



## SUMMARY

Exploration licences 102/87-QUEENSTOWN and 55/89-MT. DARWIN cover a 14 km N-S trending exposure of Cambrian Mt. Read Volcanics from Lake Margaret south to Sth Darwin Peak on the West Coast of Tasmania. The tenements are held by BHP Minerals Ltd. and explored by RGC Exploration under a joint venture agreement entered into on 29th November, 1991. Their total area is 183 sq km which is explored as a single coherent block.

Previous explorers have concentrated their efforts on the discovery of Cambrian volcanogenic-hosted massive sulphide mineralisation, a style of mineralisation for which the Mt. Read Volcanics are world renown. Secondary targets have been Mt. Lyell style Cu mineralisation and gold.

Work completed by BHP Minerals more recently relied heavily on the results of blanket UTEM coverage in two main areas, West Sedgwick and Garfield/Clark Valley. An important issue in the Garfield area has been the construction of the Garfield Track. The culmination of BHP Minerals' work was the drilling of a UTEM conductor in the Garfield area, the results of which were disappointing.

RGC Exploration is exploring the tenements using a multidisciplinary and task force approach which has at its foundation the generation of the best geological map possible. Work to date has concentrated on the two main areas worked previously by BHP Minerals because they have been extensively gridded.

West Sedgwick

Work completed here included 1:5,000 scale geological mapping/rock chip sampling with selected areas covered with soil sampling. A zone of variably base-metal anomalous alteration has been located within a package of andesitic sediments that appears to be an extension of a similar zone on the Mt. Lyell Mine lease at Comstock.

It is proposed that this zone be drilled out over the next twelve months targetting massive sulphide mineralisation at depth.

Garfield/Clark Valley

A helicopter-borne programme was completed here which included 1:5000 scale geological mapping/rock chip sampling and wide spaced coverage by soil sampling. Work concentrated on the western contact of the Central Volcanic Complex where field relationships suggest the Yolande Sequence is younger. The Yolande Sequence itself is more lava dominated than similar exposures to the north and a number of andesites mapped appear to show an affinity to the Lynch Creek intermediate to mafic complex. Very little hydrothermal alteration was observed. A detailed compilation of the data collected here is proposed to define, initially, stratigraphic drilling targets.

Ongoing throughout the tenements will be a programme of regional reconnaissance to identify other areas worthy of more detailed, grid based investigations.

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2. Garfield/Clark Valley rock chip geochemistry
3. West Sedgwick rock chip geochemistry
4. West Sedgwick soil geochemistry
5. WS4 Drill Log

FIGURES

<u>No.</u>	<u>Drawing I.D.</u>	<u>Title</u>	<u>Scale</u>
1	5532/147	EL's 102/87 & 55/89-Locality Map	1:250,000
2a	5532/147	EL's 102/87 & 55/89-Land Tenure	1:250,000
2b	5532/147	EL's 102/87 & 55/89-Land Tenure	1:250,000
2c	-	EL's 102/87 & 55/89-Land Tenure Legend	-
3	5532/147	EL's 102/87 & 55/89-Regional Geology	1:250,000

PLANS

<u>No.</u>	<u>Drawing I.D.</u>	<u>Title</u>	<u>Scale</u>
2	5532/007	Garfield/Clark Valley-Factual Geology Sheet 3C	1:5,000
3	5532/008	Garfield/Clark Valley-Factual Geology Sheet 4A	1:5,000
4	5532/135	Garfield/Clark Valley-Factual Geology Sheet 4C	1:5,000
5	5532/142	Garfield/Clark Valley-Factual Geology Sheet 5A	1:5,000
6	5532/005	Garfield/Clark Valley-Rock Chip Sample Locations Sheet 3C	1:5,000
7	5532/006	Garfield/Clark Valley-Rock Chip Sample Locations Sheet 4A	1:5,000
8	5532/134	Garfield/Clark Valley-Rock Chip Sample Locations Sheet 4C	1:5,000
9	5532/136	Garfield/Clark Valley-Rock Chip Sample Locations Sheet 5A	1:5,000
10	5532/145	West Sedgwick-Factual Geology, Margaret Sheet	1:5,000
11	5532/146	West Sedgwick-Factual Geology, Mine Sheet	1:5,000
12	5532/001	Comstock-Rock Chip Sample Locations Sheet 1	1:10,000
13	-	West Sedgwick-Soil Sample Locations	1:5,000
14	-	West Sedgwick-Soil Geochemistry Cu-Pb-Zn-Ba	1:5,000
15	-	West Sedgwick-Soil Geochemistry K-Na-As-Sb	1:5,000
16	-	West Sedgwick-Soil Geochemistry V-Ti-P-Ni	1:5,000

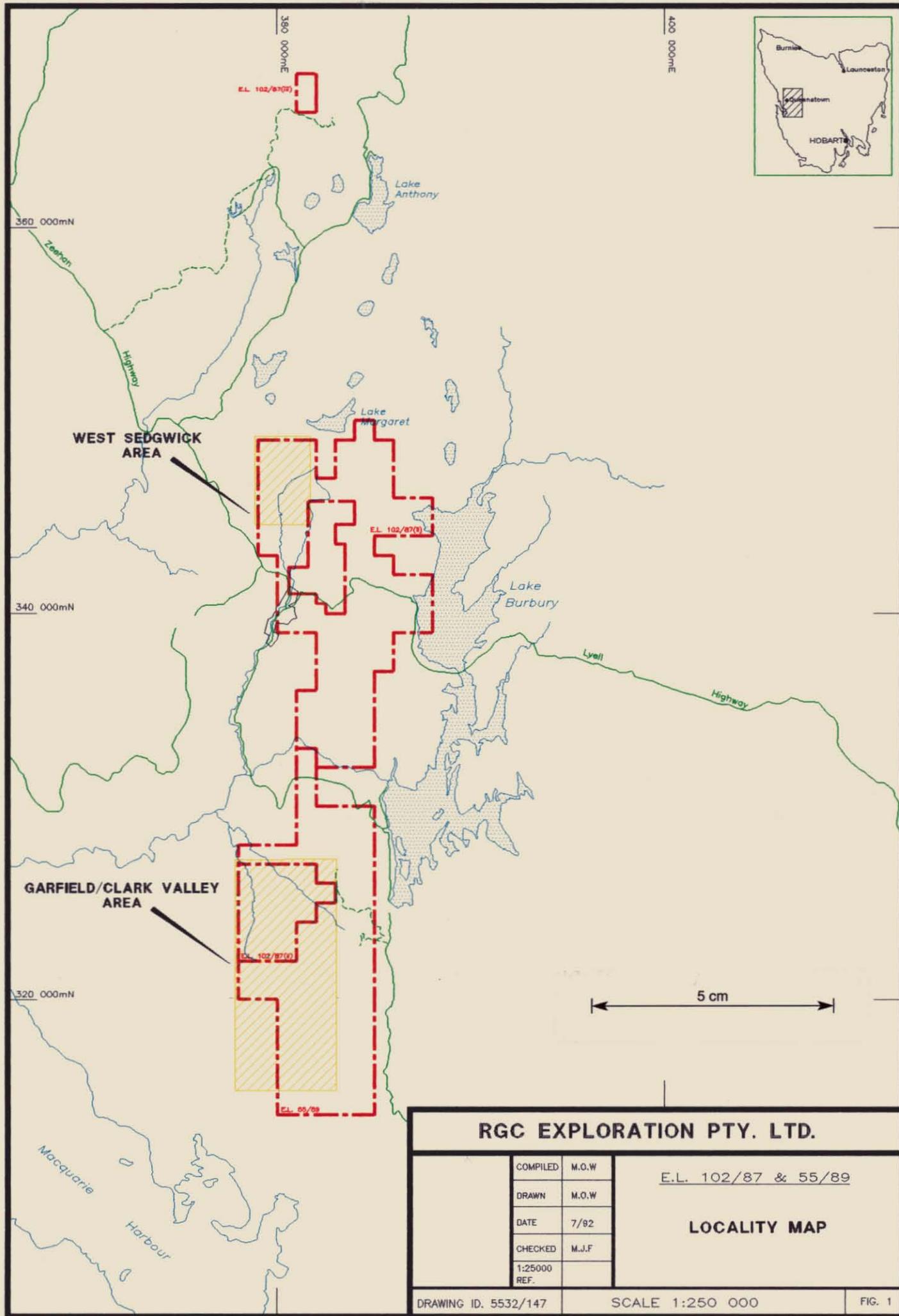
1. INTRODUCTION

Exploration licences 102/87 - QUEENSTOWN and 55/89 - MT. DARWIN are held by BHP Minerals Ltd (BHPM) and are explored by RGC Exploration Ltd. (RGCE) under the terms and conditions of a joint venture agreement. This report details the work completed by both BHPM and RGCE between the period April 1991 to March 1992. Approval has been granted previously to BHPM allowing the joint reporting of the exploration work because the tenements form a single coherent geological block.

The tenements currently occupy a total area of 183 sq kms surrounding Queenstown on the West Coast of Tasmania, extending to the north, in part, some 30 kms to Moxon Saddle and to the south some 25 kms to South Darwin Peak (Figure 1). They cover a significant portion of the highly prospective Cambrian Mt. Read Volcanics centred here on the West Coast Range. These rocks host a variety of significant mineral occurrences:

- (i) Zinc - volcanogenic-hosted massive sulphide deposits, e.g. Hellyer, Que River, Rosebery, Hercules and Tasman Crown;
- (ii) Copper - Mt. Lyell style mineralisation;
- (iii) Gold - Henty style mineralisation;

Much of the previous work targetted copper-gold mineralisation of the Mt. Lyell style. More recently BHPM covered selected areas with blanket UTEM looking for VMS mineralisation. This was supported by some geological mapping and rock chip/stream sediment geochemistry. It would appear that decisions on the future of the tenements were based primarily on the results of the UTEM surveys. RGCE's interest in the area is also directed toward the



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E.L. 102/87 & 55/89

**LOCALITY MAP**

DRAWING ID. 5532/147

SCALE 1:250 000

FIG. 1

discovery of significant VMS mineralisation. The approach we have developed relies on recognising fertile volcanic ore-forming environments by undertaking detailed geological mapping together with a variety of geochemical techniques including multielement analysis of rock chip and soil samples, and isotope studies. An important element of this strategy is designing stratigraphic drilling to test conceptual fertile environments at depth, especially below 200m which is considered to be the maximum depth penetration of current UTEM techniques.

The work described in this report has been undertaken in two areas, West Sedgwick and Garfield/Clark Valley. At West Sedgwick a grid constructed by BHPM was geologically mapped, rock chip sampled and selected areas were covered by C-horizon soil sampling. At Garfield/Clark Valley a major helicopter supported programme enabled this area, also gridded by BHPM, to be geologically mapped, rock chip and soil sampled.

## 2. LAND TENURE

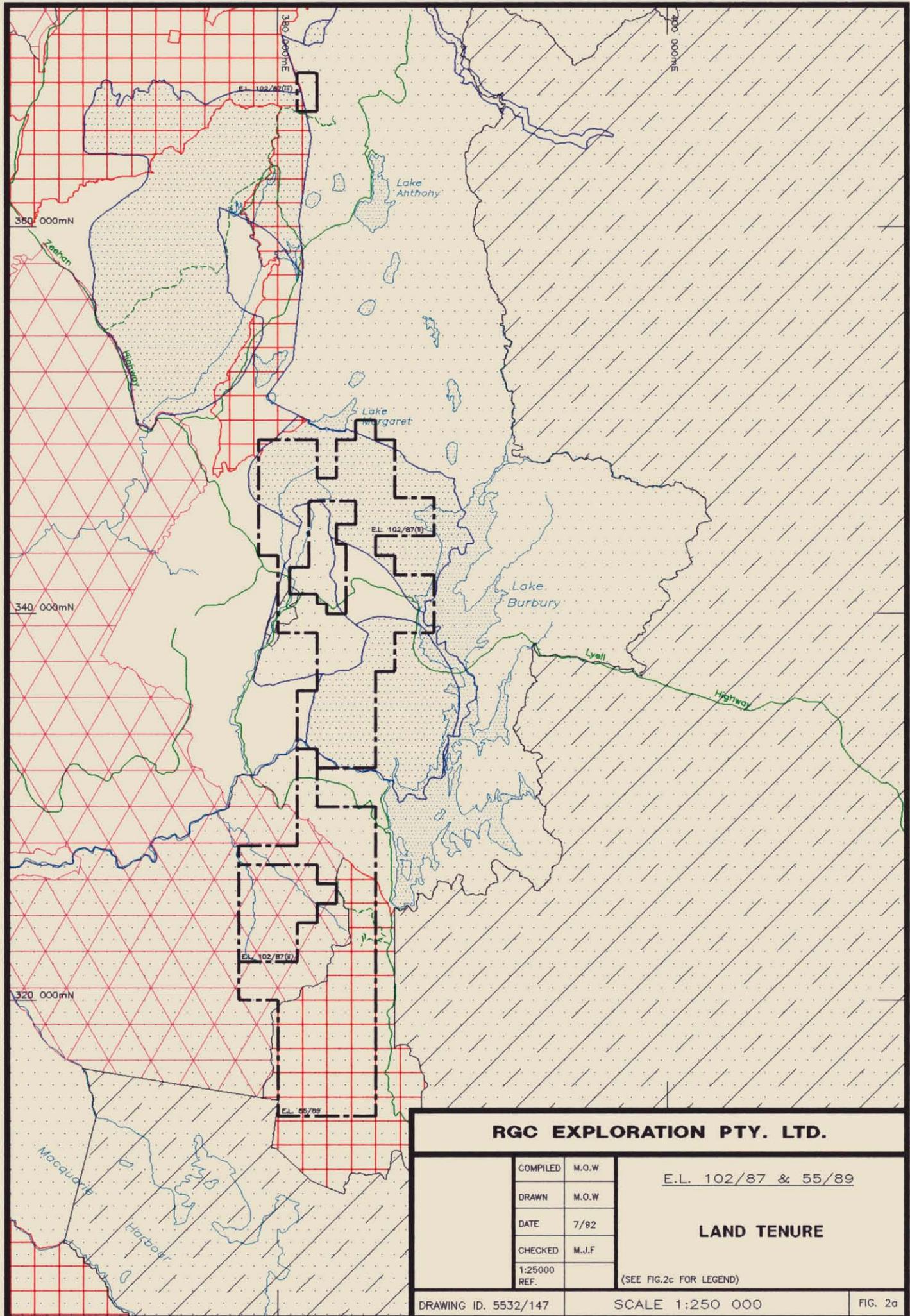
E.L. 102/87-QUEENSTOWN was granted to BHPM on 22nd April, 1988. The tenement initially covered 95 sq kms in three separate parts (Figure 1):

- Part (i) - Queenstown of 74 sq kms
- Part (ii) - Garfield of 19 sq kms
- Part (iii) - Moxon Saddle of 2 sq kms

Part (i) totally encloses the Mt. Lyell Mine Lease, 30M/80. In 1988 Mining Lease Application areas (MLA's) were cancelled by Mt. Lyell increasing the area of Part (i) to 79 sq kms. Again in early 1992 additional MLA's were relinquished further increasing Part (i) to 84 sq kms. This tenement currently covers 105 sq kms and is due for 50% reduction on or before 22nd April, 1993. A meeting with representatives of the Department of Mines Tasmania (DMT) was held on 15th April, 1992 where RGCE expressed its interest in postponing the reduction date by 12 months due to its recent entry into the Agreement with BHPM.

E.L. 55/89-MT. DARWIN was granted to BHPM on 5th May, 1990. This tenement covers 78 sq kms and links Parts (i) & (ii) of E.L. 102/87 (Figure 1) resulting in a continuous exposure of Mt. Read Volcanics over a strike length of 14 sq kms which is explored as a single coherent block. Because of this BHPM was successful in gaining approval from the DMT to jointly report on exploration activities (15th March, 1991).

Figures 2a, 2b & 2c give an overview of the current land tenure status. A significant portion of the tenements (approx. 55%) occurs within the South-West Conservation Area (SWCA) and is designated "sensitive". All exploration activities proposed within the SWCA therefore must be approved by the Mineral Exploration Working Group (MEWG), which is made up of representatives from a number of Government Departments. The World Heritage Area boundary is



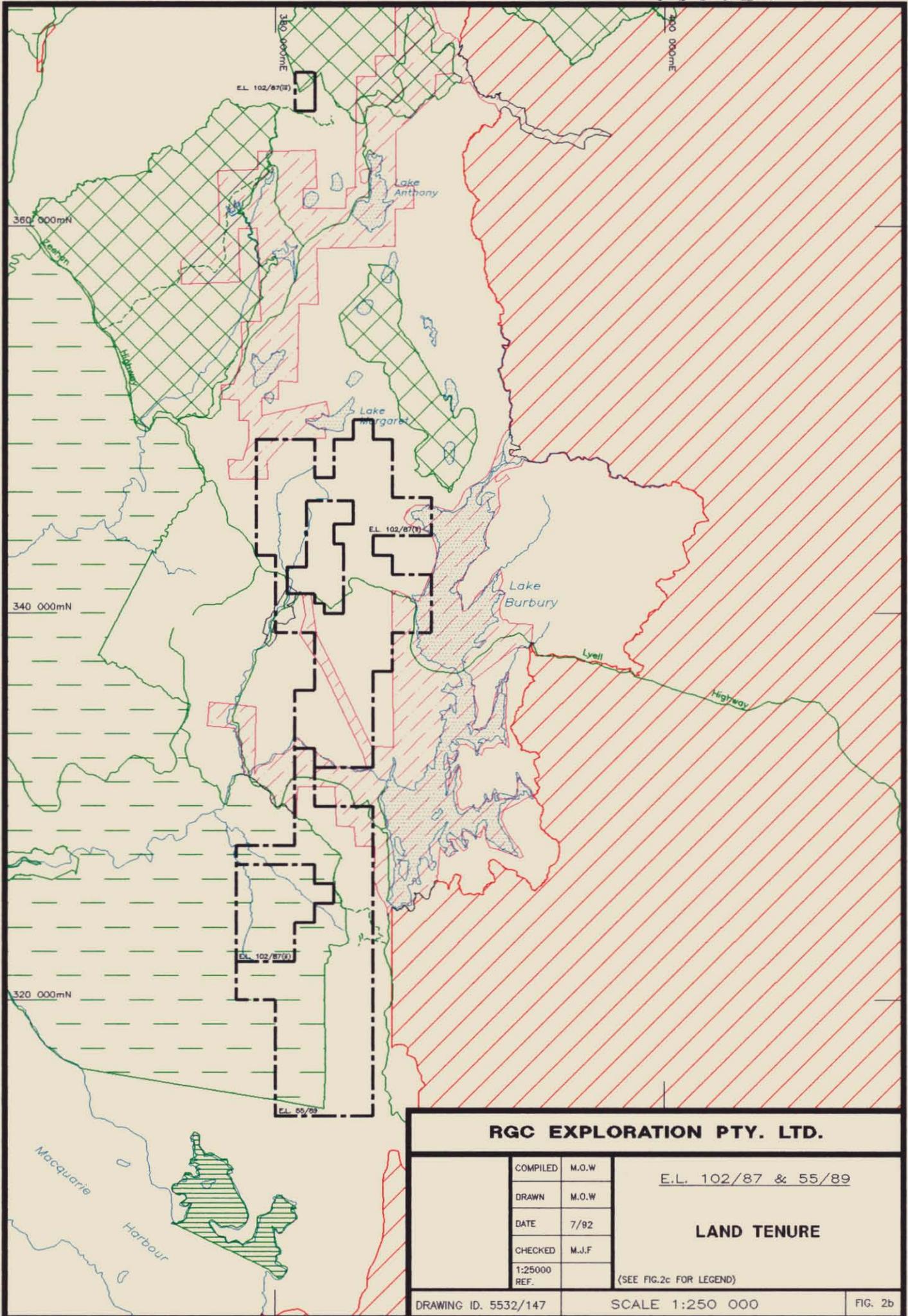
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E.L. 102/87 & 55/89

**LAND TENURE**

(SEE FIG.2c FOR LEGEND)



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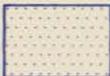
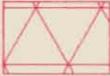
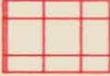
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E.L. 102/87 & 55/89

**LAND TENURE**

(SEE FIG.2c FOR LEGEND)

**LEGEND FOR LAND TENURE**  
**COVERING E.L.102/87 & 55/89**

	NOMINATED NATIONAL ESTATE
	REGISTERED NATIONAL ESTATE
	NATIONAL PARKS, STATE RESERVES
	STATE FORESTS, FOREST RESERVES
	HEC VESTED LAND
	CROWN RESERVES
	RECOMMENDED AREAS FOR PROTECTION
	MULTIPLE USE FOREST
	DEFERRED FOREST
	WORLD HERITAGE AREA

in close proximity to the south and south-eastern edge of E.L. 55/89.

The Agreement with BHPM, dated 29th Nov. 1991, commits Renison to spend a minimum of \$300,000 on exploration within the first year and then for subsequent years to meet the minimum statutory commitments imposed by the DMT. To complete the transfer of 70% interest in the tenements and be operators it is necessary for Renison to spend \$1.5M within five years as sole contributor to exploration expenditure.

### 3. PREVIOUS EXPLORATION

A good description of previous exploration in the Garfield/Clark Valley area is given by Cameron and Read (1991). From the 1880's to the 1930's, Huon Pine logging and prospecting activities occurred throughout the Garfield Valley and along the West Coast Range from Mt. Jukes to South Darwin Peak. Alluvial gold was discovered along the Garfield River and at Flannigans Flat (Nye, 1931). The present vegetation cover indicates that this area was repeatedly burnt off, probably by the early prospectors. During the early period, following the fires, most of this area would have been covered by buttongrass and open heath-land. This would have allowed easy access and good exposures for the early prospectors to investigate any surface indications of mineralisation. Since then, most of the area has been covered by thick re-growth.

Two hardrock prospects were found near the Thomas Currie Rivulet during this early period of prospecting. These prospects occurred along the contacts between Owen Conglomerate and felsic Central Volcanic Complex volcanics on Snake Spur. Sailor Jacks was a gold prospect with mineralisation occurring as pyritic quartz veins in sandstone on the north eastern side of the Snake Spur syncline. At the Snake Spur prospect, pyrite-chalcopyrite mineralisation was exposed in a costean on the south-western side of the syncline. Channel samples from the costean collected by Mount Lyell Mining in 1977-78 gave values of 8m at 0.96% Cu.

#### Garfield

Modern exploration commenced in the Garfield Valley in 1975 when EZ carried out a limited amount of stream sediment sampling. In 1977-78, Mt. Lyell conducted soil and drainage sampling along widely spaced cut traverse lines. All basemetal values were low except for one stream sediment with 330ppm Pb. Re-sampling gave values of 50 and 60ppm.

Beginning in 1984 Goldfields Exploration started more detailed work in the Garfield area. They undertook reconnaissance mapping and rock chip sampling, and pan concentrate/-80 mesh stream sediment sampling at a sample density of one per 2km<sup>2</sup> drainage. Samples were analysed for Cu, Pb, Zn, Ag, Sn, W and Au. Base metal values were generally very low. One stream Pb anomaly in an area of glacial cover was traced to minor galena-pyrite veinlets on the side of Mt. Jukes.

An area of low-level stream gold anomalism was identified in the vicinity of the Snake Spur costean, and another anomalous area in Flannigans Creek. A grid was cut in the Snake Spur area. It was mapped and wacker sampled. A UTEM III survey was conducted. All responses appeared to be superficial, related to clay horizons in the glacial cover and perhaps weathered limestone in the axis of the syncline. A wacker Au anomaly (0.46ppm max) was tested with two holes, SS1 and SS2/2A.

The holes were tested with downhole EM, but nothing of interest was located.

A small grid was also cut in the Flannigans Valley. This grid was wacker sampled at 10m intervals. There were spotty gold values up to 0.44ppm, but base metal values were very low. There were no coherent geochemical anomalies.

Mapping outlined an area of schistose sericite-pyrite alteration on the Currie-Garfield divide. However all rock chip samples from this area had Pb <100ppm, Zn <300ppm and gold below the detection limit. Stream sediment samples from this area had Cu, Pb and Zn all <20ppm.

In 1990/91, BHP cut the Garfield/Clark Valley grid and covered the area with a UTEM survey. It was also mapped at 1:5000 scale and rock-chip sampled. A UTEM anomaly in the Thomas Currie Valley was drill tested (TC 01, 148m). This hole intersected carbonaceous bands within Gordon Limestone and was considered to have adequately explained the anomaly.

The Garfield Track totalling approx. 5km in length was constructed in Oct/Nov 1989. An extension of the Intercolonial Spur track of approx. 2km was previously proposed, however the country on inspection was found to be too steep. The final position of the Track was close to an old pack horse trail, and a number of conditions were imposed on its construction by the MEWG:

- erect a boom gate which is to be kept locked at all times;
- the route is to be pre-cut by hand;
- all machinery to be washed with ABF-42, or equivalent, prior to their entry;
- no open fires permitted; and
- its construction to conform to the Forestry Commission Class 4 standard.

Additional upgrading of the Track was completed in early 1990, especially on a steep portion of it known as the "Hill Section". It appears that BHPM did not strictly adhere to the Class 4 standard during the Track's construction. A two vehicle ferry system was established for the 1990/91 programme to minimise travelling on the "Hill Section".

In April 1991 the MEWG representatives examined the Track and stated that if it was to be used in 1991/92 then it would require upgrading to Class 4.

Clark Valley

Most of the early exploration in this region concentrated on the copper mineralisation on the top of the range from Mount Jukes to South Darwin Peak. The first exploration within Clark Valley was a joint venture between EZ, BHP and International Nickel Australia Ltd. They carried out a program of stream sediment sampling and geological mapping in the Clark Valley and the headwaters of the Garfield Valley. The results of this work were not encouraging.

Goldfields Exploration established a grid in the Clark Valley in 1977. The grid was mapped, rock chip sampled and soil sampled. Over 1000 geochemical samples were collected and indicated a low background level of base metals.

A gradient array IP survey was conducted by Scintrex and a ground magnetic survey was also completed. A number of anomalous zones were identified and these co-incided with areas where black shales were mapped.

West Sedgwick

In 1958 Rio Tinto Australian Exploration Pty. Limited (RTAE) explored north of the Mount Lyell mine lease looking for copper mineralisation. They conducted a Turam EM survey along grid lines roughly normal to the Owen Conglomerate-Mount Read Volcanics contact. The most significant anomaly located was just north of Zig Zag Hill beneath the south-western corner of Sedgwick Bluff. This was followed up with geological mapping, stream sediment and soil geochemistry, ground magnetics and a gravity survey. The mapping revealed weak Mt. Lyell style alteration exposed through the conglomerate scree. The geochemical investigations were relatively crude, with field testing for Cu, Pb and Zn using dithizone. Some low levels of Pb were detected coinciding with the Turam anomaly. The gravity results were degraded by the topography and poor survey control.

In 1962 RTAE in association with EZ completed a 3 electrode array IP survey along six grid lines but no response was recorded over the EM anomaly.

The area was pegged by Pickands Mather (PMI) in 1965. They covered the area with reconnaissance geological and stream sediment geochemical surveys particularly along the contact between the volcanics and the conglomerate. A reconnaissance 500 feet dipole IP survey was conducted parallel to the contact by McPhar Geophysics in 1968. A moderate response was recorded in the vicinity of the Turam anomaly.

Mt. Lyell acquired the ground in 1971. The West Sedgwick area was gridded, geologically mapped and surveyed by gradient array IP, magnetics and soil geochemistry. Several targets were identified within the Yolande Sequence. These were drilled, but most related to pyritic black shales.

In 1980-81, part of the Comstock Grid covered Zig-Zag Hill. This was surveyed by Scintrex with gradient array IP and ground magnetics. In 1985 the area was remapped and rock chip sampled. The RTAE Turam anomaly was retested by a Sirotem survey. In 1987 a hole (WS4) was drilled to 230m to test the anomaly. No significant assays were returned from this hole.

BHP acquired this area as part of EL 102/87. They established a new grid (West Sedgwick Grid) and surveyed the area with UTEM. Parts of the old Comstock Grid were re-cleared and surveyed with UTEM as part of the Comstock Valley survey. No significant conductors were detected in the West Sedgwick area although a weak conductor from the Comstock survey was correlated with the West Sedgwick Fault.

Summary of Previous Exploration by Goldfields Exploration and BHPE.L. 41/71 (Sheppard, 1972)

West Sedgwick

Access:- gridding commenced

Geology:- mapping

Geophysics:- limited vertical field magnetics

Geochemistry:-limited soil

E.L. 41/71 (Sheppard, 1974)

West Sedgwick

Access:- gridding

Geology:- detailed mapping, petrology

Geophysics:- gradient array IP (Scintrex) - 4 major  
anomalies, total field magneticsGeochemistry:-limited rock chip over Margaret Tram, massive  
pyriteE.L. 41/71 (Sheppard, 1975)

West Sedgwick

Access:- gridding extended

Geology:- detailed mapping

Geophysics:- gradient array IP, proton magnetics (Scintrex)  
- 22 anomaliesGeochemistry: - detailed soil, limited stream sediment and  
rockE.L. 41/71 (Brophy and Stevens-Hoare, 1976)

West Sedgwick

Geochemistry:-soil (grid extensions)

E.L. 41/71 (Meares, 1977)

West Sedgwick

Access:- gridding extended

Geophysics:- gradient array IP, pole-dipole IP (Scintrex) -  
2 major anomalies

Geochemistry: - detailed soil

Drilling: - WS1 commenced

E.L. 41/71 (Meares, 1978)

## West Sedgwick

Drilling:- WS1 (92m) abandoned  
          WS2 (224m) - only minor pyrite  
          WS3 (260m) - pyritic black shale,  
                          unmineralised

E.L. 21/76 (Hutton, 1978)

## Snake Spur - Currie

Access:- helipads and tracks cut, helicopter supported  
Geology:- reconnaissance mapping, sampling Snake Spur  
          Costean, petrography  
Geochemistry:- limited stream sediments, rock chip Snake Spur  
                  costean - 8m @ 0.96% Cu

## Garfield - Flannigans

Access:- helipads and tracks cut, helicopter supported  
Geology:- reconnaissance mapping, petrography  
Geochemistry:- limited stream sediment and rock chip

## Clark Valley

Access:- track cutting, gridding  
Geology:- mapping, petrography  
Geophysics:- gradient array IP, proton magnetics (Scintrex)  
              - four major anomalies  
Geochemistry:- detailed soil, rock chip

E.L. 9/66 (Reid et al., 1979)

## Clark Valley

Access:- upgrade road, in-fill and extended gridding,  
          helicopter support  
Geophysics:- gradient array IP, proton magnetics (Scintrex)  
              - total six main anomalies  
Geochemistry:- detailed soil, limited rock and stream  
                  sediment

E.L. 9/66 (Roberts and Cartwright, 1984)

## Snake Spur

Access:- helicopter support

Geology:- mapping, sampling (Poltock)

Geochemistry:-detailed stream sediment, limited rock chip -  
moderate Au anomalies

## Garfield-Flannigans

Access:- helicopter support

Geology:- mapping, sampling (Poltock)

Geochemistry:-detailed stream sediment, limited rock chip -  
moderate Au anomalies

E.L. 9/66 (FitzGerald and Pease, 1985)

## West Sedgwick

Geology:- limited mapping, sampling (Poltock)

Geochemistry:-detailed stream sediment - minor Au anomalies,  
restricted rock chip

## Snake Spur

Access:- gridding, helicopter support

Geology:- detailed mapping

Geophysics:- UTEM survey (Lamontagne) - no significant  
anomalies

Geochemistry:-stream sediment survey extended - confirm Au  
anomalies, detailed bedrock (Wacker) sampling -  
minor Au anomalies max 0.42 g/t Au

## Garfield-Flannigans

Access:- limited gridding, helicopter support

Geology:- additional mapping, sampling (Poltock)

Geochemistry:-detailed stream sediment, rock chip - two main  
Au anomalies, bedrock (Wacker) sampling - Au  
anomalies, max 0.46 g/t Au

E.L. 9/66 (FitzGerald and Cartwright, 1986)

## West Sedgwick

- Access:- re-establish grid (Comstock), new lines (West Queen), helicopter support
- Geology:- limited mapping (Komysan)
- Geophysics:- limited Sirotem, Zig Zag Hill (Solo) - weak anomaly
- Geochemistry:-reconnaissance bedrock (Wacker) West Queen - no anomalies, limited rock chip

## Snake Spur

- Access:- gridding extended, helicopter support
- Geology:- detailed mapping (Poltock), petrography SS1, 2A
- Geophysics:- down-hole Sirotem SS1, 2A (Solo) - no anomalies
- Geochemistry:-detailed bedrock (Wacker) - no major anomalies, max. 0.26 g/t Au
- Drilling:- SS1 (152m) - no significant assays  
SS2/2A (207m) - no significant assays, spurious Au values

## Flannigans

- Access:- gridding extended, helicopter support
- Geology:- detailed mapping, sampling (Poltock)
- Geochemistry:-detailed bedrock (Wacker) - no major anomalies, limited rock sampling - max 0.26 g/t Au in Owen Conglomerate

E.L. 9/66 (FitzGerald, 1987)

## West Sedgwick

- Access:- cut helipad, helicopter support
- Drilling:- WS4 (230m) - Sedgwick Fault, no significant assays

E.L. 102/87 (Wilde and Kerr, 1989)

West Sedgwick

Access:- gridding (107 line km)

Geophysics:- UTEM survey (Lamontagne) - no significant anomalies

E.L. 102/87 (Wilde and Kerr, 1990)

West Sedgwick

Geophysics:- reinterpretation of UTEM survey

E.L. 102/87 (Wilde and Kerr, 1990)

Garfield

Access:- gridding (70 line km)

E.L. 102/87 & E.L. 55/89 (Cameron and Read, 1991)

Garfield

Access:- gridding extended into Clark Valley

Geology:- 1:5000 scale mapping

Geophysics:- UTEM survey, Lamontagne (185 line km) - Currie anomaly followed up by detailed UTEM survey

Geochemistry:-164 rock chip samples - low base metals

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- 1988-89 Wilde, A.R., and Kerr, T.L.
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- 1990-91 Cameron, J., and Read, J.

4. REGIONAL GEOLOGY (after Burrett & Martin eds, 1989)

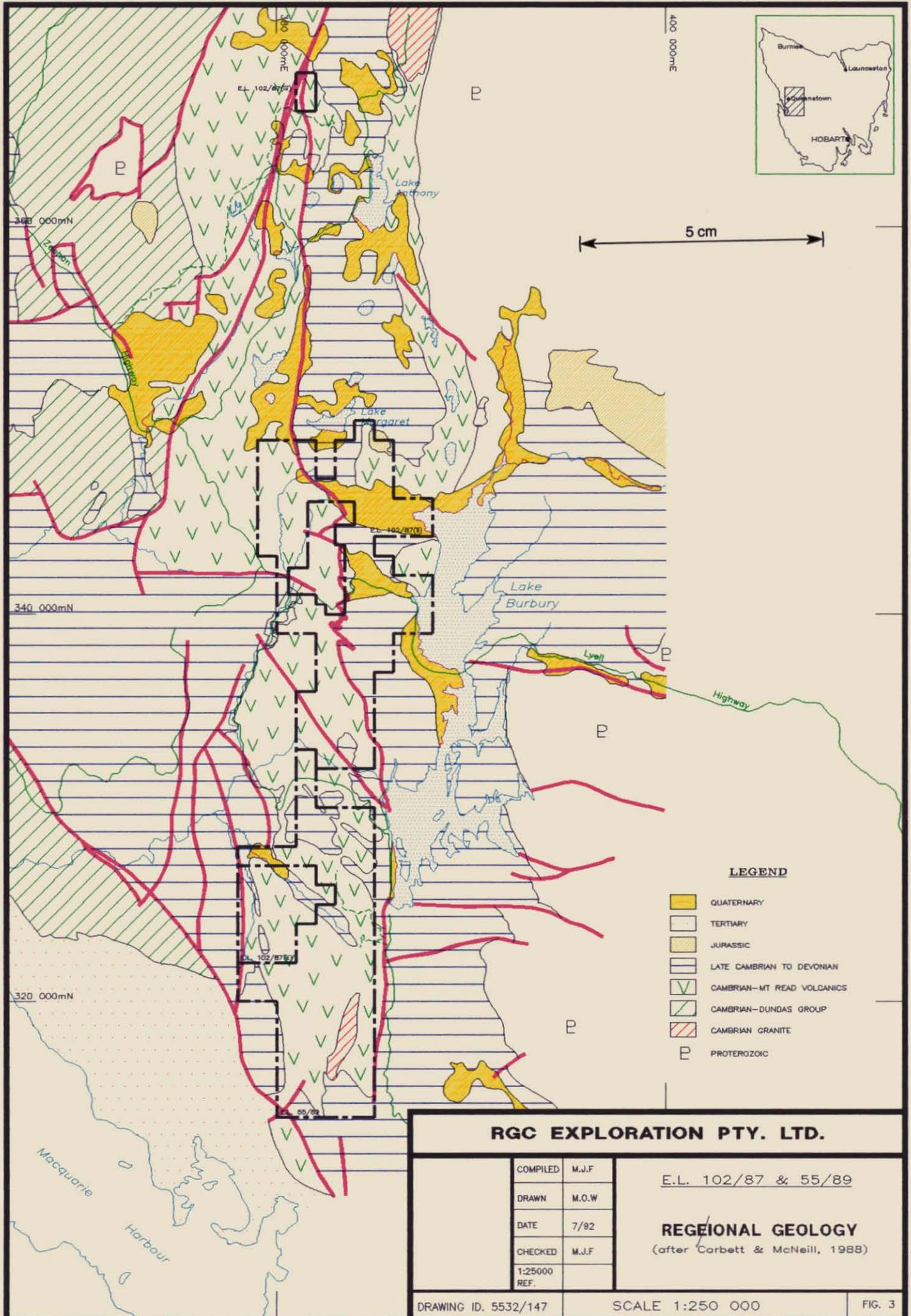
Rocks exposed within the tenement area are predominantly Cambrian Mt. Read Volcanics. These rocks host a number of world-class volcanogenic-hosted massive sulphide and related deposits, making it one of the most intensely mineralised provinces of its kind.

4.1 Stratigraphy (Figure 3)

Proterozoic

The Precambrian Tyennan region applies to a belt of dominantly metasedimentary rocks exposed to the east of the tenements extending from Cradle Mountain in the north to the south coast. The rocks are folded, closures ranging from open to isoclinal, and regionally metamorphosed. They have been divided into two assemblages:

- i) a quartzite - chloritic pelite assemblage of lower greenschist facies. The constituent lithologies are massive and schistose quartzite, phyllite, and a fine-grained quartz-mica schist (quartzose phyllite). The quartzite commonly exhibits mortar texture and its major constituents are quartz and minor phengite with little albite+chlorite+biotite. Massive varieties display in places sedimentary structures such as cross-bedded layers and symmetrical ripple marks; and
- (ii) a garnetiferous schist - quartzite (-amphibolite) assemblage of upper greenschist to eclogite facies. The schist contains quartz, muscovite, albite and garnet (almandine) plus common biotite. Primary chlorite is widespread and secondary chlorite is common as an alteration product of garnet. Quartzite generally contains altered garnet and is conspicuous with its absence of sedimentary structures. Amphibolite (actinolite-almandine-



**LEGEND**

- QUATERNARY
- TERTIARY
- JURASSIC
- LATE CAMBRIAN TO DEVONIAN
- CAMBRIAN—MT READ VOLCANICS
- CAMBRIAN—DUNDAS GROUP
- CAMBRIAN GRANITE
- P PROTEROZOIC

**RGC EXPLORATION PTY. LTD.**

COMPILED	M.J.F.
DRAWN	M.O.W.
DATE	7/82
CHECKED	M.J.F.
1:25000 REF.	

E.L. 102/87 & 55/89

**REGIONAL GEOLOGY**  
(after Corbett & McNeill, 1988)

DRAWING ID. 5532/147

SCALE 1:250 000

FIG. 3

quartz with minor biotite, albite, sphene & ilmenite) occurs either as boudins (massive) or as schistose tabular bodies concordant with the main foliation ( $S_1$ ). It forms <1% of the assemblage.

The rocks display relationships which suggest they may be derived from a single orogenic pile possessing lithologies characterised by quartzarenite.

### Cambrian

The tenement is centred on a 10-15 km wide belt of felsic, intermediate and minor mafic volcanics known as the Mt. Read Volcanics (MRV) which forms the eastern edge of the Dundas Trough. These volcanics are general high-K to medium-K calc-alkaline rocks possessing high Ba (500-3000 ppm) and Zr (>150ppm) levels. The belt strikes broadly N-S and to the east where the contact is exposed it rests unconformably on the Proterozoic Tyennan region and interfingers Dundas Trough sediments to the west.

Rock types vary between volcanoclastics, epiclastics, lavas and intrusive bodies, all of which are typically porphyritic. Feldspar phenocrysts are universal and are commonly glomeroporphyritic. Quartz phenocrysts are abundant when present, their absence in the Central Volcanic Complex (CVC) is a diagnostic feature, and are commonly embayed. Hornblende and pyroxene phenocrysts are present in the andesites and basalts. Plagioclase is almost always albite, however at times there is a suggestion of a more calcic original composition. Devitrification textures such as spherulites and snow-flakes are common and reflect the original glassy nature of many of the rocks.

The original rock is always modified. Local intense hydrothermally altered zones formed in the Cambrian adjacent to major faults, the Henty Fault Zone and the Great Lyell Fault. Evidence suggests a period of deformation in

Cambrian-Ordovician times. Pervasive regional lower greenschist facies metamorphism, with ubiquitous sericite and chlorite alteration associated, and deformation occurred in the Devonian.

In the area of the tenements the MRV can be separated into four major sequences (K.D. Corbett, pers. comm., Aug. 1991).

- (i) Tyndall Group (TG) - regarded as the youngest sequence, fossil evidence giving an age of middle Cambrian;
- (ii) Central Volcanic Complex - a centrally located spine to the belt of volcanics;
- (iii) Western Sequence (WS) - a sequence of volcano-sedimentary units that interfingers the CVC to the east and Dundas Group sediments to the west; and
- (iv) Eastern Quartz-phyric Sequence (EQPS) - interfingers with the CVC to the west and lies conformably on the Sticht Range Beds to the east.

#### Central Volcanic Complex

The CVC forms a narrow, highly complex belt of dominantly felsic lavas and volcanoclastics, feldspar-phyric rhyolites and dacites, which are often obscured in places by overlying younger rocks. It interfingers with WS to the west, suffers a significant disruption by the Henty Fault Zone to the north and plunges beneath the Owen Conglomerate to the south at Sth Darwin Peak. Andesitic rocks are common associates north of Mt. Owen with minor shale lenses and porphyritic intrusives occurring throughout. Bedding and layering appear generally to trend NNW to NNE with steep dips. Lateral impersistence, lack of marker horizons

and the paucity of facings combined with structural complexity and, in places, extensive alteration makes the establishment of stratigraphic sequencing and age determinations difficult. Much attention has been directed toward the exploration potential of this unit historically because it is thought to host the Mt. Lyell copper and the Rosebery lead-zinc orebodies.

