	A large Poimena inclusion. The granite is strongly altered	4615	49.8	50.8	100	0.01
				and moderately fractured-softish. Large pink feldspar phenoc-	4616	50.8	51.8	100	0.02
				rysts and smaller green (sericitised) ones occur. Quartz vein-	4617	51.8	52.8	100	<0.01
				lets are common.	4618	52.8	53.8	100	0.01
34.8	45.5	10.7	100	Moderately greisened, in some places stronger than others,					
				alkali granite. Its colour is a variety of greens with some					
				narrow, very dark patches. Moderately fractured with a blockiness					
				developed occasionally. The micas are pseudomorphed and secondary					
				micas are found along with accessory fluorite on joint surfaces.					
				Quartz-sericite veinlets, pegmatites and coarse grained variants					
				are all common features.					
				At 42.8, a 2-3m thick Poimena inclusion. Pink-green and					
				highly altered with numerous brown sericite veinlets.					
45.5	53.3	7.8	100	Topazised? alkali granite. Very pale green, equigranular with					

65424

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 169

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %	Sn wt%
				no trace of micas. A sugary texture. Weakly fractured with					
				limonitic coatings. Similar grainsize variant to above also					
				occur.					
53.3	57.8	4.5	100	A Poimena inclusion. An abrupt upper contact with a coarse-					
				medium grained very pink-green strongly altered granite. Unfract-					
				ured and not veined. The lower contact is angular at 40° CA.					
57.8	85.0	27.2	100	Weakly greisened alkali granite. Patchy altered, with dark	4619	57.8	58.8	100	0.01
				and light green zones. Micas are partially replaced. The top	4620	58.8	59.8	100	<0.01
				0.5m is silicified (in contact with above). Fractures are	4621	59.8	60.8	100	<0.01
				rare, some are covered in bright purple fluorite.	4622	60.8	61.8	100	0.02
				At 74.4 a bleached silicified portion of granite for 0.4m	4623	61.8	62.8	100	0.01
				then at 75.7 a 0.4m section of dark green-sericite-very	4624	62.8	63.8	100	0.01
				fine grained.	4625	63.8	64.8	100	0.01
				Below 76.0, the alteration becomes highly variable on a	4626	64.8	65.8	100	0.01
				0.5m scale, with zones of:- topazised? granite very dark	4627	65.8	66.8	100	0.01
				green sericitised granite and pervasively silicified/	4628	66.8	67.8	100	0.01
				sericitised granite.	4629	67.8	68.8	100	0.01
					4630	68.8	69.8	100	0.01
85.0	87.1	2.1	100	Poimena inclusion. Strongly altered, weakly fractured with	4631	69.8	70.8	100	0.01
				several thin (5cm) pegmatites. Colours include-pink, green	4632	70.8	71.8	100	<0.01
				and dark grey. Also minor intrusions of alkali granite occur.	4633	71.8	72.8	100	0.01
					4634	72.8	73.8	100	<0.01
87.1	110.3	23.2	100	Alkali granite. The top 0.6m is topazised? pale green with	4635	73.8	74.8	100	0.01
				no mica pseudomorphs. This is underlain by weakly greisened,	4636	74.8	75.8	100	0.01
				possibly slightly topazised granite. This unit is unusual	4637	75.8	76.8	100	<0.01
				because all the minerals, quartz, feldspars and micas are	4638	76.8	77.8	100	0.01
				elongated in a direction 45° CA. Weakly fractured with abundant	4639	77.8	78.8	100	0.01
				green sericite and purple fluorite coatings.	4640	78.8	79.8	100	0.01
				At 104.1 a 30cm crumbly crush zone of white clays.	4641	79.8	80.8	100	0.01
				At 108.4 a 20cm Poimena xenolith-pink green, highly altered	4642	80.8	81.8	100	0.01
				and surrounded by an alteration halo (narrow) within the	4643	81.8	82.8	100	0.01
				alkali granite.	4644	82.8	83.8	100	<0.01
					4645	83.8	84.8	100	<0.01

65122

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 169

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				110.3 CONTACT
				110.3-146.5 WEAKLY ALTERED, MEDIUM GRAINED, PORPHYRITIC POIMENA
				ADAMELLITE WITH MINOR ALKALI GRANITE INTRUSIONS.
110.3	146.5	36.2	100	Medium grained, porphyritic pink-grey granite. Weakly altered
				with minor sericite developed. Pink pegmatites and aplites
				are common (a 0.8m thick one at 115.0). Weakly fractured.
				Pink feldspar phenocrysts up to 2cm across occur. The top
				3.0m also contains several thin alkali granite intrusions.
				These become ever thicker (approx. 0.5m) and more frequent
				with depth, as do the pegmatites (usually associated with
				the alkali granites).
				Between 127.2 and 131.0, approximately 50% of the core is
				alkali granite. Relatively fresh with altered zones occuring
				on the contacts.
				END OF HOLE 146.5m.

ASSAY DATA

Sample No.	From	To	Rec. %	Sn	wt%
4646	84.8	85.8	100	<0.01	
4647	85.8	86.8	100	<0.01	
4648	86.8	87.8	100	0.01	
4649	87.8	88.8	100	0.01	
4650	88.8	89.8	100	0.01	
4651	89.8	90.8	100	0.01	
4652	90.8	91.8	100	0.01	
4653	91.8	92.8	100	0.01	
4654	92.8	93.8	100	0.01	
4655	93.8	94.8	100	<0.01	
4656	94.8	95.8	100	0.01	
4657	95.8	96.8	100	0.01	
4658	96.8	97.8	100	<0.01	
4659	97.8	98.8	100	<0.01	
4660	98.8	99.8	100	<0.01	
4661	99.8	100.8	100	0.01	
4662	100.8	101.8	100	<0.01	
4663	101.8	102.8	100	0.01	
4664	102.8	103.8	100	<0.01	
4665	103.8	104.8	100	<0.01	
4666	104.8	105.8	100	<0.01	
4667	105.8	106.8	100	<0.01	
4668	1060.8	107.8	100	<0.01	
4669	107.8	108.8	100	<0.01	
4670	108.8	109.8	100	0.01	
4671	109.8	110.8	100	0.01	

657226

ULV. PRESS

CORE KEPT IN BURNIE

HOLE NO. :	B.T. 170
STATE :	TASMANIA

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

PROJECT	BLUE TIER
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	3/8/83
COMPLETED	5/8/83

PURPOSE

To test for extensions of the mineralisation in the Moon Mine Area.

LOG SUMMARY / GENERAL COMMENTS

At 30.0m, a weakly altered/mildly greisened sequence of Alkali Granite was intersected. Significant assays are recorded below.

ASSAY SUMMARY

INTERVAL From	INTERVAL To	Sn	wt%											COMMENTS
30.0	106.0	<0.01												

LOCATION

NORTHING	5439248
EASTING	584321
R.L.	723.8
GRID	A.M.G.
LENGTH	106.5

HOLE CONDITION

SIZE	
Hole Size	Depth
TRICONE	0.0-14.0
BQ	14.0-106.5

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

Hole left open with a black polythene marker.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total	SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0.0		90.0	0.0	24.6	24.6	24.6	699.2	0.0	0.0										
49.2		89.0	24.6	76.2	51.6	51.5	647.7	0.9	0.9										
103.2		90.0	76.2	106.5	30.3	30.3	617.4	0.0	0.9										

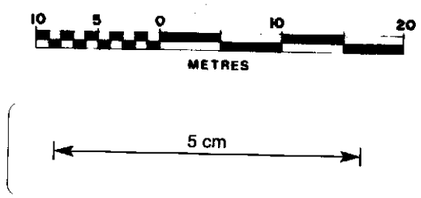
172169

HOLE NO. **BT 170**

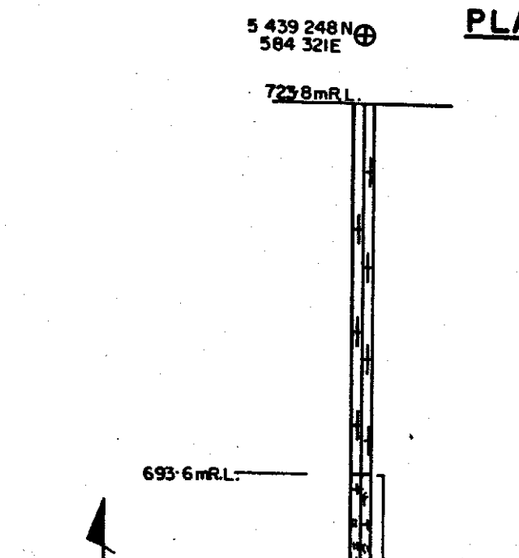
GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:



PLAN



DIP PROFILE

657228

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 170

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				SUMMARISED LOG
0.0	30.0	30.0		UNALTERED, MEDIUM GRAINED, PORPHYRITIC POIMENA ADAMELLITE.
30.0				CONTACT.
30.0	106.5	76.5		INCIPIENTLY AND WEAKLY ALTERED, MEDIUM GRAINED, EQUIGRANULAR ALKALI GRANITE.
				DETAILED LOG
				0.0-30.0 UNALTERED, MEDIUM GRAINED POIMENA ADAMELLITE.
0.0	30.0	16.0	100	Medium grained, porphyritic grey granite. Unaltered with pink (hematitic) feldspar phenocrysts up to 2cm across (rarely 3.5cm). Weakly fractured. The granite is mildly weathered with limonite stained fractures down to 26.0m. At 26.81 a 10cm thick very coarse grained vuggy quartz pegmatite overlies 10cm of mildly greisened alkali granite. Below 29.4, 0.3m of pale yellow strongly sericitised, soft granite occurs and this is in contact with 0.3 of silicified but weakly altered granite. Another abrupt contact occurs with the unit below.
				30.0 CONTACT
				30.0-106.5 WEAKLY ALTERED ALKALI GRANITE.
30.0	58.5	28.5	100	Pale green weakly greisened and sericitised alkali granite. A variety of alteration styles occur with green sericitised micas and feldspars showing a range of intensities of replacement. Yellow-brown sericite is also common. Mica pseudomorphs are always present. Unfractured. At 47.8, a thin 2mm discontinuous veinlet of dark mica is enveloped by 30cm of bleached silicified altered granite. At 54.9, 1.0m of highly silicified colourless granite with

ASSAY DATA

Sample No.	From	To	Rec. %	Sn wt%
4725	30.0	31.0	100	<0.01
4726	31.0	32.0	100	<0.01
4727	32.0	33.0	100	<0.01
4728	33.0	34.0	100	<0.01
4729	34.0	35.0	100	<0.01
4730	35.0	36.0	100	<0.01
4731	36.0	37.0	100	<0.01
4732	37.0	38.0	100	<0.01
4733	38.0	39.0	100	<0.01
4734	39.0	40.0	100	<0.01
4735	40.0	41.0	100	<0.01
4736	41.0	42.0	100	<0.01
4737	42.0	43.0	100	<0.01
4738	43.0	44.0	100	<0.01
4739	44.0	45.0	100	<0.01
4740	45.0	46.0	100	<0.01
4741	46.0	47.0	100	<0.01
4742	47.0	48.0	100	<0.01
4743	48.0	49.0	100	<0.01
4744	49.0	50.0	100	<0.01
4745	50.0	51.0	100	<0.01
4746	51.0	52.0	100	<0.01
4747	52.0	53.0	100	<0.01
4748	53.0	54.0	100	<0.01
4749	54.0	55.0	100	<0.01
4750	55.0	56.0	100	<0.01
4801	56.0	57.0	100	<0.01
4802	57.0	58.0	100	<0.01
4803	58.0	59.0	100	<0.01
4804	59.0	60.0	100	<0.01
4805	60.0	61.0	100	<0.01
4806	61.0	62.0	100	<0.01
4807	62.0	63.0	100	<0.01
4808	63.0	64.0	100	<0.01
4809	64.0	65.0	100	<0.01

657229

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 170

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				brown micas occurs.
58.5	106.5	48.0	100	Incipiently altered alkali granite. Pale yellow-white in colour with pseudomorphed (by sericite) micas sparsely scattered randomly throughout. A sugary granitic texture of white and colourless quartz feldspar is developed. Medium grained and unfractured.
				At 61.5, 1.0m of highly silicified colourless granite with brown micas occurs.
				END OF HOLE 106.5m.

ASSAY DATA

Sample No.	From	To	Rec. %	Sn wt%
4810	65.0	66.0	100	<0.01
4811	66.0	67.0	100	<0.01
4812	67.0	68.0	100	<0.01
4813	68.0	69.0	100	<0.01
4814	69.0	70.0	100	<0.01
4815	70.0	71.0	100	<0.01
4816	71.0	72.0	100	<0.01
4817	72.0	73.0	100	<0.01
4818	73.0	74.0	100	<0.01
4819	74.0	75.0	100	<0.01
4820	75.0	76.0	100	<0.01
4821	76.0	77.0	100	<0.01
4822	77.0	78.0	100	<0.01
4823	78.0	79.0	100	<0.01
4824	79.0	80.0	100	<0.01
4825	80.0	81.0	100	<0.01
4826	81.0	82.0	100	<0.01
4827	82.0	83.0	100	<0.01
4828	83.0	84.0	100	<0.01
4829	84.0	85.0	100	<0.01
4830	85.0	86.0	100	<0.01
4831	86.0	87.0	100	<0.01
4832	87.0	88.0	100	<0.01
4833	88.0	89.0	100	<0.01
4834	89.0	90.0	100	<0.01
4835	90.0	91.0	100	<0.01
4836	91.0	92.0	100	<0.01
4837	92.0	93.0	100	<0.01
4838	93.0	94.0	100	<0.01
4839	94.0	95.0	100	<0.01
4840	95.0	96.0	100	<0.01
4841	96.0	97.0	100	<0.01
4842	97.0	98.0	100	<0.01
4843	98.0	99.0	100	<0.01
4844	99.0	100.0	100	<0.01

657230

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 170

Page: 3.