A prominent feature of the CVC at Red Hills, Mt. Sedgwick and Mt. Darwin is the occurrence of large dome-like masses of pink-weathering potassic (5 to 9%  $K_2O$ ) rhyolite lava cut by hematite-magnetite veins. The lava is often fine-grained and spherulitic, and possesses a significant magnetic signature.

Flanking the masses of rhyolitic lava is a sequence of feldspar-phyric lavas and volcanoclastics with intercalations of shale. The lavas can show columnar jointing, flow banding and autobrecciation textures. The volcanoclastics range from massive coarse-grained varieties with abundant sparse clasts through to fine vitric ashes. Some crystal-vitric volcanoclastics described near Queenstown are thought to show prominent eutaxitic textures formed by flattened pumice clasts and contain deformed, welded shards.

Andesitic rocks occurring in the Queenstown area include:

- high level intrusive bodies of hornblende-clinopyroxene-plagioclase porphyry, some showing spectacular autobreccia textures e.g. at Crown Hill;
- mixed sequences of lavas and volcanoclastics which in some cases are thought to represent volcanic centres, e.g. at Agglomerate Hill; and

- thin flows and volcanoclastic units interbedded with felsic volcanics which suggests possible contemporaneous volcanism.

Other intrusive rocks include bodies of porphyries and granite. Overlying the sequences at Mt. Sedgwick is a large body of quartz-feldspar-biotite porphyry which appears to be partly intrusive and partly extrusive (flow banding), and is thought to represent a feeder volcano for the TG volcanics. At Mt. Darwin a mass of pink to white coarse-grained granite occurs, its exposure predating the overlying TG volcanics.

#### Western Volcano-Sedimentary Sequence

An extensive sequence of interbedded sedimentary and volcanic rocks intruded by tabular porphyry bodies. Its relationship to the Cambrian sedimentary units is problematical, but it is compositionally and sedimentologically similar to portions of the Dundas Group (i.e. the White Spur Formation). In places it interfingers with the CVC to its east and is bounded to the west by the South Henty Fault in the Yolande River area or by TG correlates and younger cover south of Queenstown.

Broadly two units have been recognised:

- a lower unit of interbedded shale, siltstone, volcanic-wacke turbidites and volcanoclastics; and
- an upper unit of epiclastic quartz-feldspar phytic volcanoclastics including graded units with shale clasts and erosional soles suggesting submarine mass flows;

A number of mafic associations have been described:

- in the Anthony Road area several andesitic intrusives occur near the contact with CVC;
- mafic intrusives occur near the contact with Siluro-Devonian rocks south of the Yolande River;
- altered, ophitic-textured basaltic lavas and breccias (Miners Ridge Basalt) occur at the base of the sequence in the Lynchford area. It has a distinctive low-potash composition and is tholeiitic in its trace element affinities. An unusual associate is a unit of micaceous quartz-wacke sandstone of Proterozoic origin;
- A lens of discordant plagioclase-pyroxene phyric basalt/andesite volcanics (Lynch Creek Basalt) is believed to be an ancient marine volcano and underlies TG equivalents in the Lynchford area; and
- basalt has been reported to occur locally near the CVC contact in the Clark River valley.

Some large felsic porphyritic bodies are present which in the Yolande River area are cross-cutting and appear to be mainly-intrusive. In the Lynchford area a body of intrusive quartz-feldspar-biotite porphyry contains xenoliths of quartz-wacke sandstone. At Mt. Darwin flow-banding and auto-breccia textures suggests some may be extrusive.

Eastern Quartz-Phyric Sequence

Rocks of the EQPS were originally included in the TG. Recent work however in the Black Bluff and Elliott Bay region has shown it to be an earlier formed unit underlying TG. It forms a belt of quartz-phyric intrusive/extrusive porphyries dominated by highly sheared volcanoclastic rocks along the MRV eastern edge from Mt. Sedgwick to Mt. Selina (and continuing north). The Sticht Range Beds conformably underlies the volcanics and is interpreted to be the basal unit of the EQPS. To the west the EQPS interfingers with the CVC and it is suggested that the two together may represent the volcanic chain for the MRV (K.D. Corbett pers. comm.).

The porphyries appear to range from quartz-plagioclase-K-feldspar-biotite phyric to quartz (+minor feldspar) phyric. Fine-grained lavas also occur. They are generally massive or brecciated and some flow-banding has been reported. The volcanoclastics appear to be mainly fine-grained with the crystal fraction being coarsest. Lithics have been described in some and others display an epiclastic character.

Tyndall Group

The TG volcanic and volcano-sedimentary sequence is defined by a package of rocks occurring at Lyell Comstock and extending north to Henty. Correlates occur at Lynchford and in the Mt. Darwin area. The sequence is internally complex and laterally variable and formal subdivision into formations has to date not been practicable. It has overlying relationships with all of the other sequences discussed above and represents the last extrusive volcanic activity during the Cambrian in this region. It is nearly always overlain by Owen Conglomerate in either apparent conformity or transgressive unconformity.

The rocks can be divided broadly into two units:

- a lower unit of quartz-feldspar phyric crystal-lithic volcanoclastics and sediments (epiclastics and shales), the "Comstock Tuff". Near its base in the Comstock Valley a 40 metre thick lens of re-crystallised limestone occurs containing a varied fauna of late middle Cambrian age. At Zig Zag Hill near Queenstown a coarse mass-flow volcanoclastic contains lithic clasts up to 3 metres long and is interbedded with the characteristic pink-green banded crystal-rich volcanoclastic in the lower part of the sequence. This banded volcanoclastic is also recognised as far north as the Howards Rd-Anthony Rd junction. At Lynchford a crystal-lithic volcanoclastic overlies the WS with apparent conformity and is rich in basaltic detritus derived from the Lynch Creek basalts. At Mt. Darwin the Fish Creek Association of Calver et al., 1987 is east facing and appears to have been deposited against an erosional scarp of CVC to the east as evidenced by the presence of eroded blocks of granite and disoriented blocks of well-cleaved porphyry in its basal unit, the mix of volcanic rock types appears more complex here; and
  
- an upper most unit of volcanoclastic conglomerate and sandstone, often epiclastic in character and polymict, is composed of dominantly volcanic and lesser siliciclastic detritus. It is widespread and displays surprisingly little variation throughout the region, overlying Comstock Tuff from Mt. Lyell to Henty, overlying EQPS from Mt. Sedgwick to Mt. Selina and overlying WS to the west in the Mt. Darwin area. It rests with apparent conformity in all occurrences.

North of the Gooseneck in the area of Mt. Read a unit of pink-weathering quartz-feldspar phyric rhyolitic lavas dominate the sequence and appear to occur stratigraphically below the Comstock Tuff correlates in the area.

#### Late Cambrian to Devonian

In the late Cambrian areas dominated by Proterozoic rocks were uplifted, the Jukesian Orogeny, and extensive alluvial-fans and/or local scree breccias were deposited onto the MRV rocks from the east. These were partially inundated by the sea from time to time and finally covered by shallow water marine sands. From early Ordovician to early Devonian times the area was the site of shallow water, platform deposition with only minor signs of instability. All of the rocks deposited during these times form the Wurawina Supergroup and includes:

1. the Denison Group, late Cambrian to early Ordovician;
2. the Gordon Group, early Ordovician to early Silurian; and
3. the Eldon Group., Siluro-Devonian

#### Denison Group

Units within this group include the "Jukes Breccia" (base) and the Owen Conglomerate (which includes the Newton Creek Sandstone Member).

The Jukes Breccia is a succession of volcanoclastic conglomerate and sandstone, with clasts being a mixture of predominantly Cambrian volcanics and Proterozoic siliciclastics. This unit is similar to the volcanoclastic unit of the TG which overlies the Comstock Tuff, however the Jukes Breccia rests unconformably (the Jukesian Unconformity) on the older Cambrian rocks.

The Owen Conglomerate is comprised mainly of siliceous conglomerate and quartz sandstone, commonly red or purple in colour, sourced from the Proterozoic rocks. Its lower units are generally coarse and more massive as compared to those higher up which are dominated by sandstone displaying well developed sedimentary structures and bioturbations. Occurrences of this unit in the environs of the tenements tend to form spectacular ranges or ridges. On the northern flank of the Tyndall Range the lower part of the Owen Conglomerate is represented by the Newton Creek Sandstone Member which comprises quartz-wacke, bioturbated thinly-bedded sandstone, micaceous siltstone and grey siliceous conglomerate.

#### Gordon Group

A sequence of shallow water deposits comprising carbonate rocks, impure limestone, dolomitic limestone and stylonitic micrite, with minor siltstone and black shale are exposed in several localities from Queenstown south to Kelly Basin. Its lower contact lies either conformably or gradationally on Denison Group sediments. In outcrop it often weathers to a diagnostic black pug and tends to produce valleys, many swampy, due to the solubility of limestone. Taken together, the upper part of the Denison Group and the Gordon Group form a classic syn- and post-orogenic succession.

#### Eldon Group

These rocks overlie the Gordon Group conformably or disconformably with shallow marine interbedded quartz sandstone and mudstone with subordinate limestone. Significant exposures occur adjacent to the tenements to the east, the Upper King River-Crotty area, and to the west, the Strahan-Queenstown area. Units present from the base upwards include:

- Crotty Quartzite, predominantly a fine to coarse-grained quartz sandstone commonly cross-bedded;
- Amber Slate, a unit of mudstone and grit with minor limestone lenses in the Strahan-Queenstown area;
- Florence Quartzite, massive or thickly bedded fine-grained bioturbated quartz sandstone with minor mudstone interbeds; and
- Bell Shale, containing sandstone-mudstone and mudstone successions.

#### Jurassic

Volcanic activity during mid-Jurassic times spewed forth a remarkably homogenous doleritic magma that covers a significant portion of central and eastern Tasmania. In several places close to and within the tenements remnant cappings exist on mountains; the Eldon Range to the east, Mt. Sedgwick, a portion of Sedgwick Bluff, and on Mt. Dundas to the west. Evidence of dolerite dykes at Mt. Dundas suggests these occurrences were fed locally and were not the result of flooding from the east. These mountains are often bordered by steep escarpments characterised by high joint-bounded columns at the foot of which are significant talus slopes.

The dolerite is quartz tholeiitic in composition. It is medium-grained dominated by pyroxene, plagioclase, iron-oxides and a significant proportion of mesostasis consisting of mainly quartz and feldspar.

#### Tertiary

Sediments and sedimentary rocks filling the northern portion of the Macquarie Harbour Graben are known as the

Macquarie Beds (Baillie & Corbett, 1985) and are estimated to have a minimum thickness of 450 to 500 metres. Their internal stratigraphy has not been defined, but rock units described include:

- bedded medium to fine-grained immature arenites with interlayered clay;
- coarse to medium-grained quartz sands and micaceous quartz sands with high angle cross-stratification structures. Small pebble clasts of quartz, pink and white quartzite, siltstone and slate occur;
- present at several localities are bioturbated and micaceous carbonaceous sand beds; and
- pebble to boulder conglomerates with clasts of Cambrian volcanics, pink quartzite, weathered dolerite and white, pink and purple sandstone and conglomerate.

#### Quaternary

Climatic changes caused the development of distinctive suites of landforms and deposits due to the effects of glaciation. Significant occurrences of these are found within and in close proximity to the tenements extending from Mt. Darwin north to Henty. Deposits formed as the result of glaciation include large undissected end-moraines that separate thin till deposits and weakly developed soils from large outwash plains of sediment and gravel. These outwashes are often dumped as alluvium in river valleys.

#### 4.2 Structure

##### Proterozoic

In these rocks the earliest tectonic surface ( $S_1$ ) recognised is represented by a mineral alignment paralleling

compositional banding in the schist assemblage and as a penetrative cleavage generally only apparent as a microfabric in the pelitic assemblage. The dominant tectonic surface ( $S_2$ ) occurs as coarse muscovite folia bounding  $S_1$  in the schist assemblage and as an intensely developed crenulation cleavage paralleling compositional layering in the pelitic assemblages. Folds related to  $S_2$  are widespread and a strong lineation exists on  $S_2$  surfaces due to its intersection with  $S_1$ . A third cleavage ( $S_3$ ) of spaced crenulation style is common throughout.

Interpretation of complex Rb-Sr data on schist assemblage rocks implies peak metamorphism occurred at ~780 Ma and that a later lower P-T event occurred in the interval 540-620 Ma ( $S_3$ ). K-Ar ages on slate and phyllite from the pelitic assemblage gives a similar range of 540-610 Ma for the same later event.

The close association of rocks with such apparently large contrasts in metamorphic grade has led some workers to suggest the presence of structural dislocations, stacked thrust sheets, of great magnitude. Faults sub-parallel axial surfaces of isoclinal folds are known to exist and these often do form boundaries to major lithological units. Another explanation could be extremely large scale strain partitioning effects.

#### Early Palaeozoic

The arcuate belt of felsic MRV forms the eastern margin of the Dundas Trough, this margin being developed on Proterozoic crust. Because the rates of volcanic accumulation can be very rapid it has been proposed that all of the pre-TG volcanic sequences were erupted in the middle Cambrian. The Henty Fault Zone (HFZ) was significant as a locus for igneous activity as well as controlling later depositional basins. In this narrative the Great Lyell Fault (GLF) is considered to be a splay

and therefore part of the HFZ. The MRV is divided structurally by the NNE-SSW trending portion of the HFZ, however geochemical variations across it do not appear to be very significant.

Major volcanism appears to have ceased in the middle part of the late Cambrian. Significant erosional disturbance appears to have commenced though in places prior to the deposition of some TG correlates in the middle Cambrian, e.g. at Mt. Darwin, and there is even evidence of localised cleavage formation. Erosion and deformation of the Cambrian volcanics appears to have continued up until the time they were progressively buried by Denison Group siliciclastic sequences derived from renewed uplifts of the Tyennan region. Much of this deposition was concentrated around the margins of the Tyennan region in fault-controlled graben structures, e.g. GLF. Indications are of syn-depositional movement occurring on the GLF and transgression west of the fault scarp by the siliciclastic detritus, and associated overlying sediments of the Gordon and Eldon Groups which rest with erosional unconformity on various Cambrian units, only occurred when movement on the fault ceased.

Angular unconformities beneath and within the Denison Group siliciclastics imply significant deformation of the Cambrian sequences in the late Cambrian to early Ordovician period. The unconformity at the base of the Denison Group is known as the Jukesian Unconformity and has been found to have a number of associations:

- on the north face of Mt. Jukes Jukes Breccia overlies CVC;
- at Sth Darwin Peak Owen Conglomerate overlies TG correlates; and

- at the Mill area west of the Mt. Lyell mine uppermost Owen Conglomerate (Pioneer Beds) overlies TG.

A number of discordant contacts and angular unconformities occur within the Denison Group siliciclastics, the best known is the Haulage Unconformity east of the Mt. Lyell opencut between the Pioneer Beds and the underlying upper Owen sequence sandstone.

Evidence for regional development of a penetrative cleavage during the Cambrian has not been found. The cleavage that is present appears to have been patchy with much of the Cambrian deformation resulting from movements on relatively narrow fault zones. Examples of evidence for locally developed cleavage include:

- in the Mt. Darwin area the basal unit of the TG correlate contains fragments of disorientated well-cleaved porphyry; and
- near Mt. Sedgwick strongly disorientated blocks of cleaved volcanics occur in a basal conglomerate unit of the Denison Group.

#### Mid-Palaeozoic

The lower Devonian and older rocks of Tasmania are extensively deformed by pre-granitoid emplacement folds and associated structures. Two dominant phases of Devonian deformation occurred in which the Proterozoic rocks behaved as relatively competent blocks:

- earlier phase folds and associated structures developed in zones of closure between converging Proterozoic blocks, the distribution of which largely determined the fold trends; and

- later phase folds and associated structures resulted due to movement from the NE.

Cleavage is usually developed with the folds. The first-formed cleavage is often of layer silicate films with grains of quartz and feldspar commonly showing beards of quartz and platy mineral fibres. Later cleavages are of crenulation type.

Overall fold patterns indicate a zone of closure between the relatively competent Rocky Cape and Tyennan regions. The West Coast Range/Valentines Peak trend ( $D_1$ ) is reflected in the West Coast Range itself by its N-S aspect and structures are characterised by upright minor folds and steeply dipping to vertical cleavage. To the west of Mt. Darwin a large NNW trending synclinal structure in Denison Group and younger sediments is faulted against Cambrian sequences. The fault itself is probably folded and acted as a surface of detachment during folding. Cambrian competent units display open, upright and NNW trending folds associated with steeply dipping axial surface cleavage. The more incompetent sequences show open to tight folds with variable amounts of plunge. Occasionally the axial surface cleavage of the NNW folds crenulate an earlier cleavage, suggesting repeated folding in the NNW trend. At Mt. Lyell-Queenstown the bedding geometry of Cambrian volcanic sequences is also controlled by the NNW trend which has been interpreted to have developed in response to the first phase of middle Devonian deformation in the region. An axial surface cleavage associated with these folds is only sporadically developed.

Renewed movements along the NNE trending HFZ occurred during the Devonian. A northly trending cleavage within it appears to be of Devonian age and a stretching lineation is often present plunging W down-dip of the steep cleavage. The dominant movement along the HFZ is reverse with a

relative displacement of W-side up.

During a later Devonian deformation ( $D_4$ ) the Tyennan block yielded in a NW direction, the Zeehan/Gormanston trend. Near Queenstown this trend is represented by a 6 km wide fault-bounded structural trend known as the Linda Disturbance which deformed the N-trending GLF together with the fold and associated cleavage of the West Coast Range/Valentines Peak northerly trend. The early folds are overprinted by a regionally penetrative cleavage, and associated folding, which is upright, WNW trending and associated with a strong down-dip mineral elongation lineation and extensive reverse faulting in the volcanic sequence.

#### 4.3 Mineralisation

An expedition led by Charles Gould in 1862 was the first major prospecting excursion to the West Coast. Although they camped near the now Mt. Lyell orebodies they failed to find the gold they sought. By the early 1880's, spurred on by the discovery of Mt. Bischoff, prospectors were panning gold in creeks around Mt. Lyell and by 1885 the exposed auriferous gossan, the Blow, was discovered. Many other small pyrite, Cu and Zn-Pb deposits were worked in the period 1885 to early 1900's. Alluvial gold prospecting has been ongoing, on only a small scale, to this day. Only the Mt. Lyell mineral field has remained in continuous production.

Cambrian ores occurring within the MRV are world-class and belong to a class known as volcanic-hosted massive sulphide (VHMS) deposits, e.g. Hellyer and Rosebery. Deposits of this type constitute our primary exploration target. They are believed to have formed on the seafloor during volcanism and are generally stratiform massive sulphide bodies with well defined feeders or zones of silica-sericite-chlorite. Faults appear to be important

associates to the mineralisation in focussing fluid flow. Ores within the Mt. Lyell field differ in that they are pyrite-chalcopyrite disseminations in intensely altered volcanics that are interpreted to have lain just below the sea-floor at the time of mineralisation. The presence of massive pyrite and polymetallic sulphides lenses within the field help to support its genetic connection with VHMS deposits. Other possible VHMS variants associated with the area of the tenements include:

- stratiform massive pyrite-sphalerite-galena lenses that occur at Red Hills. These are associated with a package of felsic lavas, volcanoclastics and black slate. A similar package occurs at Mt. Sedgwick associated with massive sulphide clasts;
- disseminations and veinlets of pyrite-chalcopyrite in quartz-sericite-chlorite schistose volcanics at Mt. Darwin, Mt. Jukes and Red Hills;
- stratiform lenses of massive hematite and hematite-pyrite-barite are associated with layered andesitic volcanoclastics and shale of Howards Anomaly;
- gold mineralisation associated with intense silicification at Henty; and
- recently discovered massive sulphide clasts in an andesitic volcanoclastic at the Newton Dam spillway.

Minor gold found in Conglomerate Creek, Queenstown is assumed to be recycled gold from the Owen Conglomerate.

The Gordon Group limestone is the host for a number of small Pb-Zn vein and replacement styles of mineralisation in the Queenstown area at Sandstone Hill, Halls Creek Quarry, Smelter Quarry, Linda Cemetery and Bubs Hill.

## 5. WORK COMPLETED 1991/92

### 5.1 BHPM

A drill hole TC-01, was drilled into a shallow weak-moderate conductor interpreted from UTEM data collected in 1990/91, the Thomas Conductor. The interpretation suggested a possible VHMS source in MRV. The hole intersected Gordon Group limestone to 119 metres and then Denison Group conglomerate, sandstones and clay to 148 metres. DHEM confirmed the limestone to be the source of the surface anomaly; carbonaceous bands present. No further work was undertaken by BHPM. A copy of the BHPM interim report detailing the above work and the results obtained is presented in Appendix 1.

### 5.2 Garfield/Clark Valley

The area was covered by an aerial photography survey at a scale of 1:15,000 late in 1991. The Department of Environment and Planning-Mapping Division was contracted and the survey (M975) covered 5306000mN to 5338000mN & 378000mE to 389000mE with five N-S runs.

A helicopter supported program of grid cutting soil sampling, ground magnetics and geological mapping was conducted from 10/2/92 until 13/3/92. The helicopter operated out of Queenstown airport. For the first two days, a Bell 47 was used, but it was too slow to efficiently transport the number of personnel involved. A Jet Ranger was used for the remainder of the program.

#### 5.2.1 Grid Cutting

An extension to BHP's Clark Valley grid was cut to cover the volcanic sequence in Clark Valley as far south as 5315000mN. Helipads previously used by BHP and Goldfields Exploration were re-cut, and four new helipads were cut within the area of the grid extension. The grid cutting was contracted out to Joe Horak. An additional 18.1km

of lines were cut.

#### 5.2.2 Soil Sampling

C-horizon soil samples were collected by contractor Chris Cooney. Samples were collected at 50m intervals on every second line covering the entire Garfield/Clark Valley grid. In some areas of interest, the intermediate lines were also sampled, but no samples were taken where the bedrock geology was covered by thick scree or glacially transported material. A total of 1416 samples were collected. These samples have not yet been submitted for analysis.

#### 5.2.3 Ground Magnetics

SURTEC Geosurveys Pty. Ltd. was contracted to conduct a magnetometer survey over the Garfield/Clark Valley grid. Readings were to be collected every 5 metres and corrected for diurnal variations. However, very early in the survey it was recognised that readings were being affected by severe magnetic storm activity and that it would continue for the remainder of the helicopter program. The survey was therefore cancelled with no useable data being collected.

#### 5.2.4 Geological Mapping

Photogrammetrically produced 1:5,000 topographic base maps previously used by Goldfields Exploration during the exploration of EL 9/66 were scanned and digitized. Base maps for the Garfield/Clark Valley 1:5000 scale mapping were produced from the digitized data. The BHP grid was digitized from plans provided by BHP and added to the base maps. The new grid lines cut during the current program were surveyed by tape and compass and plotted by computer.

Mapping of the northern part of the Garfield grid commenced with access gained on foot along the Garfield Track. Small camps were set up near Thomas Currie Rivulet at the northern end of Snake Spur and on the site of BHP's "Camp

2". Mapping was carried out along the grid lines and later along creek traverses, particularly in areas critical to the geological interpretation. A total of 261 rock chip samples were collected during the mapping. This sampling was intended to provide a collection of "type" examples of the different lithologies for later petrological and geochemical study, as well as sampling altered or unusual rocks. The rock chip samples were analysed by Analabs and Becquerel for a broad suite of major and trace elements as well as the economically important metals.

#### 5.2.5 Garfield Track

In May 1991 the Track was used to access drill site TC01 by BHPM. A two vehicle ferry system was again used. It was inspected following the completion of the drilling programme by BHPM and DMT representatives.

It was reiterated to BHPM in Nov. 1991 by the DMT that if the Track is to be used in 1991/92 that it be upgraded to Class 4, alternatively rehabilitation work is to be commence.

In Jan. 1992 the Track was examined by RGCE, DMT and Forestry Commission representatives to determine what work is required to improve it to Class 4. The Forestry Commission indicated it was in reasonably good condition for infrequent use and that any major earthworks, such as installing concrete culverts, to bring it to Class 4 may be detrimental to the environment. They suggested the Track needed better shaping, greater use of grips and the installation of silt traps. If more frequent use was to be considered, then the steep "Hill Section" would need to be re-routed.

The DMT gained approval to access the Track in Feb. 1992 using 4WD motorbikes. No official notification of this approval has ever been received by BHPM or RGCE.

A decision is to be made by Nov. 1992 on whether the Track is to be upgraded to Class 4 for future use or to be rehabilitated. Up to this time RGCE is responsible for regular drainage maintenance.

### 5.3 West Sedgwick

Work completed in the West Sedgwick area included geological mapping, rock chip sampling and C-horizon soil sampling. This work was carried out on BHP's "West Sedgwick" grid north of 5344000 N and on a part of the Mt. Lyell "Comstock" grid in the vicinity of Zig Zag Hill.

#### 5.3.1 Geological Mapping

The base maps used for the geological mapping were the 1:5000 "Margaret" and "Mine" topographic sheets produced by GFEL during exploration of EL 9/66. BHP provided plans of the West Sedgwick grid which were overlaid on the base maps. The original Comstock grid was not slope corrected and even though some lines were re-cleared and re-pegged by BHP, discrepancies with topographic features indicated that there were still significant errors in the position of the grid. Therefore, relevant parts of the grid were re-surveyed by tape and compass. At a later stage, the base maps were scanned and digitized.

Access to the grids was from either the Comstock or Lake Margaret Roads. Grid lines were mapped at a scale of 1:5000. A total of 139 rock chip samples were collected during the mapping. As for the Garfield mapping, these samples were collected partly to geochemically and petrologically characterize the major rock units as well as to sample any altered rocks. The samples were analysed by Analabs and Becquerel for the same suite of elements as the Garfield samples.

### 5.3.2 Soil Sampling

During the course of the mapping, it was noted that patchy but widespread alteration occurred within a particular stratigraphic unit. A soil sampling program was designed to geochemically test this unit and the surrounding rocks. C-horizon soil samples were collected by hand auger. The sampling was started by RGCE field assistants, and completed by a contractor, Chris Cooney. Samples were taken at 25m spacings along selected lines of the West Sedgwick grid. The samples were analysed for the same suite of major and trace elements as the rock chip samples in an attempt to highlight not only areas of mineralisation and alteration, but also to aid mapping by chemically "fingerprinting" rock types in areas of poor outcrop.

### 5.3.3 Core Logging

Drill hole WS4 was drilled by GFEL in 1987. It is currently stored at the Department of Mines core shed in Mornington. One day was spent re-logging this hole. A copy of the relog is in Appendix 5.

## 6. RESULTS AND DISCUSSIONS

### 6.1 Garfield/Clark Valley

#### 6.1.1 Geology

During previous exploration of the Garfield/Clark Valley area, mapping had generally been of a reconnaissance nature. It was considered by RGCE that the geology of the area was not well known or understood. Although it is quite unlikely that any outcropping mineralisation occurs in the area, a program of detailed mapping was considered to be an essential first step in exploring the area. This was not only to look for subtle signs of alteration or mineralisation associated with blind orebodies, but also to see how the geology fits, in a regional sense, with the rest of the MRV, and to develop an understanding of the local volcanic environment and stratigraphy. Factual geology is plotted on Plans 2 to 5.

#### Central Volcanic Complex (Ccf)

The oldest rocks occurring in the gridded area are those belonging to the Central Volcanic Complex. These rocks occur along the eastern side of the grid and extend up onto the crest of the West Coast Range. In the northern part of the grid the Ccf can be divided into 3 units on the basis of textural variations. Ccf3 is feldspar phyric, typically with around 5% feldspar phenocrysts up to 2 to 3 mm long. It has a distinctive granular groundmass which is best seen on weathered surfaces. Ccf2 is also feldspar phyric, but has coarser, more prominent feldspar phenocrysts up to 5mm. It has a very fine-grained groundmass. Ccf1 was observed only along Thomas Currie Rivulet on the south-western side of Snake Spur. It has a fine granular groundmass like Ccf3 but has very sparse phenocrysts. These units are most likely, massive rhyolitic to dacitic lavas.

In many instances the Ccf rocks have developed a penetrative cleavage and have been metamorphosed to

greenschist grade. This had the effect of destroying much of the primary texture. Such rocks have been mapped as undifferentiated Ccf. The Central Volcanics also includes narrow bands of well-bedded black siltstone.

Yolande Sequence. Cy

Rocks belonging to the Yolande Sequence occur along the centre of the Clark and Garfield Valleys and over the northern end of the Currie-Garfield divide. The distinctive feature of the Cy group compared to the Ccf is the presence of conspicuous quartz phenocrysts. The most common rock type within the Cy group has 5 to 20% quartz phenocrysts, usually around 3mm, but as coarse as 5mm, set in a very fine-grained groundmass (Cytq). In outcrop these rocks are white in colour, and typically are strongly foliated. They commonly also contain feldspar phenocrysts (Cytqf) but this is obvious only in less foliated outcrops. Towards the top of the sequence, the rocks contain coarse mica phenocrysts (Cytqm). The mica appears to be muscovite but may originally have been biotite. Other than the porphyritic nature, the Cyt rocks rarely have any distinctive textures preserved, although some flow banded outcrops have been observed.

At the northern and southern ends of the grid it is relatively straight forward to determine the position of the Cyt-Ccf contact. However, in the central part of the grid for about 1.5km either side of Slate Spur, the contact is not a simple one, containing several alternations between Cyt and Ccf. Creek traverses through this zone indicate that the Ccf is cut by dykes of Cytq. Three well exposed intrusive contacts occur at 321985N 381310E, 321170N 381255E, and 319200N 382155E. Although some small intrusives have been mapped, most of the Cytq rocks are probably lavas, along with derived sediments.

Some sediment dominated (Cys) packages have been mapped within the Cy group. These can occur anywhere through the group but are most common towards the top of the sequence. The best exposed group of sediments occurs along the Garfield River between 2000N and 4400N. The sediments include greywacke, lithic arenite, siltstone and laminated mudstone. Graded bedding indicates that this is a west facing sequence.

Another unit which has been mapped within the Cy group is a coarse crystal-rich epiclastic unit (Cye.) It is a green rock, rich in coarse feldspar phenocrysts, with minor quartz phenocrysts and lithic fragments. It appears to grade up into finer-grained crystal rich rocks and bedded siltstones. This is interpreted to be a mass-flow unit.

#### Andesites

Small andesite bodies have been mapped within both the Cy and Ccf groups. The best example of the andesite is on line 1800N. This outcrop contains relatively fresh, undeformed, hornblende-feldspar phyric andesite similar in appearance to the Crown Hill andesite. However most of the andesite occurrences are relatively weathered, cleaved and altered to sericite-chlorite, although relict textures may still be evident. A long narrow body of andesite has been interpreted between lines 2000N and 3400N. Occurrences of sediment overlying the andesite suggest that this may be an extrusive rock. Another andesite body has been interpreted near the Thomas Currie Rivulet, within the Ccf, although all exposures of this rock are deeply weathered.

#### Tyndall Group

Coarse volcanoclastic conglomerate, correlated with the Tyndall Group, overlies the Yolande Sequence along the western side of the grid. The clasts are very well rounded and were formed from a variety of quartz-phyric volcanics. There is also a significant proportion of clasts formed

from Precambrian quartzite. Rare clasts contain veins of magnetite similar to those occurring in the Ccf adjacent to the Darwin Granite. The Ctc unit also contains beds of volcanoclastic sandstone and dark grey siltstone.

The best exposed contact between the Ctc and Cy sequences is in the Garfield River between lines 4200N and 4400N. The coarse conglomeratic base of the Ctc appears to cross-cut beds in the underlying Cys siltstone, but this appears to be a scour feature as siltstone beds within the Ctc have the same orientation as beds within the Cys. Exposures in smaller creeks to the south all suggest that the Cys and Ctc are conformable.

#### Owen Conglomerate

The Owen Conglomerate forms topographic highs because of its hard siliceous nature. In the area of the grid it forms the ridge between the Garfield River and Flannigans Creek and it forms Snake Spur. Along these two ridges, the Owen occurs as a clear quartz sandstone with some horizons containing small quartzite pebbles. The ridges of Owen are limbs of synclines, plunging gently to the northwest. In both of these synclines, the thickness of the Owen decreases significantly from south-east to north-west, particularly in the area around Flannigans Flats. No well-exposed contacts between the Owen Conglomerate and the underlying sequences were observed. However, along the Garfield River between lines 4200N and 4400N, the Ctc dips west at around 80° while the Ooc dips west at about 60°. Similarly on Mount Sorell, the Owen Conglomerate dips less steeply than the underlying Ctc, suggesting an angular unconformity even though both sediments occupy the same depositional basin.

#### Gordon Limestone

The north-west plunging synclines in the Garfield and Thomas Currie valleys contain cores of Gordon Limestone.

Acid groundwater leaching of the limestone leaves a residue of black carbonaceous pug, some of which occurs at the northern end of Flannigans Creek. This is the only "outcrop" of the limestone. Elsewhere it is covered by Quaternary alluvium and scree deposits.

#### Discussion

The Yolande Sequence is considered by Keith Corbett to be older than the Central Volcanic Complex, however, field relationships observed in the Garfield/Clark Valley area suggest the opposite. The best evidence comes from the Cytq dykes intruding the Ccf. The other evidence is the stratigraphic relationship of these two units with the overlying Tyndall Group. A significant unconformity between the Tyndall Group and the Central Volcanics is exposed on the South Darwin Plateau. At this location the Ccf was intruded by the Darwin Granite which was subsequently unroofed and eroded prior to deposition of the Tyndall Group. Large clasts of Darwin Granite occur in the basal section of the Ctc. However, the Ctc appears to conformably overlie the Yolande Sequence. The most probable interpretation of these relationships is that the Yolande Sequence unconformably overlies the Central Volcanics.

The Yolande Sequence occurring in the Garfield/Clark Valley area appears to be very similar to the rocks in the Yolande River and Lynch Creek sections mapped on the Department of Mines MRV Project "Queenstown" sheet. In the Garfield area there is apparently a greater proportion of lavas whereas the other areas of Yolande Sequence have more epiclastics, greywackes and turbidites. The geology of the Garfield area appears generally to be similar to the rest of the MRV south of the South Henty Fault. The Garfield area does not appear to contain a correlate of the "Comstock Tuff" which would be expected to occur between the Yolande Sequence and the Tyndall conglomerate. However, the andesites mapped

within the Garfield Valley occur at a stratigraphic position similar to the Lynch Creek Basalt. The geochemistry of the andesites will be checked to see if they have any affinity with the Lynch Creek rocks.

Little hydrothermal alteration was observed within the gridded area. The most obvious alteration is the occurrence of magnetite-quartz-chlorite veins within the Central Volcanics on the eastern side of Clark Valley. These veins are obviously related to the Darwin Granite and are not considered to be of economic significance. Small areas of intense silica-sericite-pyrite alteration occur in and around the andesites, particularly on line 1800N. Along lines 4200N and 4000N, the Ctc is silicified and sericitized, with coarse cubes of limonite after pyrite.

Work is continuing on the geological interpretation and this will not be presented until next year's annual report when the results of petrological studies and air photo interpretation are available.

#### 6.1.2 Geochemistry

The geochemical results from the rock chip sampling are given in Appendix 2 and sample locations are plotted on Plans 6 to 9. At this stage, there has been insufficient time to fully evaluate the results and this also will be discussed in the next report.

The soil sample location plots are in preparation at the time of reporting. These samples have not yet been submitted for analysis.

### 6.2 West Sedgwick

#### 6.2.1 Geology

The mapping in the West Sedgwick area was in broad agreement with the conclusions of Corbett et al., 1989 (MRV project, Queenstown sheet) but there are some differences

in the positions of contacts and interpreted structures. Factual geology is plotted on Plans 10 & 11.

#### Central Volcanic Complex

The Central Volcanics were subdivided into two units. The Ccvt is a massive feldspar phyric unit with coarse pink feldspar phenocrysts and a very fine-grained greenish groundmass. It is probably a massive lava of dacitic composition. It tends to be less foliated than the rest of the Ccf, possibly because it is so massive.

The Ccvt is a texturally variable volcanoclastic unit. Most of these rocks are fine-grained, strongly cleaved felsic volcanics, but the unit also includes coarse-grained fragmental rocks and well-bedded siltstone.

#### Andesites

A massive andesite body occurs along the West Queen River. It is hornblende-feldspar phyric and is characterized by very coarse fresh euhedral hornblende phenocrysts up to 1cm long. This rock strongly resembles the Crown Hill andesite and the hornblende phyric andesites along the Anthony Road and is considered to be a high level intrusive.

A second group of andesites are conformable with the stratigraphy and overlie the hornblende-phyric andesites. These rocks are finer-grained and lack the obvious hornblende phenocrysts. The best exposure of these rocks is on Agglomerate Hill where there are excellent examples of auto-brecciated andesitic lavas. These rocks are a continuation alongstrike of the andesites at Comstock. The sequence is dominated at Comstock by coarse fragmental epiclastics but at Agglomerate Hill it is a lava dominated sequence.

From Comstock to Agglomerate Hill to the top of Zig Zag Hill the andesites are overlain by well bedded sediments.

These rocks outcrop poorly and can be traced only by scattered float. The sediments are best exposed along the old tramway just to the east of the switchback between the Comstock Road and Agglomerate Hill. The siltstones exposed here are interbedded with andesitic epiclastics. For this reason, and because of the difficulty in defining the exact contacts of the sediments from the distribution of the float, the sediments are grouped with the Cta unit in the geological interpretation.

An unusual rock was mapped near line 6400N. It is a dark green autobrecciated lava with abundant spherical structures, possibly spherulites, up to 1cm in diameter. Geochemically, it is characterized by high P, Ti, V, Ni and Cr. Another outcrop on line 6200 N has very strong silica-sericite-pyrite alteration but still shows the same spherical structures and geochemical signature. These two outcrops are almost certainly part of the same unit, but a considerable displacement occurs between lines 6400 and 6200N. This displacement coincides with the edge of the Cta-Hb intrusive unit.

#### Comstock Tuff

The Comstock Tuff outcrops on Zig Zag Hill. At Comstock, this unit has a thickness of about 200m, but on Zig Zag Hill it is up to 1km thick. This may be due in part to structural repetition but there is also significant stratigraphic thickening. Although the Comstock Tuff is predominantly a crystal-rich unit with sand-sized grains, it also contains very coarse lithic-rich horizons and bedded siltstones. It also has compositional variations, notably a unit near its base which is extremely crystal rich and dominated by feldspar grains, with very few, if any, quartz phenocrysts. This unit has gradational contacts with the more typical quartz-rich Comstock Tuff. The feldspar-rich unit appears to be restricted to the area south of the fault between lines 6400N and 6200N. This

structure may have been active during the deposition of this unit. Outcrops of feldspar-rich tuff occur north of the fault but they contain sparse quartz phenocrysts and appear to be in the gradational zone to the quartz-rich type.

#### Tyndall Group Conglomerate

The Ctc unit outcrops on the eastern side of Zig-Zag Hill. Near Comstock it strikes to about 330° but higher up on Zig Zag Hill the strike direction, as with all the other units, is around 360°. Some Comstock Tuff has been mapped within the Ctc. It is not clear whether this is a lens of Comstock Tuff within the Ctc or if it is a fault repetition.

#### Owen Conglomerate

Owen Conglomerate forms the massif of Sedgwick Bluff to the north of Zig Zag Hill. It is separated from the volcanics to the west by the Great Lyell Fault and another major fault must occur on its southern side, running along the northern edge of the Comstock Valley. This fault has been called the West Sedgwick Fault. Large amounts of scree and glacially transported material have been shed from the steep escarpments of Sedgwick Bluff, covering parts of the lower slopes of the bluff and the Comstock Valley.

#### Discussion

A zone of patchy but persistent alteration has been recognised at the top of the Cta unit and within the associated sediments. This is silica-sericite-pyrite alteration but the rock-chip sampling showed that it does not have very high levels of base metals. This alteration appears to be a continuation along strike from the Comstock system.

### 6.2.2 Geochemistry

The rock chip sample locations are shown on Plan 12 and the assay results are presented in Appendix 3. The geological interpretation will not be finalised until petrological descriptions of the rock chip samples and assessment of their analytical results have been completed.

The soil sampling program was designed to cover the package of extrusive andesites and the associated sediments. This is clearly the most interesting part of the stratigraphy since it contains most of the observed alteration and is known to contain mineralisation along strike. Soil sample locations are shown on Plan 13 and the assay results are in Appendix 4. Three plots of the soil geochemistry have been prepared. Plan 14 shows the distribution of Cu, Pb, Zn and Ba. This plan shows that there are no extensive base metal or barium anomalies. These elements appear to follow certain lithologies. In particular, the andesitic lavas on Agglomerate Hill have a high background of Cu and Zn. The felsic sequence west of the andesite contains higher Ba, presumably in feldspars, but has very low base metals. Pb values are higher in the Comstock Tuff but towards the northern part of the area sampled, the patterns are incoherent. Sampling here may not have reached bedrock, or may have been contaminated by transported material.

Plan 15 shows the distribution of Na, K, As and Sb. Na becomes depleted in acid alteration systems but the hangingwall of VMS systems may become albitized. The Comstock Tuff has the highest levels of Na. This may reflect the primary feldspar composition, or some degree of albitization. This plan highlights areas of alteration. These areas are low in Na but have elevated K, As and Sb. An alteration zone occurs at the top of the andesites from line 6000N to 6800N. There is also a narrow alteration zone along the CVC-Agglomerate Hill andesite contact.

Plan 16 is a plot of V, Ti, P and Ni. This plan is designed to be an aid to the geological interpretation since all of these elements will occur at much higher levels in mafic rocks relative to felsic rocks. This plan again distinguishes the CVC-andesite contact. It also distinguishes the quartz-rich Comstock Tuff from the feldspar-rich Comstock Tuff and shows that the latter had a relatively mafic source. There appears to be a small occurrence of felsic rocks within the Agglomerate Hill andesite on line 6200N.

#### 6.2.3 Core Logging

Drill hole WS4 was relogged at the Mornington core library. The hole remained within the hornblende-phyric andesite unit (Cta-Hb) for its 229m length, except for a small package of sediments towards the end of the hole. The bottom part of the hole contained strong hematite-carbonate alteration, including a pink hematitic limestone, very similar to the Comstock alteration. The limestone is considered to be an exhalite horizon. The original log of this hole suggested that the sequence was west facing. However, mapping in the area shows that it is an east facing sequence and that the hole was stopped short of the interesting Cta unit. In light of the interesting alteration at the bottom of the hole, and the likely stratigraphic control on mineralisation, it is proposed to redrill this hole to a depth of about 500m. Longyear have been contracted to drill this hole in a helicopter-supported program with an LY 44 rig. This hole was recently commenced from the site of WS4.

7. RECOMMENDATIONS

Work is to continue to explore the belt of MRV contained within the tenements for a world-class VHMS deposit. The proposed future exploration will involve the following:

Garfield/Clark Valley

1. Geology - a stereographic air photo interpretation
  - a petrological study on selected rock chip samples by Dr. T. Crawford of University of Tasmania
  - a detailed geological interpretation of the area covered by the grid will combine the results of the petrological study, the air photo interpretation and a geochemical analysis with the fact mapping.
  
2. Geochemistry - all of the soil samples collected over the grid will be submitted for multielement analysis
  - a detailed analysis of the multielement data obtained from the rock chip and soil samples will be completed to assist the geological interpretation
  - some isotope geochemistry may be considered if practicable
  
3. Geophysics - a re-interpretation of any old gradient-array IP data collected by Scintrex for Goldfields will be evaluated.
  - a magnetometer survey may again be undertaken if it is believed it will assist the geological interpretation.
  - a gravity survey may be considered.

4. Drilling - the relogging and re-sampling of Goldfields Snake Spur prospect drill holes, SS1 and SS2/2A, will be completed
- it is anticipated that the geological interpretation will result in the drilling of one or two stratigraphic holes

West Sedgwick

1. Geology - a petrological study on selected rock chips will be undertaken by Dr. T. Crawford
- a detailed geological interpretation of the area covered with 1:5000 scale mapping will combine the results of both the petrological study and a geochemical analysis with the fact geology
2. Geochemistry - a detailed analysis of the multielemental data obtained from the rock chip and soil samples will be completed to assist the geological interpretation
- some isotope geochemistry may be considered
3. Geophysics - a re-evaluation of gradient-array IP data collected by Scrintrex for Goldfields will be attempted
- DHEM surveys will be conducted on all drill holes completed
4. Drilling - the re-drill of WS4 is currently underway

- a programme involving the drilling of 3 to 4 core holes is to be completed, following the trend of anomalous base-metal geochemistry from WS4 to Lyell Comstock and spaced every 400 metres.

#### Regional Reconnaissance

1. Geology - mapping to be undertaken on all available access and waterways within the tenement area at a scale of 1:10,000 to identify other areas worthy of more detailed grid-based activities
2. Geochemistry - a detailed programme of rock chip sampling will be conducted during the regional mapping

A decision is to be made in the next twelve months on the future use of the Garfield Track constructed by BHPM.

Camps established within the Garfield/Clark Valley gridded area by BHPM will be rationalised. Camp site No. 4 which was blown apart by strong winds will be removed in its entirety. Camp site No. 3, just to the north of Slate Spur, will remain for emergency purposes.

An area surrounding the existing tenements, spaced not less than 1km, will be applied for to act as a "buffer zone" to the joint venture tenements where applicable. This application will be made as soon as possible.

8. REFERENCES

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APPENDIX 1

**BHPM Interim Report**

**1st April 1991 to 30th June 1991**

EL 102/87, QUEENSTOWN  
WESTERN TASMANIA  
INTERIM REPORT FOR  
THE PERIOD 1/4/91-30/6/91

J CAMERON  
SEPTEMBER 1991

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### SUMMARY

Interpretation of UTEM survey data over units of the Mt Read Volcanics identified a shallow weak-moderate conductor, with a strike length greater than 800m, that warranted further investigation with drilling.

One diamond drillhole, TC-01 was drilled for 148m. No alteration or base metal mineralisation was intersected. Trace - 1% pyrite was present as disseminated blebs, fracture coatings and veinlets within Gordon Limestone intersected between 30 and 119 metres. Cu, Pb, Zn, Ag, Au, Ba, As assay values were usually low with Zn recording a high of 154 ppm and As of 320 ppm.

Downhole EM confirmed that the Gordon Limestone as the source of the anomaly and that no offhole conductors were present.

The Thomas Conductor has been tested and the source of the UTEM anomaly explained.

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## SUMMARY

1. INTRODUCTION
2. WORK COMPLETED AND RESULTS
  - 2.1 Diamond Drillhole TC-01
    - 2.1.1 Geochemistry
  - 2.2 Downhole EM
3. CONCLUSIONS

FIGURES

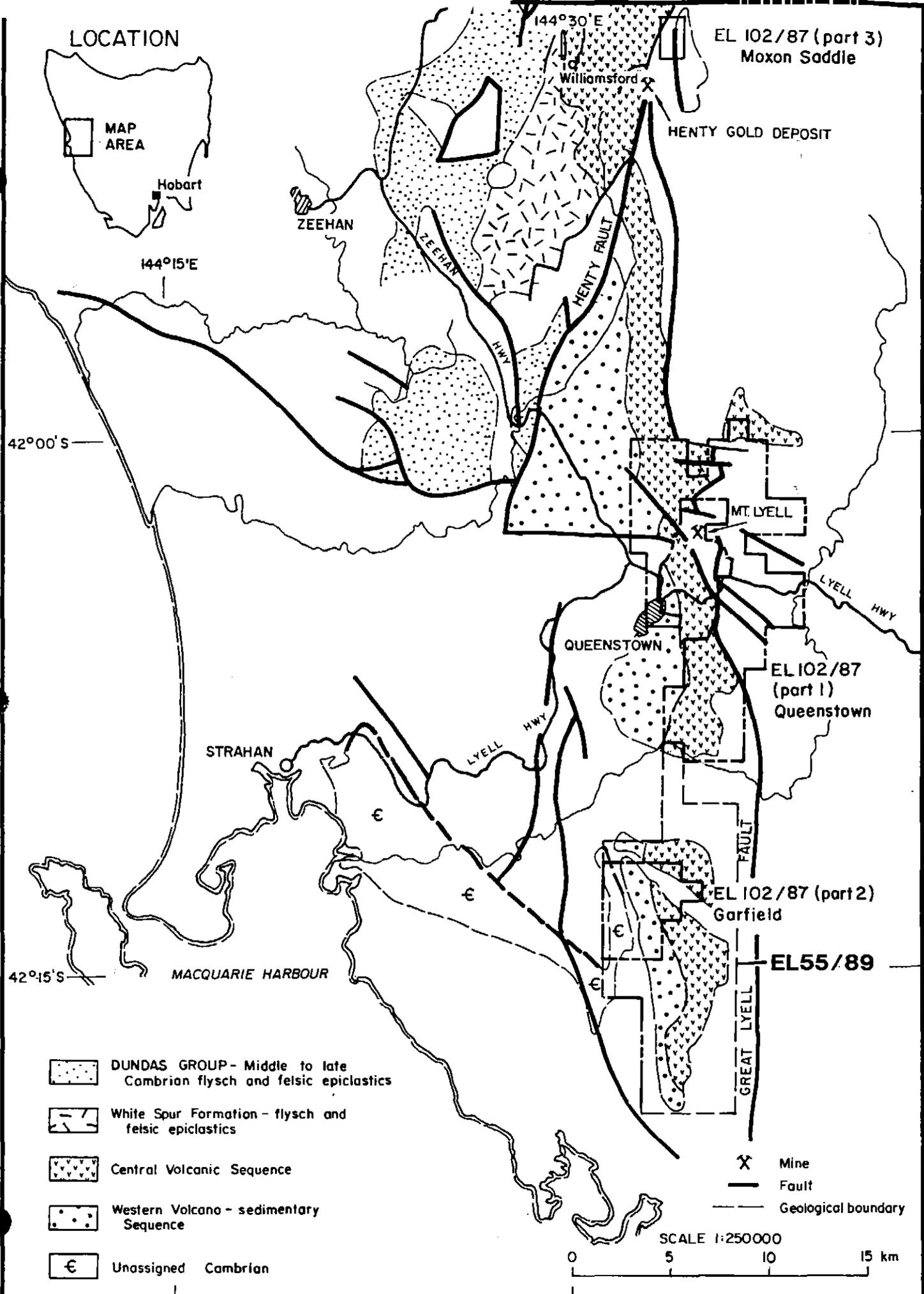
1. Queenstown Region Exploration Tenements and Regional Geology (A4-3001).

PLATES

<u>Title</u>	<u>Drawing No.</u>
1. Garfield Grid, Drillhole and Downhole EM Loop Locations and Summary Geology.	AI-2498
2. TC-01 Drillhole Section 3830N.	AI-2499

APPENDICES

1. Drill Log, TC-01
2. Assay Results, TC-01
3. Downhole EM Profiles, TC-01



Centre  
Melbourne

Date  
20.11.89

THE BROKEN HILL PROPRIETARY CO. LTD.  
 QUEENSTOWN REGION, TAS.  
**FIG 1 EXPLORATION TENEMENTS & REGIONAL GEOLOGY**

Project N<sup>o</sup>  
B57

Drawing N<sup>o</sup>  
A4 3001

## 1. INTRODUCTION

This interim report details exploration activity undertaken by BHP Minerals Ltd. (BHP) in Part 2, EL 102/87, Garfield (Figure 1) during the period April to June 1991.

Earlier annual reports to the Tasmanian Mines Department describe the rationale behind BHP's exploration in the Mt Read Volcanic Belt east of Queenstown and summarise all previous exploration carried out in the area presently held.

Work during the 1990-1991 reporting year centred on evaluation of the potential of the Mt Read Volcanic Belt sequences, exposed within Part 2 Garfield (EL 102/87) and the Clark Valley (EL 55/89), to host significant base metal mineralisation, using blanket UTEM coverage of prospective units in conjunction with geological mapping and rock chip sampling. A single weak-moderate UTEM conductive source was identified within the Garfield Area, east of the Thomas Currie Rivulet. The conductor has a strike length greater than 800m, a modelled down dip extent of approximately 200m and dips steeply to the east (Plate 1). The area in which the conductor lies is covered by scree and/or glacial moraine and outcrop is generally poor. The source of the conductor could not be resolved solely on the basis of its geophysical character or the surrounding geology and a decision was made to diamond drill test the anomaly.

This report details the results of that work.

## 2. WORK COMPLETED AND RESULTS

### 2.1 Diamond Drillhole TC-01

Drill testing of the Thomas Conductor commenced on 29/4/91 and the hole was

completed on 8/5/91 at a total depth of 148m. The drillhole, TC-01, was collared at grid location 3280E, 3833N and drilled grid west at a declination of  $-65^{\circ}$  to intercept the conductive body at a target depth of 90m below grid point 3225E (Plate 1). The hole intersected 30 metres of glacial scree underlain by silty/shaly carbonaceous Gordon Limestone containing numerous black puggy carbonaceous clay bands  $\pm$  <sup>A</sup>digenetic pyrite. Below 119m the hole intersected a 6 metre wide band of beige sandy clays overlying sandstone, quartzite and haematitic pebble conglomerate boulder beds of Owen Conglomerate affinity. Mineralisation, consisting of trace -1% pyrite occurring as joint coatings and rare veining, was largely confined to the limestone between 78-118m. The pyrite is not related to any apparent mineralising system and no other sulphides or alteration were observed. A summary section is shown in Plate 2 and drill-logs included in Appendix 1.

#### 2.1.1 Geochemistry

Twelve 2m half core samples were analysed for Cu, Pb, Zn, Ag, Au, Ba, and As at Analabs, Burnie. Samples were taken at approximately 10m intervals through the intersection of limestone (30-119m) with one sample submitted from the sediments at the base of the limestone unit. Sample selection was based on the presence and abundance of pyrite mineralisation which was present as discrete disseminated blebs, fracture coatings and veinlets within the limestone.

The assay results, included in Appendix 2, were all low and confirm the lack of visible base metal mineralization in the drillcore. Maximum values for Cu, Pb, Zn, Ag, Au, Ba, As were 51, 24, 154, 0.8, BLD, 5450 and 320 ppm respectively.

## 2.2 Downhole EM

Downhole EM was read from 3 loops around TC-01 using Aberfoyle Exploration staff and equipment. Downhole EM was used in an attempt to discriminate between a surface versus bedrock conductive source, identify any offhole conductors and to ensure the drillhole had intersected the target. The location of the loops is shown in Plate 1 and the EM profiles included in Appendix 3.

No offhole conductors were identified and interpretation of the data suggests that TC-01 intersected a moderately conductive unit at 35-125m downhole within which a more conductive zone between 65m and 105m reflects increased amounts of carbonaceous (graphitic?) material in calcareous shale and silty limestone intervals within the Gordon Limestone.

## 3. CONCLUSION

Blanket UTEM coverage of the Mt Read Volcanics within EL 102/87 Pt. 2 and EL 55/89 in late 1990 outlined a weak-moderate conductive body under glacial cover east of the Thomas Currie Rivulet. The anomaly was drill tested in an attempt to explain its source. TC-01 intersected an 89m thick section of carbonaceous to locally graphitic? limey shales and shaley limestone of Gordon Limestone overlying poorly consolidated Dennison Group? sediments. These underlying sediments were similar in nature to the glacial scree intersected in the top 30m of the drillhole and may represent either intensely weathered Dennison Group or a faulted contact between the limestone and glacial scree. No base metal mineralisation was intersected.

Downhole EM confirmed that the Gordon Limestone was weak-moderately conductive and satisfactorily explains the source of the UTEM anomaly and accordingly no further work is recommended.

APPENDIX 1

DRILL LOG TC-01

PROJECT

PROJECT EL 102/87 Part 3 GARFIELD  
 JOB NUMBER 857  
 1 250,000 SHEET DARWIN  
 GRID NAME GARFIELD  
 LOGGED BY J. CAMERON  
 DATE LOGGED ON-SITE  
 PREVIOUSLY LOGGED REFERENCE -  
 CODE REFERENCE SHEET NAME -  
 CODE REFERENCE SHEET DATE -

HOLE INFORMATION

COLLAR COORDINATES Local Grid A.M.G.  
 EASTING 3280 E 379 990 E  
 NORTHING 3833N 5326 740 N  
 REDUCED LEVEL 160 m a.s.l.  
 REDRILL/WEDGE HOLE No. TC-01

SURVEY DATA

DEPTH	AZIMUTH	DIP
0	221° M	-65°
50	222° M	-63.5°
100	224° M	-63°
148	244° M	-62°

HOLE SUMMARY

TOTAL DEPTH 148.0 m  
 DEPTH TO WATER -  
 DEPTH TO BASE OF TOTAL OXIDATION  
 (CLAY ZONE)  
 DEPTH TO BASE OF PARTIAL OXIDATION  
 (WEATHERED BEDROCK)

DRILLING INFORMATION

DRILLING CONTRACTOR DIAMOND DRILLING (TAS) PTY LTD.  
 RIG TYPE LONGYEAR 38  
 DATE COMMENCED 29.4.91  
 DATE COMPLETED 7.5.91  
 MATERIAL LEFT IN HOLE 148.0 m 40 mm PVC casing

	TYPE	FROM	TO	METHOD/SIZE	FROM	TO	COMMENTS
GEOPHYSICAL LOG	DOWNHOLE EM	10	148	HW casing Advancer	0.0	6.6	
ENGINEERING LOG				HQ	6.6	48.0	
PHOTOGRAPHIC LOG				NQ	48.0	148.0	

SUMMARY LOG

FROM	TO	LITHOLOGY etc.
0	30.0	Glacial scree - Owen Conglomerate boulders, sandstone, silt, sand and clays
30.0	119.0	Medium - dk grey silty limestone and limey shales. Common black carbonaceous puggy clay bands. Calcite veined, carbonaceous stylolites, locally trace - 1% py. - GORDON LIMESTONE.
119.0	125.0	Beige - Tan clays and sandy clays. Pebble rich bands.
125.0	148.0	Beige - grey sandstone, quartzite, hematitic pebble conglomerate. Minor clays, v. poor recovery. Dennison Group? - Glacials?

ANALYSES

SAMPLE NUMBERS FROM	TO	LABORATORY	DATE DESPACHED	ELEMENTS	METHOD

SAMPLE INTERVAL SAMPLING METHOD 2 m, 1/2 core

COMMENTS

TARGET: Weak - moderate UTEM conductor. 800 m<sup>2</sup> strike length, steeply east dipping, 1-2 m wide.







APPENDIX 2

ASSAY RESULTS TC-01



# ANALABS

A Division of Inchcape Inspection and  
Testing Services Australia Pty. Ltd.



Phone (004) 316837

14 Thirkell St. CODEE TAS 7320

Fax (004) 318890

## ANALYTICAL REPORT No.

102460.60.08046

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

INVOICE TO:

Mr J Cameron  
B.H.P. Minerals Limited  
PO Box 619  
HAWTHORN VIC 3122

ORDER No.

PROJECT

5624

1357

DATE RECEIVED

RESULTS REQUIRED

11/06/91

ASAP

No. OF PAGES  
OF RESULTSDATE  
REPORTEDNo.  
OF COPIESTOTAL No.  
OF SAMPLES

1

28/06/91

1

12

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

CDC .251/262

DC Prep : SP006, SP009, SP012, SP018

Cu, Pb, Zn, Ag/GA101

251/262

DC Prep :

Ba, As/GX401

CDC .251/262

DC Prep :

Au, Au(R), Au(S)/GG309

REMARKS

RESULTS

TO

Mr J Cameron  
B.H.P. Minerals Limited  
PO Box 619  
HAWTHORN VIC 3122

TC-01 EL102/87  
SELECTED SAMPLES - 2m  
SAMPLE LENGTH.

RESULTS

TO

RESULTS

TO

  
AUTHORISED OFFICER

# ANALABS

A Division of Inchcape Inspection and Testing Services Australia Pty. Ltd.

## ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

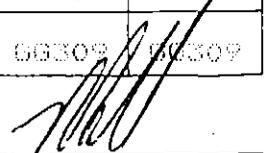
CLIENT ORDER No.

PAGE

		102460.60.08046				28/06/91		5624		1 OF 1	
TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ba	As	Au	Au (R)	Au (S)	
1	DC 251	44	24	154	<0.5	2800	40	<0.008	--	--	
2	DC 252	8	<5	26	<0.5	690	<2	<0.008	--	--	
3	DC 253	<5	<5	41	<0.5	460	<2	<0.008	--	--	
4	DC 254	8	<5	44	<0.5	2000	5	<0.008	--	--	
5	DC 255	<5	<5	77	0.8	890	6	<0.008	--	--	
6	DC 256	<5	<5	52	<0.5	1100	20	<0.008	--	--	
7	DC 257	7	9	79	<0.5	2700	9	<0.008	--	--	
8	DC 258	5	11	99	<0.5	1550	320	<0.008	--	--	
9	DC 259	12	<5	72	<0.5	160	25	<0.008	--	--	
10	DC 260	<5	<5	31	<0.5	170	<2	<0.008	--	--	
11	DC 261	<5	20	121	<0.5	920	4	<0.008	--	<0.008	
12	DC 262	51	<5	85	<0.5	5450	2	<0.008	<0.008	--	
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23	DETECTION	5	5	5	0.5	10	2	0.008	0.008	0.008	
24	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
25	METHOD	GA101	GA101	GA101	GA101	GX401	GX401	GG309	GG309	GG309	

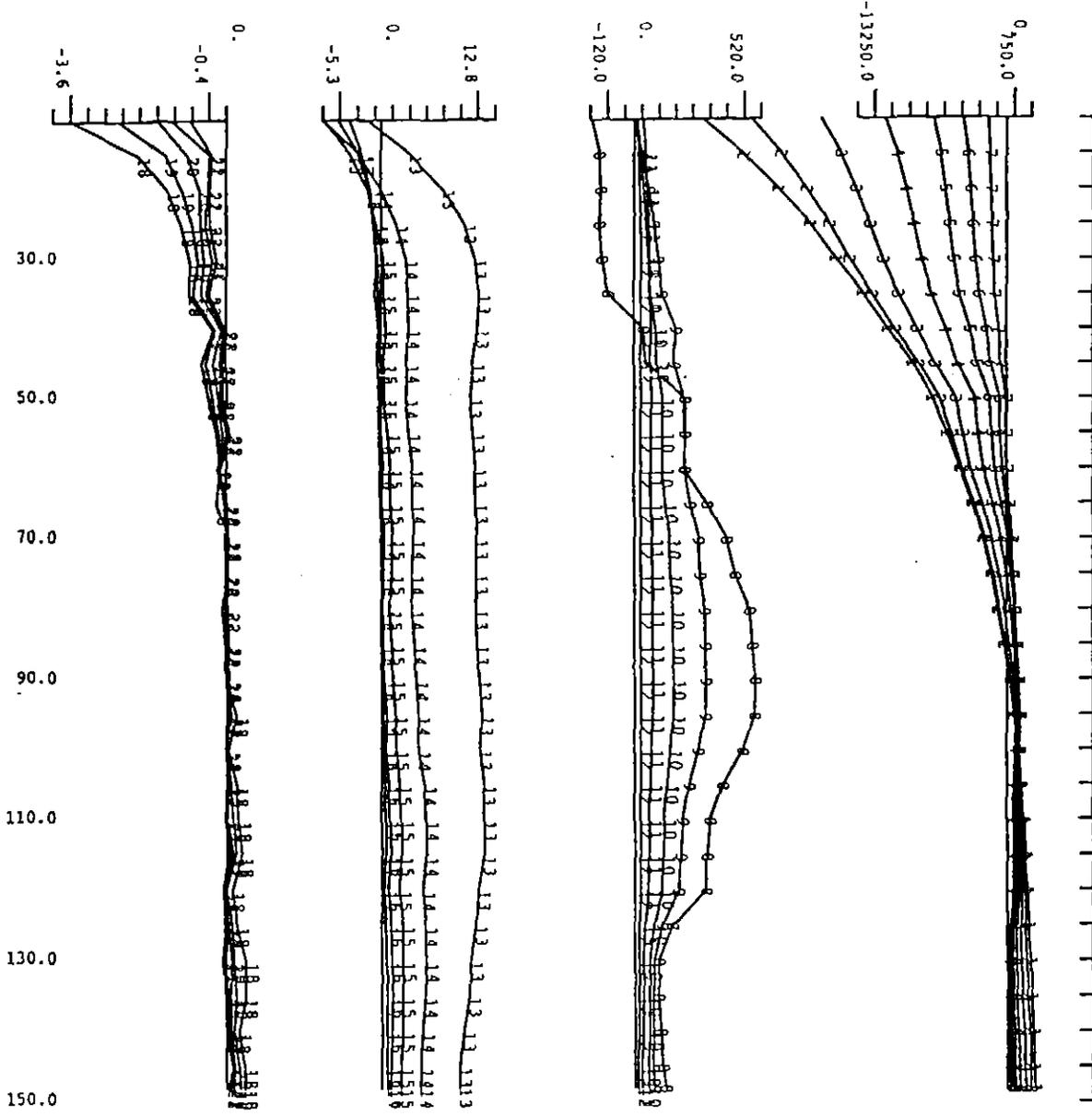
Results in ppm unless otherwise specified  
 T = element present, but concentration too low to measure  
 X = element concentration is below detection limit  
 -- = element not determined

AUTHORISED  
OFFICER



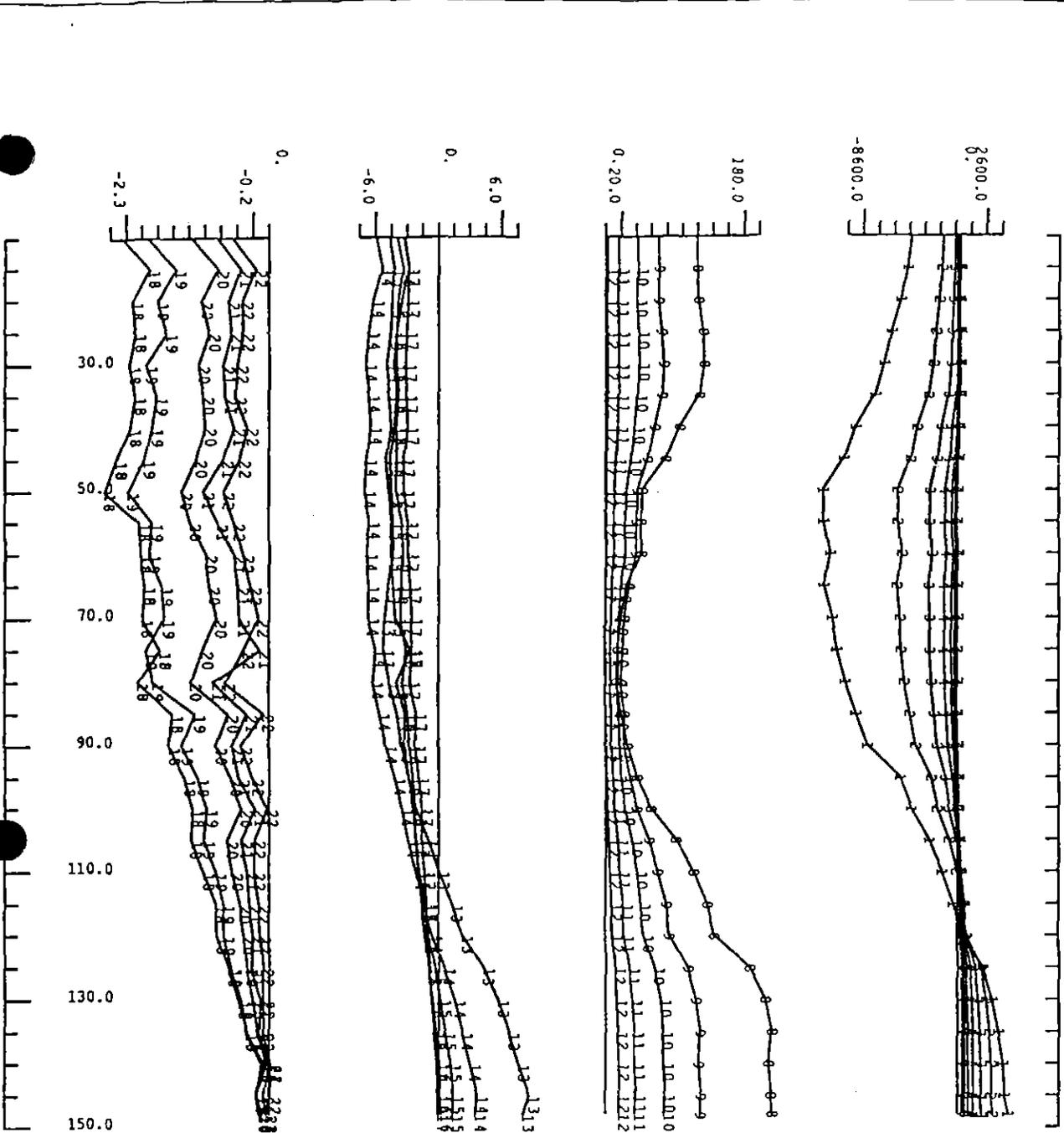
APPENDIX 3

DOWNHOLE EM PROFILES TC-01



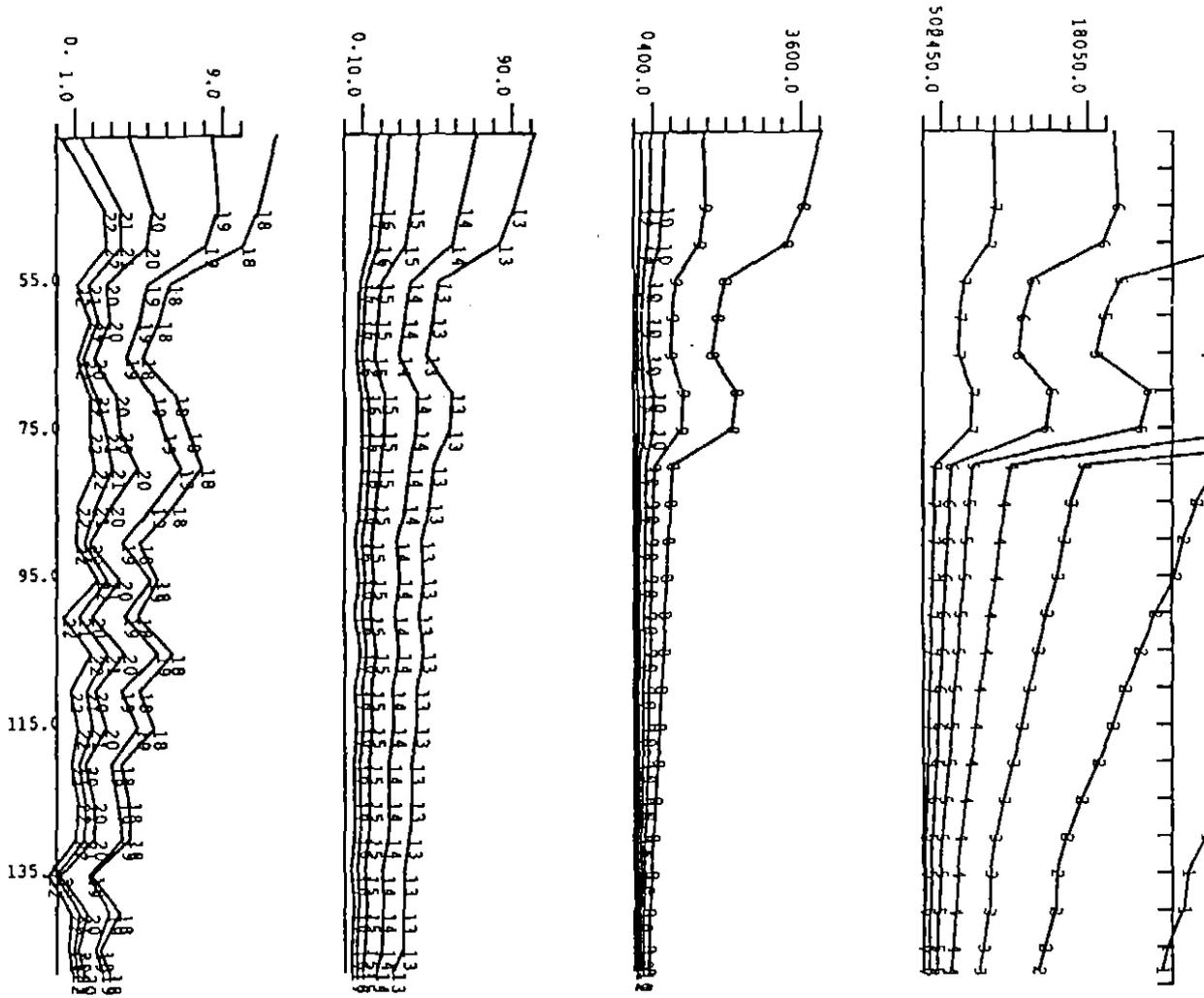
BHP TAS DDH  
ZONGE GDP-16  
TRANSIENT ELECTROMAGNETICS  
LOOP 1

DH-COMPONENT



BHP TAS DDH  
ZONGE GDP-16  
TRANSIENT ELECTROMAGNETICS  
LOOP 2

DH-COMPONENT



BHP TAS DDH  
ZONGE GDP-16  
TRANSIENT ELECTROMAGNETICS  
LOOP 3

DH-COMPONENT

APPENDIX 2

Garfield/Clarke Valley

rock chip geochemistry

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	TNORTH metres	EAST metres	TEAST metres	CODE	SAMPLR	GRID	DATE	QCONT	MAP	REF	KIND	ROCK	UNIT	ALTER	OREMIN	VEINS
T 22283	2400	326525	3125	380715	5533	MFJC	GCV	JAN.92		SH4A 5	3832	RC	SILT	Cv	MS		
T 22284	2030	326180	4800	382298	5533	MFJC	GCV	JAN.92		SH3C 5	3832	RF	FELS	Cv	MSCL	PY	
T 22285	2000	326183	4840	382359	5533	MFJC	GCV	JAN.92		SH3C 5	3832	RF	FELS	Cv	MSHE		
T 22286	2000	326171	4825	382341	5533	MFJC	GCV	JAN.92		SH3C 5	3832	RF	FELS	Cv	MSHE		
T 22287	2000	326126	4750	382276	5533	MFJC	GCV	JAN.92		SH3C 5	3832	RF	FELS	Cv	CL	PY	STQZCA
T 22288	2000	325168	3075	380890	5533	MFJC	GCV	JAN.92		SH4A 5	3832	RC	FELS	Cv	MSLI		
T 22289	2000	324748	2290	380281	5533	MFJC	GCV	JAN.92 TS		SH4A 5	3832	RC	FELS	Cy	MSCLLI		
T 22290	2000	324634	2105	380137	5533	MFJC	GCV	JAN.92		SH4A 5	3832	RC	XVLC	Cy	MSLI	PY	
T 22291	2000	324551	1985	380046	5533	MFJC	GCV	JAN.92		SH4A 5	3832	RC	SILT	Cy	MSLIHE		
T 22292	1400	324160	2195	380522	5533	MFRF	GCV	JAN.92		SH4A 5	3832	RC	XVOL	Cy	MSCL		
T 22293	2000	324236	1475	379626	5533	MFJC	GCV	JAN.92 TS		SH4A 5	3832	RC	SHSN	Cy	MSLI	PY	
T 22294	1800	324074	1510	379772	5533	MFJC	GCV	JAN.92 TS		SH4A 5	3832	RF	XEPI	Cy	MSLI		
T 22295	1800	324161	1540	379886	5533	MFJC	GCV	JAN.92		SH4A 5	3832	RC	ANDS	Cy	MSCL		
T 22296	1600	324551	2630	380760	5533	MFRF	GCV	JAN.92 TS		SH4A 5	3832	RF	FELS	Cv	MSLICL		
T 22297	1600	324578	2680	380799	5533	MFRF	GCV	JAN.92		SH4A 5	3832	RF	FELS	Cv	BL		
T 22298	1400	324883	3460	381543	5533	MFRF	GCV	JAN.92		SH4A 5	3832	RF	FELS	Cv	CLHE		
T 22299	1400	324841	3380	381492	5533	MFRF	GCV	JAN.92		SH4A 5	3832	RF	FELS	Cv	MS		
T 22300	1400	324707	2145	381297	5533	MFRF	GCV	JAN.92		SH4A 5	3832	RF	FELS	Cv	MSLI		

Laboratory:  
Method :  
Det. Limit:

069088

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	TNORTH metres	EAST metres	TEAST metres	CODE	SAMPLR	GRID	DATE	QCONT	MAP	REF	KIND	ROCK	UNIT	ALTER	OREMIN	VEINS
T 22401	4000	326691	2965	379613	5533	SH	GCV	DEC.91		SH3C 5	3632	RC	FELS	Cv			
	Remark: Typical Cvc felsic, pale green feldspar phyrlic.																
T 22402	4000	326667	2920	379580	5533	SH	GCV	DEC.91		SH3C 5	3632	RC	FELS	Cv			
T 22403	4000	326563	2750	379452	5533	SH	GCV	DEC.91		SH3C 5	3632	RC	EPIC	Cy			
	Remark: Medium green sandy epiclastic.																
T 22404	4000	326524	2680	379396	5533	SH	GCV	DEC.91 TS		SH3C 5	3632	RC	EPIC	Cy			
	Remark: Quartz feldspar phyrlic xtal-rich green epiclastic.																
T 22405	4000	326220	2170	379013	5533	SH	GCV	DEC.91 TS		SH3C 5	3632	RC	EPIC	Cy			
	Remark: Cytq, quartz phyrlic Yolande sequence, pale green.																
T 22406	3800	325991	2000	378995	5533	SH	GCV	DEC.91 TS		SH4A 5	3632	RC	VLCC	Cy			
	Remark: Cytqf. Quartz feldspar phyrlic "tuff".																
T 22407	3600	326457	3030	379926	5533	SH	GCV	DEC.91		SH3C 5	3632	RC	FELS	Cv			
T 22408	3600	326283	2780	379719	5533	SH	GCV	DEC.91		SH3C 5	3632	RC	VLCC	Cy			
	Remark: Cytq. Quartz phyrlic mass flow ? unit.																
T 22409	3600	326190	2630	379591	5533	SH	GCV	DEC.91 TS		SH3C 5	3632	RC	ANDS	Cy			
	Remark: Med-grained, medium green feldspar phyrlic.																
T 22410	3600	326175	2600	379570	5533	SH	GCV	DEC.91		SH3C 5	3632	RC	ANDS	Cy			
	Remark: Feldspar-pyroxene phyrlic andesite.																
T 22411	3600	325688	1753	378920	5533	SH	GCV	DEC.91		SH4A 5	3632	RC	CONG	Ct	MS	GL	
T 22412	3400	325505	1735	379000	5533	SH	GCV	DEC.91		SH4A 5	3632	RC	CONG	Ct	MS	HS	
	Remark: Dukes breccia, strongly sericitized, clasts of specular hematite.																
T 22413	3400	325587	1820	379107	5533	SH	GCV	DEC.91		SH4A 5	3632	RC	EPIC	Cy			
	Remark: Interbedded Cys-Cyt.																
T 22414	3400	325789	2220	379393	5533	SH	GCV	DEC.91		SH4A 5	3632	RC	ANDS	Cy			
T 22415	4400	326969	2880	379346	5533	SHRF	GCV	DEC.91		SH3C 5	3632	RC	EPIC	Cy			
	Remark: Green feldspar-phyrlic epiclastic.																
T 22416	4400	326808	2630	379152	5533	SHRF	GCV	DEC.91		SH3C 5	3632	RC	VLCC	Cy			
	Remark: Cytq.																
T 22417	4400	326481	2100	378749	5533	SHRF	GCV	DEC.91		SH3C 5	3632	RC	FELS	Cy			
	Remark: Feldspar-phyrlic: Central sequence ?																
T 22418	4200	326285	1910	378780	5533	SHRF	GCV	DEC.91		SH3C 5	3632	RC	CONG	Ct	MSPYLI		
	Remark: Ctc, strongly sericitized, with lim. cubes after py, up to 5mm.																
T 22419	4260	326345	2000	378753	5533	SHRF	GCV	DEC.91		SH3C 5	3632	RC	SHAL	Cy			
	Remark: Loc Gar. River, between 4200N & 4400N, laminated v. cherty shale.																

Laboratory  
Method  
Date Limit

680690

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	TNORTH metres	EAST metres	TEAST metres	CODE	SAMPLR GRID	DATE	QCONT	MAP	REF	KIND	ROCK	UNIT	ALTER	OREMIN	VEINS
T 22420	4600	326599	2220	378695	5533	SHRF GCV	DEC.91		SH3C 5	3632	RC	FELS	Cy			
	Remark:Cytf or Ccf? Feldspar-phyric unit in Yolande sequence.															
T 22421	4800	327156	2686	378937	5533	RFKS GCV	DEC.91		SH3C 5	3632	RC	FELS	Cy			
	Remark:Felsic schist (?Cyt).															
T 22422	4800	327026	2500	378776	5533	RFKS GCV	DEC.91		SH3C 5	3632	RC	VLCC	Cy	KA		
	Remark:Coarse-grained Cytq outcrop.															
T 22423	4800	326939	2350	378664	5533	RFKS GCV	DEC.91		SH3C 5	3632	RC	VLCC	Cy	KA		
	Remark:Strongly foliated Cytq (minor relict quartz).															
T 22424	5000	327237	2585	378768	5533	RFKS GCV	DEC.91		SH3C 5	3632	RC	VLCC	Cy		PY	
	Remark:Weakly foliated massive pale green Cytq (disseminated pyrite).															
T 22425	3400	326881	4000	380840	5533	RFRD GCV	DEC.91		SH3C 5	3832	RC	LAVA	CV	KAMS		
	Remark:Very weathered massive felsic (Ccf2).															
T 22426	2800	326633	4365	381493	5533	RFRD GCV	DEC.91		SH3C 5	3832	RC	FELS	CV	MSSI		
	Remark:Massive, altered light green Ccf outcrop.															
T 22427	2820	326940	4850	381868	5533	RFRD GCV	DEC.91		SH3C 5	3832	RC	LAVA	CV	KAMS	PY	
	Remark:Massive felsic lava.(minor disseminated pyrite).															
T 22428	2920	326993	4850	381806	5533	RFRD GCV	DEC.91		SH3C 5	3832	RC	LAVA	CV	KAMSSI		
	Remark:Massive, silicified felsic (Ccf2).															
T 22429	3000	326824	4475	381472	5533	RFRD GCV	DEC.91		SH3C 5	3832	RC	LAVA	CV	SIMS		
	Remark:Massive, silicified felsic. (Ccf2).															
T 22430	3000	326808	4450	381451	5533	RFRD GCV	DEC.91		SH3C 5	3832	RC	LAVA	CV	MSSI		
	Remark:Massive felsic. (Ccf2).															
T 22431	3000	326679	4250	381280	5533	RFRD GCV	DEC.91		SH3C 5	3832	RC	FELS	CV	MSSICL	PY	
	Remark:Wkly pyritic, Qtz-veined, massive, green Ccf.															
T 22432	3200	326179	3155	380274	5533	RFRD GCV	DEC.91		SH3C 5	3832	RC	LAVA	CV			
	Remark:Strongly foliated felsic. (Ccf2).															
T 22433	3200	326060	2960	380124	5533	RFRD GCV	DEC.91		SH3C 5	3832	RC	FELS	CV	KA		
	Remark:Moderately foliated Ccf.															
T 22434	3200	325985	2790	380010	5533	RFRD GCV	DEC.91		SH4A 5	3832	RC	VLCC	Cy	KA		
	Remark:Strongly foliated fine-grained Cytq.															
T 22435	3200	325431	1975	379272	5533	RFRD GCV	DEC.91		SH4A 5	3632	RC	SAND	CV			
	Remark:V.strongly foliated,medium grained,quartzofeldspathic sandstone (Cys).															
T 22436	3000	325285	1905	379394	5533	RFRD GCV	DEC.91		SH4A 5	3632	RC	XVLC	Cy			
	Remark:Extremely K2O-rich felsic volcanoclastic.															

Laboratory:

Method :

Det. Limit:

069090

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	TNORTH metres	EAST metres	TEAST metres	CODE	SAMPLR GRID	DATE	QCONT	MAP	REF	KIND	ROCK	UNIT	ALTER	OREMIN	VEINS
T 22437	3000	325492	2280	379676	5533	RFRD GCV	DEC.91		SH4A 5	3632	RC	ANDS	Cy	CL		
	Remark:Small outcrop of v.weathered,strongly foliated andesite.															
T 22438	3000	325815	2810	380121	5533	RFKS GCV	DEC.91 TS		SH4A 5	3832	RC	LAVA	Cv			
	Remark:Large outcrop of strongly foliated felsic.(Ccf2).															
T 22439	3000	325557	2385	379757	5533	RFKS GCV	DEC.91		SH4A 5	3632	RC	VLCC	Cy			
	Remark:Extremely foliated Cytq.															
T 22440	3300	326076	2825	379960	5533	RFKS GCV	DEC.91		SH3C 5	3632	RC	FELS	Cv	KA		
	Remark:White,very weathered felsic volcanic.															
T 22441	2800	325685	2810	380219	5533	RFRD GCV	DEC.91		SH4A 5	3832	RC	LAVA	Cv	KA		
	Remark:Strongly foliated felsic.(Ccf2).															
T 22442	2800	325604	2675	380103	5533	RFRD GCV	DEC.91		SH4A 5	3832	RC	VLCC	Cy	KA		
	Remark:Very strong foliated Cyt.															
T 22443	2800	325370	2275	379790	5533	RFRD GCV	DEC.91		SH4A 5	3632	RC	ANDS	Cy	CL		
	Remark:Green, strongly foliated, altered.															
T 22444	2800	325316	2178	379718	5533	RFRD GCV	DEC.91		SH4A 5	3632	RC	ANDS	Cy	CL		
	Remark:Very weathered.															
T 22445	2800	325305	2175	379699	5533	RFRD GCV	DEC.91		SH4A 5	3632	RC	ANDS	Cy	CL		
	Remark:Extremely weathered.															
T 22446	2600	326570	4600	381801	5533	RFKS GCV	DEC.91		SH3C 5	3832	RC	LAVA	Cv	SI		
	Remark:Large silicified felsic lava (Ccf2) outcrop.															
T 22447	2980	325080	1555	379153	5533	RFRD GCV	JAN.91		SH4A 5	3632	RC	CONG	Ct			
	Remark:Very large Jukes Breccia outcrop with patchy gossan.															
T 22448	4400	326973	2875	379352	5533	JC GCV	JAN.92 TS		SH3C 5	3632	RC	EPIC	Cy			
	Remark:feldspar phyrlic epiclastic with quartz phenocrysts, Cye.															
T 22449	4400	326890	2750	379245	5533	JC GCV	JAN.92		SH3C 5	3632	RC	SAND	Cy			
	Remark:Bleached(volcanic) sandstone with variable qtz content,grading to silt.															
T 22450	4400	326498	2125	378768	5533	MFJC GCV	JAN.92		SH3C 5	3632	RC	EPIC	Cy			
	Remark:feldspar-quartz phyrlic epiclastic with lithic clasts.															
T 22451	4400	326720	2475	379036	5533	MFJC GCV	JAN.92		SH3C 5	3632	RC	EPIC	Cy			
	Remark:Quartz rich, muscovite rich epiclastic (Cyt).															
T 22452	4400	326529	2175	378811	5533	MFJC GCV	JAN.92		SH3C 5	3632	RC	EPIC	Cy			
	Remark:Quartz phyrlic, minor muscovite.															
T 22453	4400	326481	2100	378749	5533	MFJC GCV	JAN.92		SH3C 5	3632	RC	FELS	Cy			
	Remark:feldspar phyrlic rock resembling Cvc but located in Yolande R sequence.															