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA														
From	To	m	%		Sample No.	From	To	Rec. %	Sn	wt%									
					4845	100.0	101.0	100	<0.01										
					4846	101.0	102.0	100	<0.01										
					4847	102.0	103.0	100	<0.01										
					4848	103.0	104.0	100	<0.01										
					4849	104.0	105.0	100	<0.01										
					4850	105.0	106.0	100	<0.01										

65/7931

ULV. PRESS

CORE IN BURNIE

HOLE NO.	BT 171
STATE	TASMANIA

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

PROJECT	BLUE TIER
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	8-8-83
COMPLETED	11-8-83

PURPOSE

To find concealed stanniferous greisen in the North Anchor Area.

LOG SUMMARY / GENERAL COMMENTS

103.7m of Dg-fp containing veinlets of Cu-bearing minerals was found overlying mildly greisened Alkali Granite. Significant assays for both rock types are given below.

ASSAY SUMMARY

INTERVAL From	INTERVAL To	Sn	Cu	(Wt%)	Mo	Ag	(ppm)							COMMENTS
8.0	57.0	<0.01	0.12		<0.01	6								
103.7	140.0	<0.01												

LOCATION

NORTHING	5436214
EASTING	585107
R.L.	464.8
GRID	A.M.G.
LENGTH	140.0

HOLE CONDITION

SIZE

Hole Size	Depth
TRICONE	0.0-8.0
BQ	8.0-140.0

SIGNIFICANT CORE LOSS INTERVALS

From	To	% Lost

POOR GROUND CONDITION ZONES

From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

Hole left open with a black polythene marker.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0.0	330	79.0	0.0	19.6	19.6	19.2	445.6	3.7	3.7
39.2	330	79.0	19.6	63.2	43.6	42.8	402.8	8.3	12.0
87.2	332	79.5	63.2	111.2	48.0	47.2	355.6	8.8	20.8
135.2	332	79.0	111.2	140.0	28.8	28.3	327.3	5.5	26.3

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total

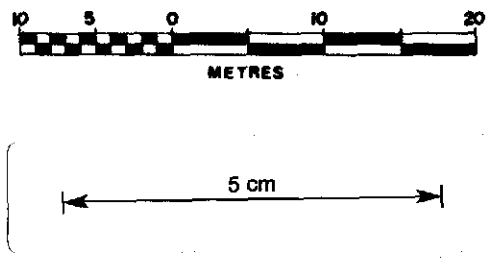
65232

HOLE NO. **BT 171**

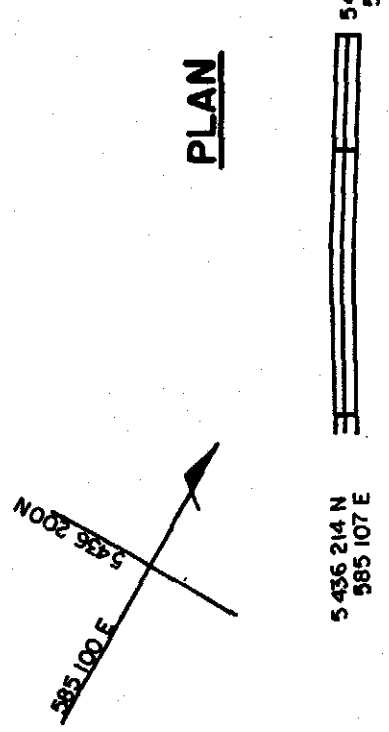
GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

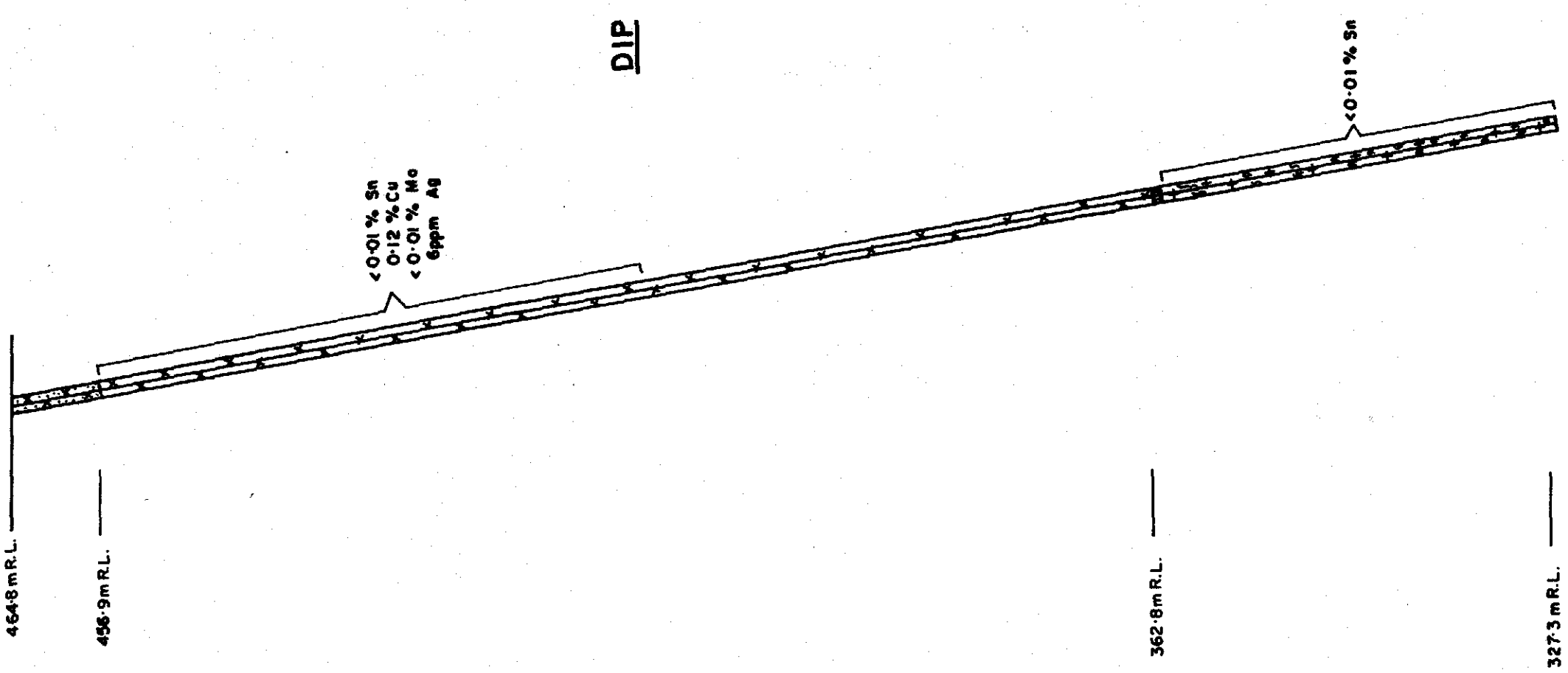
SCALE 1:



PLAN



DIP PROFILE



63723

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 171

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				SUMMARISED LOG
0.0	103.7	100.7		FINE GRAINED, NON-PORPHYRITIC DG-FP, VARIABLY BUT USUALLY WEAKLY ALTERED WITH NUMEROUS VERTICAL VEINLETS OF QUARTZ, SERICITE, BORNITE AND CHALCOPYRITE.
103.7				CONTACT
103.7	140.0	36.3		MEDIUM GRAINED,EQUIGRANULAR ALKALI GRANITE. OVERALL MILDLY ALTERED WITH SOME STRONGLY GREISENED PATCHES DEVELOPED. THE UPPER CONTACT IS MARKED BY AN ALTERED ZONE OF MIXED LITHOLOGIES; ALKALI GRANITE, PEGMATITE AND APLITE.
				DETAILED LOG
				0.0-103.7 FINE GRAINED, WEAKLY ALTERED DG-FP ADAMELLITE WITH NUMEROUS QUARTZ AND QUARTZ-SULPHIDE VEINS.
0.0	8.0			Tricone - no core recovered.
8.0	15.0	7.0	100	Pink-grey, fine grained, very weakly porphyritic granite. Moderately altered (yellow sericitised feldspars are common) and weathered (abundant limonite staining). Highly fractured. Typical granitic texture with a few feldspar phenocrysts up to 1m across. Minor quartz veining. At 13.5, a 0.5m long, 2mm wide, quartz-mica-bornite-veinlet at 0° CA.
15.0	103.7	85.7	97	Unweathered, grey, fine-grained, almost non-porphyritic granite. Very weakly altered with occasional pink-yellow stronger altered patches. These usually enclose quartz-chalcopyrite-bornite veins which are abundant. Sericite filled fractures are quite common. Hematite (red) and malachite(?) (green) also occur as fracture coatings. Thin aplite/pegmatites (<5cm thick) of pink feldspar
(27.2-30.2, 2.0m recovered)				

ASSAY DATA

Sample No.	From	To	Rec. %	Sn	Cu	(wt%)	Ag	Mo	(ppm)
4791	8.0	9.0	100	<0.01	0.01		1	<1	
4792	9.0	10.0	100	<0.01	0.03		<1	<1	
4793	10.0	11.0	100	0.01	0.01		<1	<1	
4794	11.0	12.0	100	0.01	0.03		2	<.01	
4795	12.0	13.0	100	<0.01	0.02		1	<.01	
4796	13.0	14.0	100	0.01	0.08		2	<.01	
4797	14.0	15.0	100	0.01	0.08		3	<.01	
4798	15.0	16.0	100	0.01	0.01		1	<.01	
4799	16.0	17.0	100	0.01	0.08		4	<.01	
4800	17.0	18.0	100	<0.01	0.05		4	<.01	
4851	18.0	19.0	100	0.01	0.07		2	<.01	
4852	19.0	20.0	100	<0.01	0.23		14	<.01	
4853	20.0	21.0	100	0.01	0.31		10	<.01	
4854	21.0	22.0	100	0.01	0.01		2	<.01	
4855	22.0	23.0	100	0.01	0.01		<1	<.01	
4856	23.0	24.0	100	<0.01	<0.01		<1	<.01	
4857	24.0	25.0	100	0.01	0.13		4	<.01	
4858	25.0	26.0	100	0.02	0.16		6	<.01	
4859	26.0	27.0	100	0.01	0.01		1	<.01	
4860	27.0	28.0	100	0.02	0.10		5	<.01	
4861	28.0	29.0	100	0.01	0.10		4	<.01	
4862	29.0	30.0	100	<0.01	0.15		6	<.01	
4863	30.0	31.0	100	0.01	0.06		2	<.01	
4864	31.0	32.0	100	0.01	0.06		3	<.01	
4865	32.0	33.0	100	0.01	0.16		6	<.01	
4866	33.0	34.0	100	<0.01	0.03		1	<.01	
4867	34.0	35.0	100	<0.01	0.04		3	<.01	
4868	35.0	36.0	100	<0.01	0.02		1	<.01	
4869	36.0	37.0	100	<0.01	<0.01		<1	<.01	
4870	37.0	38.0	100	0.01	0.29		17	<.01	
4871	38.0	39.0	100	<0.01	<0.01		1	<.01	
4872	39.0	40.0	100	<0.01	0.05		3	.01	
4873	40.0	41.0	100	0.01	0.12		5	<.01	
4874	41.0	42.0	100	0.01	0.17		7	<.01	
4875	42.0	43.0	100	0.01	0.10		4	<.01	

651234

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 171

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				and white quartz are found below 30.0. The sulphide veins are
				all between 0°-20° CA. The granite becomes slightly coarser
				grained and slightly more porphyritic in places.
				Below 57.0, the quartz-sulphide veins are absent, and the core
				is less fractured (unfractured). Also it gradually becomes
				unaltered, apart from 0.5m thick zones of increased fracturing
				and sericite development between 80.0 and 89.0. Beneath this,
(86.0-89.0, 1.0m recovered)				the granite is unaltered again, with minor quartz veining.
				After 100.5, the quartz veining with associated alteration
				haloes increases, along with increased sericite development.
103.70				CONTACT
				103.70-140.0 MILDLY ALTERED, MEDIUM GRAINED ALKALI GRANITE.
				AN APLITIC/PEGMATITIC COMPLEX IS DEVELOPED ON THE UPPER CONTACT.
103.70	104.8	1.1	100	A mixed greisened alkali granite - coarse grained pegmatite -
				layered (80° CA) aplitic complex. Green sericitised alkali gran-
				ite with pseudomporphedmicas has horizons of 10cm thick coarse
				(3 cm) grained feldspar (pink), quartz and biotite pegmatite.
				Aplitic (very fine grained) phases of alkali granite also occur.
				Fractures are rare, with sericite-fluorite coatings.
104.8	140.0	35.2	100	Patchily but overall weakly altered alkali granite. Medium grain-
				ed and non-porphyritic, it is weakly and moderately sericitised.
				Large (several metre) zones of a dark green siliceous greisen
				occur randomly. Narrower (approx. 0.5m) zones of bleached
				granite with no micas or pseudomoprhs developed are less common.
				The core is unfractured and unveined.
				At 125.1, a 0.4m long intergrowth of green sericite and white
				quartz. Sinuous in an irregular vein-like intergrowth.
				At 135.7, another such intergrowth occurs, with purple
				fluorite developed as well.
				The last 20.0m of this unit does not contain any strong alter-
				ation zones and exhibits a uniform weakly altered state.
				END OF HOLE 140.0

ASSAY DATA

Sample No.	From	To	Rec. %	Sn	Cu	(wt%)	Ag	MO	(ppm)
4876	43.0	44.0	100	0.01	0.23		11	<.01	
4877	44.0	45.0	100	0.01	0.11		5	<.01	
4878	45.0	46.0	100	<0.01	<0.01		<1	<.01	
4879	46.0	47.0	100	<0.01	0.69		36	<.01	
4880	47.0	48.0	100	<0.01	0.25		16	<.01	
4881	48.0	49.0	100	0.01	0.28		13	<.01	
4882	49.0	50.0	100	0.01	0.24		12	<.01	
4883	50.0	51.0	100	<0.01	0.32		17	<.01	
4884	51.0	52.0	100	<0.01	0.08		13	<.01	
4885	52.0	53.0	100	<0.01	0.01		1	<.01	
4886	53.0	54.0	100	0.01	0.21		23	<.01	
4887	54.0	55.0	100	<0.01	0.19		10	<.01	
4888	55.0	56.0	100	0.01	0.18		11	<.01	
4889	56.0	57.0	100	0.01	0.21		11	<.01	
4890	103.7	105.0	100	<0.01				<	
4891	105.0	106.0	100	0.01					
4892	106.0	107.0	100	<0.01					
4893	107.0	108.0	100	<0.01					
4894	108.0	109.0	100	<0.01					
4895	109.0	110.0	100	<0.01					
4896	110.0	111.0	100	<0.01					
4897	111.0	112.0	100	<0.01					
4898	112.0	113.0	100	<0.01					
4899	113.0	114.0	100	<0.01					
4900	114.0	115.0	100	<0.01					
4901	115.0	116.0	100	<0.01					
4902	116.0	117.0	100	<0.01					
4903	117.0	118.0	100	<0.01					
4904	118.0	119.0	100	<0.01					
4905	119.0	120.0	100	<0.01					
4906	120.0	121.0	100	<0.01					
4907	121.0	122.0	100	<0.01					
4908	122.0	123.0	100	<0.01					
4909	123.0	124.0	100	0.02					
4910	124.0	125.0	100	0.03					

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 171

Page: 3.