Laboratory:  
Method :  
Det. Limit:

069091

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	TNORTH metres	EAST metres	TEAST metres	CODE	SAMPLR	GRID	DATE	QCONT	NAP	REF	KIND	ROCK	UNIT	ALTER	OREMIN	VEINS
T 22454	2600	325685	3130	380604	5533	RFRD	GCV	JAN.92		SH4A 5	3832	RC	ANDS	CV			
T 22455	2600	325554	2930	380462	5533	RFRD	GCV	JAN.92		SH4A 5	3832	RC	SAND	CV			
T 22456	2600	325444	2746	380303	5533	RFRD	GCV	JAN.92		SH4A 5	3832	RC	FELS	CV	MS		
T 22457	2600	325426	2720	380273	5533	RFRD	GCV	JAN.92		SH4A 5	3832	RC	VLCC	Cy			
T 22458	2600	325310	2525	380121	5533	RFRD	GCV	JAN.92		SH4A 5	3832	RC	EPIC	Cy	MS		
T 22459	2600	325122	2215	379889	5533	RFRD	GCV	JAN.92 TS		SH4A 5	3632	RC	ANDS	Cy			
T 22460	2400	325136	2510	380229	5533	RFRD	GCV	JAN.92 TS		SH4A 5	3832	RC	ANDS	Cy	CL		
T 22461	2400	324538	1440	379409	5533	RFRD	GCV	JAN.92 TS		SH4A 5	3632	RC	SAND	Cy			
T 22462	2340	324496	1520	379490	5533	RFRD	GCV	JAN.92		SH4A 5	3632	RC	SAND	Cy	SI		
T 22463	2400	325539	3153	380733	5533	RFRD	GCV	JAN.92		SH4A 5	3832	RC	SAND	CV			
T 22464	2200	325205	2929	380678	5533	RFRD	GCV	JAN.92		SH4A 5	3832	RC	ANDS	CV			
T 22465	2200	325044	2625	380458	5533	RFRD	GCV	JAN.92 TS		SH4A 5	3832	RC	VLCC	Cy			
T 22466	2200	325306	3105	380827	5533	RFRD	GCV	JAN.92		SH4A 5	2832	RC	FELS	CV			
T 22467	1800	324789	2699	380734	5533	RFRD	GCV	JAN.92		SH4A 5	3832	RC	FELS	CV			
T 22468	1800	324471	2160	380290	5533	RFRD	GCV	JAN.92		SH4A 5	3832	RC	VLCC	Cy			
T 22469	1800	324200	1701	379932	5533	RFRD	GCV	JAN.92 TS		SH4A 5	3632	RC	ANDS	Cy	SI		
T 22470	1800	324940	3025	380990	5533	RFRD	GCV	JAN.92 TS		SH4A 5	3832	RC	LAVA	CV	SIMS		
T 22471	1800	325682	4295	382005	5533	RFRD	GCV	JAN.92		SH4A 5	3832	RC	FELS	CV	SI		

Laboratory:

Method :

Det. Limit:

069092

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	TNORTH metres	EAST metres	TEAST metres	CODE	SAMPLR GRID	DATE	QCONT	MAP	REF	KIND	ROCK	UNIT	ALTER	OREMIN	VEINS
T 22472		328580		379695	5533	MF AMB	JAN.92		SH3C 5	3632	RF	SAND	0o	MSLI		PY
	Remark:Mineralised Owen sandstone located on the Garfield track.															
T 22473																STD
	Remark:Quartz vein standard.															
T 22474	21000	321033	1297	381329	5533	RFSW GCV	FEB.92		SH4C 5	3832	RC	FELS	CV			
	Remark:Small outcrop Ccf3.															
T 22475	21000	321035	1303	381340	5533	RFSW GCV	FEB.92		SH4C 5	3832	RF	FELS	CV			
	Remark:Ccf3 float.															
T 22476	21000	321032	1600	381524	5533	RFSW GCV	FEB.92		SH4C 5	3832	RC	VLCC	Cy			
	Remark:Coarse-grained Cytqf.															
T 22477	21000	321030	1654	381679	5533	RFSW GCV	FEB.92		SH4C 5	3832	RC	FELS	CV		SIMS	
	Remark:Massive, pale green silicified Ccf.															
T 22478	21000	321023	1830	381867	5533	RFSW GCV	FEB.92	TS	SH4C 5	3832	RC	FELS	CV			
	Remark:Ccf3 outcrop.															
T 22479	21000	321014	2244	382268	5533	RFSW GCV	FEB.92		SH4C 5	3832	RC	FELS	CV		SIMS	
	Remark:Massive, pale green Ccf, with MnO2 veins and patches.															
T 22480	21030	321050	2500	382535	5533	RFSW GCV	FEB.92	TS	SH4C 5	3832	RC	FELS	CV		SICL	
	Remark:Pinkish, silicified Ccf3 outcrop.															
T 22481	21210	321216	2280	382327	5533	RFSW GCV	FEB.92		SH4C 5	3832	RC	FELS	CV			
	Remark:Coarse felsic breccia (Hyaloclastite).															
T 22482	21200	321213	2025	382067	5533	RFSW GCV	FEB.92		SH4C 5	3832	RC	FELS	CV		SIMS	
	Remark:Massive, orangey-green Ccf outcrop.															
T 22483	21200	321213	1895	381927	5533	RFSW GCV	FEB.92		SH4C 5	3832	RC	FELS	CV			
	Remark:Ccf3 outcrop.															
T 22484	21200	321209	1685	381721	5533	RFSW GCV	FEB.92		SH4C 5	3832	RC	FELS	CV			
	Remark:Ccf3 outcrop (crystal-rich).															
T 22485	20400	320444	1544	381568	5533	RFSW GCV	FEB.92		SH4C 5	3832	RC	FELS	CV		SI	
	Remark:Pinkish, moderately silicified Ccf outcrop.															
T 22486	20400	320438	2105	382139	5533	RFSW GCV	FEB.92		SH4C 5	3832	RC	SHAL	CV			PY
	Remark:Grey shale, minor pyrite veining along bedding planes.															
T 22487	20400	320439	2310	382334	5533	RFSW GCV	FEB.92		SH4C 5	3832	RC	FELS	CV		SI	
	Remark:Light grey, massive, silicified Ccf outcrop.															
T 22488	20200	320243	2355	382247	5533	RFSW GCV	FEB.92		SH4C 5	3832	RF	SHAL	CV			PY
	Remark:Grey shale float, disseminated pyrite.															

Laboratory:  
Method :  
Det. Limit:

069093

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	TNORTH metres	EAST metres	TEAST metres	CODE	SAMPLR	GRID	DATE	QCONT	MAP	REF	KIND	ROCK	UNIT	ALTER	OREMIN	VEINS
T 22489	20200	320241	1995	381998	5533	RFSW	GCV	FEB.92		SH4C 5	3832	RC	FELS	Cv			
	Remark:Ccf3 outcrop.																
T 22490	20200	320238	1910	381922	5533	RFSW	GCV	FEB.92		SH4C 5	3832	RC	VLCC	Cy	KA		
	Remark:Very strongly foliated Cytqf outcrop.																
T 22491	19600	319637	955	380969	5533	RFSW	GCV	FEB.92		SH4C 5	3832	RC	VLCC	Cy			
	Remark:Intensely quartz-veined Cytq outcrop.																
T 22492	19400	319434	1200	381218	5533	RFSW	GCV	FEB.92		SH4C 5	3832	RC	VLCC	Cy			
	Remark:Quartz-veined Cytq outcrop.																
T 22493	19000	319042	1400	381419	5533	RFSW	GCV	FEB.92		SH4C 5	3832	RC	VLCC	Cy			
	Remark:Strongly foliated Cyt outcrop.																
T 22494	18763	318804	575	380597	5533	RFSW	GCV	FEB.92		SH4C 5	3832	RC	CONG	Ct			
	Remark:Ctc outcrop.																
T 22495	18590	318634	1225	381253	5533	RFSW	GCV	FEB.92	TS	SH4C 5	3832	RC	VLCC	Cy			
	Remark:Cytqf outcrop.																
T 22496	18400	318434	1500	381517	5533	RFSW	GCV	FEB.92		SH4C 5	3832	RC	FELS	Cv	MS		
	Remark:Ccf outcrop.																
T 22497	18400	318457	598	380608	5533	RFSW	GCV	FEB.92		SH4C 5	3832	RC	CONG	Ct			
	Remark:Quartz-veined Ctc outcrop.																
T 22498	18200	318257	1425	381443	5533	RFSW	GCV	FEB.92	TS	SH4C 5	3832	RC	VLCC	Cy	SIMS		
	Remark:Quartz-veined Cytq outcrop.																
T 22499	18800	318849	1471	381490	5533	RFSW	GCV	FEB.92		SH4C 5	3832	RC	VLCC	Cy			
	Remark:Cytq outcrop.																
T 22500									STD								
	Remark:Vein quartz standard.																
T 22701	200	323118	2080	381170	5533	SHKS	GCV	JAN.92		SH4A 5	3832	RC	XVOL	Cy			
	Remark:Pale green, feldspar-phyric volcanic.																
T 22702	200	323269	2360	381379	5533	SHKS	GCV	JAN.92	TS	SH4A 5	3832	RC	XVOL	Cy			
	Remark:Pale green, feldspar-phyric volcanic.Cytf.																
T 22703		323131	2396	381523	5533	SHKS	GCV	JAN.91		SH4A 5	3832	RC	LAVA	Cv			
	Remark:Massive, feldspar-phyric Cvc.																
T 22704		322994	2150	381339	5533	SH	GCV	JAN.92	TS	SH4A 5	3832	RC	ANDS	Cv			
	Remark:Andesite ? Hb phenocrysts.																
T 22705		322493	1290	380639	5533	SH	GCV	JAN.92		SH4A 5	3832	RC	XVOL	Cy			
	Remark:Coarse-grained quartz-feldspar porphyry.																

Laboratory:  
Method :  
Det. Limit:

069094

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	TNORTH metres	EAST metres	TEAST metres	CODE	SAMPLR	GRID	DATE	QCONT	MAP	REF	KIND	ROCK	UNIT	ALTER	OREMIN	VEINS
T 22706	200	322903	1695	380878	5533	SH	GCV	JAN.92		SH4A 5	3832	RC	ANDS	Cy			
	Remark:Massive, fine-grained Ccf or Andesite?																
T 22707	400	322627	1025	380207	5533	SH	GCV	JAN.92		SH4A 5	3832	RC	VOLC	Cy			
	Remark:Massive qtz porphyry Cytq.																
T 22708	600	323143	1615	380556	5533	SH	GCV	JAN.92		SH4A 5	3832	RC	EPIC	Cy			
	Remark:Fine-grained med green intermediated volcanic.																
T 22709	400	323331	2135	381077	5533	SH	GCV	JAN.91		SH4A 5	3832	RC	LAVA	Cv			
	Remark:Fine-grained Ccf with small sparse feldspar phenocrysts.																
T 22710	400	323349	2165	381102	5533	SH	GCV	JAN.92		SH4A 5	3832	RC	XVLC	Cv			
	Remark:Fine-grained, feldspar-phyric.																
T 22711	400	323848	3000	381769	5533	SH	GCV	JAN.92 TS		SH4A 5	3832	RC	LAVA	Cv			
	Remark:Classic example of Ccf.																
T 22712	600	323609	2375	381148	5533	SH	GCV	JAN.92		SH4A 5	3832	RC	FELS	Cv			
	Remark:Feldspar-phyric with coarse-grained groundmass.																
T 22713	600	324293	3535	382083	5533	SH	GCV	JAN.92 TS		SH4A 5	3832	RC	LAVA	Cv			
	Remark:Massive fine-grained, feldspar-phyric, xtal-rich volcanic.																
T 22714	1000	323900	2255	380833	5533	SH	GCV	JAN.92		SH4A 5	3832	RC	SHAL	Cy			
	Remark:Fine-grained felsic, strongly foliated, aphyric.																
T 22715	1000	324167	2775	381232	5533	SH	GCV	FEB.92		SH4A 5	3832	RC	LAVA	Cv			
	Remark:Coarse-grained, feldspar-phyric Ccf2.																
T 22716	1000	324660	3535	381816	5533	SH	GCV	FEB.92		SH4A 5	3832	RC	FELS	Cv			
	Remark:Xtal rich fine-grained, foliated Ccf1.																
T 22717	23400	323392	1190	381182	5533	SH	GCV	FEB.92		SH4A 5	3832	RC	XVLC	Cy			
	Remark:Feldspar-phyric, dark green.																
T 22718	23400	323389	1945	381929	5533	SH	GCV	FEB.92		SH4A 5	3832	RC	SHAL	Cv	CL	PY	
	Remark:Black shale, py cubes to 10mm.																
T 22719	23400	323388	1970	381988	5533	SH	GCV	FEB.92 TS		SH4A 5	3832	RC	SHAL	Cv	CL		
	Remark:Massive, dark green chloritic silicified volcanic.																
T 22720	23000	322994	1615	381654	5533	SH	GCV	FEB.92 TS		SH4A 5	3832	RC	VOLC	Cv	SICL		
	Remark:Fragmental Ccf.																
T 22721	22600	322583	1650	381666	5533	SH	GCV	FEB.92		SH4A 5	3832	RC	LAVA	Cv			
	Remark:Ccf3 - good example.																
T 22722	22400	322391	1820	381851	5533	SH	GCV	FEB.92		SH4A 5	3832	RC	LAVA	Cv			
	Remark:Ccf with qtz-feldspar spherulites? Siliceous nodules ~ 4mm.																

Laboratory:  
Method :  
Det. Limit:

069095



PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	TNORTH metres	EAST metres	TEAST metres	CODE	SAMPLR	GRID	DATE	QCONT	MAP	REF	KIND	ROCK	UNIT	ALTER	OREMIN	VEINS
T 22741	19200	319241	1735	381758	5533	MFNP	GCV	FEB.92		SH4C 5	3832	RC	VOLC	CV	MSCL		
Remark:Very fine-grained,lava/intrusive?																	
T 22742	19200	319245	2228	382262	5533	MFNP	GCV	FEB.92		SH4C 5	3832	RF	VLCC	CV	MS		
Remark:Coarse xtal rich, epiclastic with lithice																	
T 22743	19200	319240	2300	382325	5533	MFNP	GCV	FEB.92		SH4C 5	3832	RC	SHAL	CV			
Remark:Massive black shale.																	
T 22744	19200	319300	2347	382388	5533	MFNP	GCV	FEB.92 TS		SH4C 5	3832	RC	VLCC	CV	MSCL		
Remark:Xtal rich, sandy textured.																	
T 22745	19000	319102	2570	382629	5533	MFNP	GCV	FEB.92 TS		SH4C 5	3832	RC	FELS	CV	HEMSSI		
Remark:fine-grained.																	
T 22746	18800	318845	2355	382385	5533	MFNP	GCV	FEB.92 TS		SH4C 5	3832	RC	FELS	CV	CLMS	MG	
T 22747	18600	318644	1595	381635	5533	MFNP	GCV	FEB.92		SH4C 5	3832	RC	XVLC	Cy	MSLI	PY	
Remark:Cytqf.																	
T 22748	18600	318641	1675	381713	5533	MFNP	GCV	FEB.92		SH4C 5	3832	RC	FELS	CV	MSLI		
Remark:Sandy textured, strongly cleaved.																	
T 22749	18600	318638	1845	381883	5533	MFNP	GCV	FEB.92		SH4C 5	3832	RF	FELS	CV	MSLI		
T 22750	18400	318423	2165	382188	5533	MFNP	GCV	FEB.92		SH4C 5	3832	RF	FELS	CV	MSSICL		CL
T 22751	18000	318041	1960	381986	5533	MFNP	GCV	FEB.92		SH4C 5	3832	RC	FELS	CV			
T 22752	18000	318042	1880	381917	5533	MFNP	GCV	FEB.92 TS		SH4C 5	3832	RC	FELS	CV	MS		
T 22753									STD								
Remark:Vein Quartz Standard.																	
T 22754	18200	318255	1625	381632	5533	SH	GCV	FEB.92		SH4C 5	3832	RC	ANDS	CV	CL		
Remark:Dark green, feldspar phyrlic.																	
T 22755	18200	318260	1795	381822	5533	SH	GCV	FEB.92		SH4C 5	3832	RC	VLCC	CV	CL		
Remark:Dark green andesitic fragmental.																	
T 22756	18200	318258	1860	381889	5533	SH	GCV	FEB.92 TS		SH4C 5	3832	RC	VOLC	CV	CL		
Remark:Chloritic Cef.																	
T 22757	18200	318258	2310	382332	5533	SH	GCV	FEB.92		SH4C 5	3832	RC	VEIN	CV		MG	CLQZ
T 22758	17200	317204	1950	381984	5533	SH	GCV	FEB.92		SH5A 5	3832	RC	VEIN	CV		MG	
T 22759	18550	318594	1508	381529	5533	SH	GCV	FEB.92		SH4C 5	3832	RC	VOLC	CV	CL		
T 22760	17000	317028	1650		5533	MFSW	GCV	MAR.92		SH5A 6	3832	RC	SHAL	CV		PY	
Remark:Black shale outcrop in creek.																	
T 22761	17000	317025	1835	381866	5533	MFSW	GCV	MAR.92 TS		SH5A 5	3832	RC	FELS	CV	ABCL		
Remark:Feldspar-phyric felsic rock.																	

Laboratory:  
Method :  
Det. Limit:

069097

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	TNORTH metres	EAST metres	TEAST metres	CODE	SAMPLR GRID	DATE	QCONT	MAP	REF	KIND	ROCK	UNIT	ALTER	OREMIN	VEINS
T 22762	16800	316830	1640	381676	5533	MFSW GCV	MAR.92		SH5A 5	3832	RF	SILT	CV	LI		
	Remark:Either a silty sediment or a fine grained xtal rich felsic ?															
T 22763	17000	317037	1195	381228	5533	MFSW GCV	MAR.92		SH6A 5	3832	RF	VLCC	Cy	MSLI	PY	
	Remark:Cytqr with disse pyrite.															
T 22764	17000	317037	1220	381254	5533	MFSW GCV	MAR.92		SH5A 5	3832	RC	VLCC	Cy			
	Remark:Fine grained volcanoclastic or Cytq.															
T 22765	16400	316442	1135	381144	5533	MFSW GCV	MAR.92		SH5A 5	3832	RF	SHAL	Cy	LIMS		
	Remark:A fine grained ferruginous sediment or xtal rich felsic rock.															
T 22772	16600	316626	1675	381713	5533	MFSJ GCV	MAR.92		SH5A 5	3832	RF	FELS	CV	MS		
	Remark:Dark green felsic rock with vy minor quartz phenos.															
T 22773	16600	316623	1900	381935	5533	MFSJ GCV	MAR.92		SH6A 5	3832	RC	FELS	CV	SICL		
	Remark:Representative sample of current outcrop.															
T 22774	16400	316426	1835	381874	5533	MFSJ GCV	MAR.92		SH5A 5	3832	RC	SHAL	CV			
	Remark:Finely bedded black shale.															
T 22775	16400	316426	1835	381876	5533	MFSJ GCV	MAR.92		SH5A 5	3832	RC	SAND	CV	CL		
	Remark:A xtal rich, felsic epiclastic with variable shale fragments.															
T 22776	16400	316427	1750	381789	5533	MFSJ GCV	MAR.92		SH6A 5	3832	RF	VLCC	CV	CLLI		
	Remark:Float in creek.Possibly sandy felsic volcanoclastic-limonitic.															
T 22777	16000	316035	1715	381773	5533	MFSJ GCV	MAR.92		SH5A 5	3832	RF	VLCC	CV	CL		
	Remark:A coarse volcanoclastic rock (polymict?).															
T 22778	16200	316231	1490	381533	5533	MFSJ GCV	MAR.92		SH5A 5	3832	RC	FELS	CV	MSLI		
	Remark:Strongly limonitic altered felsic rock(Ccf).															
T 22779	16200	316227	1070	381107	5533	MFSJ GCV	MAR.92		SH5A 5	3832	RF	FELS	CV	CL		
	Remark:Dark green felsic rock (either Ccf or John's Cys greywacke).															
T 22780	16000	316007	780	380842	5533	MFSJ GCV	MAR.92		SH5A 5	3832	RC	SHAL	Cy			
	Remark:Finely banded black shale in creek.															
T 22781	15800	315837	925	380980	5533	SH GCV	MAR.92		SH5A 5	3832	RF	UNKN	CV	LI		
	Remark:Massive limonite boulder.															
T 22782	21850	321880	1150	381164	5533	JC GCV	MAR.92		SH4C 5	3832	RC	VOLC	CV			
	Remark:Ccf.															
T 22783	21800	321818	1005	381039	5533	JC GCV	MAR.92		SH4C 5	3832	RC	VOLC	CV	SI		
	Remark:Ccf.															
T 22784	21775	321796	1000	381038	5533	JC GCV	MAR.92		SH4C 5	3832	RC	VOLC	CV			
	Remark:Ccf.															

Laboratory:  
Method :  
Det. Limit:

069098

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	TNORTH metres	EAST metres	TEAST metres	CODE	SAMPLR	GRID	DATE	QCONT	MAP	REF	KIND	ROCK	UNIT	ALTER	OREMIN	VEINS
T 22785	21400	321407	79850	379872	5533	JC	GCV	MAR.92		SH4C 5	3632	RC	CONG	Cc			
T 22786	21400	321424	200	380231	5533	JC	GCV	MAR.92	TS	SH4C 5	3832	RC	SILT	Cy			
T 22787	20800	320835	80000	380005	5533	JC	GCV	MAR.92	TS	SH4C 5	3832	RC	SILT	Cy			
T 22788	20400	320411	200	380240	5533	JC	GCV	MAR.92		SH4C 5	3832	RC	CONG	Cc			
T 22789	20380	320402	200	380232	5533	JC	GCV	MAR.92		SH4C 5	3832	RC	SAND	Cc			
T 22790	20200	320215	690	380724	5533	JC	GCV	MAR.92	TS	SH4C 5	3832	RC	VLCC	Cy			
T 22791	21850	321874	1100	381129	5533	JC	GCV	MAR.92	TS	SH4C 5	3832	RC	VLCC	Cy			
T 36701	23400	323392	740	380768	5533	JC	GCV	FEB.92		SH4A 5	3832	RC	VOLC	Cy			
T 36702	23400	323391	79835	379843	5533	JC	GCV	FEB.92		SH4A 5	3632	RC	VOLC	Cy	LIWT		
T 36703	1200	323697	1635	380197	5533	JC	GCV	FEB.92		SH4A 5	3832	RC	VOLC	Cy			
T 36704	1200	323956	2075	380562	5533	JC	GCV	FEB.92		SH4A 5	3832	RC	ANDS	Cy			
T 36705	23020	323039	1000	381067	5533	JC	GCV	FEB.92		SH4A 5	3832	RC	VOLC	Cy			
T 36706	22200	322175	1035	381046	5533	JC	GCV	FEB.92		SH4A 5	3832	RC	SILT	Cv			
T 36707	22000	321975	1050	381065	5533	JC	GCV	FEB.92		SH4C 5	3832	RC	SILT	Cv			
T 36708	22000	321956	80000	380012	5533	JC	GCV	FEB.92		SH4C 5	3832	RC	VOLC	Cy			
T 36709	21400	321426	750	380781	5533	JC	GCV	FEB.92		SH4C 5	3832	RC	VOLC	Cy			
T 36710	21400	321422	505	380536	5533	JC	GCV	FEB.92		SH4C 5	3832	RC	VOLC	Cy	LI		

Laboratory:  
Method :  
Det. Limit:

660690

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	TNORTH metres	EAST metres	TEAST metres	CODE	SAMPLR	GRID	DATE	QCONT	MAP	REF	KIND	ROCK	UNIT	ALTER	OREMIN	VEINS
T 36711	20800	320824	850	380880	5533	JC	GCV	FEB.92		SH4C 5	3832	RC	VOLC	Cy			
T 36712	20600	320612	675	380716	5533	JC	GCV	FEB.92		SH4C 5	3832	RC	VOLC	Cy			
T 36713	20400	320427	250	380287	5533	JC	GCV	FEB.92		SH4C 5	3832	RC	ARLI	Cy			
T 36714	20230	320272	390	380349	5533	JC	GCV	FEB.92		SH4C 5	3832	RC	CONG	Ct		HS	
T 36715	17600	317637	1350	381385	5533	JC	GCV	FEB.92		SH6A 5	3832	RC	VOLC	Cy			
T 36716	20700	320716	380	380414	5533	JC	GCV	FEB.92		SH4C 5	3832	RC	ARLI	Cy		PY	
T 36717	20410	320508	300	380302	5533	JC	GCV	FEB.92		SH4C 5	3832	RC	VOLC	Cy		PY	
T 36801	19480	319510	1500	381520	5533	RFSJ	GCV	FEB.92		SH4C 5	3832	RC	FELS	Cy			
T 36802	19197	319239	1500	381518	5533	RFSJ	GCV	FEB.92		SH4C 5	3832	RC	VLCC	Cy			
T 36803	18760	318815	1500	381535	5533	RFSJ	GCV	FEB.92		SH4C 5	3832	RC	VLCC	Cy			
T 36804	18575	318615	1500	381531	5533	RFSJ	GCV	FEB.92		SH4C 5	3832	RC	VLCC	Cy			
T 36805	18470	318507	1500	381518	5533	RFSJ	GCV	FEB.92 TS		SH4C 5	3832	RC	ANDS	Cv			
T 36806	18425	318456	1500	381518	5533	RFSJ	GCV	FEB.92		SH4C 5	3832	RC	FELS	Cv			
T 36807	18279	318323	1500	381518	5533	RFSJ	GCV	FEB.92		SH4C 5	3832	RC	FELS	Cv			
T 36808	17825	317862	1500	381532	5533	RFSJ	GCV	FEB.92		SH6A 5	3832	RC	VLCC	Cy			
T 36809	17800	317838	1427	381456	5533	RFSW	GCV	FEB.92		SH5A 5	3832	RC	VLCC	Cy			
T 36810	18550	318582	1500	381525	5533	RFSJ	GCV	FEB.92		SH4C 5	3832	RC	FELS	Cv			

Laboratory:  
Method :  
Det. Limit:

069100

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	TNORTH metres	EAST metres	TEAST metres	CODE	SAMPLR	GRID	DATE	QCONT	MAP	REF	KIND	ROCK	UNIT	ALTER	OREMIN	VEINS
T 36811	500	322758	1130	380231	5533	RFST	GCV	MAR.92		SH4A 5	3832	RC	VEIN	Cy			
	Remark: Intense qtz veining within Cytqf.																
T 36812	2693	325685	3000	380463	5533	RFSW	GCV	MAR.92	TS	SH4A 5	3832	RC	ANDS	Cv	CL		
T 36813	3950	325784	1445	378469	5533	RFSO	GCV	MAR.92		SH4A 6	3632	RC	SAND	Ct			
	Remark: Jukes Breccia (sandstone with ?Comstock Tuff fragments).																
T 36814	3920	325720	1380	378422	5533	RFSO	GCV	MAR.92		SH4A 5	3632	RC	VLCC	Ct			
	Remark: Strongly foliated qtz-fspar phyrlic tuff.																
T 36815	3900	325676	1330	378393	5533	RFSO	GCV	MAR.92		SH4A 5	3632	RC	SAND	Ct			
	Remark: Jukes Breccia (qtzofeldspathic sandstone with ?shale Ctt clasts).																
T 36816	2280	324816	2100	380017	5533	RF	GCV	MAR.92		SH4A 6	3832	RC	ANDS	Cy			
	Remark: Very weathered light green rock ? relict hb. (possibly hb-andesite).																
T 36817	2190	324731	2080	380037	5533	RF	GCV	MAR.92		SH4A 5	3832	RC	ANDS	Cy			
	Remark: Dark green, strongly foliated, ?relict fspars.																
T 36818	2190	324735	2080	380045	5533	RF	GCV	MAR.92		SH4A 5	3832	RC	ANDS	Cy	SIMS	PY	
	Remark: Unidentified strongly foliated dark green rock ?andesite.																
T 36819	2180	324737	2100	380064	5533	RF	GCV	MAR.92	TS	SH4A 5	3832	RC	ALTO	Cy	SIMS	PY	
	Remark: Altered andesite (Qtz-ser-py alteration).																
T 36820	2020	324717	2220	380211	5533	RF	GCV	MAR.92		SH4A 5	3832	RC	ANDS	Cy	SIMS		
	Remark: ?Fspar-phyric, v. weathered light green rock (possibly andesite).																
T 36821	2020	324723	2230	380223	5533	RF	GCV	MAR.92		SH4A 5	3832	RC	ALTO	Cy	SIMS	PY	
	Remark: Greenish strongly foliated fspar-phyric rock. Also py-sil-ser alter.																
T 36822	2040	324590	1990	380027	5533	RF	GCV	MAR.92	TS	SH4A 5	3832	RC	SILT	Cy			
	Remark: Dark greenish grey rock, vaguely clastic texture, could be Cys or Ands.																
T 36823	2050	324584	1990	380027	5533	RF	GCV	MAR.92		SH4A 5	3832	RC	ANDS	Cy			
	Remark: Greenish grey extremely fspar-phyric rock (could be felsic or ands).																
T 36824	2130	324663	2050	380033	5533	RF	GCV	MAR.92		SH4A 5	3832	RC	ANDS	Cy			
	Remark: Moderately fspar phyric greenish rock.																
T 36825									STO								
	Remark: Vein quartz standard.																

Laboratory:  
Method :  
Det. Limit:

069101

NAME:ALTER

AB ALBITISED  
HE HEMATITIC  
MS SERICITIC  
WT WEATHERED

BL BLEACHED  
KA KAOLINISED  
PY PYRITIC

CL CHLORITIC  
LI LIMONITIC  
SI SILICIFIED

NAME:CODE

5533 MT. DARWIN/QUEENSTOWN

NAME:GRID

AMG AUST. MAP GRID

GCV GARFIELD/CLARK VALLEY

NAME:KIND

RC ROCK CHIP

RF ROCK FLOAT

NAME:MAP

SH3C 5 SHEET 3C 1:5000 SCALE  
SH5A 5 SHEET 5A 1:5000 SCALE

SH4A 5 SHEET 4A 1:5000 SCALE

SH4C 5 SHEET 4C 1:5000 SCALE

NAME:OREMIN

GL GALENA  
PY PYRITE

HS HEMATITE, SPEC

MG MAGNETITE

NAME:QCNT

STD STANDARD

TS THIN SECTION

NAME:REF

3632 1:25000 SCALE SHEET #

3832 1:25000 SCALE SHEET #

NAME:ROCK

ALTD ALTERED ROCK.  
CONG CONGLOMERATE  
LAVA LAVA  
SHAL SHALE  
UNKN ROCK TYPE UNKNOWN  
XEPI CRYSTAL-RICH EPICLASTIC

ANDS ANDESITE  
EPIC EPICLASTIC  
PYRY PORPHYRY  
SHSN SHALE+SANDSTONE  
VEIN VEIN  
XVLC CRYSTAL-RICH VOLCANICLASTIC

ARLI LITHIC ARENITE  
FELS FELSIC  
SAND SANDSTONE  
SILT SILTSTONE  
VLCC VOLCANICLASTIC  
XVOL CRYSTAL-RICH VOLCANIC

069102

NAME: SAMPLR

JC JOHN CROSSING  
RD ROBIN DUNCAN  
SH SCOTT HALLEY  
SW STEVE WHITE

KS KEITH CAMERON-SMITH  
RF RICHARD FARE  
SJ STEVE JENKINS

MF MARK FLEMING  
SD SCOTT DOUGLAS  
ST STEPHEN TRACEY

NAME: UNIT

Ct GAMBRIAN TYNDALL GROUP  
Oo ORDOVICIAN OWEN CONGLOMERATE

Gv GAMBRIAN CENTRAL VOLCANICS

Cy GAMBRIAN YOLANDE GROUP

NAME: VEINS

CA CALCITE  
QZ QUARTZ

CL CHLORITE  
ST STRINGER

DE DENDRITIC

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	TNORTH metres	EAST metres	NORTH metres	TEAST metres	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MG %	P %	TI PPM	V PPM	ZR PPM
T 22283	325625	3125	2400	380715	6	142	42	-0.5	23	0.10	0.030	4250	75	290
T 22284	326180	4800	2030	382298	-5	346	44	-0.5	-5	0.02	0.017	1750	-5	320
T 22285	326183	4840	2000	382359	42	-5	20	-0.5	-5	-0.01	0.015	1600	7	290
T 22286	326171	4825	2000	382341	-5	32	20	-0.5	-5	0.01	0.004	1850	5	300
T 22287	326126	4750	2000	382276	5	33	95	-0.5	-5	0.03	0.014	1550	-5	270
T 22288	325168	3075	2000	380890	6	-5	29	-0.5	-5	0.02	0.020	2050	7	350
T 22289	324748	2290	2000	380281	28	5	58	-0.5	5	0.06	0.080	2750	160	210
T 22290	324634	2105	2000	380137	1210	14	6	-0.5	14	0.02	0.213	3400	360	210
T 22291	324551	1985	2000	380046	45	84	10	-0.5	-5	-0.01	0.013	1500	-5	270
T 22292	324160	2195	1400	380522	12	4	77	-1.0	8	0.72	0.051	1800	70	210
T 22293	324236	1475	2000	379626	-5	69	85	-0.5	-5	0.03	0.017	1650	25	160
T 22294	324074	1510	1800	379772	-5	10	82	-0.5	11	0.12	0.045	5750	130	270
T 22295	324161	1640	1800	379886	41	-5	51	-0.5	12	0.14	0.094	2550	140	180
T 22296	324551	2630	1600	380760	3	-3	75	-1.0	6	0.31	0.008	1900	9	340
T 22297	324578	2680	1600	380799	4	4	63	-1.0	6	0.36	0.008	2400	8	410
T 22298	324883	3460	1400	381543	64	-3	48	-1.0	14	0.95	0.022	2450	45	340
T 22299	324841	3380	1400	381492	40	-3	140	-1.0	24	1.96	0.007	2000	20	180
T 22300	324707	2145	1400	381297	6	3	39	-1.0	7	0.58	0.015	1600	-5	320
T 22401	326691	2965	4000	379613	3	-3	30	-1.0	6	0.32	0.006	1500	6	310
T 22402	326657	2920	4000	379580	2	3	25	-1.0	6	0.34	0.008	1750	-5	350
T 22403	326563	2750	4000	379452	8	-3	33	-1.0	8	0.60	0.049	4400	90	320
T 22404	326524	2680	4000	379396	6	-3	71	-1.0	13	1.02	0.046	3800	120	250
T 22405	326220	2170	4000	379013	12	18	70	-1.0	16	1.08	0.026	2400	50	260
T 22406	325991	2000	3800	378995	9	8	41	-1.0	9	1.32	0.025	2300	45	290
T 22407	326457	3030	3600	379926	3	-3	25	-1.0	7	0.39	0.011	1200	5	250
T 22408	326283	2780	3600	379719	6	-3	26	-1.0	7	0.37	0.018	1550	9	260
T 22409	326190	2630	3600	379591	27	-3	200	-1.0	45	1.04	0.088	3950	250	210
T 22410	326175	2600	3600	379570	13	-3	400	-1.0	52	1.53	0.076	3900	250	200
T 22411	325688	1753	3600	378920	4	-3	32	-1.0	7	0.42	0.005	1250	25	160
T 22412	325505	1735	3400	379000	6	-3	38	-1.0	8	0.39	0.016	1600	40	180
T 22413	325587	1870	3400	379107	4	9	18	-1.0	6	0.55	0.016	1550	6	230
T 22414	325789	2220	3400	379393	88	15	330	-1.0	24	1.02	0.136	3350	160	220
T 22415	326969	2880	4400	379346	4	4	120	-1.0	7	0.76	0.049	3050	45	240
T 22416	326808	2630	4400	379152	4	-3	12	-1.0	5	0.50	0.008	1300	11	220
T 22417	326481	2100	4400	378749	6	12	51	-1.0	9	1.03	0.022	3700	30	350

Laboratory:  
Method:  
Date:

| ANALAB |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| GA140  | GX401  | GX401  | GX401  |
| 5.000  | 5.000  | 5.000  | 0.500  | 5.000  | 0.010  | 0.003  | 1.000  | 5.000  | 5.000  |

069104

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	TNORTH metres	EAST metres	NORTH metres	TEAST metres	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MG %	P %	TI PPM	V PPM	ZR PPM
T 22418	326285	1910	4200	378780	17	-3	55	-1.0	12	0.48	0.031	5250	130	270
T 22419	326345	2000	4260	378758	6	13	20	-1.0	6	0.44	0.008	630	-5	140
T 22420	326599	2220	4600	378695	5	3	84	-1.0	10	1.02	0.033	3800	50	250
T 22421	327156	2685	4800	378937	-5	7	10	-0.5	-5	0.01	0.003	920	6	95
T 22422	327026	2500	4800	378776	-5	-5	5	-0.5	-5	0.01	0.005	2350	45	250
T 22423	326939	2350	4800	378664	-5	6	18	-0.5	8	0.02	0.005	1950	11	270
T 22424	327237	2585	5000	378768	-5	10	-5	-0.5	7	0.01	0.004	1150	5	160
T 22425	326881	4000	3400	380840	-5	5	45	-0.5	7	0.02	0.005	2150	12	310
T 22426	326633	4365	2800	381493	8	-5	38	-0.5	8	0.03	0.007	2200	18	340
T 22427	326940	4850	2820	381868	6	13	34	-0.5	6	0.02	0.013	1750	12	290
T 22428	326993	4850	2920	381806	-5	67	70	-0.5	5	0.04	0.017	1800	9	300
T 22429	326824	4475	3000	381472	-5	-5	40	-0.5	10	0.03	0.004	1850	8	280
T 22430	326808	4450	3000	381451	5	5	36	-0.5	8	0.02	0.016	1850	12	290
T 22431	326679	4250	3000	381280	17	245	106	-0.5	8	0.02	0.012	1550	8	230
T 22432	326179	3155	3200	380274	-5	-5	28	-0.5	11	0.03	0.005	1200	-5	240
T 22433	326060	2960	3200	380124	-5	-5	8	-0.5	8	0.01	0.005	1650	-5	290
T 22434	325985	2790	3200	380010	-5	-5	8	-0.5	5	-0.01	0.004	1500	-5	300
T 22435	325431	1975	3200	379272	-5	25	9	-0.5	-5	0.03	0.011	2600	50	380
T 22436	325285	1905	3000	379394	-5	63	22	-0.5	8	0.06	0.041	6000	170	700
T 22437	325492	2280	3000	379676	13	5	99	-0.5	13	0.17	0.341	4450	390	360
T 22438	325815	2810	3000	380121	-5	-5	107	-0.5	88	0.10	0.012	3050	35	400
T 22439	325557	2385	3000	379757	-5	20	40	-0.5	12	-0.01	0.018	2200	45	220
T 22440	326076	2825	3300	379960	-5	-5	12	-0.5	7	0.01	0.005	1600	-5	280
T 22441	325685	2810	2800	380219	-5	-5	35	-0.5	5	0.02	0.006	1500	-5	280
T 22442	325604	2675	2800	380103	-5	-5	8	-0.5	5	-0.01	0.005	1400	-5	280
T 22443	325370	2275	2800	379790	36	28	140	-0.5	14	0.08	0.066	2900	140	240
T 22444	325316	2178	2800	379718	239	81	255	-0.5	73	0.32	0.255	5400	470	330
T 22445	325305	2175	2800	379699	132	22	182	-0.5	58	0.26	0.293	4450	320	290
T 22446	326570	4600	2600	381801	-5	-5	49	-0.5	8	0.02	0.012	1850	-5	340
T 22447	325080	1555	2980	379153	61	-5	15	-0.5	11	0.02	0.015	1700	20	230
T 22448	326973	2875	4400	379352	5	13	93	-1.0	-3	0.61	0.047	3200	45	250
T 22449	326890	2750	4400	379245	4	7	19	-1.0	-3	0.31	0.008	1200	7	190
T 22450	326498	2125	4400	378768	5	18	66	-1.0	-3	0.74	0.029	3450	75	260
T 22451	326720	2475	4400	379036	3	-3	21	-1.0	-3	0.14	0.004	3250	75	360
T 22452	326529	2175	4400	378811	3	-3	21	-1.0	-3	0.32	0.005	2300	40	250

Laboratory:	ANGLAB	ANALAB									
Method :	GA140	GA140	GA140	GA140	GA140	GA140	GX401	GX401	GX401	GX401	GX401
Det. Limit:	5.000	5.000	5.000	0.500	5.000	0.010	0.003	1.000	5.000	5.000	5.000

069105

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	EAST metres	NORTH metres	TEAST metres	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MG %	P %	TI PPM	V PPM	ZR PPM
T 22453	326481	2100	4400	378749	5	15	53	-1.0	-3	0.75	0.014	2650	20	330
T 22454	325685	3130	2600	380604	51	7	73	-0.6	37	0.24	0.104	3350	220	210
T 22455	325554	2930	2600	380462	-5	10	50	-0.5	5	0.02	0.005	1700	-5	370
T 22456	325444	2746	2600	380303	-5	-5	31	-0.5	5	0.02	0.005	860	-5	170
T 22457	325426	2720	2600	380273	-5	10	19	-0.5	7	0.04	0.014	1600	10	270
T 22458	325310	2525	2600	380121	-5	-5	93	-0.5	25	0.10	0.080	2400	100	200
T 22459	325122	2215	2600	379889	-5	20	133	-0.5	21	0.08	0.072	3200	220	210
T 22460	325136	2510	2400	380229	52	-5	89	-0.5	18	0.08	0.092	2850	150	200
T 22461	324538	1440	2400	379409	-5	46	112	-0.5	22	0.08	0.033	3050	75	330
T 22462	324496	1520	2340	379490	-5	-5	9	-0.5	7	0.08	0.010	1200	5	200
T 22463	325539	3153	2400	380733	25	155	15	-0.5	19	0.05	0.029	3800	70	290
T 22464	325205	2929	2200	380578	83	-5	275	-0.5	44	0.20	0.101	3900	280	220
T 22465	325044	2625	2200	380458	-5	13	-5	-0.5	6	-0.01	0.009	1400	6	210
T 22466	325306	3105	2200	380827	-5	-5	-5	-0.5	15	-0.01	0.005	1450	-5	240
T 22467	324789	2699	1800	380734	-5	9	-5	-0.5	-5	-0.01	0.005	2500	11	350
T 22468	324471	2160	1800	380290	-5	-5	-5	-0.5	-5	-0.01	0.005	1150	-5	160
T 22469	324200	1701	1800	379932	73	5	39	-0.5	22	0.14	0.111	2450	150	160
T 22470	324940	3025	1800	380990	-5	25	57	-0.5	6	0.01	0.019	2150	8	390
T 22471	325682	4295	1800	382005	-5	-5	15	-0.5	7	0.02	0.017	1750	-5	330
T 22472	328580			379595	-5	-5	6	-0.5	12	0.01	0.030	3050	45	290
T 22473					-5	-5	-5	-0.5	-5	-0.01	-0.003	65	-5	7
T 22474	321033	1297	21000	381329	3	-3	37	-1.0	6	0.39	0.009	2050	-5	320
T 22475	321035	1303	21000	381340	8	-3	35	-1.0	6	0.46	0.015	2200	-5	350
T 22476	321032	1500	21000	381524	3	-3	31	-1.0	4	0.31	0.005	1300	7	210
T 22477	321030	1654	21000	381679	4	31	28	-1.0	6	0.47	0.011	1300	7	200
T 22478	321023	1830	21000	381867	3	-3	22	-1.0	7	0.36	0.012	1450	-5	290
T 22479	321014	2244	21000	382268	37	-3	48	-1.0	6	0.70	0.012	1550	-5	330
T 22480	321050	2500	21030	382535	7	-3	31	-1.0	6	0.45	0.014	1650	-5	320
T 22481	321216	2280	21210	382327	12	55	120	-1.0	9	0.86	0.012	1250	-5	270
T 22482	321213	2025	21700	382067	2	-3	21	-1.0	7	0.39	0.015	1400	-5	320
T 22483	321213	1895	21200	381927	38	11	120	-1.0	34	2.42	0.042	3650	180	210
T 22484	321209	1685	21200	381721	3	-3	19	-1.0	6	0.41	0.007	1500	-5	310
T 22485	320444	1544	20400	381568	4	-3	36	-1.0	6	0.42	0.016	1450	-5	310
T 22486	320438	2105	20400	382139	46	92	110	-1.0	52	1.26	0.033	4200	100	140
T 22487	320439	2310	20400	382334	5	-3	20	-1.0	6	0.43	0.013	1400	-5	310

Laboratory:	ANALAB									
Method:	GA140	GA140	GA140	GA140	GA140	GA140	GX401	GX401	GX401	GX401
Upper Limit:	5.000	5.000	5.000	0.500	5.000	0.010	0.003	1.000	5.000	5.000

069106

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	TNORTH metres	EAST metres	NORTH metres	TEAST metres	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MG %	P %	TI PPM	V PPM	2R PPM
T 22488	320243	2355	20200	382247	75	26	120	-1.0	72	1.36	0.035	3900	100	130
T 22489	320241	1995	20200	381998	5	4	16	-1.0	7	0.38	0.008	1400	-5	300
T 22490	320238	1910	20200	381922	3	-3	12	-1.0	6	0.35	0.007	1150	-5	190
T 22491	319637	955	19600	380969	3	-3	21	-1.0	4	0.32	0.007	1150	-5	180
T 22492	319434	1200	19400	381218	3	-3	3	-1.0	4	0.22	0.003	550	-5	80
T 22493	319042	1400	19000	381419	3	-3	12	-1.0	5	0.46	0.004	1400	-5	280
T 22494	318804	575	18763	380597	27	3	55	-1.0	10	0.37	0.015	1300	25	170
T 22495	318634	1225	18590	381253	4	5	31	-1.0	4	0.39	0.007	1050	9	180
T 22496	318434	1500	18400	381517	4	-3	110	-1.0	7	0.83	0.045	3600	50	320
T 22497	318457	598	18400	380608	9	-3	190	-1.0	15	0.68	0.008	1050	25	120
T 22498	318257	1425	18200	381443	3	-3	20	-1.0	5	0.31	0.007	1100	-5	180
T 22499	318849	1471	18800	381490	6	3	16	-1.0	12	0.68	0.008	1950	30	230
T 22500					2	-3	-2	-1.0	-3	0.20	0.003	50	-5	-5
T 22701	323118	2080	200	381170	10	8	100	-1.0	9	0.88	0.039	4700	90	320
T 22702	323269	2350	200	381379	9	-3	100	-1.0	8	1.29	0.009	3900	45	300
T 22703	323131	2395		381523	4	-3	35	-1.0	6	0.43	0.010	1500	-5	330
T 22704	322994	2150		381339	4	-3	67	-1.0	4	0.54	0.011	1500	-5	310
T 22705	322493	1290		380639	15	6	34	-1.0	6	0.38	0.009	1100	12	170
T 22706	322903	1695	200	380878	150	13	135	-1.0	54	1.93	0.166	4150	280	240
T 22707	322627	1025	400	380207	3	3	20	-1.0	4	0.30	0.008	1150	10	170
T 22708	323143	1615	600	380556	6	6	240	-1.0	38	0.83	0.070	3550	210	260
T 22709	323331	2135	400	381077	3	-3	32	-1.0	4	0.36	0.008	1600	-5	330
T 22710	323349	2165	400	381102	4	-3	19	-1.0	5	0.34	0.006	1600	-5	340
T 22711	323848	3000	400	381769	4	4	100	-1.0	7	0.67	0.012	1950	11	300
T 22712	323609	2375	600	381148	6	8	23	-1.0	7	0.56	0.007	3900	55	320
T 22713	324293	3535	600	382083	13	-3	22	-1.0	7	0.70	0.012	1600	6	310
T 22714	323900	2255	1000	380833	6	44	50	-1.0	11	0.56	0.055	3600	220	310
T 22715	324167	2775	1000	381232	8	-3	87	-1.0	7	0.66	0.018	2250	17	350
T 22716	324660	3535	1000	381816	8	-3	9	-1.0	14	0.29	0.009	1350	5	270
T 22717	323392	1190	23400	381182	11	-3	76	-1.0	9	1.34	0.021	3800	55	300
T 22718	323389	1945	23400	381929	9300	150	400	17.0	10	2.45	0.090	730	6	100
T 22719	323388	1970	23400	381988	13	-3	130	-1.0	9	1.00	0.008	940	-5	210
T 22720	322994	1615	23000	381654	8	-3	72	-1.0	9	0.71	0.054	3500	50	260
T 22721	322583	1650	22600	381666	6	-3	20	-1.0	6	0.47	0.006	1700	-5	330
T 22722	322391	1820	22400	381851	8	-3	27	-1.0	7	0.43	0.006	1800	8	340

Laboratory:	ANALAB										
Method:	GA140	GA140	GA140	GA140	GA140	GA140	GX401	GX401	GX401	GX401	GX401
DDP Limit:	5.000	5.000	5.000	0.500	5.000	0.010	0.003	1.000	5.000	5.000	5.000

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PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	EAST metres	NORTH metres	TEAST metres	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MG %	P %	TI PPM	V PPM	ZR PPM
T 22723	322175	1835	22200	381819	69	88	43	-1.0	27	0.78	0.022	2450	60	220
T 22724	321827	1945	21800	381976	56	100	83	1.0	19	0.66	0.022	2200	40	270
T 22725	321616	1715	21600	381737	19	110	83	-1.0	34	0.96	0.024	2700	60	260
T 22726	320820	1275	20800	381300	8	7	29	-1.0	4	0.35	0.014	1650	5	300
T 22727	320813	1450	20800	381479	4	3	61	-1.0	6	0.39	0.016	1900	10	320
T 22728	320809	1685	20800	381724	6	33	65	-1.0	7	0.47	0.010	1200	10	190
T 22729	320867	1775	20800	381838	3	-3	16	-1.0	7	0.36	0.010	1550	-5	320
T 22730	320900	1985	20800	382043	4	11	43	-1.0	7	0.55	0.020	1950	30	230
T 22731	320800	2185	20800	382222	6	-3	40	-1.0	9	0.83	0.062	4850	110	310
T 22732	320797	2390	20800	382420	12	320	73	-1.0	6	0.84	0.015	1550	8	260
T 22733	320039	1780	20000	381791	49	62	33	-1.0	6	0.35	0.008	1050	5	180
T 22734	320037	2265	20000	382283	12	17	69	-1.0	16	0.75	0.016	1550	25	220
T 22735	319860	2535	19800	382550	4	-3	17	-1.0	6	0.54	0.015	1550	-5	300
T 22736	319858	2275	19800	382334	8	27	130	-1.0	5	0.42	0.004	700	-5	130
T 22737	319441	1980	19400	382003	4	10	30	-1.0	4	0.37	0.007	1150	-5	290
T 22738	319431	2210	19400	382218	9	5	14	-1.0	5	0.43	0.006	1300	7	290
T 22739	319630	1575	19600	381611	10	4	53	-1.0	4	0.45	0.012	1700	6	290
T 22740	319241	1685	19210	381712	4	8	15	-1.0	3	0.34	0.006	1200	-5	240
T 22741	319241	1735	19200	381758	3	4	54	-1.0	4	0.48	0.015	1750	6	300
T 22742	319245	2228	19200	382262	4	9	21	-1.0	6	0.59	0.006	940	8	150
T 22743	319240	2300	19200	382325	26	40	31	-1.0	56	1.10	0.029	4650	280	150
T 22744	319300	2347	19200	382388	120	-3	190	-1.0	69	5.11	0.071	6100	340	200
T 22745	319102	2570	19000	382629	6	-3	31	-1.0	5	0.43	0.015	1350	-5	280
T 22746	318845	2365	18800	382385	3	-3	32	-1.0	6	0.93	0.045	3750	50	380
T 22747	318644	1595	18600	381635	4	-3	17	-1.0	5	0.49	0.007	1200	-5	210
T 22748	318641	1675	18600	381713	4	-3	29	-1.0	6	0.82	0.009	1500	-5	290
T 22749	318638	1845	18600	381883	3	-3	73	-1.0	6	0.87	0.045	3450	40	340
T 22750	318423	2165	18400	382188	23	3	47	-1.0	8	0.70	0.015	1850	-5	360
T 22751	318041	1960	18000	381986	9	19	59	-1.0	6	0.42	0.009	1300	-5	310
T 22752	318042	1880	18000	381917	4	-3	71	-1.0	6	0.93	0.038	3000	35	280
T 22753					2	-3	3	-1.0	-3	0.21	0.003	85	-5	-5
T 22754	318255	1625	18200	381632	5	-3	100	-1.0	9	1.87	0.065	4350	55	310
T 22755	318260	1795	18200	381822	3	-3	61	-1.0	8	0.84	0.032	3100	40	290
T 22756	318258	1860	18200	381889	5	-3	36	-1.0	7	0.86	0.021	1800	-5	300
T 22757	318258	2310	18200	382332	39	-3	62	-1.0	23	1.41	0.033	1250	-5	160

Laboratory:	ANALAB										
Method:	GA140	GA140	GA140	GA140	GA140	GA140	GX401	GX401	GX401	GX401	GX401
Detect. Limit:	5.000	5.000	5.000	0.500	5.000	0.010	0.003	1.000	5.000	5.000	5.000

069108

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	TNORTH metres	EAST metres	NORTH metres	TEAST metres	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MG %	P %	TI PPM	V PPM	ZR PPM
T 22758	317204	1950	17200	381984	28	-3	47	-1.0	26	0.43	0.008	620	-9	20
T 22759	318594	1500	18550	381529	3	-3	68	-1.0	8	1.45	0.032	3600	40	310
T 22760	317028	1650	17000		300	420	37	1.0	40	0.65	0.027	2900	150	170
T 22761	317025	1835	17000	381866	32	5	38	-1.0	6	0.86	0.022	1900	-6	320
T 22762	316830	1640	16800	381676	25	-3	88	-1.0	17	0.95	0.247	5800	220	330
T 22763	317037	1195	17000	381228	11	-3	12	-1.0	4	0.33	0.008	2250	40	250
T 22764	317037	1220	17000	381254	4	-3	64	-1.0	8	0.77	0.042	2750	75	550
T 22765	316442	1135	16400	381144	25	-3	94	-1.0	19	0.31	0.316	6400	240	220
T 22772	316626	1675	16600	381713	3	-3	820	-1.0	11	1.06	0.137	4700	160	280
T 22773	316623	1900	16600	381935	4	4	69	-1.0	7	0.71	0.024	1950	10	340
T 22774	316426	1835	16400	381874	140	900	2300	3.0	50	1.60	0.047	2650	100	220
T 22775	316426	1835	16400	381876	63	60	280	-1.0	19	1.52	0.063	2000	85	180
T 22776	316427	1750	16400	381789	11	-3	160	-1.0	76	1.24	0.227	5550	250	200
T 22777	316036	1715	16000	381773	47	6	120	-1.0	24	3.28	0.272	6700	340	220
T 22778	316231	1490	16200	381533	2	25	140	-1.0	4	0.30	0.026	1850	9	290
T 22779	316227	1070	16200	381107	22	11	170	-1.0	20	1.84	0.252	6600	360	250
T 22780	316007	780	16000	380842	13	-3	5	-1.0	5	0.33	0.008	1950	60	230
T 22781	315837	925	15800	380980	9	13	544	-1.0	79	0.07	0.098	990	65	60
T 22782	321880	1150	21850	381164										
T 22783	321818	1005	21800	381039										
T 22784	321796	1000	21775	381038										
T 22785	321407	79850	21400	379872										
T 22786	321424	200	21400	380231										
T 22787	320835	80000	20800	380005										
T 22788	320411	200	20400	380240										
T 22789	320402	200	20380	380232										
T 22790	320215	690	20200	380724										
T 22791	321874	1100	21850	381129										
T 36701	323392	740	23400	380768	3	-3	20	-1.0	5	0.15	0.007	3700	80	380
T 36702	323391	79835	23400	379843	8	5	46	-1.0	14	0.40	0.005	1250	11	160
T 36703	323697	1635	1200	380197	6	-3	31	-1.0	6	0.13	0.009	1150	6	190
T 36704	323956	2075	1200	380562	19	-3	54	-1.0	19	0.59	0.059	2850	160	200
T 36705	323039	1000	23020	381067	3	-3	25	-1.0	5	0.12	0.008	1200	6	200
T 36706	322175	1035	22200	381046	5	-3	43	-1.0	8	0.19	0.007	2250	7	370
T 36707	321975	1050	22000	381065	5	14	32	-1.0	8	0.23	0.007	1900	12	340

Laboratory:	ANALAB									
Method:	GA140	GA140	GA140	GA140	GA140	GA140	GX401	GX401	GX401	GX401
Det. Limit:	5.000	5.000	5.000	0.500	5.000	0.010	0.003	1.000	5.000	5.000

069109

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	TNORTH metres	EAST metres	NORTH metres	TEAST metres	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MG %	P %	TI PPM	V PPM	ZR PPM
T 36708	321956	80000	22000	380012	14	11	130	-1.0	25	0.77	0.018	3200	95	300
T 36709	321426	750	21400	380781	4	22	91	-1.0	5	0.08	0.009	1300	7	190
T 36710	321422	505	21400	380536	3	51	29	-1.0	5	0.15	0.006	1000	7	140
T 36711	320824	850	20800	380880	3	27	87	-1.0	5	0.12	0.005	1100	9	160
T 36712	320612	675	20600	380716	4	25	74	-1.0	6	0.18	0.008	1200	-5	190
T 36713	320427	250	20400	380287	59	84	190	-1.0	10	0.32	0.031	3900	110	260
T 36714	320272	390	20230	380349	8	-3	37	-1.0	7	0.14	0.007	1150	11	150
T 36715	317637	1350	17600	381385	3	47	62	-1.0	5	0.15	0.010	1200	6	180
T 36716	320716	380	20700	380414	44	9	46	-1.0	11	0.44	0.012	3550	100	320
T 36717	320508	300	20410	380302	8	5	37	-1.0	14	0.53	0.022	2900	70	300
T 36801	319510	1500	19480	381520	4	-3	52	-1.0	5	0.43	0.012	1350	-5	310
T 36802	319239	1500	19197	381518	3	12	17	-1.0	5	0.42	0.009	1350	-5	290
T 36803	318815	1500	18760	381535	5	3	14	-1.0	4	0.27	0.008	1400	-5	320
T 36804	318615	1500	18575	381531	5	-3	51	-1.0	7	0.86	0.037	3350	40	300
T 36805	318507	1500	18470	381518	4	-3	130	-1.0	7	1.25	0.031	3850	55	320
T 36806	318456	1500	18425	381518	4	-3	130	-1.0	8	1.27	0.046	3900	45	330
T 36807	318323	1500	18279	381518	3	-3	29	-1.0	6	0.68	0.015	3950	30	300
T 36808	317862	1500	17825	381532	4	-3	15	-1.0	4	0.22	0.007	900	-5	160
T 36809	317838	1427	17800	381456	3	6	20	-1.0	3	0.31	0.010	1400	9	210
T 36810	318582	1500	18550	381525	3	-3	67	-1.0	8	1.39	0.026	3650	35	310
T 36811	322758	1130	500	380231	3	-3	7	-1.0	3	0.23	0.005	190	-5	20
T 36812	325685	3000	2693	380463	46	-3	140	-1.0	47	2.23	0.126	4500	380	180
T 36813	325784	1445	3950	378459	4	3	66	-1.0	16	0.54	0.030	4150	95	360
T 36814	325720	1380	3920	378422	4	-3	30	-1.0	6	0.39	0.007	900	-5	200
T 36815	325676	1330	3900	378393	7	-3	100	-1.0	16	3.10	0.078	6950	210	150
T 36816	324816	2100	2280	380017	260	19	315	-1.0	21	0.89	0.102	2650	180	200
T 36817	324731	2080	2190	380037	59	3	150	-1.0	30	1.80	0.113	3150	160	240
T 36818	324735	2080	2190	380045	600	6	38	-1.0	16	0.67	0.068	2600	180	200
T 36819	324737	2100	2180	380064	48	4	21	-1.0	7	0.22	0.024	1450	25	240
T 36820	324717	2220	2020	380211	52	47	116	-1.0	33	0.90	0.106	2950	180	220
T 36821	324723	2230	2020	380223	211	57	71	-1.0	9	0.34	0.031	1500	45	190
T 36822	324590	1990	2040	380027	19	26	160	-1.0	11	0.50	0.050	3000	35	290
T 36823	324584	1990	2050	380027	34	408	365	2.0	23	1.00	0.116	3200	160	260
T 36824	324663	2050	2130	380033	9	5	155	-1.0	21	1.60	0.069	3250	130	280
T 36825					3	-3	4	-1.0	3	0.02	-0.003	120	-5	15

Laboratory:	ANALAB									
Method:	GA140	GA140	GA140	GA140	GA140	GA140	GX401	GX401	GX401	GX401
Det. Limit:	5.000	5.000	5.000	0.500	5.000	0.010	0.003	1.000	5.000	5.000

069110

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HF PPM	IR PPB	FE %	LA PPM	IU PPM
T 22283	0.3	2	1040	3	165	13	64	5	1.8	-5	7	-20	2.41	73.9	0.6
T 22284	2.2	2	751	-2	120	4	-5	2	1.6	-5	7	-20	3.22	51.8	0.7
T 22285	2.4	1	1070	-2	125	2	-5	1	1.6	-5	7	-20	2.90	57.2	0.7
T 22286	1.6	1	322	-2	86	2	-5	-1	1.0	-5	7	-20	1.67	39.8	0.5
T 22287	0.8	9	3770	-2	38	1	5	4	0.6	-5	6	-20	4.38	17.9	0.5
T 22288	1.4	2	964	-2	133	7	-5	1	1.4	-5	8	-20	1.95	64.3	0.8
T 22289	1.1	7	945	-2	195	11	5	7	1.6	-5	4	-20	4.85	100.0	0.4
T 22290	0.7	6	2100	4	233	8	32	61	5.7	30	4	-20	6.70	135.0	0.4
T 22291	2.5	2	1130	-2	43	5	-5	-1	-0.5	-5	6	-20	2.20	25.2	0.6
T 22292	0.6	1	598	2	230	9	-5	8	2.5	-5	4	-20	2.73	137.0	0.4
T 22293	1.2	6	559	-2	107	5	-5	-1	1.1	-5	4	-20	2.14	48.5	0.5
T 22294	0.6	6	388	10	52	4	19	5	1.2	-5	6	-20	5.60	24.0	0.3
T 22295	0.9	3	1650	2	189	2	7	20	2.3	-5	3	-20	4.75	106.0	0.5
T 22296	0.8	2	1250	-2	114	3	-5	-1	1.7	-5	8	-20	1.64	54.4	0.6
T 22297	0.9	1	884	3	150	3	-5	-1	1.8	-5	10	-20	0.96	72.9	0.8
T 22298	0.8	1	383	4	56	3	7	-1	0.8	-5	8	-20	6.97	27.8	0.4
T 22299	0.8	1	-100	11	94	1	-5	2	1.7	-5	4	-20	12.90	46.4	0.4
T 22300	0.5	1	930	-2	113	5	-5	-1	1.5	-5	7	-20	2.11	55.4	0.7
T 22401	0.7	-1	825	-2	106	5	-5	1	1.1	-5	7	-20	1.43	51.2	0.5
T 22402	1.9	-1	562	-2	84	7	-5	1	1.3	-5	8	-20	1.12	41.1	0.7
T 22403	0.7	6	688	-2	98	13	8	3	1.8	-5	7	-20	2.24	48.1	0.6
T 22404	0.6	7	392	-2	72	5	15	9	1.7	-5	5	-20	4.97	33.3	0.4
T 22405	1.4	5	547	14	119	6	22	3	1.5	-5	8	-20	2.91	56.9	0.6
T 22406	0.9	11	635	-2	73	6	21	-1	1.0	-5	7	-20	1.95	32.8	0.6
T 22407	0.4	2	404	6	85	6	14	-1	1.2	-5	6	-20	2.25	41.5	0.5
T 22408	0.5	1	1100	-2	190	8	-5	1	2.2	-5	7	-20	0.88	94.1	0.7
T 22409	0.6	6	1170	9	190	15	78	23	2.5	-5	4	-20	5.73	105.0	0.5
T 22410	1.3	5	992	4	181	11	89	29	2.4	-5	4	-20	6.19	101.0	0.5
T 22411	2.4	-1	432	-2	62	3	11	1	1.0	-5	4	-20	2.15	33.1	0.4
T 22412	4.1	2	715	-2	123	3	11	1	2.0	-5	5	-20	6.99	64.4	0.6
T 22413	0.6	7	1340	-2	117	4	6	1	1.3	-5	6	-20	1.14	58.8	0.6
T 22414	0.8	2	833	3	221	13	32	16	3.3	-5	4	-20	5.30	124.0	0.4
T 22415	0.7	2	1560	-2	78	13	-5	5	1.1	-5	5	-20	2.66	37.5	0.5
T 22416	0.5	2	764	2	138	9	-5	-1	1.7	-5	6	-20	1.37	67.8	0.5
T 22417	0.6	3	749	-2	82	7	-5	2	0.9	-5	8	-20	2.21	43.7	0.7

Laboratory	BEQUE														
Method	INAA30														
Detect. Limit	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

069111

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HF PPM	IR PPB	FE %	LA PPM	LU PPM
T 22418	2.0	3	1240	5	78	11	19	4	1.6	7	7	-20	9.44	41.5	0.5
T 22419	1.3	18	1000	-2	117	3	-5	1	1.2	-5	4	-20	1.11	60.4	0.5
T 22420	0.6	6	1380	3	50	7	6	6	1.0	-5	5	-20	3.71	23.8	0.5
T 22421	0.4	-1	450	-2	75	5	-5	-1	0.7	-5	3	-20	0.75	32.0	0.4
T 22422	0.7	-1	812	-2	96	7	17	1	1.3	-6	7	-20	1.12	42.4	0.5
T 22423	1.7	173	483	7	92	5	-5	-1	1.0	-5	6	-20	1.69	41.6	0.6
T 22424	0.3	-1	199	-2	32	4	-5	2	1.1	-5	4	-20	1.25	42.3	0.5
T 22425	0.7	-1	1010	6	112	2	6	1	1.6	-5	7	-20	1.31	55.7	0.6
T 22426	2.5	4	1040	-2	120	2	-5	1	1.4	11	8	-20	1.99	54.9	0.7
T 22427	4.5	1	624	-2	117	3	6	1	1.5	-5	6	-20	1.50	54.2	0.5
T 22428	5.6	3	1220	-2	83	2	-5	1	0.9	-5	7	-20	3.20	37.9	0.5
T 22429	1.8	1	761	-2	93	2	-5	1	1.0	-5	6	-20	1.74	43.0	0.5
T 22430	1.6	4	765	-2	90	2	-5	-1	1.2	-5	6	-20	2.14	42.3	0.5
T 22431	2.4	7	1360	-2	82	-1	-5	-1	0.9	7	5	-20	5.61	39.5	0.5
T 22432	0.6	1	120	-2	103	9	-5	-1	1.1	-5	5	-20	2.10	45.1	0.6
T 22433	1.0	12	849	-2	101	6	-5	-1	1.4	-5	7	-20	1.18	45.3	0.7
T 22434	0.7	-1	882	2	113	8	-5	-1	1.3	-5	7	-20	1.40	49.1	0.7
T 22435	1.0	1	1090	2	141	8	19	-1	1.8	-5	10	-20	1.44	61.6	0.7
T 22436	1.5	12	1330	2	129	8	85	1	2.0	6	17	-20	2.61	54.4	0.7
T 22437	2.1	6	1440	13	368	13	234	38	5.5	-5	7	-20	7.48	188.0	0.5
T 22438	1.2	3	1270	-2	174	11	-5	2	2.1	-5	10	-20	3.44	76.3	0.9
T 22439	0.5	8	887	-2	86	3	12	-1	1.1	-5	6	-20	0.88	38.5	0.5
T 22440	0.5	-1	804	-2	120	9	-5	-1	1.4	-5	7	-20	2.04	53.0	0.6
T 22441	0.7	1	260	-2	122	7	-5	-1	1.5	-5	6	-20	1.36	53.4	0.7
T 22442	1.1	3	683	-2	95	11	-5	-1	1.1	-5	7	-20	1.52	41.2	0.6
T 22443	2.7	11	1370	14	225	7	19	11	3.2	-5	5	-20	5.84	117.0	0.5
T 22444	4.9	9	611	19	335	4	143	22	4.2	-5	7	-20	8.35	175.0	0.8
T 22445	5.1	22	132	14	277	-1	148	16	4.1	-5	6	-20	6.67	139.0	0.6
T 22446	2.5	-1	1030	-2	99	1	-5	1	1.1	-5	8	-20	2.25	44.7	0.7
T 22447	2.6	11	293	-2	112	4	8	1	1.1	-5	6	-20	2.64	56.1	0.4
T 22448	0.6	4	1540	-2	98	11	-5	2	1.6	-5	5	-20	2.81	45.5	0.6
T 22449	0.7	8	720	-2	23	8	-5	-1	-0.5	-5	5	-20	1.52	10.2	0.4
T 22450	0.9	10	687	2	68	5	10	1	1.0	-5	6	-20	2.98	41.9	0.5
T 22451	0.9	-1	646	2	58	7	26	3	0.8	-5	10	-20	1.75	27.4	0.6
T 22452	0.8	1	1090	-2	71	13	19	-1	0.9	-5	7	-20	1.53	33.2	0.4

Laboratory Method	BECCOUE INAA30														
Det. Limi	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

069112

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HF PPM	IR PPB	FE %	LA PPM	LU PPM
T 22453	0.7	4	470	2	64	5	-5	1	0.6	-5	8	-20	2.09	32.4	0.7
T 22454	0.7	2	1190	6	237	4	47	23	2.9	-5	4	-20	5.57	134.0	0.5
T 22455	0.8	8	894	4	78	14	-5	-1	0.7	-5	9	-20	2.09	32.3	0.7
T 22456	0.5	1	553	-2	95	6	-5	-1	1.2	-5	4	-20	1.16	43.0	0.5
T 22457	0.9	14	844	-2	204	16	-5	2	2.3	-5	7	-20	1.68	91.8	0.7
T 22458	0.8	4	735	-2	168	8	17	17	2.0	-5	4	-20	5.40	80.9	0.5
T 22459	1.1	2	1150	6	210	9	9	18	2.6	-5	3	-20	3.71	102.0	0.4
T 22460	1.6	100	702	2	152	9	25	8	2.2	-5	3	-20	5.82	78.6	0.4
T 22461	1.1	7	1230	-2	105	7	51	7	1.7	-5	8	-20	2.77	47.9	0.6
T 22462	0.5	1	412	-2	102	4	-5	1	0.9	-5	5	-20	1.26	47.2	0.5
T 22463	0.8	7	566	6	143	11	62	2	1.4	-5	7	-20	2.73	71.9	0.5
T 22464	0.7	3	372	24	194	3	52	29	2.1	-5	4	-20	7.40	99.4	0.4
T 22465	1.3	53	915	-2	168	9	-5	-1	1.8	-5	6	-20	1.22	79.0	1.1
T 22466	5.6	10	671	-2	97	5	-5	1	1.4	-5	6	-20	15.60	45.0	0.5
T 22467	0.9	1	933	2	113	14	-5	-1	1.5	-5	8	-20	0.94	48.9	0.8
T 22468	1.4	5	1730	-2	120	3	-5	-1	1.2	-5	5	-20	0.93	53.1	0.5
T 22469	0.4	4	1460	2	172	1	10	20	1.8	-5	3	-20	5.21	92.1	0.4
T 22470	1.0	2	836	-2	132	5	-5	-1	1.5	-5	8	-20	1.41	62.0	0.7
T 22471	0.8	1	763	-2	117	2	-5	1	1.4	-5	8	-20	2.44	52.7	0.8
T 22472	1.2	2	828	-2	101	6	62	3	1.0	-5	7	-20	2.49	44.4	0.5
T 22473	-0.2	-1	-100	-2	-2	-1	-5	-1	-0.5	-5	-0	-20	0.50	-0.5	-0.2
T 22474	0.5	-1	1190	3	49	1	-5	-1	1.0	-5	7	-20	1.66	25.2	0.5
T 22475	0.5	1	1010	5	76	1	-5	-1	1.1	-5	8	-20	2.00	36.8	0.7
T 22476	0.4	-1	1040	-2	61	1	-5	-1	0.9	-5	6	-20	0.64	35.1	0.6
T 22477	0.8	2	784	2	91	-1	5	-1	1.1	-5	5	-20	1.41	44.5	0.5
T 22478	0.3	-1	767	-2	118	1	-5	1	1.9	-5	7	-20	2.70	56.5	0.7
T 22479	0.8	2	1120	-2	130	1	-5	-1	2.1	-5	9	-20	2.96	63.6	0.7
T 22480	0.5	1	1470	-2	106	1	-5	-1	1.3	-5	7	-20	2.32	58.1	0.7
T 22481	0.5	1	1630	-2	148	-1	-5	1	1.8	-5	7	-20	4.23	71.5	0.7
T 22482	0.2	-1	737	-2	122	1	-5	1	2.0	-5	8	-20	2.34	53.3	0.7
T 22483	1.2	4	665	-2	77	1	76	19	1.4	-5	5	-20	4.87	34.4	0.5
T 22484	0.3	-1	1050	-2	86	2	-5	1	1.0	-5	8	-20	1.53	36.7	0.6
T 22485	0.5	1	1220	-2	75	-1	-5	-1	1.4	-5	7	-20	2.08	52.4	0.7
T 22486	8.1	57	432	2	58	3	102	11	0.8	-5	3	-20	3.96	28.0	0.4
T 22487	0.4	1	885	-2	115	2	-5	1	1.8	-5	7	-20	2.32	52.1	0.7

Laboratory Method	BECCOUE INAA30														
Det. Limi	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

069113

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HF PPM	IR PPB	FE %	LA PPM	LU PPM
T 22488	7.8	53	444	-2	65	3	98	13	1.2	-5	3	-20	4.07	30.7	0.4
T 22489	0.8	1	971	-2	56	1	-5	1	1.0	-5	7	-20	1.84	15.7	0.7
T 22490	0.4	-1	768	-2	165	-1	-5	-1	1.7	-5	5	-20	1.67	77.4	0.6
T 22491	0.4	-1	1130	-2	111	1	-5	-1	1.0	-5	5	-20	1.18	51.6	0.4
T 22492	0.5	-1	666	-2	57	1	5	-1	0.6	-5	2	-20	0.56	26.8	0.2
T 22493	0.9	-1	406	-2	87	3	5	-1	0.8	-5	7	-20	1.28	40.9	0.5
T 22494	2.0	1	774	-2	83	4	11	6	1.2	-5	5	-20	4.16	41.2	0.4
T 22495	0.5	1	2140	-2	25	3	-5	-1	-0.5	-5	5	-20	1.31	10.3	0.4
T 22496	0.4	1	1030	-2	104	1	-5	5	1.4	-5	7	-20	3.74	47.4	0.7
T 22497	1.1	-1	633	-2	50	1	30	5	0.8	-5	3	-20	5.85	27.6	0.4
T 22498	0.7	1	1010	-2	131	3	-5	-1	1.2	-5	5	-20	1.17	60.8	0.5
T 22499	1.2	1	1380	-2	106	5	19	3	0.8	-5	6	-20	1.85	49.8	0.5
T 22500	0.2	-1	-100	-2	-2	-1	5	-1	-0.5	-5	-0	-20	0.34	-0.5	-0.2
T 22701	1.1	4	1200	11	93	3	7	5	1.6	-5	7	-20	4.25	42.8	0.6
T 22702	0.8	1	508	3	124	3	6	6	1.3	-5	7	-20	3.09	56.2	0.6
T 22703	0.7	1	869	-2	144	2	-5	2	1.9	-5	7	-20	1.89	64.9	0.7
T 22704	0.3	1	1190	-2	110	1	-5	1	1.6	-5	8	-20	2.28	48.1	0.6
T 22705	0.5	2	1070	3	113	4	-5	-1	0.9	-5	5	-20	1.13	53.0	0.4
T 22706	1.5	4	1220	2	236	11	98	32	3.3	3120	4	-20	4.88	116.0	0.5
T 22707	1.3	-1	838	-2	123	4	-5	-1	1.2	-5	5	-20	0.91	58.1	0.5
T 22708	0.9	-1	720	5	286	11	67	22	3.3	-5	4	-20	5.32	143.0	0.5
T 22709	1.6	-1	1720	-2	148	4	-5	1	1.8	-5	8	-20	1.36	67.5	0.8
T 22710	0.5	-1	765	2	133	2	-5	1	1.5	-5	8	-20	1.17	61.2	0.7
T 22711	1.1	-1	1160	-2	102	-1	-5	2	1.5	-5	7	-20	1.75	47.9	0.5
T 22712	0.9	-1	604	4	129	8	-5	1	1.7	-5	7	-20	1.79	59.8	0.6
T 22713	0.5	1	1190	2	153	2	-5	1	2.3	-5	7	-20	3.58	72.9	0.7
T 22714	2.0	2	2220	2	394	14	-5	2	4.3	-5	6	-20	2.73	201.0	0.6
T 22715	1.1	-1	642	-2	129	2	5	4	1.6	-5	8	-20	2.21	61.2	0.7
T 22716	1.6	1	179	-2	131	2	-5	2	1.6	-5	6	-20	4.72	65.0	0.5
T 22717	0.5	1	532	4	112	4	-5	3	1.7	-5	7	-20	2.64	48.9	0.6
T 22718	2.2	162	-100	-2	83	-1	5	63	1.9	58	2	-20	18.20	43.6	0.2
T 22719	2.1	2	542	-2	117	1	-5	2	1.2	-5	5	-20	5.11	55.4	0.6
T 22720	1.1	2	667	-2	107	3	-5	7	1.7	-5	6	-20	3.71	48.8	0.6
T 22721	0.6	-1	443	-2	118	2	-5	1	1.7	-5	8	-20	2.05	55.0	0.7
T 22722	1.3	-1	750	-2	128	2	-5	-1	1.5	-5	8	-20	1.29	62.0	0.7

Laboratory Method	BECQUE INAA30														
D.C. Lim	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

069114

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HF PPM	IR PPB	FE %	LA PPM	LU PPM
T 22723	2.2	221	491	-2	97	1	39	5	1.3	13	6	-20	3.56	44.6	0.5
T 22724	5.1	70	364	-2	114	1	24	10	1.6	-5	7	-20	2.85	54.2	0.6
T 22725	1.2	4	1520	-2	85	1	-5	1	1.3	-5	7	-20	1.27	43.7	0.7
T 22726	1.1	5	1070	6	56	3	13	5	0.6	-5	7	-20	3.20	22.9	0.5
T 22727	0.6	2	1390	-2	86	3	-5	3	1.1	-5	8	-20	2.80	36.8	0.6
T 22728	1.5	22	1130	-2	101	1	9	-1	1.0	-5	5	-20	1.31	45.5	0.6
T 22729	0.4	-1	1010	-2	126	1	-5	-1	1.6	-5	8	-20	1.98	58.2	0.8
T 22730	0.8	3	654	-2	100	-1	6	2	1.5	-5	6	-20	2.09	48.1	0.5
T 22731	0.8	7	500	2	94	1	-5	1	1.6	-5	7	-20	4.84	43.5	0.6
T 22732	1.8	56	999	-2	105	1	5	-1	1.5	-5	7	-20	1.62	52.9	0.6
T 22733	0.3	238	1280	-2	158	1	-5	-1	1.3	-5	5	-20	2.60	74.6	0.6
T 22734	1.6	21	1090	-2	131	3	15	3	1.5	-5	6	-20	2.34	62.1	0.6
T 22735	0.7	1	868	-2	135	2	-5	-1	2.2	-5	8	-20	1.84	62.9	0.8
T 22736	0.2	2	199	-2	122	-1	-5	-1	1.4	-5	3	-20	1.64	59.5	0.5
T 22737	0.5	1	1880	-2	117	-1	-5	-1	1.4	-5	7	-20	1.76	54.7	0.7
T 22738	0.5	-1	1340	3	118	-1	-5	-1	1.5	-5	7	-20	1.44	53.0	0.7
T 22739	0.8	1	1060	-2	78	-1	-5	2	1.1	-5	7	-20	2.47	36.7	0.6
T 22740	0.8	-1	355	-2	79	2	-5	-1	1.4	-5	5	-20	1.10	36.2	0.6
T 22741	0.6	1	1300	-2	106	1	-5	2	1.6	-5	7	-20	2.48	51.4	0.7
T 22742	0.9	18	898	-2	105	1	-5	-1	1.1	-5	4	-20	0.98	47.9	0.6
T 22743	5.0	68	501	-2	67	3	116	1	1.2	-5	3	-20	2.79	31.7	0.5
T 22744	0.4	2	455	11	76	1	182	39	1.7	-5	4	-20	8.96	32.5	0.4
T 22745	0.6	1	929	-2	117	1	6	-1	1.5	-5	7	-20	2.43	55.3	0.7
T 22746	0.7	2	924	2	151	2	-5	-1	2.9	-5	9	-20	5.07	72.4	0.8
T 22747	0.3	-1	567	-2	141	2	-5	2	1.7	-5	6	-20	1.52	67.6	0.6
T 22748	0.8	-1	461	-2	120	4	-5	-1	1.6	-5	7	-20	1.83	56.0	0.7
T 22749	0.8	2	1150	2	87	1	-5	3	1.5	-5	7	-20	4.57	39.5	0.7
T 22750	1.4	1	1720	-2	237	1	-5	-1	4.0	-5	9	-20	3.98	112.0	0.7
T 22751	1.9	3	1380	-2	125	1	-5	-1	2.2	-5	8	-20	2.08	62.6	0.8
T 22752	0.7	1	2180	-2	73	1	-5	1	1.3	-5	6	-20	3.13	33.9	0.7
T 22753	0.2	-1	-100	-2	-2	-1	7	-1	-0.5	-5	-0	-20	0.44	-0.5	-0.2
T 22754	0.7	2	570	2	98	1	5	4	1.5	-5	7	-20	4.40	43.8	0.6
T 22755	1.0	2	249	-2	109	-1	-5	1	1.8	-5	6	-20	3.50	48.5	0.6
T 22756	0.6	1	862	-2	74	3	-5	2	1.5	-5	7	-20	3.37	36.9	0.6
T 22757	0.4	1	355	-2	59	2	-5	4	1.3	-5	4	-20	34.10	38.6	0.3

Laboratory	BECQUE														
Method	INAA30														
D.P. Limi	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

069115

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HF PPM	IR PPB	FE %	LA PPM	LU PPM
T 22758	0.7	6	-100	-2	-2	-1	-5	1	-0.5	-5	-0	-20	55.20	5.5	-0.2
T 22759	0.7	-1	1100	-2	94	1	-5	3	1.8	-5	7	-20	3.98	43.2	0.6
T 22760	3.5	82	719	-2	91	4	105	8	1.2	-5	4	-20	3.34	43.1	0.5
T 22761	0.7	1	914	-2	127	1	5	1	1.7	-5	7	-20	2.17	61.6	0.6
T 22762	2.0	10	1500	5	155	5	-5	4	3.1	-5	6	-20	6.11	71.9	0.6
T 22763	1.2	14	1460	2	114	2	8	-1	1.1	-5	6	-20	1.58	55.7	0.5
T 22764	0.8	3	433	-2	92	5	47	3	1.6	-5	13	-20	3.22	42.1	0.6
T 22765	5.0	4	439	5	133	8	60	24	3.0	-5	5	-20	7.90	64.5	0.5
T 22772	0.7	2	1110	5	130	5	-5	16	2.1	-5	6	-20	5.04	61.4	0.5
T 22773	0.8	1	1240	-2	130	3	5	2	1.7	-5	7	-20	2.49	55.0	0.7
T 22774	6.1	48	1460	-2	107	7	109	23	1.6	-5	5	-20	3.80	55.0	0.4
T 22775	1.2	16	1390	-2	155	4	16	11	2.0	-5	4	-20	3.81	81.6	0.4
T 22776	2.4	4	974	2	100	12	485	36	2.0	-5	4	-20	8.25	44.2	0.4
T 22777	1.2	5	1030	8	141	1	37	26	3.2	-5	5	-20	8.56	68.1	0.5
T 22778	1.5	4	1090	-2	120	4	-5	2	1.6	-5	7	-20	2.05	55.5	0.7
T 22779	1.0	2	261	13	174	9	6	29	2.9	-5	5	-20	7.25	71.0	0.4
T 22780	3.8	6	816	-2	151	3	16	-1	1.4	5	6	-20	0.50	67.2	0.6
T 22781	1.8	42	-100	6	25	1	32	68	1.1	-5	1	-20	43.40	16.0	0.5
T 22782															
T 22783															
T 22784															
T 22785															
T 22786															
T 22787															
T 22788															
T 22789															
T 22790															
T 22791															
T 36701	0.3	1	727	-2	108	5	-5	-1	1.0	-5	5	-20	0.75	53.4	0.5
T 36702	1.1	-1	384	7	85	3	29	2	1.1	-5	11	-20	1.99	38.7	0.7
T 36703	0.6	-1	1710	-2	125	3	-5	1	1.4	-5	5	-20	1.18	58.7	0.5
T 36704	0.5	1	524	3	122	9	21	13	1.0	-5	4	-20	3.70	63.0	0.3
T 36705	0.7	-1	1230	-2	140	3	-5	-1	1.8	-5	6	-20	1.01	72.7	0.6
T 36706	1.6	1	1180	-2	133	3	-5	1	2.1	-5	9	-20	2.38	64.6	0.7
T 36707	1.8	3	785	3	127	4	-5	1	1.5	5	8	-20	1.64	58.5	0.6