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA				
From	To	m	%		Sample No.	From	To	Rec. %	Sn
					4911	125.0	126.0	100	0.03
					4912	126.0	127.0	100	0.07
					4913	127.0	128.0	100	0.02
					4914	128.0	129.0	100	0.01
					4915	129.0	130.0	100	0.01
					4916	130.0	131.0	100	0.01
					4917	131.0	132.0	100	<0.01
					4918	132.0	133.0	100	<0.01
					4919	133.0	134.0	100	<0.01
					4920	134.0	135.0	100	<0.01
					4921	135.0	136.0	100	<0.01
					4922	136.0	137.0	100	<0.01
					4923	137.0	138.0	100	<0.01
					4924	138.0	139.0	100	<0.01
					4925	139.0	140.0	100	<0.01

657236

ULV. PRESS

CORE IN BURNIE

HOLE NO.	BT 172
STATE	TASMANIA

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

PROJECT	BLUE TIER
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	11-8-83
COMPLETED	16-8-83

PURPOSE

To find concealed stanniferous greisen in the North Anchor Area.

LOG SUMMARY / GENERAL COMMENTS

94m of Poimena Adamellite is underlain by 6.2m of strongly altered Dg-fp containing fluorite and molybdenite. At 100.2, approximately 6m of greisened alkali granite occurs. Assays are given below.

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS
94.0	141.0													No significant tin. (i.e. <0.01%Sn)

LOCATION

NORTHING	5436189
EASTING	584942
R.L.	467.5
GRID	A.M.G.
LENGTH	141.0

HOLE CONDITION

SIZE: Hole Size	SIZE: Depth
TRICONE	0.0-7.0
BQ	7.0-141.0

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost

POOR GROUND CONDITION ZONES From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

Hole open, with a black polythene marker.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total
0.0	339	70.0.	0.0	45.1	45.1	42.4	425.1	15.4	15.4
90.2	336	70.0	45.1	114.2	69.2	65.0	360.1	23.7	39.1
138.2	339	70.5	114.2	141.0	28.8	27.2	332.9	9.1	48.2

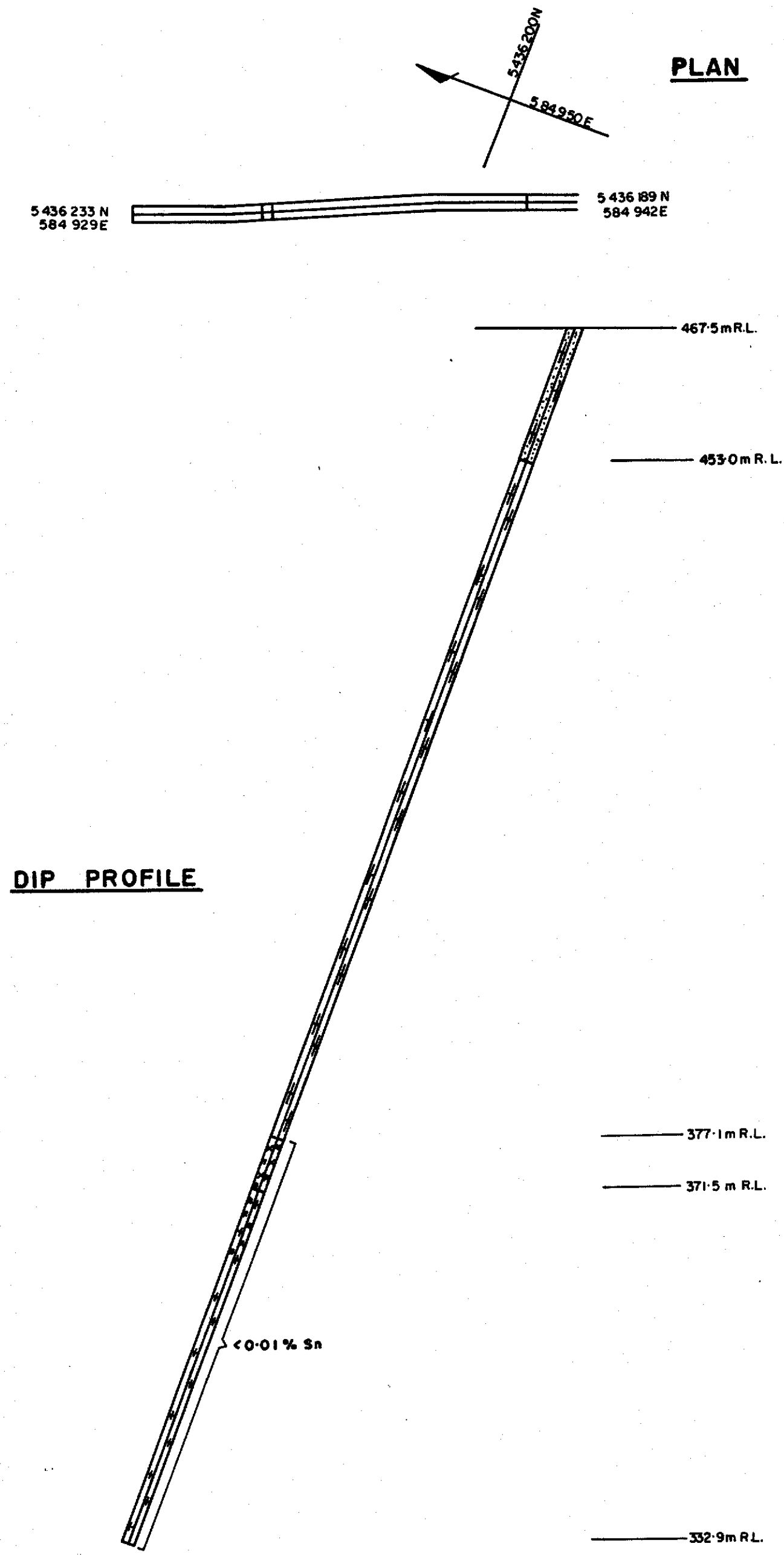
SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total

65 7237

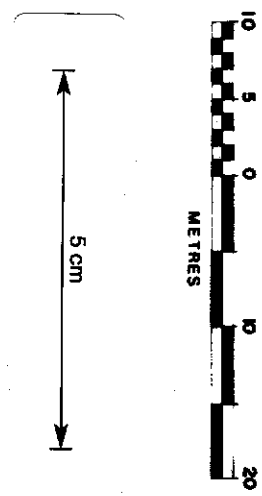
GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

HOLE NO. BT 172



SCALE 1:



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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: Blue Tier

HOLE NUMBER: B.T. 172

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				SUMMARISED LOG
0.0	94.0	94.0		VARIABLY BUT OVERALL WEAKLY ALTERED, MEDIUM GRAINED POIMENA ADAMELLITE. HEMATITIC ALTERATION INCREASES WITH DEPTH.
94.0				CONTACT
94.0	100.2	6.2		HIGHLY ALTERED DG-FP GRANITE, WITH SILICIFIED ZONES AND ABUNDANT SERICITISATION.
100.2				CONTACT.
100.2	141.0	40.8		MEDIUM GRAINED, EQUIGRANULAR ALKALI GRANITE, INITIALLY MODERATELY GREISENED, THEN ONLY WEAKLY ALTERED.
				DETAILED LOG
				0.0-94.0 INCIPIENTLY ALTERED, MEDIUM GRAINED POIMENA ADAMELLITE.
0.0	7.0			Tricone. No core recovered.
7.0	14.8	4.8	62	Moderately weathered, brown, medium grained granite. Porphyritic
(core lost between 10.0-13.0)				with large (up to 1.5cm) feldspar phenocrysts. Moderately and highly fractured with some crumbly zones. Brown limonite and white clays are common. Unaltered.
14.8	61.0	46.2	100	Unaltered, medium grey granite. Medium grained and porphyritic as above. Weakly fractured with a few crushed zones, quartz veinlets and sericite coated fractures. The crushed zones are characterised by a pink colouration in the feldspar phenocrysts (hematite) and the development of pale green sericite causing a softening of the rock. The granite around these zones is pink up to 3-4m away. At 31.1 and 31.8, two 0.2m thick, flat lying, weakly greisened alkali granite intrusions occur.

ASSAY DATA

Sample No.	From	To	Rec. %

65723B

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: Blue Tier

HOLE NUMBER: B.T. 172

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
61.0	94.0	33.0	100	A thick (2.0m) zone of strongly altered, pale pink-grey granite occurs. Pale grey sericite is common, pervasively with quartz. All trace of micas is gone. Patches of silicified (medium grey) granite are developed. Fractures are abundant with clay coatings. Below this altered zone, the medium grained, porphyritic granite is pink with no grey granite patches. Fractured and crushed zones are still common. Weakly altered overall, apart from a few minor sericitised zones (thin, 20-30cm) similar to the one described above. In places the granite is quite red with hematitic alteration well developed. Rare, thin (5cm) pegmatites and aplites occur. At 75.4, a 5cm thick pink-red pegmatite is underlain by 0.5m of dark grey silicified, sericitised aplitic granite. A moderately gradational contact with the unit below occurs.
94.0				CONTACT
				94.0-100.2 HIGHLY ALTERED DG-FP
94.0	100.2	6.2	100	Highly altered, sericitised fine grained, non-porphyritic granite. Much of the original texture has been replaced with a pervasive silicification and sericitisation. Pale green and grey, moderately fractured, in places crumbly and soft with sericite and rare fluorite coating and infilling fractures. Molybdenite is also present. Dark grey silicified zones and a few weakly altered granite zones occur. Rare feldspar phenocrysts (2cm long) are also discernable. Could be medium grained Poimena Adamellite in places. No pegmatite on lower contact.
100.2				CONTACT.
				100.2-141.0 MODERATELY ALTERED, WEAKLY GREISENED ALKALI GRANITE.
100.2	106.0	5.8	100	Moderately altered, greisened alkali granite. Medium grained,

ASSAY DATA (ppm)

Sample No.	From	To	Rec. %	Sn
5451	94.0	95.0	100	60
5452	95.0	96.0	100	30
5453	96.0	97.0	100	30
5454	97.0	98.0	100	20
5455	98.0	99.0	100	20
5456	99.0	100.0	100	20
5457	100.0	101.0	100	30
5458	101.0	102.0	100	30
5459	102.0	103.0	100	60
5460	103.0	104.0	100	40
5461	104.0	105.0	100	30
5462	105.0	106.0	100	50
5463	106.0	107.0	100	20
5464	107.0	108.0	100	20
5465	108.0	109.0	100	20
5466	109.0	110.0	100	10
5467	110.0	111.0	100	10
5468	111.0	112.0	100	20
5469	112.0	113.0	100	10

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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: Blue Tier

HOLE NUMBER: B.T. 172

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				equigranular and unfractured. Alteration is variable ranging from
				weakly sericitised to moderately greisened, in a patchy random
				fashion. Veins of quartz sericite and fluorite occur. The colours
				of the granite are pale green-cream to very dark green-grey.
106.0	141.0	35.0	100	Pale green-orange grey alkali granite. Very weakly altered
				(abrupt contact with the more altered phase above) and unfractured.
				Slightly more altered in some places (e.g. 121.2-122.5) it
				also contains a few rare quartz-fluorite veinlets. Some fractures
				(also rare) have fluorite coatings.
				END OF HOLE 141.0m

ASSAY DATA (ppm)

Sample No.	From	To	Rec. %	Sn
5470	113.0	114.0	100	20
5471	114.0	115.0	100	20
5472	115.0	116.0	100	20
5473	116.0	117.0	100	20
5474	117.0	118.0	100	10
5475	118.0	119.0	100	10
5476	119.0	120.0	100	20
5477	120.0	121.0	100	10
5478	121.0	122.0	100	70
5479	122.0	123.0	100	140
5480	123.0	124.0	100	20
5481	124.0	125.0	100	20
5482	125.0	126.0	100	20
5483	126.0	127.0	100	20
5484	127.0	128.0	100	10
5485	128.0	129.0	100	20
5486	129.0	130.0	100	20
5487	130.0	131.0	100	20
5488	131.0	132.0	100	20
5489	132.0	133.0	100	20
5490	133.0	134.0	100	30
5491	134.0	135.0	100	20
5492	135.0	136.0	100	20
5493	136.0	137.0	100	20
5494	137.0	138.0	100	20
5495	138.0	139.0	100	20
5496	139.0	140.0	100	20
5497	140.0	141.0	100	10

65/241

ULV. PRESS

CORE IN BURNIE

HOLE NO. :	B.T. 173
STATE :	TASMANIA

GOLD FIELDS EXPLORATION PTY. LIMITED
DRILL CORE RECORD

PROJECT	BLUE TIER
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	17-8-83
COMPLETED	19-8-83

PURPOSE

To find stanniferous greisen in the North Anchor Area.

LOG SUMMARY GENERAL COMMENTS	Weakly altered Poimena Adamellite is underlain (at 88.0m) but weakly altered Alkali Granite.

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS
88.0	139.5													No significant tin. (i.e. <0.01%Sn)

LOCATION

NORTHING	5436112
EASTING	584928
R.L.	447.9
GRID	A.M.G.
LENGTH	139.5

HOLE CONDITION

SIZE	
Hole Size	Depth
TRICONE	0.0-28.0
BQ	28.0-139.5

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

Hole open, with a black polythene marker.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0.0	276	55.0	0.0	22.6	22.6	18.5	429.4	13.0	13.0
45.2	277	57.0	22.6	66.2	43.6	36.6	392.8	23.8	36.8
87.2	278	57.0	66.2	111.2	45.0	37.7	355.1	24.5	61.3
135.2	278	57.0	111.2	139.5	28.3	23.7	331.4	15.4	76.7

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total

65242

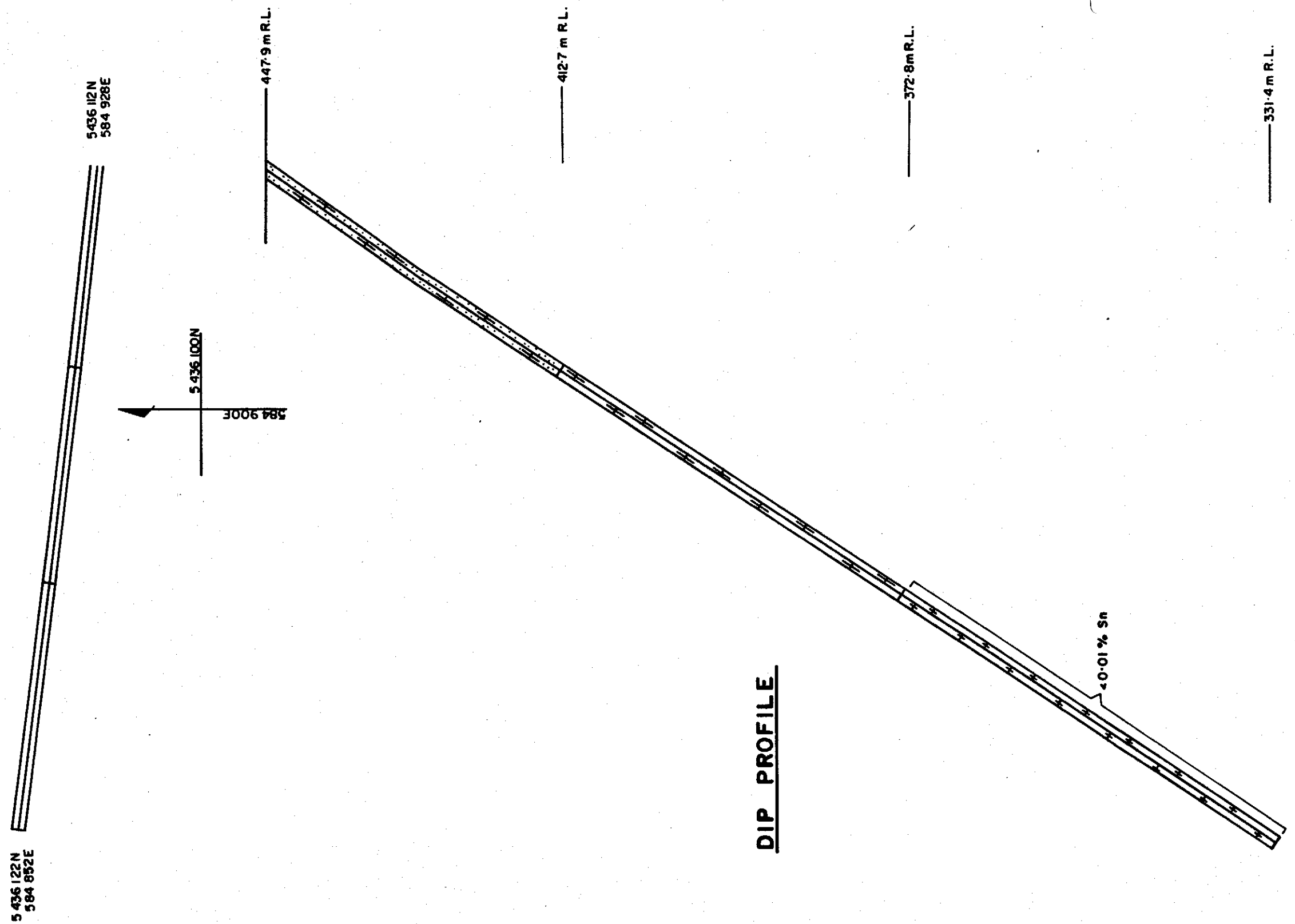
HOLE NO. **BT 173**

GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:

5 cm



657243

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: Blue Tier **HOLE NUMBER:** B.T. 173 **Page:** 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0.0	88.0	88.0		MEDIUM GRAINED, WEAKLY PORPHYRITIC POIMENA ADAMELLITE OVERALL UNALTERED WITH ZONES OF INCREASED ALTERATION AND FRACTURING.				
88.0				CONTACT				
88.0	139.5	51.5		MEDIUM GRAINED, EQUIGRANULAR ALKALI GRANITE. MODERATELY GREISENED AT FIRST, THEN WEAKLY ALTERED.				
				DETAILED LOG				
				0.0-88.0 WEAKLY ALTERED MEDIUM GRAINED POIMENA ADAMELLITE.				
0.0	29.0			Tricone, no core recovered.				
29.0	41.2	12.2	100	Medium grained, weakly porphyritic granite with rare feldspars up to 1.5cm across. Pinkish grey, unaltered and weakly fractured, the top 1.4m is weakly weathered with limonite stained joints. Becomes slightly more altered with depth.				
41.2	44.7	3.5	100	Pale pink, moderately altered aplitic granite. Fine grained and non-porphyritic with hematitic-sericitised feldspars, quartz and a few unaltered biotites. Several quartz-sericite veinlets are surrounded by a 10-20cm thick zone of dark grey silicification (All at 30° CA).				
				Between 44.0 and 44.7, a mildly brecciated sequence of quartz and pale brown sericite, mainly as veins, with a patch of soft, sericitised granite (medium grained).				
44.7	65.5	20.3	98	Red-pink, medium grained, very weakly porphyritic granite. Highly altered in places with pervasive sericite producing a very soft-clay rock. The sericite in these patches (approx. 1.0m long) is pale green. Overall, moderately altered granite. 20-30cm thick zones of dark grey silicification surround				

65 7244

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: Blue Tier

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 173 Page: 2.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA (ppm) Sample No.	From	To	Rec. %	Sn
				quartz-muscovite veins at approx. 30° CA. Altered zones are					
				crumbly, otherwise fracturing is moderate.					
				At 45.8, 0.9m of green sericitised granite.					
53.7-57.2(3.0m core recov-				At 51.5, a 30cm thick pale pink aplite. Very fine grained.					
			ered)	At 57.2, a 70cm thick intrusion of dark green, fractured greisen-					
				ed alkali granite. A 20cm, intrusion also occurs at 59.1.					
				Small pegmatitic/aplitic complexes are developed on the contacts					
				and the larger intrusion containing abundant sericite and					
				accessory fluorite.					
				The degree of alteration and redness decreases below this to					
				grade into the unit below.					
65.5	87.5	22.0	100	Grey, medium grained, weakly porphyritic granite. Several thin	5498	88.0	89.0	100	10
				(5cm) pegmatites and aplites occur, as do thin (10cm) crumbly,	5499	89.0	90.0	100	10
				sericitised zones and thin (10-20cm) silicified (dark grey)	5500	90.0	91.0	100	10
				zones surrounding quartz veinlets. In places, the granite becomes	5524	91.0	92.0	100	20
				fine grained (Dg-fp)but this is an irregular relationship.	5525	92.0	93.0	100	10
				Overall unaltered and incipiently fractured.	5526	93.0	94.0	100	20
				At 82.0, the pink (hematitic) colouration returns.	5527	94.0	95.0	100	30
					5528	95.0	96.0	100	40
87.5	88.0	0.5	100	A coarse grained pegmatite, consisting of pale pink feldspar,	5529	96.0	97.0	100	60
				colourless quartz and dark green sericitised micas, all very	5530	97.0	98.0	100	30
				coarse grained.	5531	98.0	99.0	100	30
					5532	99.0	100.0	100	20
88.0				CONTACT	5533	100.0	101.0	100	20
					5534	101.0	102.0	100	30
				88.0-139.5 VARIABLY BUT WEAKLY ALTERED AND GREISENED ALKALI	5535	102.0	103.0	100	30
				GRANITE.	5536	103.0	104.0	100	30
					5537	104.0	105.0	100	30
88.0	88.8	0.8	100	Medium grained, equigranular, weakly altered alkali granite	5538	105.0	106.0	100	20
				with a finer grained, more altered, banded (at 50° CA) sequence.	5539	106.0	107.0	100	20
				Unfractured.	5540	107.0	108.0	100	20
					5541	108.0	109.0	100	20
88.8	106.0	18.2	100	Variably but overall weakly altered alkali granite. Predominantly,	5542	109.0	110.0	100	20
				pale green-cream in colour and only slightly altered, with	5543	110.0	111.0	100	20

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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: Blue Tier

HOLE NUMBER: B.T. 173

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				patches up to 1.5m long of dark green greisened granite. Unfract-
				ured.
106.0	139.5	33.0	99	Very weakly altered, pale cream alkali granite with green
				(dark) sericitised micas. Unfractured.
(118.8-122.3,3.0m recovered)				At 112.0, 10.3m of fractured granite. Sericite (pale green-
				white) occurs as fracture infillings. No increase in alteration
				occurs.
				Below this fractured zone, the granite becomes slightly more
				green, with slightly more sericite replacing micas.
				Between 133.0 and 139.5, the sericite filled fractures return,
				producing a more incompetent rock.
				END OF HOLE 139.5m.

ASSAY DATA (ppm)

Sample No.	From	To	Rec. %	Sn
5544	111.0	112.0	100	10
5545	112.0	113.0	100	20
5546	113.0	114.0	100	20
5547	114.0	115.0	100	10
5548	115.0	116.0	100	10
5549	116.0	117.0	100	10
5550	117.0	118.0	100	20
6001	118.0	119.0	100	20
6002	119.0	120.0	100	20
6003	120.0	121.0	100	20
6004	121.0	122.0	100	20
6005	122.0	123.0	100	20
6006	123.0	124.0	100	10
6007	124.0	125.0	100	20
6008	125.0	126.0	100	10
6009	126.0	127.0	100	20
6010	127.0	128.0	100	10
6011	128.0	129.0	100	20
6012	129.0	130.0	100	20
6013	130.0	131.0	100	20
6014	131.0	132.0	100	20
6015	132.0	133.0	100	20
6016	133.0	134.0	100	20
6017	134.0	135.0	100	20
6018	135.0	136.0	100	<10
6019	136.0	137.0	100	<10
6020	137.0	138.0	100	<10
6021	139.0	139.5	100	<10

657246

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

CORE IN BURNIE

HOLE NO.	BT 174
STATE	TASMANIA

		PURPOSE
PROJECT	BLUE TIER	To find stanniferous greisen in the North Anchor Area.
DESIGNED BY	A.J.CARTWRIGHT	
LOGGED BY	A.J.CARTWRIGHT	
COMMENCED	22-8-83	
COMPLETED	24-8-83	

LOG SUMMARY GENERAL COMMENTS	114.0m of Poimena Adamellite was drilled before a contact with weakly altered Alkali Granite was obtained.