069116

Laboratory	BECCOUE														
Method	INAA30														
UCL Limit	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HF PPM	IR PPB	FE %	LA PPM	LU PPM
T 36708	0.4	3	636	18	33	3	69	10	0.9	-5	8	-20	3.82	31.5	0.4
T 36709	0.7	1	997	-2	130	3	-5	1	1.8	-5	5	-20	1.30	62.6	0.6
T 36710	1.7	-1	1250	-2	120	4	-5	1	1.5	-5	4	-20	1.25	58.6	0.5
T 36711	0.5	1	606	-2	63	2	5	-1	0.7	-5	4	-20	1.02	26.8	0.4
T 36712	0.4	-1	1760	-2	80	3	-5	-1	1.4	-5	5	-20	1.20	47.4	0.5
T 36713	1.5	1	768	-2	137	4	14	2	2.0	5	6	-20	6.03	71.2	0.6
T 36714	1.6	1	812	-2	88	3	7	4	1.1	-5	4	-20	3.08	40.4	0.5
T 36715	0.5	-1	385	-2	146	4	-5	1	1.6	-5	5	-20	1.93	71.9	0.6
T 36716	5.0	25	1280	5	104	6	59	7	1.9	-5	9	-20	3.44	47.7	0.6
T 36717	3.2	27	595	3	93	7	48	4	1.0	-5	8	-20	2.54	43.0	0.5
T 36801	0.5	2	1200	-2	83	1	-5	-1	1.0	-5	7	-20	1.94	35.5	0.7
T 36802	0.9	-1	340	-2	136	3	-5	-1	1.3	-5	7	-20	1.38	62.8	0.6
T 36803	0.7	-1	1370	-2	141	2	-5	1	1.8	-5	8	-20	1.38	60.8	0.7
T 36804	0.4	-1	1180	-2	99	1	-5	6	1.6	-5	6	-20	3.60	40.8	0.6
T 36805	0.9	1	810	3	115	1	-5	3	1.7	-5	8	-20	3.64	50.6	0.6
T 36806	0.6	1	889	-2	128	1	-5	5	1.9	-5	8	-20	3.62	56.9	0.7
T 36807	1.0	1	584	2	96	2	-5	2	1.4	-5	6	-20	2.81	41.4	0.7
T 36808	1.2	4	1390	-2	161	2	-5	-1	1.7	-5	5	-20	1.49	70.4	0.5
T 36809	0.5	-1	347	-2	152	5	-5	1	1.8	-5	6	-20	1.29	66.7	0.6
T 36810	0.8	1	952	2	97	-1	-5	5	1.7	-5	7	-20	4.26	41.1	0.6
T 36811	-0.2	-1	-100	-2	6	-1	6	-1	-0.5	-5	-0	-20	0.59	2.9	-0.2
T 36812	0.7	5	897	9	174	7	68	31	2.3	-5	3	-20	9.81	91.3	0.3
T 36813	1.4	1	945	-2	112	12	11	5	2.8	-5	9	-20	5.20	53.7	1.0
T 36814	1.4	-1	850	-2	124	4	-5	-1	1.3	-5	6	-20	1.58	61.2	0.7
T 36815	1.1	4	746	4	128	9	8	12	1.4	-5	3	-20	5.36	70.5	0.4
T 36816	2.0	2	1000	-2	227	7	13	12	2.8	-5	4	-20	10.00	126.0	0.5
T 36817	1.5	3	1190	-2	233	10	10	14	3.0	-5	4	-20	5.35	131.0	0.4
T 36818	0.8	6	1240	-2	246	6	-5	12	2.4	22	6	-20	2.91	148.0	0.5
T 36819	0.8	4	1140	2	197	10	50	16	2.6	7	4	-20	6.58	109.0	0.5
T 36820	1.0	16	758	-2	150	7	7	5	1.9	5	5	-20	2.59	74.7	0.5
T 36821	3.2	6	978	-2	46	7	-5	2	0.9	-5	7	-20	5.55	20.1	0.7
T 36822	1.7	2	1280	-2	311	8	14	15	4.0	262	4	-20	5.07	176.0	0.6
T 36823	1.1	1	1100	-2	246	8	8	12	2.6	-5	5	-20	5.39	131.0	0.5
T 36824	-0.2	-1	-100	-2	-2	-1	8	-1	-0.5	-5	-0	-20	0.59	1.0	-0.2
T 36825	-0.2	-1	-100	-2	-2	-1	8	-1	-0.5	-5	-0	-20	0.59	1.0	-0.2

Laboratory Method	BECQUE INAA30														
Det. Limi	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

069117

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HF PPN	IR PPB	FE %	LA PPM	LU PPM
T 36826	0.4	-1	991	-2	103	7	11	4	1.7	-5	7	-20	2.38	52.1	0.6
T 36827	1.2	2	1100	-2	77	9	12	7	1.5	-5	8	-20	3.67	40.1	0.6
T 36828	1.2	1	857	-2	125	8	10	6	2.0	-5	7	-20	3.29	58.9	0.7
T 36829	0.5	-1	1510	-2	105	7	10	3	1.8	-5	6	-20	2.32	55.2	0.7
T 36830	0.7	3	1380	-2	191	6	9	2	2.4	-5	6	-20	3.22	71.2	0.8
T 36831	0.9	3	1390	-2	97	3	-5	1	1.0	-5	5	-20	2.45	48.3	0.6
T 36832	1.6	1	1860	-2	65	2	5	1	1.3	24	4	-20	4.92	34.8	0.6
T 36833	1.6	2	1600	-2	85	1	-5	5	1.2	29	4	-20	7.29	40.9	0.7
T 36834	2.0	10	3030	-2	73	1	-5	35	0.9	34	5	-20	4.45	35.1	0.5
T 36835	1.2	-1	3520	-2	92	1	-5	4	2.1	-5	8	-20	4.02	44.3	0.5
T 36836	2.5	-1	1560	4	86	6	8	8	1.3	-5	7	-20	3.12	44.0	0.4
T 36837	0.8	-1	1110	3	89	7	8	5	1.6	-5	6	-20	2.51	44.7	0.5
T 36838	0.3	4	1450	2	84	2	5	2	1.9	-5	7	-20	2.40	46.0	0.6
T 36839	0.5	1	1170	3	54	3	-5	4	0.8	-5	8	-20	2.41	31.7	0.4
T 36840	0.5	-1	1150	4	105	4	7	5	1.6	-5	7	-20	2.64	53.2	0.6
T 36841	0.6	-1	1190	2	77	4	6	8	1.1	11	5	-20	2.42	44.8	0.6
T 36842	0.7	1	985	-2	113	4	7	4	1.6	-5	8	-20	2.65	55.4	0.6
T 36843	2.8	15	1020	2	111	2	42	1	1.5	-5	7	-20	1.00	53.1	0.6
T 36844	2.1	6	1330	-2	57	2	7	131	0.7	19	5	-20	3.53	27.3	0.4
T 36845	1.8	7	1610	-2	117	3	-5	-1	2.1	-5	7	-20	1.59	56.0	0.7

Laboratory	BECQUE														
Method	INAA30														
Det. Lim	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

069118

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 22283	-13	3.6	203	11.6	9	-5	-5	0.03	2	35.3	-500	2	6	3.5	-100
T 22284	-5	4.4	188	9.6	7	-5	-5	0.04	1	22.4	-500	-2	4	4.4	101
T 22285	-5	4.9	218	9.5	7	-5	-5	0.06	1	21.2	-500	-2	4	4.2	-100
T 22286	-5	3.9	190	6.3	6	-5	-5	0.03	1	18.0	-500	-2	2	3.2	-100
T 22287	-11	3.9	194	3.1	6	-5	-5	0.05	1	18.5	-500	5	5	3.5	137
T 22288	-5	3.2	149	10.4	8	-5	-5	1.73	1	23.3	-500	-2	3	4.7	-100
T 22289	-5	3.8	175	9.3	17	-5	-5	0.14	-1	30.3	-500	-2	3	2.6	114
T 22290	15	3.5	145	13.0	19	12	-5	0.07	-1	27.4	-500	18	4	2.4	-100
T 22291	-5	2.9	136	2.8	8	-5	-5	0.04	1	17.1	-500	-2	4	3.7	-100
T 22292	-5	3.0	168	10.1	8	-5	-5	0.81	1	39.0	-500	-2	2	2.4	-100
T 22293	-10	2.4	132	7.4	6	-5	-5	0.65	1	19.8	-500	-2	5	3.1	115
T 22294	-5	1.5	95	4.1	26	-5	-5	0.74	1	12.0	-500	-2	2	1.7	141
T 22295	-5	1.8	82	10.1	14	-5	-5	3.23	3	27.9	-500	-2	2	2.5	118
T 22296	-5	3.4	102	9.1	11	-5	-5	1.24	-1	21.9	-500	-2	-2	3.9	104
T 22297	-5	2.4	93	11.9	9	-5	-5	1.38	-1	21.9	-500	-2	3	4.8	105
T 22298	-5	2.3	128	4.2	16	-5	-5	0.02	-1	17.7	-500	10	4	2.8	-100
T 22299	-5	0.3	27	8.8	6	-5	-5	-0.01	-1	12.9	-500	2	-2	3.5	148
T 22300	-5	2.4	119	9.2	9	-5	-5	1.48	2	19.6	-500	-2	2	4.3	-100
T 22401	-5	3.1	120	8.4	8	-5	-5	0.44	1	18.6	-500	-2	2	3.4	-100
T 22402	-5	3.3	128	6.9	9	-5	-5	0.15	1	16.1	-500	-2	4	4.4	-100
T 22403	-5	3.9	212	8.2	20	-5	-5	0.38	1	16.3	-500	-2	3	3.5	101
T 22404	-5	1.2	100	6.0	24	-5	-5	1.69	-1	8.5	-500	-2	-2	2.4	132
T 22405	-5	1.5	93	8.9	10	-5	-5	1.29	3	27.5	-500	-2	4	3.7	110
T 22406	-5	2.0	121	5.4	9	-5	-5	2.57	1	25.1	-500	-2	5	3.7	-100
T 22407	-5	2.3	103	7.1	7	-5	-5	0.03	-1	15.3	-500	-2	-2	3.3	-100
T 22408	-5	5.7	204	13.5	7	-5	-5	0.07	2	33.7	-500	-2	6	4.4	-100
T 22409	-5	2.9	138	12.0	29	-5	-5	2.15	-1	27.4	-500	-2	-2	3.0	298
T 22410	-5	2.9	169	10.8	29	-5	-5	0.16	-1	30.2	-500	-2	-2	2.6	453
T 22411	-5	2.2	114	4.1	4	-5	-5	0.03	-1	10.0	-500	7	-2	2.6	-100
T 22412	-5	2.3	135	9.1	5	-5	-5	0.03	-1	12.0	-500	20	-2	3.8	-100
T 22413	-5	2.1	109	8.2	6	-5	-5	2.16	1	25.1	-500	-2	3	4.0	-100
T 22414	-5	3.2	179	13.8	17	-5	-5	0.99	-1	33.4	-500	-2	3	2.8	350
T 22415	-5	4.3	190	6.4	13	-5	-5	0.10	1	18.9	-500	-2	2	3.4	174
T 22416	-5	3.1	175	9.6	7	-5	-5	0.12	1	24.1	-500	-2	-2	3.3	-100
T 22417	-5	2.2	118	5.9	12	-5	-5	1.10	-1	22.1	-500	-2	3	4.3	102

Laboratory	BECQUE														
Method	INAA30														
Det. Limi	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500		2.000	2.000	0.500	

069119

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 22418	-5	3.0	120	7.1	17	-5	-5	0.29	1	13.9	-500	6	2	3.4	110
T 22419	-5	5.3	106	8.4	3	-5	-5	0.10	1	18.0	-500	-2	4	3.2	-100
T 22420	-5	2.5	122	4.1	15	-5	-5	0.89	1	14.7	-500	-2	2	3.3	142
T 22421	-5	2.5	130	6.5	4	-5	-5	0.02	1	18.4	-500	-2	2	2.7	-100
T 22422	-5	3.0	150	7.2	7	-5	-5	0.02	-1	15.4	-500	2	2	3.0	-100
T 22423	-5	1.1	28	6.4	4	-5	-5	1.01	1	22.0	-500	-2	3	3.6	-100
T 22424	-5	3.0	152	6.6	5	-5	-5	0.02	1	17.7	-500	-2	2	3.3	-100
T 22425	-5	2.4	80	8.9	8	-5	-5	1.86	-1	16.6	-500	-2	4	3.8	103
T 22426	-5	4.1	243	8.8	9	-5	-5	0.03	-1	18.6	-500	7	3	3.9	-100
T 22427	-5	3.3	156	8.7	7	-5	-5	0.86	1	16.4	-500	-2	2	3.3	-100
T 22428	-5	4.4	199	6.3	8	-5	-5	0.06	1	17.7	-500	-2	3	3.3	118
T 22429	-5	3.4	227	6.3	7	-5	-5	0.04	1	15.2	-500	-2	2	3.1	109
T 22430	-5	3.1	192	6.3	7	-5	-5	0.17	-1	15.9	-500	-2	3	3.1	100
T 22431	-5	1.7	112	6.3	6	-5	-5	0.02	-1	13.7	-500	11	-2	2.9	142
T 22432	-5	3.1	127	8.0	7	-5	-5	0.14	-1	13.7	-500	-2	2	3.7	-100
T 22433	-5	2.6	82	8.1	7	-5	-5	0.56	-1	16.0	-500	-2	3	4.1	-100
T 22434	-5	3.1	116	9.0	9	-5	-5	0.16	1	17.6	-500	-2	2	4.1	-100
T 22435	-10	3.7	233	11.0	12	-5	-5	0.23	1	23.7	-500	-2	5	4.8	-100
T 22436	-5	3.9	208	11.4	26	-5	-5	0.49	1	13.4	-500	-2	-2	4.7	103
T 22437	-15	3.2	145	24.6	42	-5	-5	0.06	1	48.6	-500	-2	8	3.3	163
T 22438	-5	2.8	194	13.5	13	-5	-5	0.60	1	28.0	-500	-2	3	5.4	157
T 22439	-5	1.7	72	6.0	7	-5	-5	0.62	1	14.2	-500	-2	3	3.1	-100
T 22440	-5	3.7	140	9.7	10	-5	-5	0.04	-1	18.8	-500	-2	2	4.0	-100
T 22441	-5	2.4	121	9.5	8	-5	-5	0.18	-1	19.4	-500	-2	3	4.4	-100
T 22442	-5	3.4	152	7.4	9	-5	-5	0.05	1	16.1	-500	-2	-2	4.1	-100
T 22443	-5	2.0	114	13.7	17	-5	-5	0.21	1	29.2	-500	-2	4	3.1	176
T 22444	-27	0.9	32	21.0	41	-5	-5	0.32	1	57.8	-500	-2	15	4.6	294
T 22445	15	-0.2	-20	17.1	42	-5	-5	1.45	1	44.5	-500	-2	3	3.3	250
T 22446	-5	4.1	190	7.2	7	-5	-5	0.90	1	23.4	-500	-2	4	4.1	107
T 22447	-5	2.9	129	6.6	4	-5	-5	0.03	1	21.0	-500	-2	4	2.6	-100
T 22448	-5	3.9	181	9.0	14	-5	-5	0.14	1	19.4	-500	-2	5	4.0	131
T 22449	-5	2.7	148	2.0	4	-5	-5	0.81	-1	14.6	-500	-2	3	2.6	-100
T 22450	-5	1.7	101	6.7	17	-5	-5	1.78	1	16.1	-500	-2	-2	3.0	121
T 22451	-5	3.4	179	5.2	12	-5	-5	0.02	1	11.2	-500	2	3	4.0	-100
T 22452	-5	3.3	153	6.2	8	-5	-5	0.03	1	16.0	-500	-2	2	2.7	-100

Laboratory Method	BECCOUE INAA30														
Det. Limi	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500		2.000	2.000	0.500	

069120

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 22453	-5	1.6	80	4.9	11	-5	-5	1.42	1	20.5	-500	-2	3	4.7	-100
T 22454	-5	1.8	48	13.7	24	-5	-5	2.25	2	27.6	-500	-2	-2	2.7	132
T 22455	-5	2.7	110	4.8	12	-5	-5	0.04	-1	30.2	-500	-2	2	4.4	142
T 22456	-5	1.2	88	7.5	5	-5	-5	0.75	-1	12.9	-500	-2	2	3.0	-100
T 22457	-19	4.1	220	13.6	8	-5	-5	0.40	1	34.9	-500	-2	10	4.4	-100
T 22458	-5	2.2	116	10.1	14	-5	-5	0.16	-1	20.4	-500	-2	2	2.9	129
T 22459	-5	3.1	154	11.8	22	-5	-5	0.12	-1	29.3	-500	-2	-2	2.4	186
T 22460	-5	2.3	120	8.7	15	-5	-5	1.36	1	21.6	-500	4	-2	2.1	133
T 22461	-5	3.1	129	9.5	15	-5	-5	1.86	1	15.4	-500	-2	2	3.8	187
T 22462	-5	2.3	127	6.5	5	-5	-5	1.18	1	20.8	-500	-2	3	2.9	-100
T 22463	-11	3.2	177	9.6	8	-5	-5	0.06	1	36.9	-500	-2	6	2.9	-100
T 22464	-11	0.8	20	10.0	28	-5	-5	1.22	1	29.3	-500	-2	5	2.2	338
T 22465	-5	3.7	145	10.2	6	-5	-5	1.02	1	26.6	-500	-2	4	6.7	-100
T 22466	-5	3.0	140	7.7	6	-5	-5	0.03	-1	14.9	-500	2	2	3.0	-100
T 22467	-5	3.9	217	8.8	11	-5	-5	0.13	1	19.4	-500	-2	3	4.6	-100
T 22468	6	3.1	165	8.3	5	-5	-5	0.04	1	18.3	-500	-2	2	3.3	-100
T 22469	-5	2.2	56	8.7	17	-5	-5	2.65	-1	23.4	-500	-2	3	2.1	114
T 22470	-5	2.3	90	9.6	9	-5	-5	2.62	1	22.8	-500	-2	2	4.2	148
T 22471	-5	4.4	194	9.4	9	-5	-5	0.06	2	23.2	-500	-2	4	4.7	-100
T 22472	-5	2.8	117	7.1	9	-5	-5	0.05	1	14.5	-500	-2	-2	3.3	-100
T 22473	-5	-0.2	-20	-0.2	0	-5	-5	0.01	-1	-0.5	-500	-2	-2	-0.5	-100
T 22474	-5	3.3	122	4.7	10	-5	-5	1.78	2	17.4	-500	-2	3	3.4	-100
T 22475	-5	2.8	93	6.4	10	-5	-5	2.51	1	18.8	-500	-2	4	4.5	111
T 22476	-5	2.8	138	5.3	6	-5	-5	2.80	2	20.5	-500	-2	4	3.7	-100
T 22477	-5	0.7	27	6.9	6	-5	-5	2.16	-1	16.0	-500	-2	3	3.4	-100
T 22478	-5	2.4	142	9.8	9	-5	-5	1.34	-1	20.7	-500	-2	2	4.7	-100
T 22479	-5	3.8	158	10.7	11	-5	-5	1.23	1	21.0	-500	-2	2	4.7	101
T 22480	-5	4.4	159	8.1	7	-5	-5	1.38	-1	20.8	-500	-2	3	4.2	-100
T 22481	-5	5.0	146	12.1	9	-5	-5	0.08	1	19.0	-500	-2	-2	4.8	158
T 22482	-5	3.5	132	10.4	9	-5	-5	1.35	2	20.6	-500	-2	2	4.2	-100
T 22483	-5	1.3	57	6.4	22	-5	-5	2.25	2	10.8	-500	-2	-2	2.9	174
T 22484	9	2.8	132	6.4	9	-5	-5	1.84	2	19.0	-500	-2	-2	4.3	-100
T 22485	-5	2.8	129	9.6	9	-5	-5	2.34	2	18.2	-500	-2	2	4.5	119
T 22486	-5	1.9	113	4.7	16	-5	-5	0.47	1	11.4	-500	2	2	2.5	139
T 22487	-5	3.1	116	9.0	10	-5	-5	1.54	-1	20.2	-500	-2	2	4.5	-100

Laboratory	BECQUE														
Method	INAA30														
Det. Limi	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500		2.000	2.000	0.500	

069121

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 22488	-5	2.2	125	5.8	15	-5	-5	0.03	1	10.2	-500	-2	-2	2.7	136
T 22489	-5	3.3	128	3.5	9	-5	-5	1.57	1	18.8	-500	-2	5	4.6	-100
T 22490	5	2.6	149	10.4	5	-5	-5	1.80	2	22.3	-500	-2	-2	3.7	-100
T 22491	-5	3.3	143	7.0	4	-5	-5	1.76	1	22.1	-500	-2	-2	2.8	-100
T 22492	-5	2.2	89	3.9	2	-5	-5	1.08	-1	8.9	-500	-2	-2	1.3	-100
T 22493	-5	3.9	210	5.8	8	-5	-5	0.04	-1	17.2	-500	4	2	3.7	-100
T 22494	-5	2.6	141	5.9	5	-5	-5	0.04	1	16.6	-500	6	3	2.9	-100
T 22495	-5	5.6	205	1.9	5	-6	-5	0.14	1	20.0	-500	-2	3	2.9	-100
T 22496	-6	2.8	111	8.9	16	-5	-5	2.22	2	15.2	-500	-2	-2	4.1	156
T 22497	-5	2.0	111	4.0	5	-5	-5	0.03	-1	8.8	-500	5	-2	2.5	209
T 22498	-5	4.3	204	8.7	6	-5	-5	0.49	1	21.8	-500	-2	3	3.3	-100
T 22499	-5	3.8	219	7.2	6	-5	-6	0.02	1	19.1	-600	9	2	2.7	-100
T 22500	-5	-0.2	-20	-0.2	-0	-5	-5	-0.01	-1	-0.5	-500	-2	-2	-0.5	-100
T 22701	-5	1.9	93	7.5	19	-6	-5	1.57	1	18.3	-500	-2	4	4.1	152
T 22702	-5	1.5	72	8.7	12	-5	-5	2.14	2	19.9	-500	-2	3	3.8	141
T 22703	-5	3.3	127	10.6	10	-5	-5	1.49	1	21.5	-500	-2	3	4.8	-100
T 22704	14	3.1	86	8.5	9	-5	-5	2.17	1	19.4	-500	-2	-2	4.2	124
T 22705	-5	1.9	130	6.8	6	-5	-5	1.85	1	22.1	-500	-2	3	2.7	-100
T 22706	-7	3.7	173	13.4	34	-5	-5	1.05	-1	31.4	-500	-2	6	3.2	205
T 22707	-5	4.7	195	7.7	6	-5	-5	0.05	1	18.4	-500	-2	3	3.0	-100
T 22708	-5	3.8	210	16.1	26	-5	-5	1.33	1	35.1	-500	-2	3	3.3	323
T 22709	-5	3.5	135	11.0	10	-6	-6	1.23	-1	20.1	-500	-2	-2	5.1	-100
T 22710	-5	3.2	124	10.1	11	-5	-5	0.69	1	17.7	-500	-2	2	4.4	-100
T 22711	-5	2.1	109	7.9	8	-5	-5	2.77	1	16.4	-500	-2	2	3.4	151
T 22712	-5	4.2	234	9.0	13	-5	-5	0.04	1	20.8	-500	-2	-2	4.2	-100
T 22713	-5	4.4	140	11.0	9	-5	-5	0.05	-1	19.9	-500	-2	3	4.6	-100
T 22714	-5	7.3	317	19.0	24	-5	-5	0.03	-1	39.9	-500	3	-2	3.5	142
T 22715	-5	2.0	94	9.7	9	-5	-5	3.08	-1	19.9	-500	-2	-2	4.1	130
T 22716	-5	3.0	135	9.6	5	-5	-5	0.04	-1	18.4	-500	3	-2	3.5	-100
T 22717	-5	1.6	71	9.2	14	-5	-5	3.13	1	19.0	-500	-2	2	3.9	142
T 22718	-5	-0.2	-20	9.2	4	8	12	-0.01	-1	4.5	-500	9	-2	2.0	409
T 22719	-5	2.2	124	9.2	6	-5	-5	0.02	-1	18.0	-500	2	3	4.1	152
T 22720	-5	2.9	109	9.0	15	-5	-5	1.96	1	15.1	-500	-2	-2	4.0	122
T 22721	-5	3.6	158	8.9	10	-5	-5	0.19	-1	19.5	-500	-2	3	4.7	-100
T 22722	-5	3.7	162	9.9	8	-5	-5	0.69	1	21.0	-600	2	2	4.3	-100

Laboratory	BECCOUE															
Method	INAA30															
Det. Limi	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500		2.000	2.000	0.500		

069122

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 22723	-5	3.0	144	8.2	12	-5	-5	0.04	1	14.5	-500	6	4	3.4	-100
T 22724	-5	3.5	168	9.7	13	-5	-5	0.06	1	18.5	-500	-2	3	4.0	118
T 22725	-5	4.0	141	7.9	10	-5	-5	1.51	1	17.8	-500	2	4	4.6	-100
T 22726	-5	2.6	114	3.4	14	-5	-5	1.09	-1	23.0	-500	-2	4	2.8	144
T 22727	-5	3.5	140	7.0	10	-5	-5	1.26	1	20.5	-500	-2	3	3.4	120
T 22728	-5	2.3	115	7.5	6	-5	-5	2.11	2	21.4	-500	-2	3	3.4	121
T 22729	-5	3.3	149	10.8	10	-5	-5	1.40	1	19.9	-500	-2	2	4.9	-100
T 22730	-5	1.3	63	7.9	8	-5	-5	2.34	1	16.2	-500	-2	3	3.3	111
T 22731	-5	2.9	135	8.4	19	-5	-5	1.07	1	15.0	-500	-2	2	4.2	112
T 22732	-5	4.2	152	8.2	6	-5	-5	1.52	1	21.4	-600	2	2	3.5	122
T 22733	-5	5.1	224	9.9	6	-5	-5	0.07	1	25.1	-500	7	3	3.5	-100
T 22734	-5	3.4	183	9.9	8	-5	-5	0.77	1	24.5	-600	-2	3	4.0	111
T 22735	-5	4.9	239	11.7	10	-5	-5	0.12	-1	22.6	-500	-2	2	4.9	-100
T 22736	-5	1.2	82	9.9	5	-5	-5	2.17	1	22.4	-500	-2	2	3.3	185
T 22737	-5	5.2	200	9.4	8	-5	-5	0.68	1	20.4	-500	-2	3	4.8	-100
T 22738	-5	3.7	138	9.9	9	-5	-5	1.09	1	21.7	-500	-2	3	4.5	-100
T 22739	-5	3.0	144	6.7	10	-5	-5	2.04	1	18.3	-500	-2	2	4.2	113
T 22740	-5	3.1	163	7.1	7	-5	-5	0.04	-1	15.8	-500	3	3	3.9	-100
T 22741	-5	3.2	141	9.5	10	-5	-5	2.28	1	20.5	-500	-2	2	4.6	131
T 22742	-5	2.2	136	8.1	6	-5	-5	2.11	2	27.6	-500	-2	5	3.9	-100
T 22743	-5	2.7	135	6.0	18	-5	-5	0.03	1	12.4	-500	-2	2	3.0	-100
T 22744	-5	1.5	68	7.9	49	-5	-5	1.34	-1	12.2	-500	-2	-2	2.6	265
T 22745	-5	3.3	128	10.1	9	-5	-5	2.31	2	19.9	-500	-2	3	4.4	-100
T 22746	-5	3.6	184	13.8	20	-5	-5	1.38	1	19.3	-500	13	-2	5.3	-100
T 22747	-5	3.0	187	10.1	7	-5	-5	1.25	2	21.2	-500	-2	2	3.6	-100
T 22748	-5	3.4	175	9.8	10	-5	-5	0.58	-1	19.8	-500	-2	4	4.4	-100
T 22749	-5	3.0	117	8.1	15	-5	-5	2.42	-1	16.6	-500	-2	2	4.5	139
T 22750	-5	6.1	236	17.3	7	-5	-5	0.09	2	22.1	-500	-2	2	4.5	-100
T 22751	-5	5.9	207	10.8	9	-5	-5	0.22	1	20.6	-500	-2	3	5.0	116
T 22752	-5	3.0	135	6.9	12	-5	-5	2.99	1	19.2	-500	-2	2	4.2	148
T 22753	-5	-0.2	-20	-0.2	-0	-5	-5	-0.01	-1	-0.5	-500	-2	-2	-0.5	-100
T 22754	-5	2.4	85	7.4	17	-5	-5	2.65	1	14.7	-500	-2	-2	3.6	175
T 22755	-5	1.9	108	9.0	14	-5	-5	2.31	2	15.5	-500	-2	2	4.2	123
T 22756	-5	3.2	179	6.4	10	-5	-5	1.75	-1	17.5	-500	-2	-2	3.8	-100
T 22757	-5	1.3	120	5.2	5	-5	-5	0.03	-1	14.6	-500	-2	4	2.0	-100

Laboratory	BECQUE														
Method	INAA30														
Det. Limi	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500		2.000	2.000	0.500	

069123

PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 22758	-5	-0.2	25	1.4	3	-5	-5	0.03	-1	1.6	-500	170	-2	0.9	-100
T 22759	-5	2.2	98	8.4	15	-5	-5	2.33	1	15.5	-500	-2	2	4.2	121
T 22760	-5	3.3	168	7.0	16	-5	-5	0.04	-1	15.5	-500	3	4	3.5	-100
T 22761	-5	2.1	90	9.5	8	-5	-5	2.65	2	17.8	-500	-2	3	4.1	-100
T 22762	-5	2.8	147	12.4	26	-5	-5	1.37	1	19.6	-500	11	-2	3.6	140
T 22763	-5	2.6	92	7.2	9	-5	-5	2.17	1	15.1	-500	2	3	3.1	-100
T 22764	-5	2.5	160	10.9	20	-5	-5	1.35	2	11.9	-500	-2	-2	3.9	120
T 22765	-5	3.6	199	11.8	33	-5	-5	0.18	1	16.2	-500	-2	3	3.0	148
T 22772	-5	2.3	103	9.9	22	-5	-5	1.86	1	20.2	-500	-2	-2	3.3	1240
T 22773	-5	2.4	130	9.8	8	-5	-5	3.05	2	19.5	-500	-2	3	4.1	120
T 22774	-5	3.6	169	7.1	19	-5	-5	0.75	-1	17.9	509	-2	3	2.7	2310
T 22775	-5	2.5	117	8.5	12	-5	-5	2.43	1	24.9	-500	-2	3	2.6	312
T 22776	-5	5.1	217	9.1	44	-5	-5	0.13	-1	13.8	-500	-2	-2	2.6	234
T 22777	-5	1.6	44	12.3	36	-5	-5	2.13	1	13.2	-500	-2	-2	3.3	188
T 22778	-5	3.0	106	9.5	9	-5	-5	2.04	1	20.4	-500	-2	2	4.6	180
T 22779	-5	2.4	133	13.8	32	-5	-5	0.06	1	20.3	-500	-2	-2	2.7	230
T 22780	-5	2.8	138	8.6	8	-5	-5	0.06	1	22.7	-500	2	4	3.5	-100
T 22781	-5	0.4	47	6.0	8	-5	-5	-0.01	-1	5.4	-500	-2	-2	3.0	397
T 22782															
T 22783															
T 22784															
T 22785															
T 22786															
T 22787															
T 22788															
T 22789															
T 22790															
T 22791															
T 36701	-5	3.1	190	6.5	5	-5	-5	0.05	1	19.2	-500	-2	3	3.0	-100
T 36702	-5	1.3	96	6.4	14	-5	-5	0.06	1	28.3	-500	-2	4	4.4	-100
T 36703	-5	6.0	166	8.3	5	-5	-5	0.09	-1	22.4	-500	-2	2	3.2	-100
T 36704	-5	3.3	174	6.1	18	-5	-5	0.79	-1	26.2	-500	-2	2	2.0	107
T 36705	-5	5.1	164	11.1	5	-5	-5	1.48	1	25.1	-500	-2	2	3.6	-100
T 36706	-5	4.5	203	11.4	13	-5	-5	0.49	1	22.3	-500	-2	3	4.7	108
T 36707	-5	2.7	121	10.0	10	-5	-5	0.03	-1	27.3	-500	-2	2	3.5	-100

Laboratory	BECCQUE														
Method	INAA30														
Det. Limit	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500		2.000	2.000	0.500	

069124

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 36708	-5	1.7	105	6.2	20	-5	-5	0.03	1	23.0	-500	-2	4	2.7	176
T 36709	-5	2.3	129	9.9	5	-5	-5	2.26	2	23.0	-500	-2	2	4.0	154
T 36710	-5	3.2	163	8.2	5	-5	-5	0.04	1	18.1	-500	-2	-2	3.2	-100
T 36711	-5	1.4	126	4.9	5	-5	-5	2.51	1	18.4	-500	-2	2	2.6	131
T 36712	-5	4.9	207	8.3	6	-5	-5	1.53	1	25.5	-500	-2	4	3.5	121
T 36713	-5	2.4	119	9.6	8	-5	-5	0.55	1	19.6	-500	6	4	4.0	240
T 36714	-5	3.2	160	5.6	5	-5	-5	0.04	-1	14.1	-500	5	2	3.3	-100
T 36715	-5	2.0	172	10.2	6	-5	-5	2.43	2	24.6	-500	-2	3	3.9	113
T 36716	-5	3.4	201	9.7	17	-5	-5	0.80	1	16.1	-500	7	2	3.9	-100
T 36717	-5	3.5	215	7.3	11	-5	-5	0.94	1	16.9	-500	-2	3	3.4	-100
T 36801	-5	3.7	115	6.4	8	-5	-5	2.19	1	19.6	-500	-2	2	4.1	102
T 36802	-5	3.9	195	8.7	9	-5	-5	0.04	-1	17.6	-500	-2	2	3.8	-100
T 36803	-5	3.5	156	9.6	10	-5	-5	0.20	1	18.9	-500	7	3	4.8	-100
T 36804	-5	2.9	107	8.5	15	-5	-5	2.23	1	15.3	-500	-2	-2	3.8	113
T 36805	-5	2.2	63	9.3	16	-5	-5	2.96	1	16.2	-500	-2	-2	4.1	165
T 36806	-5	2.5	123	10.4	17	-5	-5	2.43	1	16.4	-500	-2	-2	4.3	186
T 36807	-5	2.1	126	7.4	16	-5	-5	2.31	1	17.1	-500	-2	-2	4.4	-100
T 36808	-5	5.4	202	10.7	5	-5	-5	0.21	1	21.0	-500	2	3	3.1	-100
T 36809	-5	2.6	168	10.2	7	-5	-5	0.57	1	20.9	-500	-2	4	3.8	-100
T 36810	-5	2.3	75	8.2	14	-5	-5	2.32	1	15.1	-500	-2	-2	4.0	125
T 36811	-5	-0.2	-20	0.4	0	-5	-5	0.30	-1	1.0	-500	-2	-2	-0.5	-100
T 36812	-5	1.5	52	9.2	32	-5	-5	2.03	1	22.5	-500	-2	2	1.9	196
T 36813	-5	5.4	212	12.0	24	-5	-5	0.18	1	13.6	-500	-2	-2	6.4	133
T 36814	-5	3.5	134	9.4	6	-5	-5	0.03	1	14.2	-500	3	2	4.4	-100
T 36815	-5	2.8	119	6.7	17	-5	-5	0.08	-1	29.1	-500	-2	7	1.7	171
T 36816	-5	2.9	119	12.4	16	-5	-5	0.06	-1	34.2	-500	-2	4	2.2	331
T 36817	-5	4.1	165	12.3	18	-5	-5	0.07	-1	30.9	-500	5	4	3.3	168
T 36818	-5	3.3	125	11.3	14	-5	-5	0.06	-1	21.0	-500	8	3	2.9	-100
T 36819	-5	3.8	144	11.4	21	-5	-5	0.06	-1	32.2	-500	-2	3	3.1	-100
T 36820	-5	2.9	127	10.0	9	-5	-5	0.09	1	24.4	-500	-2	4	2.8	165
T 36821	-5	3.1	131	4.4	12	-5	-5	0.04	1	21.6	-500	2	4	3.3	102
T 36822	-5	2.8	143	16.2	17	-5	-5	1.32	1	35.2	-500	-2	5	4.3	210
T 36823	-5	2.9	139	12.8	14	-5	-5	0.07	-1	37.9	-500	-2	6	3.1	434
T 36824	-5	-0.2	-20	-0.2	0	-5	-5	0.06	-1	37.4	-500	-2	5	3.2	178
T 36825	-5	-0.2	-20	-0.2	0	-5	-5	0.01	-1	-0.5	-500	-2	-2	-0.5	-100

Laboratory	BECQUE														
Method	INAA30														
Det. Limit	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500		2.000	2.000	0.500	

069125

## PROJECT: GARFIELD\CLARK VALLEY - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	MG PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 36826	-5	3.2	149	7.8	12	-5	-5	0.23	1	18.1	-500	-2	-2	3.7	208
T 36827	-5	2.7	137	8.1	14	-5	-5	0.63	2	18.4	-500	-2	2	3.9	479
T 36828	-5	3.2	127	11.1	13	-5	-5	0.71	1	17.2	-500	-2	-2	4.4	266
T 36829	-5	3.3	148	8.7	9	-5	-5	1.98	1	18.5	-500	-2	-2	4.1	391
T 36830	-5	2.8	147	12.2	9	-5	-5	0.47	-1	19.9	-500	-2	3	5.0	297
T 36831	-5	3.6	166	6.6	4	-5	-5	1.12	1	22.9	-500	-2	4	3.6	106
T 36832	-19	4.4	96	5.7	4	-5	-5	0.06	1	23.8	-500	9	10	3.8	-100
T 36833	-14	4.1	104	7.3	2	-5	-5	0.06	2	26.4	-500	12	7	4.4	162
T 36834	-5	5.5	121	5.7	5	-5	-5	0.08	1	17.2	-500	15	3	3.4	-100
T 36835	-5	5.5	144	8.8	15	-5	-5	0.09	1	14.4	-500	21	-2	3.1	-100
T 36836	-5	5.6	206	6.9	11	-5	-5	0.07	1	20.7	-500	-2	3	2.7	-100
T 36837	-5	4.8	208	7.5	11	-5	-5	0.06	1	18.8	-500	-2	2	3.0	257
T 36838	-5	3.0	116	7.9	11	-5	-5	1.90	2	17.2	-500	-2	2	3.8	117
T 36839	-5	2.8	110	4.5	11	-5	-5	0.56	1	20.8	-500	-2	3	2.6	113
T 36840	-5	2.9	134	8.0	11	-5	-5	0.71	1	23.9	-500	-2	2	3.4	-100
T 36841	-5	3.4	184	6.6	7	-5	-5	0.16	1	21.0	-500	-2	3	3.8	-100
T 36842	-5	3.1	139	8.4	12	-5	-5	0.93	2	19.4	-500	-2	3	3.6	-100
T 36843	-5	3.4	175	8.8	10	-5	-5	0.06	1	19.4	-500	-2	4	3.9	-100
T 36844	-5	3.3	154	4.4	6	-5	-5	0.05	1	12.8	-500	15	-2	2.7	-100
T 36845	-5	3.9	188	10.4	15	-5	-5	0.04	1	18.4	-500	5	4	4.5	143

Laboratory BECQUE  
 Method INAA30  
 Det. Lim 5.000 0.200 0.000 0.200 5.000 5.000 5.000 0.050 1.000 0.500 2.000 2.000 0.5

069126

APPENDIX 3

West Sedgwick

rock chip geochemistry

PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME.

SAMPLE NUMBER	NORTH metres	EAST metres	CODE	SAMPLR	DATE	QCONT	MAP	REF	GRID	KIND	ROCK	UNIT	ALTER	OREMIN
T 22129	46750	81600	5532	SHRF	NOV.91		MARG 5	3834	CST	RC	ANDS	Ct		PYMSSI
	Remark: Strongly altered felsic volcanic.													
T 22130	46750	81600	5532	SHRF	NOV.91		MARG 5	3834	CST	RC	FELS	Ct		
	Remark: Same location as T22129.													
T 22131	46635	81600	5532	SHRF	NOV.91		MARG 5	3834	CST	RC	ANDS	Ct		MSSI
	Remark: Weakly alt, xtal rich intermed volcanic. ?More mafic than Ctt, no qtz.													
F 22132	46580	81600	5532	SHRF	NOV.91		MARG 5	3834	CST	RC	ANDS	Ct		
	Remark: Fresh Hb-phyric andesite.													
T 22133	46435	81600	5532	SHRF	NOV.91		MARG 5	3834	CST	RC	ANDS	Ct		
	Remark: C.g. xtal rich. Hb-plag phyric.													
T 22134	46000	81800	5532	SHRF	NOV.91		MARG 5	3834	CST	RC	VLCC	Ct		
	Remark: Relative mafic version of Cst tuff, no qtz pheno's, c.f. Lynchford tuff.													
T 22135	46305	81700	5532	SHRF	NOV.91		MARG 5	3834	CST	RC	EPIC	Ct		SIMSC
	Remark: Shaley epiclastic(?) with coarse lithics, at the top of Cta unit.													
T 22136	46360	81730	5532	SHRF	NOV.91		MARG 5	3834	CST	RC	LAVA	Ct		
	Remark: Spherulitic f.g. andesitic lava.													
T 22137	45815	82575	5532	SHRF	NOV.91		MINE 5	3834	AMG	RC	ANDS	Ct		
	Remark: Fresh andesite. C64 drillsite.													
T 22138														STD
	Remark: Vein quartz standard to check sample prep.													
T 22139	47000	79945	5532	SH	NOV.91		YULN 5	3834	WS	RC	FELS	Cv		MSPY
	Remark: Pale green sericitic felsic volcanic.													
F 22140	46000	80000	5532	RF	NOV.91		MINE 5	3834	WS	RC	VLCC	Cv		CL
	Remark: Massive, fspar-phyric felsic. Chl alt in groundmass & fspar pheno's.													
F 22141	46400	80100	5532	RF	NOV.91		MARG 5	3834	WS	RC	XVLC	Cv		SIMS
	Remark: Wkly foliated, alt, fspar-phyric. Vy fine groundmass.													
F 22142	46400	80200	5532	RF	NOV.91		MARG 5	3834	WS	RC	FELS	Cv		SIMSPY
	Remark: Very strongly alt felsic rock.													
T 22143	46400	80360	5532	RF	NOV.91		MARG 5	3834	WS	RC	EPIC	Cv		SI
	Remark: Definite sandy qtz-fspar felsic epiclastic. Plithic clasts.													
F 22144	46400	80470	5532	RF	NOV.91		MARG 5	3834	WS	RC	ANDS	Cv		CL
	Remark: Strongly alt(qtz-ser-py) ands. Sample is less alt, chloritic andesite.													
F 22145	46400	80900	5532	RF	NOV.91		MARG 5	3834	WS	RC	ANDS	Cv		CLAB
	Remark: Andesite. Some albitic alteration.													

Laboratory:  
Method:  
Det. Limit:

069128

## PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME.

SAMPLE NUMBER	NORTH metres	EAST metres	CODE	SAMPLR	DATE	QCONT	MAP	REF	GRID	KIND	ROCK	UNIT	ALTER	OREMIN
T 22146	46400	81375	5532	RF	NOV.91		MARG 5	3834	WS	RC	ANDS	CV	EPSICL	
														Remark: Altered Hb-ande. Some epidote-qtz alteration of feldspars.
T 22147	46400	81515	5532	RF	NOV.91		MARG 5	3834	WS	RC	ANDS	CV	AB	
														Remark: Fresher xtal rich Hb-ande. (abundant fspar pheno).
T 22148	46400	81650	5532	RF	NOV.91		MARG 5	3834	WS	RC	ANDS	CV	AB	
														Remark: Altd Hb-ande. Strong albite alt (similar to T22147, but more altered).
T 22149	46400	81730	5532	RF	NOV.91		MARG 5	3834	WS	RC	ANDS	CL	CL	
														Remark: Spherulitic andesite lava.
T 22150	46600	81175	5532	RF	NOV.91		MARG 5	3834	WS	RC	ANDS	CV		
														Remark: Fresh Hb-andesite.
F 22151	46600	80200	5532	RF	NOV.91		MARG 5	3834	WS	RC	XVLC	CV		
														Remark: Feldspar-phyric felsic.
T 22152	46600	79900	5532	RF	NOV.91		YOLN 5	3634	WS	RC	ALTD	CV	SIMS	
														Remark: Very alt & weathered rock. (Could be ande or felsic volcanoclastic).
T 22153	48400	80125	5532	RF	NOV.91		MARG 5	3834	WS	RC	FELS	CV	SIMSKA	
														Remark: Very weathered & altered.
T 22154	48400	80170	5532	RF	NOV.91		MARG 5	3834	WS	RC	XVLC	CV	SIMSCL	
														Remark: Light grey, alt, fspar-phyric.
T 22155	48400	80225	5532	RF	NOV.91		MARG 5	3834	WS	RC	FELS	CV	SIMSCL	
														Remark: Altd green-spotted felsic rock. Volcanoclastic ?
F 22156	48400	80265	5532	RF	NOV.91		MARG 5	3834	WS	RC	VLCC	CV	SIMS	
														Remark: Strongly foliated, altered, fspar-phyric VLCC.
F 22157	48400	80310	5532	RF	NOV.91		MARG 5	3834	WS	RC	VLCC	CV		
														Remark: V. strong foliated, green, fg felsic. Note. EPIC downstream.
F 22158	48400	80350	5532	RF	NOV.91		MARG 5	3834	WS	RC	FELS	CV	SIMS	
														Remark: ? Relict fspar grains. Volcanoclastic ?
T 22159	48400	80550	5532	RF	NOV.91		MARG 5	3834	WS	RC	LAVA	CV	SIMS	
														Remark: Green xtal-rich fspar-phyric felsic volcanic.
F 22160	48400	80750	5532	RF	NOV.91		MARG 5	3834	WS	RC	LAVA	CV	MSCL	
														Remark: L. Brown, weathered, fspar-phyric felsic volcanic (?lava).
F 22161	48400	81110	5532	RF	NOV.91		MARG 5	3834	WS	RC	FELS	CV		
														Remark: Altd grey, strongly foliated, weakly feldspar-phyric.
F 22162	48600	80675	5532	RF	NOV.91		MARG 5	3834	WS	RC	FELS	CV	SIMSCL	
														Remark: V. weathered, green, mod xtal rich (?lava or VLCC).

Laboratory:  
Method :  
Det. Limit:

069129





## PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME.

SAMPLE NUMBER	NORTH metres	EAST metres	CODE	SAMPLR	DATE	QCONT	MAP	REF	GRID	KIND	ROCK	UNIT	ALTER	DREMIN
T 22197	47540	79900	5532	RF	NOV.91		YOLN 5 3634		WS	RC	EPIC	Cv		
Remark: Xtal rich (fspar-phyric) felsic (?abundant clasts of light grey shale).														
T 22198	47215	79900	5532	RF	NOV.91		YOLN 5 3634		WS	RC	XVLC	Cv		
Remark: Weathered vy xtal rich (fepar-phyric) fg felsic, shale interbeds.														
T 22199	46520	79900	5532	RF	NOV.91		YOLN 5 3634		WS	RC	XVLC	Cy		
Remark: Feldepar-phyric felsic.														
T 22200	46275	79900	5532	RF	NOV.91		YOLN 5 3634		WS	RC	XVLC	Cy	KAMS	
Remark: Vy weathered: feldspar phyric felsic.														
T 22222	45600	81535	5532	MFJC	NOV.91		MINE 5 3834		WS	RC	ANDS	Cv	CLAB	PY
Remark: Albitized fspar in chloritic matrix. "Pseudo-fragmental" texture.														
T 22223	45600	81470	5532	MFJC	NOV.91		MINE 5 3834		WS	RC	ANDS	Cv	MSCL	
Remark: Definite relict Hb chlorite altered. Strongly weathered.														
T 22224	45600	81140	5532	MFJC	NOV.91		MINE 5 3834		WS	RC	XVLC	Cv	MSKA	
Remark: More than likely felsic. Gritty sized particles, green with white spots.														
T 22225	45600	80990	5532	MFJC	NOV.91		MINE 5 3834		WS	RC	VLCC	Cv	MSCL	
Remark: Original felsic rock, gritty to gravelly sized fepar-pheno's.														
T 22226	45720	80150	5532	MFJC	NOV.91		MINE 5 3834		WS	RC	FELS	Cv	MSLI	
Remark: Felsic rock - alt(or deeply weathered). Same rock as previous 2 samples.														
T 22227	45800	81175	5532	MFJC	NOV.91		MINE 5 3834		WS	RC	ANDS	Cv	CL	
Remark: Agglomerate Hill ands with small laths? (1-3mm) of Hb.														
T 22228	46000	81665	5532	MFJC	NOV.91		MINE 5 3834		WS	RC	VLCC	Cv	ABMS	
Remark: Comstock tuff, fine-grained.														
T 22229	46010	81000	5532	MFJC	NOV.91		MARG 5 3834		WS	RC	ANDS	Cv	CLMS	PY
Remark: Possible andesite: xtal rich fspar phyric with diss py. No Hb. ?felsic.														
T 22230	46200	80500	5532	MFJC	NOV.91		MARG 5 3834		WS	RC	VLCC	Cv	CLABMS	
Remark: Possible felsic rock ? Chlorite selvages maybe Hb.														
T 22231	46200	81150	5532	MFJC	NOV.91		MARG 5 3834		WS	RC	ANDS	Cv	CL	PY
Remark: Typical example of Agglomerate Hill andesite.														
T 22232	46200	81425	5532	MFJC	NOV.91		MARG 5 3834		WS	RC	ALTD	Cv	MSSILI	PY
Remark: Highly foliated, altered rock.														
T 22235	48740	80750	5532	MF	NOV.91		MARG 5 3834		WS	RC	XVOL	Cv	MSLI	
Remark: ?Marker horizon?														
T 22236	48490	80750	5532	MF	NOV.91		MARG 5 3834		WS	RC	LAVA	Cv	MSABCL	
Remark: Maybe a lava. Andesitic ?														

Laboratory:  
Method:  
Det. Limit:

069132

## PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME.

SAMPLE NUMBER	NORTH metres	EAST metres	CODE	SAMPLR	DATE	QCONT	MAP	REF	GRID	KIND	ROCK	UNIT	ALTER	OREMIN
T 22237	48395	80750	5532	MF	NOV.91		MARG 5	3834	WS	RC	LAVA	Cv		MSABLI
														Remark: Same as the previous sample. Andesite?
T 22238	47895	80750	5532	MF	NOV.91		MARG 5	3834	WS	RC	LAVA	Cv		MSSI
														Remark: Appears more siliceous variety of previous samples, massive. Felsic rock.
T 22239	47557	81000	5532	MF	NOV.91		MARG 5	3834	WS	RC	XVOL	Cv		MSLISI
														Remark: Similar to T22236, more foliated, more xtal rich? & Qtz-phenos (<= 2mm).
T 22240	46985	81000	5532	MF	NOV.91		MARG 5	3834	WS	RC	ANDS	Cv		CLABMS
														Remark: Relict Hb obvious.
T 22241	46080	81000	5532	MF	NOV.91		MARG 5	3834	WS	RC	LAVA	Cv		MSSI
														Remark: Xtal rich, feldspar-phyric felsic rock.
T 22242	45000	80060	5532	MF	NOV.91		MINE 5	3834	WS	RC	XVLC	Cv		ABMS
														Remark: X-tal rich "tuff" of Western Sequence ?.
T 22243	45000	80120	5532	MF	NOV.91		MINE 5	3834	WS	RC	VLCC	Cv		MSLI
														Remark: Felsic rock.
T 22244	45000	80250	5532	MF	NOV.91		MINE 5	3834	WS	RC	LAVA	Cv		BL
														Remark: Corbett's felsic lava ?, strongly weathered.
T 22245	45000	80943	5532	MF	NOV.91		MINE 5	3834	WS	RC	VLCC	Cv		MSSILI
														Remark: Felsic rock - fragmental rock varying from coarse-blocky to sand-silty.
T 22246	45000	81485	5532	MF	NOV.91		MINE 5	3834	WS	RC	VLCC	Cv		MSABCL
														Remark: Coarse to blocky polymict volcanoclastic. Also x-tal rich.
T 22247	45000	81580	5532	MF	NOV.91		MINE 5	3834	WS	RC	VLCC	Cv		MSABSI
														Remark: Fine-grained felsic VLCC. Finer-grained variety of previous sample.
T 22248	44800	80285	5532	MF	NOV.91		MINE 5	3834	WS	RC	VLCC	Cv		MS
														Remark: Fine-grained VLCC felsic rock. (Silty to sandy).
T 22249	44800	79915	5532	MF	NOV.91		DIAM 5	3634	WS	RC	SAND	Cy		MSCL
														Remark: Sandy micaceous VLCC. Western Sequence? x-tal rich?
T 22250	44220	80000	5532	MF	NOV.91		DIAM 5	3634	WS	RC	SAND	Cy		BL
														Remark: Bedded. Deeply weathered sandy & fine-grained VLCC. Detrital or pheno Qtz?
T 22251	44200	80070	5532	MF	NOV.91		MINE 5	3834	WS	RC	SAND	Cy		MSSIBL
														Remark: XVLC with mainly fsp & minor Qtz. Maybe less alt equiv of prev sample
T 22252	44200	80180	5532	MF	NOV.91		MINE 5	3834	WS	RC	XVLC	Cy		MSBL
														Remark: Corbett's quartz-fspar phyric porphyry in the Yolande Sequence.
T 22253	44200	80425	5532	MF	NOV.91		MINE 5	3834	WS	RC	XVLC	Cv		MSABCL
														Remark: X-tal rich felsic rock.

Laboratory:  
Method:  
Det. Limit:

069133

PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME.

SAMPLE NUMBER	NORTH metres	EAST metres	CODE	SAMPLR	DATE	QCONT	MAP	REF	GRID	KIND	ROCK	UNIT	ALTER	OREMIN
T 22254	44200	81195	5532	MF	NOV.91		MINE 5	3834	WS	RC	VLCC	Cv	MSL1	
	Remark:felsic rock - fragmental texture, coarse in patches(epiclastic?).													
T 22255	44210	81330	5532	MF	NOV.91		MINE 5	3834	WS	RC	XVLC	Cv	MSL1BL	
	Remark:More foliated felsic lava rock?													
T 22256	44200	81535	5532	MF	NOV.91		MINE 5	3834	WS	RC	LAVA	Cv	MS	
	Remark:Felsic rock.													
T 22257	44000	81480	5532	MF	NOV.91		MINE 5	3834	WS	RC	ANDS	Cv	MSCL	
T 22258	44000	80475	5532	MF	NOV.91		MINE 5	3834	WS	RC	SILT	Cy	MSBL	
	Remark:Fine grained felsic VLCC.													
T 22259	44000	79950	5532	MF	NOV.91		DIAM 5	3634	WS	RC	SHAL	Cy	MS	
	Remark:Fine-grained vitric volcanoclastic.													
T 22260	45800	80045	5532	RF	NOV.91		MINE 5	3834	WS	RC	XVLC	Cv		
	Remark:Vy fine-grained, feldspar-phyric felsic.													
T 22261	45780	79900	5532	RF	NOV.91		DIAM 5	3634	WS	RC	SHAL	Cv		
	Remark:V.weathered strong ferruginous(limonitic) gossanous shale.													
T 22262	45600	79900	5532	RF	NOV.91		DIAM 5	3634	WS	RC	ANDS	Cv		
	Remark:Weakly altered Hb-andes(fine Hb pheno's),pink albite alt in groundmass.													
T 22263	45590	79900	5532	RF	NOV.91		DIAM 5	3634	WS	RC	XVLC	Cv	KAMS	
	Remark:Xtal-rich (feldspar-phyric) felsic.													
T 22264	45400	80165	5532	RF	NOV.91		MINE 5	3834	WS	RC	VLCC	Cv	KAMS	
	Remark:V.weathered fsp-phyric felsic.													
T 22265	45400	81065	5532	RF	NOV.91		MINE 5	3834	WS	RC	VLCC	Cv	KAMS	
	Remark:V.weathered felsic.													
T 22266	45400	81135	5532	RF	NOV.91		MINE 5	3834	WS	RC	EPIC	Cv	KAMS	
	Remark:Weathered xtal-rich (feldspar-phyric) felsic. Shale fragments.													
T 22267	45400	81150	5532	RF	NOV.91		MINE 5	3834	WS	RC	VLCC	Cv		
	Remark:Grey, strongly foliated very fine-grained felsic.													
T 22268	45210	81600	5532	RF	NOV.91		MINE 5	3834	WS	RC	FELS	Cv	KA	
	Remark:Totally weathered felsic volcanic.													
T 22269	45200	81300	5532	RF	NOV.91		MINE 5	3834	WS	RC	VLCC	Cv	MS	
	Remark:Weathered green felsic rock,coarse feldspar pheno's. c.f.T22275,77,81													
T 22270	45200	81177	5532	RF	NOV.91		MINE 5	3834	WS	RC	VLCC	Cv	KAMSSI	
	Remark:Vy weathered fsp-phyric felsic. Possibly a lava similar to T22269.													
T 22271	45200	81077	5532	RF	NOV.91		MINE 5	3834	WS	RC	EPIC	Cv	KA	
	Remark:Felsic, xtal-rich (feldspar-phyric) rock with lithic fragments.													

Laboratory:  
Method :  
Det. Limit:

069134

PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME.

SAMPLE NUMBER	NORTH metres	EAST metres	CODE	SAMPLR DATE	QCONT	MAP	REF	GRID	KIND	ROCK	UNIT	ALTER	OREMIN
T 22272	45200	80930	5532	RF	NOV.91	MINE 5	3834	WS	RC	FELS	Cv		
	Remark:V. weathered felsic schist( less weathered pieces pale green, wk fsp-phy.												
T 22273	45200	80775	5532	RF	NOV.91	MINE 5	3834	WS	RC	XVLC	Cv	MS	
	Remark:Sandy fg greenish gray fspar-phyric felsic.												
T 22274	45200	80275	5532	RF	NOV.91	MINE 5	3834	WS	RC	LAVA	Cv	CL	
	Remark:Massive cream feldspar-quartz phyric felsic. Possibly Cy?												
T 22275	45200	80123	5532	RF	NOV.91	MINE 5	3834	WS	RC	VLCC	Cv		
	Remark:Mg xCal-rich fspar-qtz phyric felsic. Possibly Cy?. c.f T22269,77,81												
T 22276	45200	80103	5532	RF	NOV.91	MINE 5	3834	WS	RC	ANDS	Cv	CLMSWT	
	Remark:Hb-andesite, feldspar grains mostly weathered out or replaced by Qtz.												
T 22277	45210	79975	5532	RF	NOV.91	DIAM 5	3634	WS	RC	VLCC	Cv	CLMS	
	Remark:Altd fspar-phyric mod xtal-rich felsic. Similar to T22275.												
T 22278	44600	79920	5532	RF	NOV.91	DIAM 5	3634	WS	RC	ODLR		CL	
	Remark:Definite dolerite(plag-px-?hb) abund fspar laths with interstitial px.												
T 22279	44600	79975	5532	RF	NOV.91	DIAM 5	3634	WS	RC	XVLC	Cv		
	Remark:Feldspar-phyric felsic.												
T 22280	44400	80325	5532	RF	NOV.91	MINE 5	3834	WS	RC	XVLC	Cv	MSSI	
	Remark:Altered very fg feldspar-phyric felsic.												
T 22281	44400	81475	5532	RF	NOV.91	MINE 5	3834	WS	RC	VLCC	Cv	SIMSCL	
	Remark:Altered feldspar-phyric felsic. c.f. T22275 & 77.												
T 22282							STD						
	Remark:Quartz vein standard.												
T 22301	46200	81465	5532	SH	DEC.91	MARG 5	3834	WS	RC	SAND	Ct	MSPY	
	Remark:Volcanic sst. underlying Utt.												
T 22302	46200	81430	5532	SH	DEC.91	MARG 5	3834	WS	RC	BASL	Ct	SIMSPLY	
	Remark:Strongly alt & cleaved spherulitic basalt. like that on "Zig Zag Hill"												
T 22303	46200	18385	5532	SH	DEC.91	MARG 5	3834	WS	RC	ANDS	Cv	SIMSPLY	
	Remark:Moderately altered andesite.												
T 22304	46400	81375	5532	SH	DEC.91	MARG 5	3834	WS	RC	ANDS	Cv	MSPY	
	Remark:Weakly altered Hb-andesite. c.f. T22146.												
T 22305	46400	81875	5532	SH	DEC.91	MARG 5	3834	WS	RC	ANDS	Ct	SIMSPLY	
	Remark:Strongly altered andesite.												
T 22306	46350	81800	5532	SH	DEC.91	MARG 5	3834	WS	RC	ANDS	Ct	SIMSLI	
	Remark:Gossanous andesite.												

Laboratory:  
Method :  
Det. Limit:

069135

RGC EXPLORATION PTY.LTD.

DATA SHEET

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PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME.

SAMPLE NUMBER	NORTH metres	EAST metres	CODE	SAMPLR	DATE	QCONT	MAP	REF	GRID	KIND	ROCK	UNIT	ALTER	OREMIN
T 22307	46600	81635	5532	SH	DEC.91		MARG 5	3834	WS	RC	ANOS	Ct	SIMSPY	
Remark:c.f. T22132.														
T 22308														
Remark:STANDARD														

Laboratory:  
Method:  
Det. Limit:

069136

NAME:ALTER

AB	ALBITISED	BL	BLEACHED	CL	CHLORITIC
EP	EPIOTITISED	KA	KAOLINISED	LI	LIMONITIC
MS	SERICITIC	PY	PYRITIC	SI	SILICIFIED
WT	WEATHERED				

NAME:CODE

5532 QUEENSTOWN (E.L. 102/87)

NAME:GRID

AMG	AUST. MAP GRID	CST	COMSTOCK GRID	WS	WEST SEDGWICK GRID
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NAME:KIND

RC	ROCK CHIP SAMPLE	RF	ROCK FLOAT SAMPLE
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NAME:MAP

DIAM 5	DIAMOND SHEET	SCALE: 1:5000	MARG 5	MARGRET SHEET	SCALE: 1:5000	MINE 5	MINE SHEET	SCALE 1:5000
YOLN 5	YOLANDE SHEET	SCALE: 1:5000						

NAME:OREMIN

PY PYRITE

NAME:QCONT

STD STANDARD

NAME:REF

3634	1:25000 SCALE SHEET #	3834	1:25000 SCALE SHEET #
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NAME:ROCK

ALTO	ALTERED	ANDS	ANDESITE	BASL	BASALT
DOLR	DOLERITE	EPIC	EPICLASTIC	FELS	FELSIC
LAVA	LAVA	SAND	SANDSTONE	SHAL	SHALE
SILT	SILTSTONE	VLCC	VOLCANICLASTIC	XVLC	CRYSTAL-RICH VOLCANICLASTIC
XVOL	CRYSTAL-RICH VOLCANIC				

069137

JC JOHN CROSSING  
SH SCOTT HALLEY

MF MARK FLEMING

RF RICHARD FARE

NAME:UNIT

Cc CAMBRIAN TYNDALL GROUP

Cv CAMBRIAN CENTRAL VOLCANICS

Cy CAMBRIAN YOLANDE SEQUENCE

PROJECT: WEST SEOGWICK AREA - ROCK CHIP SAMPLING PROGRAMME.

SAMPLE NUMBER	NORTH metres	EAST metres	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MG %	P %	TI PPM	V PPM	Y PPM	ZR PPM	NB PPM
T 22129	46750	81600	80	179	59	1.0	41	1.68	0.097	4400	360	20	210	6
T 22130	46750	81600	77	73	72	-0.5	53	3.20	0.154	4150	360	25	220	6
T 22131	46635	81600	58	5	65	-0.5	63	3.11	0.150	3650	300	20	190	8
T 22132	46680	81600	31	26	23	-0.5	46	2.13	0.135	3000	240	20	190	7
T 22133	46435	81600	35	8	37	-0.5	35	1.78	0.103	3100	200	20	160	8
T 22134	46000	81800	-5	15	25	-0.5	24	1.97	0.069	4600	200	15	140	3
T 22135	46305	81700	19	35	49	-0.5	57	3.17	0.378	7000	470	40	310	10
T 22136	46360	81730	77	22	93	-0.5	94	4.11	0.382	6200	550	25	300	10
T 22137	45815	82575	-5	-5	125	-0.5	31	2.08	0.123	2850	250	20	160	5
T 22138			-5	-5	-5	-0.5	6	0.02	0.004	55	5	-5	7	-3
T 22139	47000	79945												
T 22140	46000	80000												
T 22141	46400	80100	7	7	8	-0.5	8	0.16	0.008	2150	13	39	350	11
T 22142	46400	80200	7	13	10	-0.5	14	0.29	0.059	2700	75	25	200	9
T 22143	46400	80360	34	61	74	-0.5	30	1.39	0.100	3550	180	27	170	8
T 22144	46400	80470	223	65	9	-0.5	22	0.11	0.129	3600	340	15	250	8
T 22145	46400	80900	26	9	195	-0.5	32	0.95	0.054	3250	240	18	140	-3
T 22146	46400	81375												
T 22147	46400	81515	37	5	52	-0.5	31	1.47	0.077	3200	200	17	140	-3
T 22148	46400	81650	50	-5	26	-0.5	24	1.39	0.096	3200	190	17	140	-3
T 22149	46400	81730												
T 22150	46600	81175												
T 22151	46600	80200	13	14	55	-0.5	23	0.83	0.037	3300	95	33	240	10
T 22152	46600	79900	23	15	105	-0.5	25	0.80	0.058	2850	80	29	240	9
T 22153	48400	80125												
T 22154	48400	80170												
T 22155	48400	80225	5	-5	11	-0.5	11	0.23	0.027	2500	45	32	270	8
T 22156	48400	80265	5	-5	12	-0.5	9	0.28	0.012	1900	16	35	290	10
T 22157	48400	80310												
T 22158	48400	80350												
T 22159	48400	80550												
T 22160	48400	80750												
T 22161	48400	81110	54	6	13	-0.5	14	0.32	0.047	2800	90	27	220	9
T 22162	48600	80675	10	5	17	-0.5	16	0.33	0.048	3100	90	30	230	6
T 22163	48600	80500	16	20	72	-0.5	23	0.48	0.038	3150	70	28	350	7

Laboratory:	ANALAB													
Method:	GA140	GA140	GA140	GA140	GA140	GA140	GX401							

069140

PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME.

SAMPLE NUMBER	NORTH metres	EAST metres	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MG %	P %	TI PPM	V PPM	Y PPM	ZR PPM	NB PPM
T 22164	48800	80100												
T 22165	48800	80425												
T 22166	48800	80620	8	11	-5	-0.5	10	0.08	0.015	2000	18	28	300	8
T 22167	48800	80675	-5	-5	41	-0.5	8	0.31	0.020	1750	13	31	280	11
T 22168	48800	80715												
T 22169	48980	79850												
T 22170	48725	79750												
T 22171	48600	80165	-5	-5	26	-0.5	23	0.47	0.067	2300	130	16	160	-3
T 22172	48600	80400	14	6	66	-0.5	18	-0.35	0.065	3050	90	31	220	9
T 22173	48600	80450	12	5	39	-0.5	24	0.58	0.044	3500	150	26	240	10
T 22174	48050	79750	-5	-5	7	-0.5	9	0.30	0.023	3000	50	28	240	11
T 22175	47945	79750	6	6	46	0.6	12	0.67	0.063	2650	60	28	240	7
T 22176	47830	79750												
T 22177	47800	79920	6	8	32	-0.5	9	0.26	0.037	3050	70	30	250	9
T 22178	47800	80060	61	37	108	-0.5	18	0.47	0.071	3200	220	26	180	3
T 22179	47800	80225												
T 22180	47800	80315	62	14	111	-0.5	45	2.07	0.070	2750	200	21	140	-3
T 22181	47800	80410												
T 22182	47800	80460												
T 22183	47800	80525	48	-3	90	-1.0	32	2.07	0.066	3000	200		180	
T 22184	47800	80660	14	12	46	-1.0	10	0.46	0.038	2550	35		280	
T 22185	47800	80680	18	16	61	-0.5	15	0.49	0.071	3300	65	30	170	-3
T 22186	47800	80720	10	-3	34	-1.0	11	0.59	0.024	2300	17		390	
T 22187	47800	80905	4	-3	76	-1.0	9	1.17	0.011	1650	13		320	
T 22188	47800	81200	65	5	35	-0.5	15	0.24	0.064	2900	85	32	230	9
T 22189	47800	81240	12	5	49	-0.5	23	0.83	0.047	3250	150	22	200	3
T 22190	47675	81000	7	-3	67	-1.0	13	0.66	0.022	3400	100		300	
T 22191	47600	81160	13	6	15	-0.5	13	0.29	0.041	2950	85	28	240	11
T 22192	47600	80840	6	-3	56	-1.0	7	0.77	0.018	1800	15		340	
T 22193	47600	80375	47	7	43	-0.5	35	2.44	0.107	2800	150	17	140	-3
T 22194	47730	79900												
T 22195	47675	79900												
T 22196	47560	79900												
T 22197	47540	79900												
T 22198	47215	79900												

Laboratory: ANALAB  
 Method: GA140 GA140 GA140 GA140 GA140 GA140 GA140 GX401 GX401 GX401 GX401 GX401 GX401  
 Limit: 5 000 5 000 5 000 0 500 5 000 0 010 0 003 1 000 5 000 5 000 5 000 3 000

069141

PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME.

SAMPLE NUMBER	NORTH metres	EAST metres	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MG %	P %	TI PPM	V PPM	Y PPM	ZR PPM	NB PPM
T 22199	46520	79900	55	16	95	-0.5	37	1.73	0.068	3950	200	32	240	8
T 22200	46275	79900	8	21	20	-0.5	11	0.26	0.035	2950	75	21	220	8
T 22222	45600	81535	50	7	123	-0.5	64	1.77	0.050	3150	240	20	150	4
T 22223	45600	81470	73	20	49	-0.5	55	2.18	0.059	3800	180	25	170	-3
T 22224	45600	81140	9	5	37	-0.5	18	0.47	0.038	3200	100	30	260	10
T 22225	45600	80990	-5	19	35	-0.5	8	0.23	0.014	2300	15	30	370	10
T 22226	45720	80150	-5	-5	-5	-0.5	-5	0.12	0.005	2200	15	35	380	15
T 22227	45800	81175	60	13	59	-0.5	50	2.40	0.056	3500	210	25	170	5
T 22228	46000	81665	-5	17	-5	-0.5	-5	0.15	0.004	660	-5	30	120	20
T 22229	46010	81000	40	-5	131	-0.5	53	1.90	0.049	3200	230	25	180	6
T 22230	46200	80500	15	-5	55	-0.5	17	1.24	0.032	3300	90	25	250	8
T 22231	46200	81150	63	10	35	-0.5	41	1.79	0.102	3500	210	25	190	9
T 22232	46200	81425	33	23	5	-0.5	27	0.95	0.268	5450	370	25	240	10
T 22235	48740	80750	-5	10	39	-0.5	6	0.01	0.057	2800	80		270	
T 22236	48490	80750	-5	-5	68	-0.5	14	0.05	0.042	3000	95		270	
T 22237	48395	80750	10	-5	51	-0.5	10	0.03	0.059	2950	85		270	
T 22238	47895	80750	-5	12	24	-0.5	-5	0.02	0.016	1950	8		350	
T 22239	47557	81000	7	31	80	-0.5	10	0.02	0.072	3050	75		270	
T 22240	46985	81000	27	11	70	-0.5	28	0.18	0.073	2900	140		180	
T 22241	46080	81000	67	8	97	-0.5	22	0.13	0.054	2900	180		200	
T 22242	45000	80060	-5	10	50	-0.5	5	0.07	0.053	3700	55		220	
T 22243	45000	80120	6	5	34	-0.5	-5	0.03	0.013	1500	-5		310	
T 22244	45000	80250	-5	-5	7	-0.5	-5	0.01	0.006	1750	-5		320	
T 22245	45000	80943	11	-5	47	-0.5	10	0.06	0.007	2350	80		290	
T 22246	45000	81485	19	167	399	-0.5	14	0.21	0.041	3900	160		300	
T 22247	45000	81580	5	58	49	-0.5	-5	0.03	0.013	1750	-5		340	
T 22248	44800	80285	5	42	30	-0.5	18	0.10	0.033	4500	85		410	
T 22249	44800	79915	-5	8	46	-0.5	42	0.15	0.057	4150	95		340	
T 22250	44220	80000	-5	6	5	-0.5	-5	-0.01	0.005	1350	13		240	
T 22251	44200	80070	-5	12	8	-0.5	-5	-0.01	0.006	1150	8		200	
T 22252	44200	80180	-5	5	-5	-0.5	-5	-0.01	0.007	2700	75		270	
T 22253	44200	80425	14	28	135	-0.5	-5	0.09	0.038	4600	65		250	
T 22254	44200	81195	-5	13	34	-0.5	-5	0.04	0.005	2200	15		400	
T 22255	44210	81330	8	8	65	-0.5	-5	0.03	0.030	3150	130		280	
T 22256	44200	81535	-5	-5	76	-0.5	-5	0.04	0.027	2500	11		330	

Laboratory:	ANALAB											
Method :	GA140											
Det Limit	5 000	5 000	5 000	0 500	5 000	0 010	0 003	1 000	5 000	5 000	5 000	3 000

069142

## PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME.

SAMPLE NUMBER	NORTH metres	EAST metres	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MG %	P %	TI PPM	V PPM	Y PPM	ZR PPM	NB PPM
T 22257	44000	81480	-5	24	160	-0.5	8	0.05	0.028	3250	130		260	
T 22258	44000	80475	-5	-5	6	-0.5	-5	0.01	0.004	1250	-5		200	
T 22259	44000	79950	-5	-5	-5	-0.5	-5	-0.01	0.004	1100	5		120	
T 22260	45800	80045	10	10	20	-0.5	11	1.02	0.037	2350	35	34	250	10
T 22261	45780	79900	174	120	51	4.6	38	0.03	0.012	680	35	-5	20	-3
T 22262	45600	79900	15	-5	438	-0.5	33	2.29	0.071	2800	210	15	120	-3
T 22263	45690	79900	25	-5	137	-0.5	41	3.02	0.096	3750	290	13	140	-3
T 22264	45400	80165	7	6	-5	-0.5	8	0.46	0.009	2400	20	38	380	11
T 22265	45400	81055												
T 22266	45400	81135	17	29	30	-0.5	18	0.63	0.026	3850	100	23	260	-3
T 22267	45400	81150	29	10	122	-0.5	58	2.46	0.239	6150	450	42	220	12
T 22268	45210	81600	21	14	-5	-0.5	11	0.26	0.009	1800	20	26	340	10
T 22269	45200	81300	7	5	-5	-0.5	6	0.24	0.011	2150	20	29	330	6
T 22270	45200	81177	19	8	-5	-0.5	5	0.11	0.033	3150	160	24	230	6
T 22271	45200	81077	9	-5	-5	-0.5	8	0.34	0.035	3350	70	33	230	11
T 22272	45200	80930	12	-5	-5	-0.5	9	0.38	0.009	2050	35	32	300	11
T 22273	45200	80775	17	-5	159	-0.5	55	1.62	0.170	5500	350	29	190	-3
T 22274	45200	80275	8	10	-5	-0.5	7	0.37	0.009	1450	7	42	280	11
T 22275	45200	80123	7	-5	25	-0.5	9	0.45	0.017	1800	15	29	280	8
T 22276	45200	80103	36	9	64	-0.5	54	2.27	0.146	4250	250	25	170	7
T 22277	45210	79975	6	6	20	-0.5	9	0.45	0.013	2050	19	20	330	12
T 22278	44600	79920	59	73	145	-0.5	51	2.64	0.191	5600	320	20	200	-3
T 22279	44600	79975	15	17	78	-0.5	47	1.79	0.048	4400	110	20	290	14
T 22280	44400	80325	13	61	41	-0.5	23	0.84	0.027	2600	55	20	210	13
T 22281	44400	81475	17	11	102	-0.5	8	1.69	0.007	1400	16	34	230	9
T 22282			-5	-5	-5	-0.5	-5	0.01	-0.003	65	-5	-5	-5	-3
T 22301	46200	81465	34	44	37	-0.5	5	0.05	0.068	3950	310		160	
T 22302	46200	81430	41	19	66	-0.5	25	0.16	0.318	5350	340		260	
T 22303	46200	18385	15	7	40	-0.5	13	0.17	0.108	3200	250		180	
T 22304	46400	81375	6	15	42	-0.5	18	0.17	0.087	2650	200		160	
T 22305	46400	81875	23	50	-5	1.6	5	0.01	0.041	2250	130		120	
T 22306	46350	81800	51	211	137	-0.5	18	-0.01	0.056	1150	90		60	
T 22307	46600	81635	14	12	35	-0.5	13	0.08	0.079	3400	300		190	
T 22308			-5	-5	7	-0.5	-5	-0.01	-0.003	-50	-5		-5	

Laboratory:

ANALAB ANALAB

Method:

GA140 GA140 GA140 GA140 GA140 GA140 GA140 GX401 GX401 GX401 GX401 GX401 GX401

4 000 5 000 5 000 0 500 5 000 0 010 0 003 1 000 5 000 5 000 5 000 3 000

069143

PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HF PPM	IR PPB	FE %	LA PPM	LU PPM
T 22129	8.0	67	725	5	175	3	141	11	2.6	-5	5	-20	8.44	136.0	0.3
T 22130	5.7	79	342	13	158	-1	140	3	2.7	-5	4	-20	5.38	122.0	0.3
T 22131	0.6	13	548	3	125	1	127	24	2.5	-5	4	-20	4.09	96.7	0.3
T 22132	1.3	8	777	-2	143	3	129	16	3.1	-5	4	-20	4.64	107.0	0.3
T 22133	1.4	12	1520	-2	112	3	48	21	1.7	-5	3	-20	4.73	82.7	0.3
T 22134	0.9	3	979	-2	30	3	36	13	1.2	-5	2	-20	5.68	24.1	-0.2
T 22135	1.0	10	2730	3	368	10	502	11	8.0	-5	6	-20	5.16	266.0	0.5
T 22136	0.5	12	2000	-2	324	3	444	36	6.8	-5	6	-20	7.28	243.0	0.4
T 22137	2.9	3	1150	-2	140	4	50	23	2.0	-5	3	-20	4.78	107.0	0.3
T 22138	0.3	-2	-100	-2	-2	-1	318	1	-0.5	-5	-1	-20	0.33	0.6	-0.2
T 22141	0.4	2	1090	2	117	2	-5	1	1.4	-5	9	-20	1.51	59.2	0.7
T 22142	1.3	4	1170	-2	106	3	15	3	1.3	-5	5	-20	3.27	49.5	0.5
T 22143	1.5	19	1350	5	138	3	127	3	2.2	-5	4	-20	4.07	74.7	0.4
T 22144	2.4	17	1630	18	175	5	138	5	2.7	-5	6	-20	6.38	98.0	0.3
T 22145	1.0	2	723	3	93	2	24	20	1.1	-5	3	-20	5.98	51.5	0.4
T 22147	0.8	4	870	6	123	1	35	23	1.6	-5	4	-20	5.09	70.6	0.3
T 22148	-0.2	2	443	2	108	1	32	9	1.9	-5	3	-20	2.89	62.3	0.3
T 22151	0.7	3	617	6	78	2	17	3	1.3	-5	6	-20	4.12	38.5	0.6
T 22152	0.9	6	1620	-2	142	5	14	10	2.5	-5	7	-20	3.46	159.0	0.6
T 22155	0.7	-2	606	-2	99	3	-5	4	1.9	-5	7	-20	2.98	49.3	0.6
T 22156	0.5	-2	929	-2	132	3	-5	2	1.4	-5	8	-20	1.92	58.4	0.7
T 22161	1.0	-2	385	-2	116	3	15	4	1.6	-5	6	-20	3.45	55.2	0.6
T 22162	0.7	-2	610	-2	109	1	14	8	1.7	-5	6	-20	3.54	55.5	0.6
T 22163	1.6	12	1100	-2	91	2	12	8	1.3	-5	8	-20	2.16	46.2	0.5
T 22166	1.6	18	887	-2	114	1	-5	-1	1.4	-5	8	-20	1.88	51.6	0.6
T 22167	1.2	-2	813	-2	117	2	-5	1	1.5	-5	7	-20	2.02	53.8	0.6
T 22171	0.7	-2	926	-2	159	3	29	7	1.3	-5	4	-20	3.09	94.4	0.3
T 22172	0.5	-2	1250	-2	97	3	16	11	1.5	-5	6	-20	4.09	50.3	0.5
T 22173	0.9	-2	931	2	164	3	85	10	2.0	-5	6	-20	4.01	82.9	0.5
T 22174	0.6	-2	862	2	113	3	9	4	1.5	-5	6	-20	2.76	54.2	0.5
T 22175	0.5	2	875	-2	94	2	-5	9	1.6	-5	7	-20	4.47	47.1	0.5
T 22177	0.7	3	843	-2	103	3	-5	3	1.6	-5	7	-20	3.09	51.5	0.6
T 22178	2.1	124	2250	-2	146	3	34	17	2.0	-5	4	-20	2.60	87.5	0.5
T 22180	0.9	4	1070	5	142	1	98	26	2.2	-5	3	-20	6.10	84.3	0.3
T 22183	1.1	4	673	3	126	1	68	10	1.6	-5	4	-20	4.33	71.0	0.3

Laboratory Method	BECQUE INAA30														
Rep. Limi	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

069144

PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HF PPM	IR PPB	FE %	LA PPM	LU PPM
T 22184	1.7	2	866	-2	103	3	-5	1	1.7	-5	6	-20	1.47	50.8	0.7
T 22185	0.6	5	560	-2	82	2	7	8	1.4	-5	4	-20	4.29	37.2	0.5
T 22186	0.4	3	770	2	102	2	-5	2	1.8	-5	8	-20	2.66	50.7	0.6
T 22187	0.7	1	1570	2	151	2	-5	4	2.1	-5	11	-20	3.37	76.6	0.8
T 22188	1.0	2	1150	-2	115	1	18	8	1.4	-5	6	-20	3.46	55.5	0.6
T 22189	0.9	2	933	-2	83	2	44	14	1.1	-5	5	-20	4.28	41.7	0.5
T 22190	0.9	6	1270	5	116	4	14	5	1.7	-5	7	-20	3.36	60.2	0.6
T 22191	0.9	-2	899	-2	88	2	16	6	1.2	-5	6	-20	3.34	50.8	0.6
T 22192	0.6	-1	1210	-2	123	2	-5	3	1.9	-5	8	-20	2.67	60.5	0.6
T 22193	1.0	4	758	2	154	-1	32	28	2.3	-5	4	-20	5.14	101.0	0.4
T 22199	0.7	11	1480	2	158	4	71	14	2.8	-5	6	-20	6.39	97.9	0.6
T 22200	1.0	7	712	3	101	1	12	3	1.0	-5	5	-20	2.88	48.9	0.5
T 22222	0.7	3	1310	-2	54	4	134	21	1.0	-5	3	-20	6.26	34.5	0.3
T 22223	2.2	4	920	2	111	1	105	26	2.0	-5	4	-20	4.98	69.6	0.4
T 22224	0.3	4	1400	3	101	5	26	1	1.6	-5	6	-20	2.92	57.0	0.6
T 22225	0.7	-2	1430	-2	79	5	23	1	1.5	-5	9	-20	1.71	44.8	0.7
T 22226	0.6	-2	813	2	62	3	9	-1	1.2	-5	10	-20	1.15	32.6	0.7
T 22227	0.6	4	1010	2	81	2	118	30	1.7	-5	4	-20	6.70	59.8	0.4
T 22228	2.2	5	755	-2	111	2	43	1	0.8	-5	4	-20	0.69	61.3	0.7
T 22229	0.3	3	728	3	84	3	173	10	1.3	-5	4	-20	5.42	41.2	0.4
T 22230	0.6	-2	675	-2	103	3	40	3	1.7	-5	6	-20	3.10	58.0	0.5
T 22231	1.0	8	1370	-2	104	1	160	28	2.1	-5	4	-20	5.78	72.0	0.4
T 22232	2.2	13	1250	-2	226	8	374	-1	4.6	-5	4	-20	4.26	158.0	0.4
T 22235	0.8	1	508	-2	134	2	11	5	2.0	-5	6	-20	2.51	61.7	0.6
T 22236	0.7	-1	880	2	155	1	14	22	2.1	-5	6	-20	4.60	71.2	0.7
T 22237	0.7	1	525	-2	119	1	15	10	1.4	-5	6	-20	3.73	57.2	0.7
T 22238	0.8	2	983	-2	118	3	5	1	1.6	-5	8	-20	2.42	55.7	0.7
T 22239	0.9	-5	1210	-2	116	3	12	8	1.7	-5	6	-20	4.10	56.5	0.6
T 22240	1.6	5	344	2	144	-1	54	14	1.9	-5	4	-20	4.51	82.3	0.4
T 22241	0.4	13	632	-2	111	2	107	20	1.2	-5	4	-20	3.94	51.2	0.4
T 22242	0.4	4	1450	6	68	1	5	-1	1.4	-5	4	-20	3.98	31.2	0.4
T 22243	0.6	2	913	-2	107	2	-5	3	1.6	-5	8	-20	2.56	50.6	0.7
T 22244	0.6	1	2180	-2	119	3	-5	-1	1.7	-5	8	-20	1.64	54.5	0.7
T 22245	0.4	1	453	6	94	2	9	9	1.3	-5	7	-20	2.51	41.6	0.5
T 22246	0.6	3	2340	3	101	1	-5	17	1.6	-5	6	-20	5.19	43.8	0.6