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS
114.0	140.0	No significant tin (i.e. <0.01% Sn)												

LOCATION

NORTHING	5436107
EASTING	585149
R.L.	440.6
GRID	A.M.G.
LENGTH	140.0

HOLE CONDITION

SIZE	
Hole Size	Depth
TRICONE	0.0-18.0
BQ	18.0-140.0

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION
Hole open, with a black polythene marker.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total	SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0.0		90.0	0.0	33.1	33.1	33.1	407.5	0.0	0.0										
66.2	316	87.0	33.1	102.0	68.9	68.8	338.7	3.6	3.6										
138.2	279	87.5	102.0	140.0	38.0	38.0	300.7	1.7	5.3										

657247

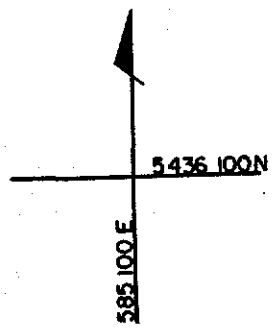
GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

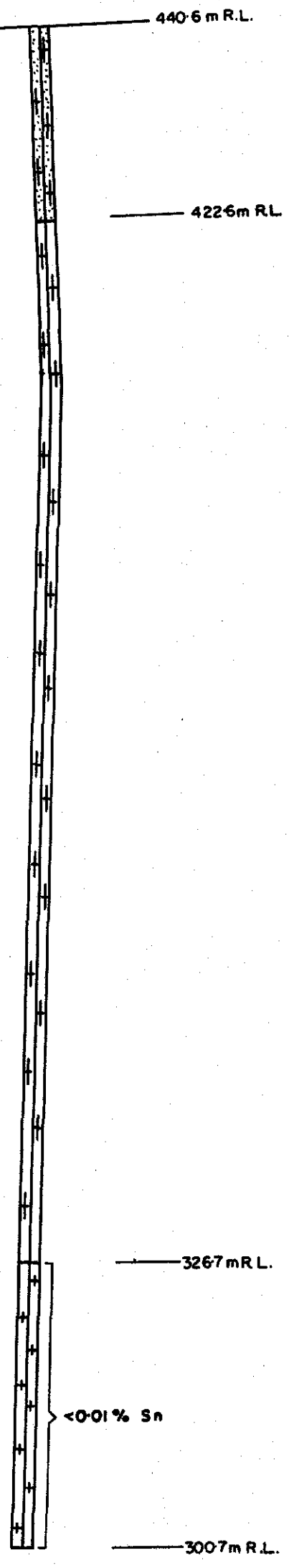
HOLE NO. **BT 174**

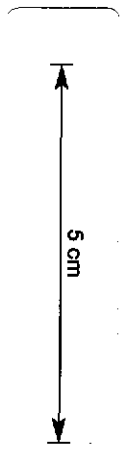
SCALE 1

PLAN



DIP PROFILE





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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 174

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0.0	114.0	114.0		MEDIUM GRAINED, PORPHYRITIC POIMENA ADAMELLITE WITH NUMEROUS APLITES AND PEGMATITES. BECOMES HEMATITIC AND SERICITIC WITH DEPTH.				
114.0	140.0	26.0		WEAKLY ALTERED, MEDIUM GRAINED, EQUIGRANULAR ALKALI GRANITE. BECOMES SERICITISED WITH DEPTH.				
				DETAILED LOG.				
				0.0-114.0 MEDIUM GRAINED, PORPHYRITIC POIMENA ADAMELLITE WITH NUMEROUS APLITES AND PEGMATITES.				
0.0	18.0			Tricone, no core recovered.				
18.0	83.5	65.5	100	Grey, medium grained, porphyritic granite. Unaltered, unweathered and incipiently fractured-slightly blocky in places. White feldspar phenocrysts up to 2cm across rarely occur. More common are elongate phenocrysts 1.0cm long. Smaller feldspars have a pale green hue. Patches with pink hematitic feldspars also occur.				
				This granite contains several thin (≥10cm) fine grained aplites, rare quartz-sericite veinlets and their narrow alteration halos, together with fractured zones (weakly developed) and associated sericitisation.				
				At 20.5, a 1.5m section of pale orange altered granite with green sericitised micas and orange feldspars. This is underlain by a 0.5m pegmatite of similar but very coarse grained phases. Between 57.4 and 58.7, between 62.0 and 64.0, highly fractured zones of crumbly, soft rock occur. Sericite is common. A strongly developed sericitised zone surrounds the lower crush zones, approximately 4.0m either side. Another altered zone (sericitised) exists between 70.0 and 74.0. Between 78.5 and 82.5, another altered zone surrounding a central crush zone occurs.				

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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 174

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
83.5	114.0	30.5	100	Red-grey medium grained, weakly altered, porphyritic granite.
				Same as above, with all the feldspars hematitic. More fractured
				and sericite is more abundant. Medium-coarse grained pegmatites
				and stronger altered granite sections occur, as do patches of
				biotite accumulations. The red-pink decreases with depth to pro-
				duce a grey but altered granite.
				At 113.7, a 30cm thick complex zone of aplite and pegmatite.
				Dark green sericite, black biotite, colourless quartz and pale
				orange feldspars occur as both coarse and fine grained phases.
				Accessory purple fluorite also occurs.
114.0				CONTACT.
				114.0-140.0 WEAKLY ALTERED, MEDIUM GRAINED ALKALI GRANITE.
114.0	118.7	4.7	100	Pale orange-grey, incipiently altered, medium grained equigranul-
				ar alkali granite. Most micas are unaltered, and the feldspars
				are pale orange. Unfractured with a few rare fractures having
				fluorite coatings.
118.7	140.0	21.3	100	White-green, alkali granite. Medium-fine grained, equigranular.
				This granite is weakly altered, being quite strongly sericitised.
				White, clayey sericite occurs pervasively and as veins, producing
				a soft rock, moderately fractured with several crushed zones.
				Pale green sericite replaces micas. Pale brown sericite-white
				quartz veins are also common.
				END OF HOLE 140.0

ASSAY DATA (ppm)

Sample No.	From	To	Rec. %	Sn
6022	114	115	100	10
6023	115	116	100	10
6024	116	117	100	20
6025	117	118	100	20
6026	118	119	100	20
6027	119	120	100	10
6028	120	121	100	20
6029	121	122	100	30
6030	122	123	100	30
6031	123	124	100	30
6032	124	125	100	20
6033	125	126	100	30
6034	126	127	100	20
6035	127	128	100	20
6036	128	129	100	30
6037	129	130	100	20
6038	130	131	100	20
6039	131	132	100	20
6040	132	133	100	20
6041	133	134	100	70
6042	134	135	100	230
6043	135	136	100	50
6044	136	137	100	30
6045	137	138	100	20
6046	138	139	100	30
6047	139	140	100	20

65250

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED
DRILL CORE RECORD

CORE IN BURNIE

HOLE NO. :	B.T. 175
STATE :	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	25-8-83
COMPLETED	30-8-83

PURPOSE

To find stanniferous greisen in the North Anchor Area.

LOG SUMMARY / GENERAL COMMENTS

Quite strongly altered and greisened Alkali Granite was encountered at 30.3 under a well developed pegmatite. Molybdenite and fluorite were observed. The degree of alteration lessened with depth. Significant assays are recorded below.

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS
28.0	95.0													No significant Sn, Cu, Ag or Mo.

LOCATION

NORTHING	5435976
EASTING	585139
R.L.	392.0
GRID	A.M.G.
LENGTH	101.0

HOLE CONDITION

SIZE: Hole Size	SIZE: Depth
TRICONE	0.0-27.0
BQ	27.0-101.0

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost

POOR GROUND CONDITION ZONES From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

Hole open, with a black polythene marker.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total
0.0		90.0	0.0	24.1	24.1	24.1	367.9	0.0	0.0
48.2	124	87.5	24.1	101.0	76.9	76.8	291.1	3.4	3.4

SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total

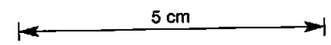
65425

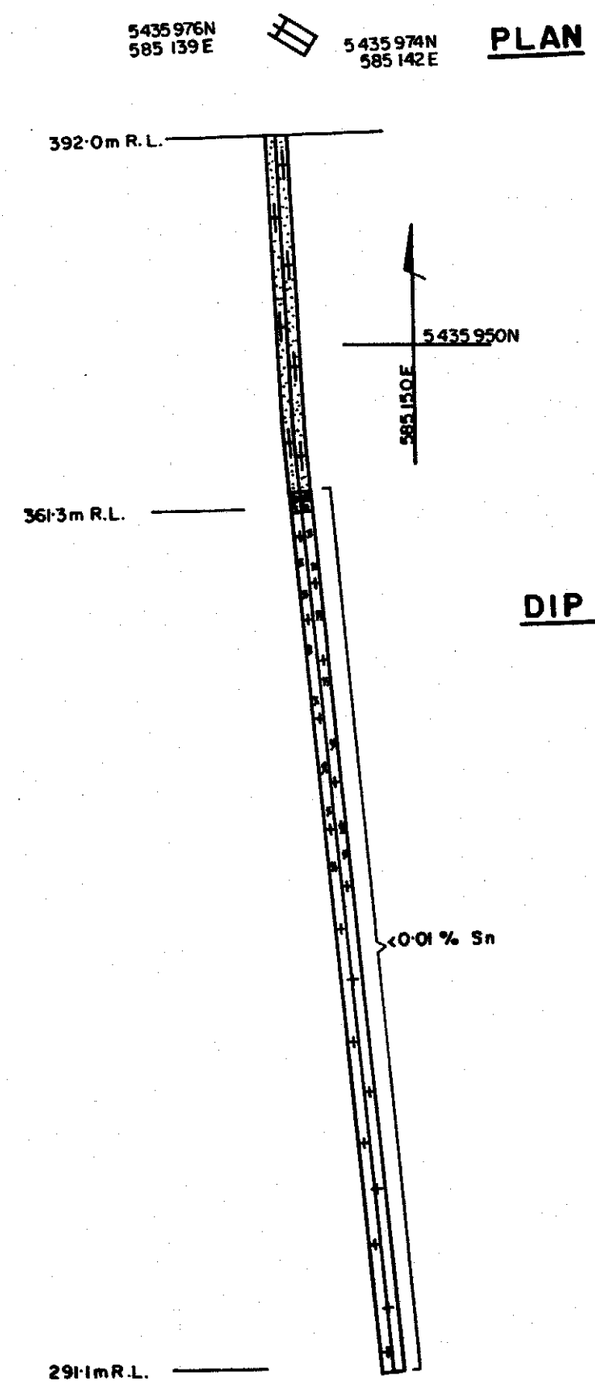
HOLE NO. **BT 175**

GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:





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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 175

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0.0	30.3	29.7		WEAKLY WEATHERED AND ALTERED, MEDIUM GRAINED POIMENA ADAMELLITE.				
				A THICK PEGMATITE UNDERLIES THIS GRANITE.				
30.3				CONTACT.				
30.3	101.0	70.7		PATCHILY BUT OVERALL MODERATE TO STRONGLY ALTERED ALKALI GRANITE,				
				WHICH BECOME LESS ALTERED WITH DEPTH.				
				DETAILED LOG				
				0.0-30.3 WEAKLY WEATHERED AND ALTERED, MEDIUM GRAINED POIMENA				
				ADAMELLITE WITH A LARGE BASAL PEGMATITE.				
0.0	27.0	27.0		Tricone, no core recovered. Probably weathered adamellite.				
27.0	28.8	1.2	67	Brown, weathered medium grained, weakly porphyritic granite.				
(27.0-28.0, 0.4m recovered)				Highly fractured and weakly altered. Crumbly zones of rock				
				fragments occur.				
				After 28.0, the rock is unweathered with several thin (approx.				
				10cm thick) aplitic and alkali granite intrusions. The granite				
				is moderately altered and unfractured and pale grey in colour.				
28.8	30.3	1.5	100	A 0.7m thick, very coarse grained (several cm) white pegmatite				
				of feldspar occurs. Accessory phases are fine grained colourless				
				quartz and green sericite bands.				
				This is underlain by 0.4m of dark grey-green silicified granite				
				with abundant green sericitised feldspars and micas. This is				
				underlain by 15cm of quartz, which is underlain by 15cm of				
				coarse-medium grained granite (pegmatitic)-weakly sericitised.				
				A 10cm thick pale yellow aplite occurs beneath this.				
30.3				CONTACT.				

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GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 175

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				30.3-101.0 MODERATELY TO STRONGLY ALTERED ALKALI GRANITE.
				ALTERATION RANK DECREASES WITH DEPTH.
30.3	33.1	2.8	100	Moderately altered and greisened alkali granite. Green-grey in colour and unfractured. All mica phases are replaced with green sericite. At 32.2, a 10cm thick aplite-pegmatite complex occurs.
33.1	38.2	5.1	100	Pale yellow,weakly altered, sericitised alkali granite. Medium grained and equigranular, with several yellow-sericite filled fractures. Micas are still all replaced.
38.2	39.5	1.3	100	From above, the granite gradually becomes darker green and overall strongly altered. Pale brown and dark green sericite are common, and disseminated molybdenite and fluorite occur. Both feldspars and micas are replaced.
39.5	45.3	5.8	100	Weakly altered, paler green-grey alkali granite. Only the micas have been sericitised. Unfractured.
45.3	51.3	6.0	100	Variably altered alkali granite. Predominantly dark green and moderately strongly altered and silicified, with patches of weaker altered granite and patches of pale yellow-cream bleached granite. In places, strongly fractured, with a blocky fracture developed. The darker, more intense alteration zones surround poorly developed quartz veins.
51.3	59.7	8.4	100	Moderately and uniformly altered, greisened alkali granite. Green-grey and rarely fractured, some with sericite infillings. All micas and some feldspars are altered and replaced. This alteration state grades into the one below.
59.7	95.7	36.0	100	Weakly altered alkali granite. Pale green-cream in colour and rarely fractured. Some sericite infilled fractures occur. The micas have been partially replaced with dark green sericite. This

ASSAY DATA (ppm)

Sample No.	From	To	Rec. %	Sn	Ag	Cu	Mo
6058	28.0	29.0	100	40	<1	5	30
6059	29.0	30.0	100	20	<1	5	<10
6060	30.0	31.0	100	30	<1	5	<10
6061	31.0	32.0	100	30	<1	5	90
6062	32.0	33.0	100	20	<1	5	10
6063	33.0	34.0	100	20	<1	10	<10
6064	34.0	35.0	100	30	<1	15	<10
6065	35.0	36.0	100	20	<1	10	10
6066	36.0	37.0	100	30	<1	5	<10
6067	37.0	38.0	100	20	<1	15	<10
6068	38.0	39.0	100	40	<1	5	130
6069	39.0	40.0	100	40	<1	5	240
6070	40.0	41.0	100	40	<1	5	120
6071	41.0	42.0	100	50	1	5	60
6072	42.0	43.0	100	50	<1	5	140
6073	43.0	44.0	100	50	<1	10	110
6075	45.0	46.0	100	30	2	10	10
6076	46.0	47.0	100	40	3	10	10
6077	47.0	48.0	100	30	2	20	<10
6078	48.0	49.0	100	70	<1	5	10
6079	49.0	50.0	100	50	1	5	10
6080	50.0	51.0	100	50	1	5	20
6081	51.0	52.0	100	50	1	5	10
6082	52.0	53.0	100	30	<1	5	10
6083	53.0	54.0	100	30	<1	5	<10
6084	54.0	55.0	100	40	<1	5	10
6085	55.0	56.0	100	30	<1	5	<10
6086	56.0	57.0	100	40	<1	5	20
6087	57.0	58.0	100	30	<1	<5	10
6088	58.0	59.0	100	50	<1	<5	10
6089	59.0	60.0	100	50	<1	5	10
6090	60.0	61.0	100	30	<1	<5	30
6091	61.0	62.0	100	40	<1	5	<10
6092	62.0	63.0	100	40	<1	5	10

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GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 175

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	Sample No.	From	To	Rec. %	Sn	Ag	Cu	Mo
				alteration style is slightly more variable than above, with	6093	63.0	64.0	100	50	<1	<5	10
				patches of darker, slightly more altered granite, and pale cream	6094	64.0	65.0	100	40	<1	<5	30
				unaltered zones.	6095	65.0	66.0	100	40	<1	5	20
				At 82.4, 86.1, 87.0, fractures with sericite-fluorite infillings	6096	66.0	67.0	100	40	<1	5	20
				occur.	6097	67.0	68.0	100	40	<1	<5	10
				Overall, the green colour and degree of alteration decrease with	6098	68.0	69.0	100	40	<1	<5	50
				depth.	6099	69.0	70.0	100	40	<1	<5	<10
					6100	70.0	71.0	100	40	<1	<5	10
95.7	101.0	5.3	100	Unaltered, cream-grey alkali granite. Equigranular, medium grained	6101	71.0	72.0	100	30	<1	<5	10
				and unfractured. A gradational contact with the above unit occurs.	6102	72.0	73.0	100	40	<1	5	10
					6103	73.0	74.0	100	30	<1	<5	<10
				END OF HOLE 101.0	6104	74.0	75.0	100	40	<1	<5	<10
					6105	75.0	76.0	100	40	<1	<5	50
					6106	76.0	77.0	100	40	<1	<5	<10
					6107	77.0	78.0	100	30	<1	<5	110
					6108	78.0	79.0	100	40	<1	<5	120
					6109	79.0	80.0	100	30	<1	<5	20
					6110	80.0	81.0	100	40	<1	<5	10
					6111	81.0	82.0	100	40	<1	<5	90
					6112	82.0	83.0	100	40	<1	<5	40
					6113	83.0	84.0	100	30	<1	<5	20
					6114	84.0	85.0	100	40	<1	<5	30
					6115	85.0	86.0	100	30	<1	<5	30
					6116	86.0	87.0	100	30	<1	<5	40
					6117	87.0	88.0	100	30	<1	<5	20
					6118	88.0	89.0	100	40	<1	<5	10
					6119	89.0	90.0	100	40	<1	<5	10
					6120	90.0	91.0	100	30	<1	<5	10
					6121	91.0	92.0	100	30	<1	<5	<10
					6122	92.0	93.0	100	40	<1	5	<10
					6123	93.0	94.0	100	30	<1	<5	<10
					6124	94.0	95.0	100	30	<1	<5	<10

ASSAY DATA (ppm)

65725

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED
DRILL CORE RECORD

CORE IN BURNIE

HOLE NO. :	B.T. 176
STATE :	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	30-8-83
COMPLETED	1-9-83

PURPOSE

To find stanniferous greisen in the North Anchor Area.

LOG SUMMARY / GENERAL COMMENTS

Moderately altered Poimena Adamellite overlies (at 21.5m) incipiently altered Alkali Granite.

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS
21.5	53.5													No significant tin. (i.e. <0.01%Sn)

LOCATION

NORTHING	5435924
EASTING	584884
R.L.	396.1
GRID	A.M.G.
LENGTH	80.2

HOLE CONDITION

SIZE: Hole Size	SIZE: Depth
TRICONE	0.0-9.0
BQ	9.0-80.0

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost
9.0	20.0	68

POOR GROUND CONDITION ZONES From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

Hole open, with a black polythene marker.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total
0.0		90.0	0.0	20.1	20.1	20.1	376.0	0.0	0.0
40.2		89.5	20.1	58.2	38.1	38.1	337.9	0.3	0.3
76.2		90.0	58.1	80.0	21.9	21.9	316.0	0.0	0.3

SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total

65 1256

HOLE NO. **BT 176**

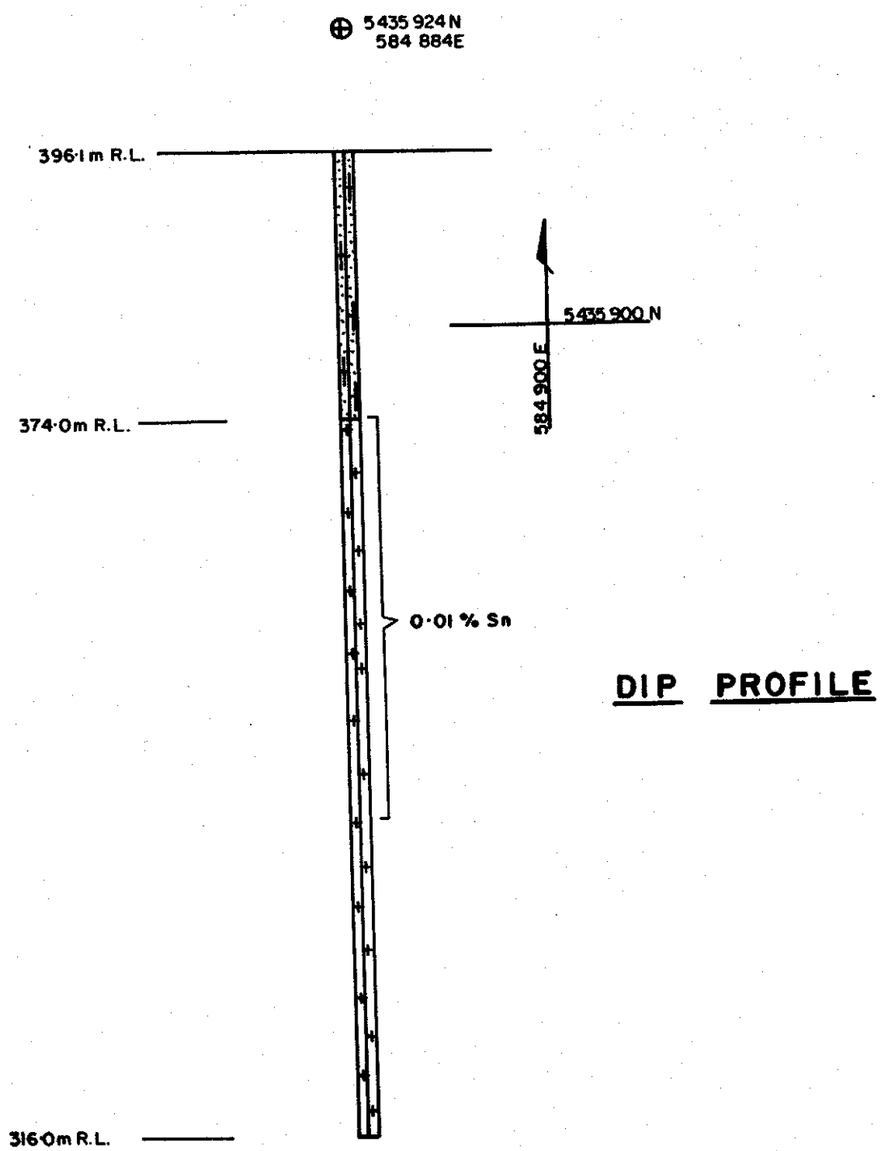
GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:

5 cm

PLAN



DIP PROFILE

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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 176

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	Sample No.	From	To	Rec. %	Sn
				SUMMARISED LOG					
0.0	21.5	14.0		MODERATELY ALTERED, MEDIUM GRAINED, PORPHYRITIC POIMENA ADAMELLITE.					
21.5				CONTACT.					
21.5	80.0	58.5		WEAKLY ALTERED TO UNALTERED ALKALI GRANITE. MEDIUM GRAINED AND EQUIGRANULAR.					
				DETAILED LOG					
				0.0-21.5 MODERATELY ALTERED, MEDIUM GRAINED POIMENA ADAMELLITE.					
0.0	9.0	9.0		Tricone, no core recovered.					
9.0	19.5	3.0	30	Moderately weathered and altered, brown-grey-pink granite.					
(9.0-20.0, 3.5m recovered)				Medium grained and weakly porphyritic with patches of hematitic feldspar developed. Limonite is common at the top of the unit. Moderately to highly fractured in places with some crushed zones.					
19.5	21.5	2.0	100	Pale pink-grey aplite. Very fine grained and weakly altered.					
				Weakly fractured, with sericite (yellow) infillings. Slightly hematitic in places. Unusual, subhorizontal quartz lamellae approx. 2mm thick are developed throughout.	6201	21.5	22.5	100	20
				At 21.2, a 30cm pegmatite-aplite occurs. It consists of quartz,	6202	22.5	23.5	100	50
				feldspar and unaltered biotite.	6203	23.5	24.5	100	40
					6204	24.5	25.5	100	20
21.5				CONTACT	6205	25.5	26.5	100	20
					6206	26.5	27.5	100	20
				21.5-80.0 WEAKLY ALTERED TO UNALTERED ALKALI GRANITE.	6207	27.5	28.5	100	20
					6208	28.5	29.5	100	30
21.5	80.0	58.5	100	Weakly altered alkali granite. Medium grained and equigranular.	6209	29.5	30.5	100	30
				A few patches (up to 0.5m thick) of stronger, moderately altered	6210	30.5	31.5	100	30
				granite occur. These are dark green, otherwise the rock is very	6211	31.5	32.5	100	20

ASSAY DATA (ppm)

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ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 176

Page: 2.

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA (ppm)				
From	To	m	%		Sample No.	From	To	Rec. %	Sn
				pale green-cream in colour. Weakly fractured, with the occasion-	6212	32.5	33.5	100	30
				al sericite filled fracture.	6213	33.5	34.5	100	40
				Below 53.0, the 'greeness' and degree of alteration decreased	6214	34.5	35.5	100	40
				to give pale cream unaltered alkali granite. This is a uniform	6215	35.5	36.5	100	30
				alteration state.	6216	36.5	37.5	100	40
					6217	37.5	38.5	100	40
					6218	38.5	39.5	100	40
				END OF HOLE 80.0	6219	39.5	40.5	100	40
					6220	40.5	41.5	100	40
					6221	41.5	42.5	100	30
					6222	42.5	43.5	100	20
					6223	43.5	44.5	100	20
					6224	44.5	45.5	100	10
					6225	45.5	46.5	100	30
					6226	46.5	47.5	100	20
					6227	47.5	48.5	100	10
					6228	48.5	49.5	100	20
					6229	49.5	50.5	100	20
					6230	50.5	51.5	100	10
					6231	51.5	52.5	100	20
					6232	52.5	53.5	100	10

657259

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO. :	B.T. 177
STATE :	TASMANIA

		PURPOSE
PROJECT	BLUE TIER	To test for unexposed Alkali Granite in the Ransome River Area.
DESIGNED BY	A.J. CARTWRIGHT	
LOGGED BY	A.J. CARTWRIGHT	
COMMENCED	7-9-83	
COMPLETED	15-9-83	

LOG SUMMARY GENERAL COMMENTS	Unaltered Poimena Adamellite was encountered over the entire length of this hole.

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	5437796
EASTING	584398
R.L.	687.7
GRID	A.M.G.
LENGTH	200.0

HOLE CONDITION

SIZE	
Hole Size	Depth
TRICONE	0.0-3.0
BQ	3.0-200.0

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION
Hole left open with a black polythene marker.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total	SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0.0	-	90.0	0.0	51.0	51.0	51.0	636.7												
102.0	-	89.0	51.0	150.0	99.0	99.0	537.7												
198.2	-	88.5	150.0	200.0	50.0	50.0	487.7												

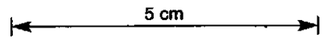
65260

HOLE NO. **BT 177**

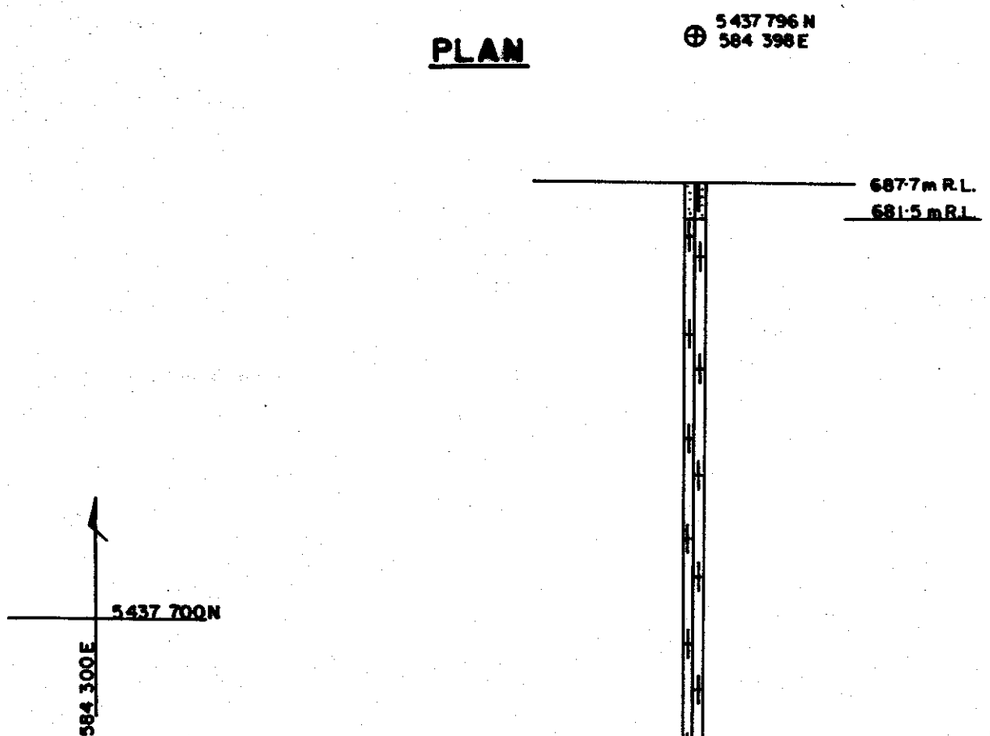
GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

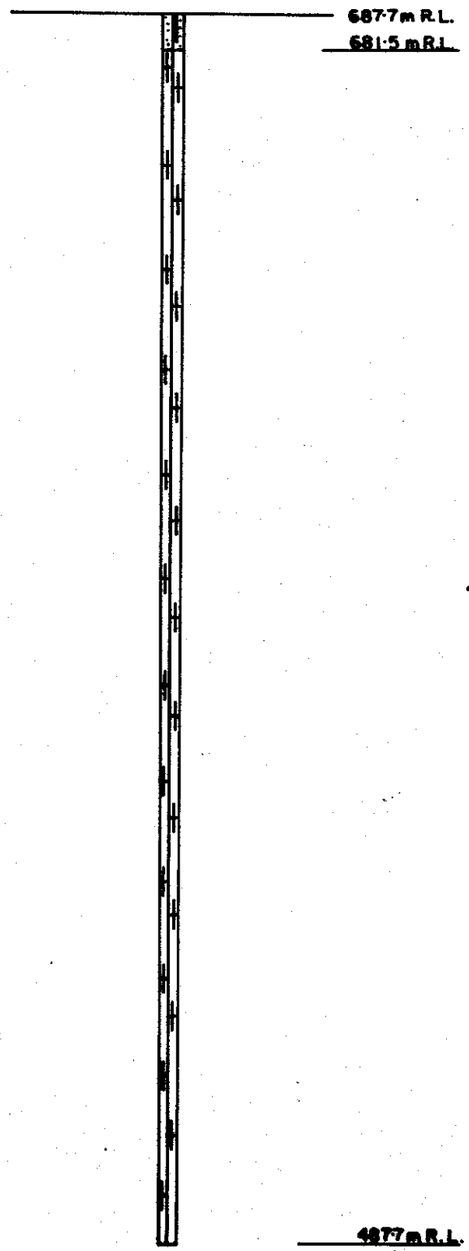
SCALE :



PLAN



DIP PROFILE



657261

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PR.

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 177

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				SUMMARISED LOG
0.0	200.0	200.0		FRESH TO WEAKLY ALTERED POIMENA ADAMELLITE. PREDOMINANTLY MEDIUM GRAINED AND PORPHYRITIC.
				DETAILED LOG
				0.0-200.0 INCIPIENTLY ALTERED POIMENA ADAMELLITE.
0.0	3.0			Tricone, no core recovered.
3.0	6.2	1.2	38	Weakly weathered, pale brown-grey granite. Medium-coarse grained and porphyritic. Brown limonite is developed on fracture surfaces (weakly fractured). Yellow-brown sericitised feldspars occur. Overall, very weakly altered.
(3.0-6.0, 1.0m recovered)				
6.2	21.6	15.4	100	Fresh, weakly altered, pink-green-grey granite. Pale pink feldspar phenocrysts up to 2cm occur with smaller olive green sericitised feldspar phenocrysts. Quartz also occurs as phenocrysts producing a medium-coarse grained moderately porphyritic rock. Black "book" biotites are unaltered. In places, the rock becomes so coarse grained as to become semi-pegmatitic. The rock is unfractured, apart from narrow (10-20 cm) zones of intense sericitisation and clay development which produce patches of incompetent, crumbly rock.
				At 9.2, a 1.2m thick zone of aplite-pegmatite with a wide variety of grain sizes. Feldspars and quartz form graphic intergrowths with a few very large (1cm) biotite flakes.
21.6	53.9	32.3	100	Medium-fine grained, weakly porphyritic granite. Similar to above, except finer grained and less porphyritic. Hematitic in places, it is also pinker than granite above. A few very large (3 cm across) feldspar phenocrysts occur. Fracturing

ASSAY DATA

Sample No.	From	To	Rec. %

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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PR.

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 177

Page: 2.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				and alteration are the same as for the granite above. Thin (5cm) aplites are common, veinlets with narrow (2-3 cm) alteration halos occur and patches of pale green intensely sericitised granite exist.				
				At 50.9, a 3.0m zone of leucogranite occurs. Medium grained non porphyritic intergrowths of pale pink feldspar, white feldspar and quartz. In patches, incipient sericitisation and a vugginess are developed. No dark minerals are present.				
53.9	107.5	53.6	100	Dark grey medium grained, moderately porphyritic granite. Unaltered and unfractured, the granite has a high biotite content, causing the darker colour. The pink tinge common in feldspar phenocrysts is absent, apart from a weakly sericitised zone between 69.4 and 75.4m.				
				At 92.5, a strongly fractured and sericitised zone of pink granite surrounding a quartz vein, occurs over 1.6m. The pink hue remains in feldspar phenocrysts approximately 6.0m beneath this zone.				
107.5	135.5	28.0	100	Pale pink-grey weakly altered granite. Medium grained and moderately porphyritic, with widespread sericitisation developed. Unfractured apart from fracture zones rich in pale green sericite. Biotite is abundant in this phase. Small pegmatite-aplite seams and quartz veinlets occur.				
				Between 110.7 and 113.5 a moderately altered zone rich in pale green sericite (pervasive) exists.				
				Below 125.0, the granite becomes unalterd. Also the pink colour decreases gradually with depth.				
135.5	200.0	64.5	100	Grey granite, medium grained, porphyritic and unaltered, except for the crush zones (10-20cm wide) which are sericitic. In places the granite is coarser grained; semi-pegmatitic.				
				At 142.5, a large 1.2m crush zone of sericitic clays and sericitised rock fragments occurs.				
				At 160.0, a 20cm zone of fine grained black biotite and				

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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PR.

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 177

Page: 3.

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA			
From	To	m	%		Sample No.	From	To	Rec. %
				white feldspar exists. The zone is biotite rich.				
				At 167.0 a weakly developed altered fracture system occurs				
				over 1.0m.				
				After 169.0, the granite is completely unaltered with no altered				
				fractures occuring.				
				At 189.5, a 2.0m zone with brown clay filled (3mm wide) exists.				
				END OF HOLE 200.0m.				

65 r 264

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO. :	BT 178
STATE :	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	J.W. BEDDOWS
COMMENCED	9/4/84
COMPLETED	26/4/84

PURPOSE

To test possibility of mineralized alkali granite cupola in the area south of Gough's Lode.

LOG SUMMARY

0.0 - 28.0 MODERATELY WEATHERED POIMENA ADAMELLITE.
28.0 - 134.7 WEAKLY ALTERED AND GREISENIZED POIMENA ADAMELLITE.
134.7 - 151.0 WEAKLY TO MODERATELY ALBITIZED POIMENA ADAMELLITE.

GENERAL COMMENTS

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	36415
EASTING	844490
R.L. (approx)	510
GRID	A.M.G
LENGTH	151.0

HOLE CONDITION

SIZE: Hole Size	Depth
TRICONE	0.0-4.0
NQ	4.0-30.0
BQ	30.0-151.0

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost

POOR GROUND CONDITION ZONES From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

Hole open. Approx. 25m. casing down hole.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total
119.0		89.5	0.0	119.0		119.0	391		
149.0		90.0	119.0	151.0		32.0	359		

SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total

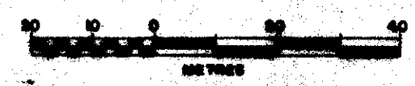
65265

HOLE NO. BT 176

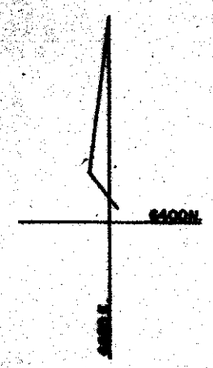
GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

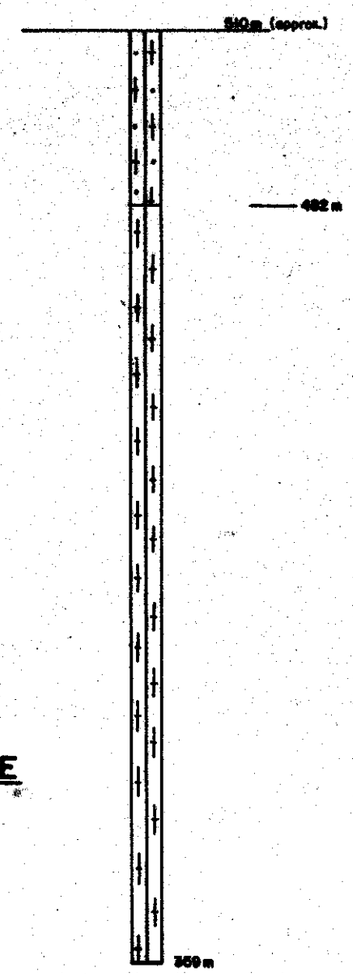
SCALE 1:1000



5 cm



PLAN



DIP PROFILE

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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 178

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
0.0	28.0			SUMMARIZED LOG				
0.0	28.0			MODERATELY WEATHERED POIMENA ADAMELLITE.				
28.0	134.7			WEAKLY ALTERED AND GREISENIZED POIMENA ADAMELLITE.				
134.7	151.0			WEAKLY TO MODERATELY ALBITIZED POIMENA ADAMELLITE.				
				DETAILED LOG				
				0.0-28.0 MODERATELY WEATHERED POIMENA ADAMELLITE.				
0.0	4.0	0.0	0	Tricone-no core recovered.				
4.0	28.0	20.0	71	Moderately weathered, medium grained, porphyritic adamellite with feldspars up to 2.5-3.0cm long. Several thin intersections (5-10cm) are finer grained and apparently richer in biotite; these are probably xenoliths. These xenoliths are located at 7.16m, 17.69 and 26.20m depths.				
				28.0-134.7 WEAKLY ALTERED AND GREISENIZED ADAMELLITE.				
28.0	67.43	39.43	100	Grey medium grained porphyritic adamellite. Essentially unaltered but there is weak sericitic alteration around joints. Iron staining is also found around joints to 34.0m. Veins often have a weakly greisenized halo of approximately 2-3 cm width. Larger biotite rich xenoliths occur at 58.95 and 64.7m. Thin pegmatite veins up to 2 cm wide are also found in this interval at 60.91 and 65.2m. 66.45-66,80 The intensity of sericitic alteration increases giving rock a green and flakey appearance.				
67.43	73.05	5.62	100	Moderately altered and weakly greisenized, green, porphyritic granite. This increase in alteration appears to be due to the proximity of an almost vertical vein about 3mm wide.				

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GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 178

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				The vein surface is coated with sericite.				
73.05	84.30	11.25	100	Essentially unaltered, medium grained, grey, porphyritic granite. Feldspars are up to 4cm long. Minor green sericite alteration is found as a halo around joints and veins. Several xenoliths are found in the core at 79.30 (This has a 1 cm wide reaction rim) and 82.98m, and are about 8cm long.				
84.30	95.90	11.60	100	This intersection is affected by a nearly vertical vein that cuts the core. Sericitic alteration is increased markedly and several small weakly greisenized zones developed around the vein.				
95.90	131.90	36.0	100	Weakly altered to unaltered grey, porphyritic granite, with feldspars up to 3-4 cm long. Quartz are grey and there is a black biotite also present. The only alteration is minor sericite halos around joints and veins.				
131.90	134.70	2.80	100	Weakly greisenized green-grey, porphyritic granite that also is weakly altered.				
				134.7-151.0 WEAKLY TO MODERATELY ALBITIZED POIMENA ADAMELLITE.				
134.70	149.52			Grey to orangey-red porphyritic granite. This intersection shows an increase in albitic alteration from top to bottom. Firstly the feldspars are becoming a pinky-orange colour and gradually the rock becomes a pinky orange colour.				
149.52	151.0			Quite strongly albitized porphyritic granite. Very orange-red in colour with grey to clear quartz.				
				END OF HOLE 151.0m.				

65726B

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO. :	B.T. 179
STATE :	TASMANIA

PROJECT	BLUE TIER
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	J.W. BEDDOWS
COMMENCED	28/4/84
COMPLETED	7/5/84

PURPOSE

To test the possibility of there being a mineralized alkali granite cupola in the area north-west of Gough's Lode.

LOG SUMMARY

0-23.2 WEATHERED POIMENA ADAMELLITE.
23.2-60.55 ARGILLISED AND WEAKLY ALBITIZED POIMENA ADAMELLITE.
60.55-121.0 FRESH POIMENA ADAMELLITE.

GENERAL COMMENTS

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	36810
EASTING	84225
R.L. (approx.)	545
GRID	A.M.G.
LENGTH	121.0

HOLE CONDITION

SIZE	
Hole Size	Depth
TRICONE	0.0-4.0
NQ	4.0-25.0
BQ	25.0-121.0

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost
4.0	7.0	85
7.0	23.0	100

POOR GROUND CONDITION ZONES		
From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

HOLE OPEN. STORMWATER PIPE 0.5m ABOVE GROUND LEVEL.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
29.0	-	89.5	0.0	29.0	29.0	29.0	516		
74.0	-	89.5	29.0	74.0	45.0	45.0	471		
199.0	-	90.0	74.0	121.0	47.0	47.0	424		

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total

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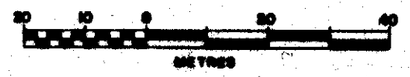
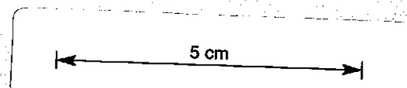
HOLE NO. BT 179

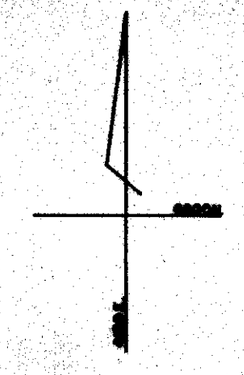
GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

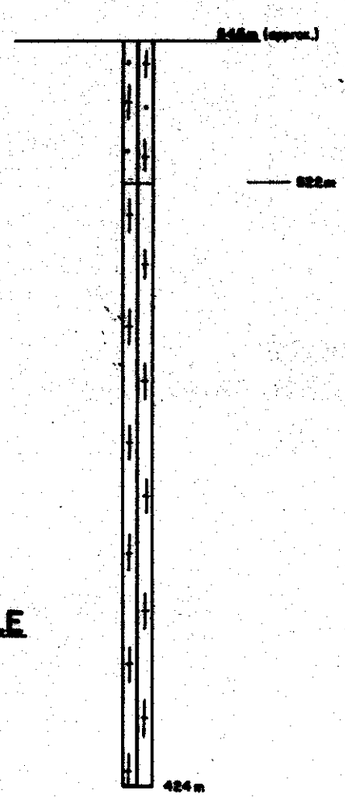
SCALE 1:1000







PLAN



DIP PROFILE

657270

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 179

Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				SUMMARIZED LOG
0	23.2			SOIL, SAND, CLAY AND WEATHERED POIMENA ADAMELLITE.
23.2	60.55			POIMENA ADAMELLITE, MODERATE TO STRONG ARGILLIC ALTERATION AND WE WEAK ALBITIC ALTERATION.
60.55	121.0			POIMENA ADAMELLITE THAT IS ESSENTIALLY FRESH WITH MINOR SERICITC ALTERATION AROUND VEINS AND JOINTS.
				DETAILED LOG
				0-23.2 SOIL, SAND, CLAY AND WEATHERED ADAMELLITE.
0.0				Tricone, no core recovery.
4.0	7.0	0.4	13.3	Highly weathered and iron stained brown granite. Coarse grained and porphyritic.
7.0	23.0	0.0	0	No core recovery but cuttings indicate a red, brown sand, clay mixture.
23.0	23.2	0.2	100	Weathered weakly albitized porphyritic granite. Feldspars are an orangey-red colour.
				23.2-60.55 ARGILLIZED AND WEAKLY ALBITIZED ADAMELLITE WITH PEGMATITE.
23.2	32.7	9.5	100	Pink-grey medium grained porphyritic granite. Albitic alteration is weak giving orangey-pink feldspars. There is a pervasive weak argillic alteration and some minor sericitization around joint planes. Argillic alteration gets stronger towards the bottom of this interval. 29.85m Zone of highly altered fine-medium grained equigranular

ASSAY DATA

Sample No.	From	To	Rec. %

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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 179

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				granite about 12-15cm wide. This zone is very rich in a brown or black biotite.				
32.7	33.65	0.95	100	Grey-white granite similar to above, but feldspars have almost entirely altered to a white clay. Most of the micas have also gone. The last 35cm is slightly less altered and contains some orange to pink feldspars.				
33.65	35.85	2.20	100	Much finer grained porphyritic pink-white granite. Feldspars give the pink colouration. Quartz is mainly white or clear. Rock also contains some brown or black biotite.				
35.85	36.75	0.80	100	Highly altered, fine grained, white granite rock. Few minerals are recognisable due to degree of argillization but this is probably an aplite. The rock contains no biotite at all.				
36.75	47.95	11.20	100	Fine to medium grained, weakly porphyritic pinkish to white granite depending on degree of argillization. Pink is due to weak albitization in feldspars but this is white after alteration. Thin aplites? (approx. 15cm wide occur at 44.9m and 45.85m.)				
47.95	48.70	0.75	100	Aplite. Similar to that at 35.95m.				
48.80	60.55	11.85	100	Medium grained porphyritic granite. Pinkish-white to pinkish-green depending on degree of argillization of sericitization producing the green micaceous material. Zone of very strong argillization (really just a clay and sand pug) occurs between 52 and 55m. and 58.0-58.85m.				
				60.55-121.0 FRESH ADAMELLITE WITH MINOR SERICITIC ALTERATION AROUND JOINTS AND VEINS.				
60.55	62.25			This interval is fresh but albitized pinkish to grey porphyritic granite. The albitization decreases from top to bottom of interval. Feldspars are up to 4cm long. Minor sericitic alteration is also seen				

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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 179

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA				
From	To	m	%		Sample No.	From	To	Rec. %	
				seen around joints and veins.					
62.55	121.0	58.45	100	Essentially unaltered grey, medium grained strongly porphyritic					
				granite. Feldspars 3-4cm long are quite common and mica rich black					
				xenoliths are also seen. Weak sericitic alteration if found around					
				the joints and thin veins cuttling the granite.					
				END OF HOLE 121.0m.					

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ULV. PRESS

CORE IN BURNIE

HOLE NO. :	B.T. 180
STATE :	TASMANIA

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

PROJECT	BLUE TIER
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	J.W. BEDDOWS
COMMENCED	8/5/84
COMPLETED	18/5/84

PURPOSE

To test the possibility of there being a mineralized alkali granite cupola in the North Liberator area.

LOG SUMMARY	0.0 - 99.0 WEAKLY ALTERED POIMENA ADAMELLITE WITH GREISEN, APLITE AND PEGMATITE.
GENERAL COMMENTS	99.0 - 99.6 TRANSITION ZONE BETWEEN POIMENA AND ALKALI GRANITE. 99.6 - 121.56 WEAKLY GREISENISED ALKALI GRANITE. 121.56- 139.7 ALKALI GRANITE.

ASSAY SUMMARY

INTERVAL From	INTERVAL To	Sn	WO_3											COMMENTS
20.0	32.0	40	30											
99.0	130.0	55	60											

LOCATION

NORTHING	36845
EASTING	82235
R.L.(approx.)	560
GRID	A.M.G.
LENGTH	139.7

HOLE CONDITION

SIZE Hole Size	Depth
HQ	0.0-3.0
NQ	3.0-11.5
BQ	11.5-139.7

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost

POOR GROUND CONDITION ZONES From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

Hole open. Stormwater pipe about 1m above surface.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L. approx.	HORIZONTAL D. Cos. Dip	Prog. Total	SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D. Sin. Dip	R.L.	HORIZONTAL D. Cos. Dip	Prog. Total
41.0	-	89.0	0.0	41.0	41.0	41.0	519												
89.0	-	90.0	41.0	89.0	48.0	48.0	471												
137.0	-	90.0	89.0	139.7	50.7	50.7	420.3												

65274

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 180

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARIZED LOG.				
0.0	16.3			WEATHERED AND WEAKLY ALTERED POIMENA ADAMELLITE.				
16.3	99.0			WEAKLY ALTERED POIMENA ADAMELLITE, OCCASSIONAL WEAKL GREISENS, APLITES AND PEGMATITES.				
99.0	99.6			CONTACT - TRANSITION ZONE BETWEEN ADAMELLITE AND ALKALI GRANITE.				
99.6	121.56			WEAKLY GREISENIZED ALKALI GRANITE.				
121.56	139.7			UNALTERED TO WEAKLY ALTERED ALKALI GRANITE.				
				DETAILED LOG				
				0.0-16.3 WEATHERED AND WEAKLY ALTERED ADAMELLITE.				
0.0	14.2	12.53	88	Weathered and weakly altered, brown, porphyritic granite, with feldspar crystals 4-5cm long. Iron staining is very strong around joints and veins.				
14.2	16.3	1.85	88	Weakly greisenized and sericitized porphyritic granite that is quite iron stained due to the large number of veins in the section. The veins are probably the cause of the alteration and weak greisenization.				
				16.3-99.0 WEAKLY ALTERED POIMENA ADAMELLITE, OCCASSIONAL WEAKL GREISEN, APLITE, PEGMATITE.				
16.3	20.2	3.8	97	Weakly greisenized grey, medium grained porphyritic granite.				
20.2	24.9	4.63	99	Greisen, associated with an almost vertical vein in the top 1.5m, but the last 2m is solid greisen but may still be associated with a wide vertical vein.				

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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

ULV. PRESS

PROJECT: BLUE TIER

HOLE NUMBER: B.T. 180

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %	Sn	WO_3
24.9	31.98	6.43	91	Weakly altered and greisenized grey-green, medium grained porphyr-	3718	20.0	122.0		50	30
				itic granite. Feldspars up to 3cm long, quartzes grey to clear and	3719	122.0	124.0		50	30
				biotite makes up the remaining mineralogy. Edges of crystals are	3720	124.0	126.0		30	40
				becoming less distinct due to greisenizing effect and sericitic	3721	126.0	128.0		30	20
				alteration of feldspars produce the green colour.	3722	128.0	130.0		30	30
					3723	130.0	132.0		70	20
31.98	33.56	1.58	100	Very fine grained white granite with aggregate of biotite up to		105.0				
				1cm across. The rock is composed entirely of pinkish-white feldsp-						
				ars and quartz. Probably an aplite, and has veins of pegmatite						
				cutting it at 31.98, 32.58, 33.17, 33.53m for 2-3cm.						
33.56	99.0	66.44	100	Grey, porphyritic, medium grained granite. Occasional white feld-						
				spar up to 5cm long but more commonly 1-3 cm. Quartz is grey in						
				phenocrysts but clear in ground mass. Small aplite vein or dyke						
				about 20cm wide cuts core at 46.12. Due to the presence of a nearly						
				vertical vein or joint system the granite between 73.32 and 98.2						
				has been weakly altered and a thin coating of sericite coats the						
				vein surface. The majority of feldspars in the groundmass are						
				now tinged green due to the sericitic alteration. A 4cm wide peg-						
				matite vein cuts core at 97.95m.						
				99.0-99.6 CONTACT ZONE	3724	99.0	100.0		60	70
					3725	100.0	101.0		60	30
99.0	99.6	0.6	100	Pegmatitic contact zone between the granite described above and	3726	101.0	102.0		50	50
				the alkali granite. The first 25cm is comprised entirely of coars-	3727	102.0	103.0		50	60
				ely crystalline pink feldspar and grey quartz. The remainder of	3738	103.0	104.0		50	90
				the contact is comprised of patches of pegmatite and intervals	3729	104.0	105.0		50	60
				of Poimena and alkali granite. A quartz filled vein network runs	3730	105.0	106.0		50	70
				through the zone and limonite is developed around them.	3731	106.0	107.0		50	40
					3732	107.0	108.0		180	70
				99.6-121.56 WEAKLY GREISENIZED ALKALI GRANITE.	3733	108.0	109.0		50	120
					3734	109.0	110.0		50	80
99.6	104.48	4.88	100	Pinkish-white slightly greisenized alkali granite. Pinkish colon-	3735	110.0	111.0		50	50
				ation due to the presence of some pink as well as the more common	3736	111.0	112.0		50	50
				white. Quartz is white to clear and a green or brown biotite is	3737	112.0	113.0		40	30

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GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 180

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				quite common. The rock is fine grained and equigranular.
104.48	111.8	6.32	100	Weakly greisenized grey-white fine grained equigranular granite. Quartz is now more grey in colour and there is slightly more biotite. 110.42-110.57. Very fine grained highly siliceous rock with small aggregates of biotite. Very little feldspars in the composition.
111.8	118.0	6.2	100	Weakly to moderately greisenized light greenish grey equigranular granite. The strength of greisenization appears to increase around veins that cut this intersection. These veins are quartz filled and in some cases have a thin halo of limonitic clays. The infilling quartz is grey-brown.
118.0	121.56	3.56	100	Weakly to moderately greisenized green alkali granite. The green colour is due to the sericitisation of feldspars in the groundmass.
				121.56-139.70 UNALTERED TO WEAKLY ALTERED ALKALI GRANITE.
121.56	139.70			Very weakly greisenized to unaltered grey-white fine grained equigranular granite composed of white feldspars, grey/clear quartz and green to black biotite. Pegmatite veins are located at 130.13 for 2cm, 131.05 for 30cm, 137.90 for 18cm and 138.20 for 12 cm.
				END OF HOLE 139.7m.

ASSAY DATA

Sample No.	From	To	Rec. %	Sn	WO_3
3738	113.0	114.0		40	120
3739	114.0	115.0		30	40
3740	115.0	116.0		30	60
3741	116.0	117.0		30	40
3742	117.0	118.0		80	50
3743	118.0	119.0		50	60
3744	119.0	120.0		50	80
3745	120.0	122.0		60	60
3746	122.0	124.0		80	60
3747	124.0	126.0		60	70
3748	126.0	128.0		50	60
3749	128.0	130.0		60	50

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