Laboratory	BECQUE														
Method	INAA30														
Det. Limi	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

069145

## PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HF PPM	IR PPB	FE %	LA PPM	LU PPM
T 22247	1.0	3	1240	-2	76	3	-5	2	1.1	-5	8	-20	1.98	35.6	0.7
T 22248	0.6	-1	1260	-2	155	3	77	3	1.6	-5	10	-20	2.30	69.9	0.6
T 22249	0.6	2	1000	2	131	3	92	5	1.5	-5	9	-20	3.03	56.8	0.6
T 22250	1.0	2	584	2	162	3	-5	-1	1.5	-5	7	-20	0.99	72.8	0.5
T 22251	0.6	2	651	-2	138	5	-5	1	1.5	-5	5	-20	1.15	61.1	0.5
T 22252	0.5	-1	1260	-2	132	7	42	2	1.2	-5	8	-20	1.05	59.0	0.5
T 22253	0.7	2	2010	4	66	-1	-5	4	1.2	-5	5	-20	3.20	29.7	0.5
T 22254	0.6	2	605	2	115	3	5	-1	1.6	-5	9	-20	2.31	53.5	0.8
T 22255	0.6	1	572	6	185	2	7	8	2.4	-5	6	-20	2.91	95.4	0.6
T 22256	0.7	1	725	-2	120	2	-5	5	1.7	-5	7	-20	2.57	54.7	0.8
T 22257	0.7	4	928	6	87	1	11	12	0.9	-5	5	-20	4.06	47.3	0.4
T 22258	0.6	-1	329	-2	111	3	-5	-1	1.1	-5	5	-20	1.21	49.8	0.5
T 22259	0.2	-1	460	-2	129	3	-5	1	1.3	-5	3	-20	0.86	57.8	0.4
T 22260	0.6	3	1350	-2	115	3	-5	2	1.3	-5	6	-20	2.85	53.1	0.7
T 22261	29.9	426	-100	5	-2	-1	20	22	-0.5	121	-1	-20	31.00	4.7	-0.2
T 22262	0.4	-2	440	12	89	2	30	25	1.0	-5	3	-20	5.59	54.0	0.3
T 22263	-0.2	4	564	16	75	-1	28	25	1.3	-5	3	-20	6.61	40.1	0.3
T 22264	0.6	-2	1120	3	127	3	-5	1	2.0	-5	10	-20	2.53	62.8	0.8
T 22266	0.7	15	954	3	93	2	22	-1	1.5	-5	6	-20	3.82	45.8	0.4
T 22267	-0.2	6	-100	14	253	-1	338	26	6.0	17	5	-20	10.90	152.0	0.7
T 22268	0.8	-2	1220	6	108	4	-5	3	0.5	-5	9	-20	2.81	11.8	0.7
T 22269	0.8	-2	907	4	64	2	-5	-1	1.1	-5	9	-20	1.62	31.1	0.6
T 22270	1.1	3	680	3	85	3	14	-1	1.3	-5	6	-20	0.51	55.2	0.5
T 22271	0.4	4	1330	-2	106	3	5	2	2.1	-5	6	-20	2.48	52.9	0.7
T 22272	0.6	-2	867	-2	105	3	9	2	1.7	-5	8	-20	1.81	51.8	0.6
T 22273	1.5	2	521	7	200	-1	189	35	3.0	-5	5	-20	6.35	114.0	0.4
T 22274	0.6	-2	404	-2	157	3	-5	1	1.9	-5	8	-20	1.93	69.0	0.8
T 22275	0.5	-2	1090	-2	114	2	-5	3	1.7	-5	7	-20	2.46	49.9	0.5
T 22276	0.7	2	796	3	210	2	283	25	2.9	-5	4	-20	5.42	112.0	0.4
T 22277	0.6	-2	1020	3	104	2	-5	3	1.3	-5	9	-20	2.38	37.4	0.5
T 22278	1.2	3	1140	9	206	1	164	44	3.4	-5	5	-20	7.80	120.0	0.3
T 22279	0.4	2	1760	3	102	2	97	8	1.1	-5	9	-20	3.33	43.8	0.5
T 22280	0.7	4	2970	-2	140	-1	42	3	1.0	-5	6	-20	2.10	67.3	0.5
T 22281	0.6	2	532	2	111	2	-5	2	1.6	-5	6	-20	2.77	55.2	0.6
T 22282	0.2	-2	-100	-2	-2	-1	6	-1	-0.5	-5	-1	-20	0.37	-0.5	-0.2

Laboratory	BECQUE														
Method	INAA30														
Det. Limit	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

069146

## PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HF PPM	IR PPB	FE %	LA PPM	LU PPM
T 22301	2.8	22	3730	2	86	5	64	5	1.2	-5	3	-20	6.03	49.1	0.3
T 22302	1.7	12	1070	-2	223	5	349	3	3.7	-5	4	-20	6.72	114.0	0.3
T 22303	0.8	10	1170	6	130	4	42	4	1.8	-5	3	-20	3.05	70.2	0.3
T 22304	0.7	8	1100	-2	130	-1	134	11	1.7	-5	3	-20	3.56	64.8	0.3
T 22305	6.1	46	131	-2	118	1	67	3	1.2	-5	2	-20	2.58	67.4	-0.2
T 22306	68.7	3890	219	-10	25	-1	11	-1	0.6	-5	-0	-20	21.10	15.6	-0.2
T 22307	1.4	12	788	-2	137	4	216	2	1.8	-5	4	-20	2.74	72.3	0.2
T 22308	0.4	1	-100	-2	-2	-1	8	-1	-0.6	-5	-0	-20	0.48	-0.5	-0.2

Laboratory	BECQUE														
Method	INAA30														
Det. Lim	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

069147

## PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 22129	-5	2.0	49	11.3	47	-5	-5	3.14	1	29.5	-500	-2	-2	2.3	263
T 22130	-5	0.6	-20	11.6	44	-5	-5	4.56	2	29.2	-500	-2	4	2.1	291
T 22131	-5	1.1	-20	10.2	39	-5	-5	5.13	4	27.9	-500	-2	6	2.3	312
T 22132	-5	1.0	41	10.2	36	-5	-5	4.75	5	24.6	-500	-2	-2	2.0	243
T 22133	-5	2.5	70	8.1	29	-5	-5	3.80	2	25.4	-500	-2	-2	2.1	220
T 22134	-5	2.2	70	3.5	31	-5	-5	5.16	1	4.0	-500	-2	-2	1.7	210
T 22135	-5	4.0	189	30.0	79	-5	-5	0.12	1	46.4	-500	-2	-2	3.3	232
T 22136	-5	2.3	43	24.3	54	-5	-5	2.83	1	45.0	-500	-2	-2	2.3	260
T 22137	-5	2.3	93	8.6	24	-5	-5	3.65	-1	27.3	-500	-2	2	2.3	247
T 22138	-5	-0.2	-20	-0.2	0	-5	-5	0.01	-1	-0.5	-500	2	-2	-0.5	-100
T 22141	-5	2.2	89	9.3	10	-5	-5	1.35	3	22.7	-500	-2	4	4.7	-100
T 22142	-5	2.6	119	7.4	12	-5	-5	0.10	1	18.8	-500	-2	4	3.3	-100
T 22143	-5	1.9	108	9.7	19	-5	-5	0.76	-1	19.2	-500	-2	3	2.8	134
T 22144	-18	3.0	135	10.2	41	-5	-5	0.04	-1	45.5	-500	-2	10	2.1	112
T 22145	-5	1.6	78	6.2	27	-5	-5	2.11	1	20.4	-500	-2	-2	2.1	325
T 22147	-5	1.5	54	7.5	28	-5	-5	3.29	1	25.4	-500	-2	2	2.0	181
T 22148	-5	1.5	25	7.4	26	-5	-5	5.13	-1	23.4	-500	-2	2	1.9	147
T 22151	-5	1.7	90	5.9	16	-5	-5	1.65	2	20.3	-500	-2	2	3.7	128
T 22152	-5	3.2	155	12.4	14	-5	-5	0.10	-1	20.9	-500	-2	2	4.1	153
T 22155	-5	2.4	112	8.7	15	-5	-5	1.88	2	15.8	-500	-2	-2	4.0	-100
T 22156	-5	2.2	98	9.8	9	-5	-5	1.18	-1	22.6	-500	-2	3	4.4	-100
T 22161	-5	3.0	124	8.1	13	-5	-5	1.21	1	20.2	-500	-2	2	3.5	-100
T 22162	-5	2.8	109	7.9	14	-5	-5	1.35	2	20.7	-500	2	2	3.6	119
T 22163	-5	2.7	105	7.5	14	-5	-5	1.85	-1	14.6	-500	-2	-2	3.3	166
T 22166	-5	2.7	116	8.3	7	-5	-5	0.56	1	18.1	-500	-2	3	3.6	-100
T 22167	-5	2.7	112	8.6	8	-5	-5	0.35	1	20.4	-500	-2	3	4.1	104
T 22171	-5	3.2	144	7.5	16	-5	-5	1.20	1	33.6	-500	-2	2	1.8	103
T 22172	-5	2.0	100	7.4	15	-5	-5	1.75	-1	18.0	-500	-2	-2	3.3	131
T 22173	-5	3.2	145	10.7	21	-5	-5	0.36	1	28.2	-500	-2	2	3.2	129
T 22174	-5	2.3	91	8.3	13	-5	-5	1.44	2	18.5	-500	-2	3	3.6	104
T 22175	-5	3.0	121	7.5	14	-5	-5	1.43	1	19.3	-500	-2	3	3.3	117
T 22177	-5	2.5	95	7.7	14	-5	-5	1.62	1	18.4	-500	-2	2	3.7	142
T 22178	-5	3.1	121	9.0	32	-5	-5	1.97	1	27.8	-500	-2	3	2.7	184
T 22180	-5	1.3	69	10.2	30	-5	-5	1.03	-1	22.7	-500	-2	2	2.3	193
T 22183	-5	1.1	63	7.5	23	-5	-5	2.09	-1	21.8	-500	-2	3	2.0	162

Laboratory	BECQUE														
Method	INAA30														
D-F. Limi	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500			2.000	2.000	0.500

069148

PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 22184	-5	2.6	124	8.2	12	-5	-5	0.32	1	18.3	-500	-2	2	4.0	101
T 22185	-5	1.8	63	7.1	16	-5	-5	2.39	1	13.7	-500	-2	-2	3.5	143
T 22186	-5	2.1	85	7.8	9	-5	-5	1.18	-1	19.1	-500	-2	2	3.9	-100
T 22187	-5	3.1	112	11.0	11	-5	-5	0.68	2	26.3	-500	-2	3	4.8	129
T 22188	-5	2.7	96	8.9	14	-5	-5	2.23	-1	20.6	-500	-2	4	3.8	118
T 22189	-5	2.4	93	6.0	20	-5	-6	2.04	1	20.4	-500	-2	2	3.0	129
T 22190	-5	2.5	72	8.1	16	-5	-5	1.21	1	21.8	-500	-2	3	3.9	100
T 22191	-5	2.7	81	7.3	14	-5	-5	1.35	1	21.1	-500	-2	3	3.7	-100
T 22192	-5	2.2	108	9.5	8	-5	-5	0.90	1	19.4	-500	-2	3	3.7	-100
T 22193	-5	0.9	37	10.8	22	-5	-5	2.38	1	31.4	-500	-2	5	2.4	125
T 22199	-5	3.6	195	14.0	32	-5	-5	0.22	1	28.3	-500	-2	4	3.9	182
T 22200	-5	2.1	76	6.9	12	-5	-5	0.77	-1	19.1	-500	-2	4	3.2	-100
T 22222	-5	1.5	81	4.8	28	-5	-5	1.82	-1	13.5	-500	-2	-2	2.1	198
T 22223	-5	1.3	50	8.3	30	-5	-6	1.98	1	15.3	-500	-2	-2	2.7	172
T 22224	-5	2.4	111	8.5	16	-5	-5	1.37	1	20.2	-500	-2	2	4.0	111
T 22225	-5	2.3	124	7.0	9	-5	-5	1.87	2	19.7	-500	-2	3	4.4	-100
T 22226	-5	2.9	157	5.6	11	-5	-5	0.37	1	18.9	-500	-2	4	4.9	-100
T 22227	-5	1.0	42	7.4	34	-5	-5	3.46	1	16.6	-500	-2	-2	2.8	198
T 22228	-14	4.2	150	7.4	3	-5	-5	1.72	2	37.0	-500	-2	7	5.0	-100
T 22229	-5	1.0	50	6.0	34	-5	-5	1.92	-1	17.4	-500	-2	2	2.6	225
T 22230	-5	2.3	91	8.1	15	-5	-5	1.64	1	19.9	-500	3	4	3.7	104
T 22231	-5	1.7	-20	8.5	35	-5	-5	3.97	3	19.0	-500	-2	-2	2.6	252
T 22232	-5	4.1	190	16.0	66	-5	-5	0.04	-1	34.2	-500	-2	2	1.9	159
T 22235	-5	3.3	131	10.0	13	-5	-5	0.87	1	20.2	-500	-2	4	4.0	107
T 22236	-5	2.4	91	11.7	14	-5	-5	1.23	-1	20.3	-500	-2	2	4.4	144
T 22237	-5	2.7	117	9.3	15	-5	-5	0.96	-1	20.7	-500	-2	4	3.9	110
T 22238	-5	2.1	112	9.0	9	-5	-5	1.83	1	22.8	-500	-2	3	4.1	-100
T 22239	-5	2.8	82	8.4	12	-5	-5	2.09	2	20.6	-500	-2	3	3.8	140
T 22240	-5	0.5	-20	8.5	21	-5	-5	2.76	-1	24.8	-500	-2	-2	2.0	159
T 22241	-5	1.2	49	7.3	27	-5	-5	3.09	3	16.7	-500	-2	-2	2.6	183
T 22242	-5	1.8	80	5.5	14	-5	-5	1.36	2	12.4	-500	-2	-2	2.8	-100
T 22243	-5	2.1	91	8.8	10	-5	-5	1.65	2	18.8	-500	-2	4	4.3	-100
T 22244	-5	3.0	131	9.6	10	-5	-5	0.15	1	18.1	-500	-2	2	4.7	-100
T 22245	-5	2.1	89	7.2	15	-5	-5	0.24	-1	16.1	-500	-2	-2	3.3	-100
T 22246	-5	1.7	30	8.4	22	-5	-5	3.16	1	13.7	-500	-2	-2	3.5	457

Laboratory Method	BECCOUE INAA30														
Detect. Limit	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500		2.000	2.000	0.500	

069149

PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
Γ 22247	-5	2.5	118	6.2	11	-5	-5	2.13	1	18.6	-500	-2	2	4.3	102
T 22248	-5	3.2	183	10.8	11	-5	-5	0.30	2	26.3	-500	-2	4	3.5	-100
Γ 22249	-5	2.9	194	9.4	12	-5	-5	0.59	1	24.1	-500	-2	3	3.4	-100
T 22250	-5	2.7	166	10.1	7	-5	-5	0.02	1	31.5	-500	-2	4	3.2	-100
T 22251	-5	2.9	173	9.6	6	-5	-5	0.92	1	24.0	-500	-2	3	3.3	-100
T 22252	-5	3.6	151	8.5	11	-5	-5	0.36	1	21.6	-500	-2	2	3.0	-100
T 22253	-5	2.5	84	5.6	17	-5	-5	2.42	1	14.1	-500	-2	2	3.3	211
T 22254	-5	2.2	133	9.4	14	-5	-5	1.35	1	18.0	-500	-2	-2	4.7	-100
T 22255	-5	2.5	77	12.3	18	-5	-5	1.01	1	25.0	-500	-2	-2	4.0	129
T 22256	-5	2.1	79	9.7	13	-5	-5	2.15	1	19.4	-500	-2	-2	4.9	131
T 22257	-5	2.1	71	5.8	15	-5	-5	2.75	1	22.8	-500	-2	3	2.4	231
T 22258	-5	3.5	189	7.3	6	-5	-5	0.03	1	19.6	-500	-2	3	2.8	-100
T 22259	-5	2.8	174	8.5	5	-5	-5	0.02	1	19.7	-500	-2	2	2.6	-100
T 22260	-5	2.7	135	8.9	9	-5	-5	1.29	1	18.1	-500	-2	3	4.0	-100
T 22261	40	-0.2	-20	0.6	6	-5	-5	-0.01	-1	3.1	-500	-2	-2	-0.5	-100
T 22262	-5	0.9	36	5.4	24	-5	-5	3.49	-1	20.8	-500	-2	3	2.1	511
Γ 22263	-5	0.7	-20	4.4	31	-5	-5	2.84	2	22.2	-500	-2	2	2.3	233
T 22264	-5	2.7	133	9.8	13	-5	-5	1.34	2	21.3	-500	-2	3	4.9	-100
T 22266	-5	1.9	101	6.0	20	-5	-5	2.81	1	14.0	-500	-2	-2	2.8	132
T 22267	-5	-0.2	-20	22.3	66	-5	-5	0.60	-1	36.8	-500	-2	-2	4.3	225
T 22268	-11	2.2	113	2.7	10	-5	-5	0.05	1	31.1	-500	-2	6	4.3	-100
T 22269	-5	1.3	63	4.9	9	-5	-5	3.03	2	19.6	-500	-2	3	4.0	-100
T 22270	-5	2.9	79	7.7	26	-5	-5	2.53	2	24.0	-500	-2	-2	3.4	110
T 22271	-5	3.1	149	9.4	18	-5	-5	1.42	1	16.9	-500	-2	2	4.2	-100
Γ 22272	-5	2.4	134	8.3	13	-5	-5	1.81	1	18.9	-500	-2	-2	3.6	-100
T 22273	-5	0.7	68	14.8	53	-5	-5	2.20	2	29.7	-500	-2	-2	2.5	258
Γ 22274	-5	3.1	133	12.3	10	-5	-5	0.50	1	21.5	-500	-2	2	4.9	-100
T 22275	-5	2.7	118	9.1	11	-5	-5	1.13	-1	18.0	-500	-2	-2	3.5	106
Γ 22276	-5	1.6	93	13.9	41	-5	-5	1.00	-1	24.2	-500	-2	4	2.1	164
T 22277	-5	2.2	115	6.1	9	-5	-5	1.00	2	27.0	-500	-2	5	3.2	-100
Γ 22278	-5	1.4	65	14.8	51	-5	-5	1.92	-1	30.8	-500	-2	-2	1.9	320
T 22279	-5	2.9	169	7.5	13	-5	-5	1.11	1	26.9	-500	-2	5	3.1	143
T 22280	-16	4.7	238	6.9	6	-5	-5	1.12	1	35.7	-500	-2	8	3.1	-100
T 22281	-5	1.9	64	9.2	9	-5	-5	0.37	-1	15.7	-500	-2	2	3.7	148
T 22282	-5	-0.2	-20	-0.2	0	-5	-5	0.01	-1	-0.5	-500	-2	-2	-0.5	-100

Laboratory Method	BECCOUE INAA30														
Det. Limi	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500		2.000	2.000	0.500	

069150

## PROJECT: WEST SEDGWICK AREA - ROCK CHIP SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 22301	-5	3.4	148	5.2	34	-5	-5	2.20	1	16.6	-500	-2	-2	1.9	139
T 22302	-5	2.5	114	14.7	54	-5	-5	0.04	-1	34.9	-500	-2	-2	1.7	153
T 22303	-5	1.3	59	8.3	29	-5	-5	2.76	1	25.7	-500	-2	4	2.0	102
T 22304	-5	1.7	62	8.3	40	-5	-5	3.11	1	24.1	-500	-2	4	2.1	129
T 22305	-5	0.5	-20	6.5	20	-5	-5	5.02	2	17.9	-500	-2	-2	1.3	102
T 22306	27	-0.2	-20	2.1	7	-5	-5	0.01	-1	10.4	-500	-2	-2	-0.5	168
T 22307	-16	1.9	91	8.2	39	-5	-5	3.76	-1	30.5	-500	-2	8	2.0	118
T 22308	-5	-0.2	-20	-0.2	-0	-5	-5	0.01	-1	-0.5	-500	-2	-2	-0.5	-100

Laboratory Method	BEQUE INAA30														
Det. Limi	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500	2.000	2.000	0.500		

069151

APPENDIX 4

West Sedgwick

soil geochemistry

## PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	EAST metres	DEPTH metres	CODE	SAMPLR	DATE	MAP	REF	GRID	QCONT	VEGCON	KIND	SOIL	UNIT	COLOUR	COMPOS	SLOPE
T 22501	5800	81800	0.40	5532	SD	DEC.91	MINE 5	3834	WS			SA	R	B	YU	CY	4
T 22502	5800	81775	0.50	5532	SD	DEC.91	MINE 5	3834	WS			SA	R	BC	OG	CY	3
	Remarks: Clayey soils & rockchips. numerous green andesite rockchips.																
T 22503	5800	81750	0.80	5532	SD	DEC.91	MINE 5	3834	WS			SA	R	BC	O	CY	4
	Remarks: Relict hb - phenocrysts. rock chips.																
T 22504	5800	81725	0.70	5532	SD	DEC.91	MINE 5	3834	WS			SA	T	B	O	CY	3
	Remarks: Rock float. 10m from creek. Relict hornblende. Andesite rock chips.																
T 22505	5800	81700	1.80	5532	SD	DEC.91	MINE 5	3834	WS			SA	R	B	YU	CY	2
	Remarks: Quartzite float. Abundant relict feldspar phenocrysts.																
T 22506	5800	81825	0.40	5532	SD	DEC.91	MINE 5	3834	WS			SA	T	B	U	CY	2
	Remarks: Couldn't penetrate further. Numerous RC's. Comstock tuff. shale.																
T 22507	5800	81850	0.20	5532	SD	DEC.91	MINE 5	3834	WS			SA	R	B	U	CYPEB	3
	Remarks: Large boulders. Couldn't penetrate any further. Gritty clay.																
T 22508	5800	81875	0.30	5532	SD	DEC.91	MINE 5	3834	WS			SA	R	BC	Y	CYSN	3
	Remarks: Many qtz grains in clay. (Rock chip xtal rich qtz-fels phyrlic. ?felsic).																
T 22509	5800	81900	0.50	5532	SD	DEC.91	MINE 5	3834	WS			SA	R	BC	O	CY	
	Remarks: Sample taken 5m from peg. Andesite rock chips.																
T 22510	6000	81900	1.40	5532	RDSJ	DEC.91	MINE 5	3834	WS			SA	R	BC	O	CYSIL	
	Remarks: Sample taken near dry creek bed. Gritty (quartz+feldspar) clay.																
T 22511	6000	81875	1.00	5532	SJRD	DEC.91	MINE 5	3834	WS			SA	R	B	YU	CY	
T 22512	6000	81850	0.40	5532	SJRD	DEC.91	MINE 5	3834	WS			SA	R	B	U	CYSIL	
	Remarks: Gritty clay.																
T 22513	6000	81825	0.60	5532	RDSJ	DEC.91	MINE 5	3834	WS			SA	RT	B	OU	CY	
	Remarks: Sample taken near creek.																
T 22514	6000	81800	0.60	5532	RDSJ	DEC.91	MINE 5	3834	WS			SA	R	B	U	SILCY	
	Remarks: Couldn't penetrate any further. Brown dirt. one hb - andesite chip.																
T 22515	6000	81775	1.10	5532	RDSJ	DEC.91	MINE 5	3834	WS			SA	R	B	OU	CY	
T 22516	6000	81750	0.30	5532	RDSJ	DEC.91	MINE 5	3834	WS			SA	R	AB	1U	SILCY	
	Remarks: Dirt.																
T 22517	6000	81725	0.70	5532	SJRD	DEC.91	MINE 5	3834	WS			SA	R	B	3U	CYSIL	
	Remarks: Gritty (feldspar) clay.																
T 22518	6000	81700		5532	RDSJ	DEC.91	MINE 5	3834	WS			SA	R	B	10U	CY	
T 22519	6000	81675	0.70	5532	SJRD	DEC.91	MINE 5	3834	WS			SA	RT	AB	U	CYSIL	
T 22520	6000	81650	0.50	5532	RDSJ	DEC.91	MINE 5	3834	WS			SA	R	B	C	CYSIL	
	Remarks: Gritty clay. and silic quartz.																

## PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	EAST metres	DEPTH metres	CODE	SAMPLR	DATE	MAP	REF	GRID	QCONT	VEGCON	KIND	SOIL	UNIT	COLOUR	COMPOS	SLOPE	
T 22521	6000	81625	0.80	5532	RDSJ	DEC.91	MINE	5 3834	WS				SA	R	B	C	CYSIL	
	Remark:Gritty clay, grit is composed of quartz grains.																	
T 22522	6000	81600	1.00	5532	RDSJ	DEC.91	MINE	5 3834	WS				SA	TR	AB	U	SILCY	
	Remark:Boggy wet dirt.Several large pieces of quartz vein.?Not in-situ.																	
T 22523	6000	81575	0.90	5532	RDSJ	DEC.91	MINE	5 3834	WS				SA	R	B	C	CY	
T 22524	6000	81550	0.80	5532	SJPB	DEC.91	MINE	5 3834	WS				SA	R	B	C	CY	
T 22525	5800	81675	2.00	5532	SOPB	DEC.91	MINE	5 3834	WS				SA	R	BC	OY	CY	4
	Remark:Soil type is still clay.																	
T 22526	5800	81650	1.00	5532	PBSD	DEC.91	MINE	5 3834	WS				SA	R	BC	O	CY	3
	Remark:Relict hornblende.																	
T 22527	5800	81625	1.00	5532	PBSD	DEC.91	MINE	5 3834	WS				SA	R	BC	O	CY	3
	Remark:Rock chips are feldspar-phyrlic (?andesite).																	
T 22528	5800	81600	2.00	5532	PBSD	DEC.91	MINE	5 3834	WS				SA	R	B	C	CY	2
T 22529	5800	81575	1.50	5532	PBSD	DEC.91	MINE	5 3834	WS				SA	R	B	O	CY	3
T 22530	5800	81550		5532	PBSD	DEC.91	MINE	5 3834	WS				SA	R	BC	3U	CY	2
T 22531	5800	81513	1.00	5532	PBSD	DEC.91	MINE	5 3834	WS				SA	R	B	YU	CY	2
	Remark:Sample taken 12m to west on grid line because of float from small ck.																	
T 22532	5800	81495	1.00	5532	SOPB	DEC.91	MINE	5 3834	WS				SA	R	B	AG	CY	
	Remark:Sample taken 5m west.Relict feldspars,looks andesitic.																	
T 22533	5800	81475	2.00	5532	SOPB	DEC.91	MINE	5 3834	WS				SA	R	B	OY	CY	4
	Remark:Couldn't penetrate any deeper.																	
T 22534	5800	81450	2.00	5532	SOPB	DEC.91	MINE	5 3834	WS				SA	R	B	YU	CY	4
T 22535	5800	81425	0.50	5532	PBSD	DEC.91	MINE	5 3834	WS				SA	R	C	YU	CY	1
	Remark:Sample taken at the top of a hill.																	
T 22536	5800	81400		5532	PBSD	DEC.91	MINE	5 3834	WS				SA	R	B	OU	CYSIL	1
	Remark:Couldn't penetrate through clays.Grit - feldspar grains.																	
T 22537	5800	81375	2.00	5532	SOPB	DEC.91	MINE	5 3834	WS				SA	R	BC	O	CY	1
T 22538	5800	81350	1.00	5532	PBSD	DEC.91	MINE	5 3834	WS				SA	R	B	OU	CY	1
T 22539	5800	81325	1.00	5532	PBSD	DEC.91	MINE	5 3834	WS				SA	RT	B	O	CY	1
	Remark:Some large quartz vein pieces.?Not in-situ.Rocky clays.																	
T 22540	5800	81300	1.00	5532	PBSD	DEC.91	MINE	5 3834	WS				SA	R	B	O	CY	1
T 22541	5800	81275	1.00	5532	SOPB	DEC.91	MINE	5 3834	WS				SA	R	BC	O	CYSIL	1
	Remark:Gritty clay(relict hb and feldspar) = andesite.																	
T 22542	5800	81250	0.50	5532	SOPB	DEC.91	MINE	5 3834	WS				SA	T	B	O	CY	2
	Remark:Abundant coarse vein qtz pieces,transported with clay. ?Not in-situ.																	

LABORATORY:

Method:

069154

PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	EAST metres	DEPTH metres	CODE	SAMPLR	DATE	MAP	REF	GRID	QCONT	VEGCON	KIND	SOIL	UNIT	COLOUR	COMPUS	SLOPE
T 22543	5800	81225	2.00	5532	SDPB	DEC.91	MINE 5	3834	WS			SA	R	BC	OU	CY	2
Remark: Couldn't penetrate any further into clays.																	
T 22544	5800	81200	1.00	5532	SDPB	DEC.91	MINE 5	3834	WS			SA	R	B	OU	CY	1
Remark: Compacted dry clay, couldn't penetrate through.																	
T 22545	5800	81175		5532	SDPB	DEC.91	MINE 5	3834	WS			SA	R	C	O	CY	1
Remark: Rocky area on surface, couldn't penetrate any further, andesite places.																	
T 22546	5800	81150	1.00	5532	PBSO	DEC.91	MINE 5	3834	WS			SA	R	B	O	CY	1
T 22547	5800	81125	2.00	5532	PBSO	DEC.91	MINE 5	3834	WS			SA	R	BC	O	CY	1
T 22548	5800	81100	0.60	5532	PBSO	DEC.91	MINE 5	3834	WS			SA	RT	BC	OU	CY	1
Remark: Rocky ground, some organics.																	
T 22549	5800	81075	0.50	5532	PBSO	DEC.91	MINE 5	3834	WS			SA	R	BC	OU	CY	2
T 22550										STD							
Remark: Vein quartz standard.																	
T 22551	5800	81050	1.20	5532	SOPB	DEC.91	MINE 5	3834	WS			SA	R	B	O	CY	2
T 22552	5800	81025	1.20	5532	SOPB	DEC.91	MINE 5	3834	WS			SA	R	B	OY	CY	2
Remark: Couldn't penetrate through clays.																	
T 22553	5800	81000	1.50	5532	PBSO	DEC.91	MINE 5	3834	WS			SA	R	B	O	CY	2
T 22554	6400	81900	0.60	5532	SJKS	DEC.91	MARG 5	3834	WS			SA	R	B	AU	CY	3
Remark: Unusually coloured clay.																	
T 22555	6400	81875	0.60	5532	KSSJ	DEC.91	MARG 5	3834	WS			SA	R	B	3AU	CY	1
Remark: Quartz grains common.																	
T 22556	6400	81850	0.50	5532	SJKS	DEC.91	MARG 5	3834	WS			SA	R	AB	1U	CY	1
Remark: Many rocks scattered over surface, abundant organics.																	
T 22557	6400	81825	0.80	5532	SJKS	DEC.91	MARG 5	3834	WS			SA	RT	AB	1U	CYSIL	1
Remark: Swamp, sample similar to 22556, abundant organics.																	
T 22558	6400	81800	1.40	5532	SJKS	DEC.91	MARG 5	3834	WS			SA	RT	AB	1U	CYSIL	1
Remark: Only mud, too wet, abundant organics.																	
T 22559	6400	81775	0.90	5532	SJKS	DEC.91	MARG 5	3834	WS			SA	R	B	O	CY	2
Remark: Below 1.0m is mud.																	
T 22560	6400	81750	0.70	5532	SJKS	DEC.91	MARG 5	3834	WS			SA	R	B	O	CY	2
Remark: 21 andesite chip & 1 vein quartz chip.																	
T 22561	6400	81725	0.80	5532	SJKS	DEC.91	MARG 5	3834	WS			SA	R	B	1U	CY	2
T 22562	6400	81700	0.70	5532	SJKS	DEC.91	MARG 5	3834	WS			SA	R	B	OU	CY	1
T 22563	6400	81675	0.80	5532	SJKS	DEC.91	MARG 5	3834	WS			SA	R	BC	OU	CY	2
Remark: Pink albite fragments, clasts like altered andesite.																	

Laboratory:

Method:

069155

## PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	EAST metres	DEPTH metres	CODE	SAMPLR	DATE	MAP	REF	GRID	QCONT	VEGCON	KIND	SOIL	UNIT	COLOUR	COMPOS	SLOPE	
T 22564	6400	81650	0.70	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	R	BC	O	CYPEB	3
Remark: Minor green rock fragments.																		
T 22565	6400	81625	0.90	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	R	B	U	CY	3
T 22566	6400	81600	0.60	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	R	BC	YO	CYPEB	1
Remark: Minor green rock fragments.																		
T 22567	6400	81575	0.80	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	R	C	LU	CYSIL	1
Remark: Gritty clay (abundant orange frags ?feldspar). 1 Hb - andesite frag.																		
T 22568	6400	81650	0.60	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	R	BC	O	CYPEB	2
Remark: 1 hb andesite fragment.																		
T 22569	6400	81525	0.30	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	R	B	1UA	CY	1
T 22570	6400	81500	0.60	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	R	BC	1GAU	CYSIL	1
Remark: Unusual dark green clay (common ?feldspar grains).																		
T 22571	6600	81675	0.70	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	R	BC	YO	CYSIL	2
Remark: Abundant pink feldspar grains - ?altered andesite.																		
T 22572	6600	81650	0.50	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	R	AB	LU	SILCY	1
Remark: Abundant organics.																		
T 22573	6600	81625	0.50	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	R	B	AYU	CY	1
Remark: Yellow-orange patches in the clay.																		
T 22574	6600	81600	0.60	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	R	B	YU	CY	2
T 22575	6600	81675	0.90	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	R	BC	YU	CYPEB	2
Remark: Gritty clay (some pink albite grains). ?weathered altered andesite.																		
T 22576	6600	81650	0.70	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	RT	BC	GOU	CYPEB	3
Remark: Trace green rock fragments.																		
T 22577	6600	81525	0.80	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	R	B	YU	CY	1
T 22578	6600	81500	0.70	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	R	BC	OUGY	CYPEB	1
Remark: Minor green rock fragments.																		
T 22579	6000	81525	1.10	5532	SJKS	DEC.91	MINE 5	3834	WS				SA	RT	BC	3URA	CYSIL	3
Remark: Hit bedrock. Common quartz grains in clay -> looks felsic.																		
T 22580	6000	81500	1.50	5532	SJKS	DEC.91	MINE 5	3834	WS				SA	R	C	OU	CYPEB	2
Remark: Several rock chips (?felsic mod xtal rich), could still be andesite.																		
T 22581	6200	81900	0.40	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	RT	BC	OU	CYPEB	3
Remark: Green andesite fragments.																		
T 22582	6200	81875	0.30	5532	SJKS	DEC.91	MARG 5	3834	WS				SA	RT	B	LU	CYPEB	3
Remark: Some veins quartz pieces.																		

## PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	EAST metres	DEPTH metres	CODE	SAMPLR	DATE	MAP	REF	GRID	QCONT	VEGCON	KIND	SOIL	UNIT	COLOUR	COMPOS	SLOPE
T 22583	6200	81850	1.10	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	BC	OU	CYPEB	2
	Remark: Minor rock chips, looks andesitic.																
T 22584	6200	81825	0.40	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	B	OU	CYSIL	2
	Remark: Abundant pink feldspar grains (weathered albitic altered andesite).																
T 22585	6200	81800	1.20	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	B	OU	CYPEB	3
	Remark: Minor green andesite chips.																
T 22586	6200	81775	1.10	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	BC	OG	CYPEB	2
	Remark: Green andesite pieces.																
T 22587	6200	81750	1.30	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	C	OU	CYPEB	2
	Remark: ?Shale and some andesite rock chips.																
T 22588	6200	81725	1.30	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	B	OU	CY	2
T 22589	6200	81700	1.00	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	C	OG	CYPEB	2
	Remark: Green rock chips (andesite)																
T 22590	6200	81675	1.30	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	C	OU	CYPEB	2
	Remark: Rock chips present.																
T 22591	6200	81650	1.10	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	B	OU	CY	2
	Remark: 1 ?Hb andesite chip.																
T 22592	6200	81625	1.20	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	BC	OU	CYPEB	3
	Remark: Minor green andesite chips.																
T 22593	6200	81600	0.50	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	B	OU	CYSN	2
	Remark: Sandy clay (sandy due to feldspar grains).																
T 22594	6200	81575	1.30	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	BC	OW	CYSN	2
	Remark: Abundant quartz and feldspar sand size grains in the clay.																
T 22595	6200	81550	1.30	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	B	YU	CY	3
T 22596	6200	81525	1.30	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	B	O	CY	3
	Remark: One rock chip only = spherulitic andesite lava.																
T 22597	6200	81500	1.30	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	B	O	CY	2
T 22598	6200	81475	0.60	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	BC	OU	CYPEB	2
	Remark: Minor green chips.																
T 22599	6200	81450	1.30	5532	SDKS	DEC.91	MARG 5	3834	WS			SA	R	B	UYOH	CY	1
	Remark: Creamy patches in clay.																
T 22600																	
	Remark: Vein quartz standard.																
T 22601	6800	81500	0.20	5532	SDPB	DEC.91	MARG 5	3834	WS			SA	GT	A	3BP	PEBEN	1
	Remark: Oven pebbles. Lots of conglomerate float - couldn't penetrate through.																

Laboratory:

Method:

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## PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	EAST metres	DEPTHT metres	CODE	SAMPLR	DATE	MAP	REF	GRID	QCONT	VEGCON	KIND	SOIL	UNIT	COLOUR	COMPOS	SLOPE
T 22602	6800	81525	0.80	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	RT	B	YU	CYSIL	
	Remark:Gritty clay. N.b. one Owen pebble (contamination).																
T 22603	6800	81550	1.20	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	B	OY	CYSIL	2
	Remark:Gritty clay. Sample to east of line 81563E, due to Ck bed. Looks felsic.																
T 22604	6800	81575	0.20	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	B	YU	CYSIL	2
	Remark:Gritty clay.																
T 22605	6800	81600	1.00	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	BC	OY	CY	3
	Remark:Clays into rocks.																
T 22606	6800	81625	1.00	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	B	UOY	CYSIL	1
	Remark:Gritty clay.																
T 22607	6800	81650	0.50	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	RT	B	A	CYCOB	2
	Remark:Numerous large vein Qtz grains. Clays pass down into gravels.																
T 22608	6800	81675	0.50	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	BC	U	CYSIL	3
	Remark:Gritty clay. Couldn't penetrate past boulders.																
T 22609	6800	81700	2.00	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	B	Y	CY	2
	Remark:Abundant clay.																
T 22610	6800	81725	1.50	5532	PBSD	DEC.91	MARG 5	3834	WS			SA	R	B	Y	CYSIL	3
	Remark:Abundant quartz grains. Comstockuff.																
T 22611	6800	81750	1.50	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	RT	B	OY	CY	4
	Remark:Clays only - small rock fragments.																
T 22612	6800	81775	1.00	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	B	Y	CYSIL	3
	Remark:Clays with chips - on gravels. Some quartz grains.																
T 22613	6800	81800	1.50	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	B	O	CY	3
	Remark:Clays. looks more like andesite.																
T 22614	6800	81825	1.00	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	B	YU	CY	3
	Remark:Clays with rock chips. Felsic-talldopar-phyric, no Hb.																
T 22615	6800	81850	0.80	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	B	AU	CYSIL	
	Remark:Three attempts. couldn't penetrate gravels. Some quartz grains.																
T 22616	6800	81875	0.50	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	AC	1U	SIL	2
	Remark:Passes into solid rock, abundant organic (humus).																
T 22617	6800	81900	0.20	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	BC	AYU	CY	1
	Remark:Bedrock.																
T 22618	6800	81700	0.50	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	B	U	CY	2
T 22619	6800	81725	1.50	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	BC	AU	CYSN	2
	Remark:Abundant felsic coarse Hb - decomposed Hb andesite.																

Laboratory:

Method:

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PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	EAST metres	DEPTH metres	T CODE	SAMPLR	DATE	MAP	REF	GRID	QCONT	VEGCON	KIND	SOIL	UNIT	COLOUR	COMPOS	SLOPE
T 22620	6600	81750	1.50	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	BC	AU	CYSIL	1
	Remarks: Abundant qtz grains, looks felsic, ?Comstock/Tuff.																
T 22621	6600	81775	1.20	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	BC	3U	CYSN	1
	Remarks: Abundant qtz in clay, ?felsic, similar to T22620.																
T 22622	6600	81800	1.50	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	BC	U	CYSIL	1
	Remarks: Gritty clay. Grit due to fragments of quartz grains in clay.																
T 22623	6600	81825	1.50	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	C	UG	CYPEB	1
	Remarks: Rock frags totally silicified. ?Relict hb or actual andesite pieces?																
T 22624	6600	81850	1.50	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	BC	U	CYSIL	1
	Remarks: Gritty clay. Grit - feldspar grains with or without quartz.																
T 22625	6600	81875		5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	BC	U	CYSIL	1
	Remarks: Gritty clay. Grit = feldspar and quartz.																
T 22626	6600	81900	1.50	5532	SOPB	DEC.91	MARG 5	3834	WS			SA	R	BC	UY	CYSIL	1
	Remarks: Gritty clay.																
T 22628	6200	81425	0.40	5532	SOKS	DEC.91	MARG 5	3834	WS			SA	R	B	0U	CY	1
T 22629	6200	81400	0.50	5532	SOKS	DEC.91	MARG 5	3834	WS			SA	R		1UG	COB	1
	Remarks: Gravelly, 1 silicified ?andesite fragment.																
T 22630	6200	81375	0.40	5532	SOKS	DEC.91	MARG 5	3834	WS			SA	R	C	GU	CYSN	1
	Remarks: Very small andesite chips.																
T 22631	6200	81350	0.90	5532	SOKS	DEC.91	MARG 5	3834	WS			SA	R		36		1
T 22632	6200	81325	0.90	5532	SOKS	DEC.91	MARG 5	3834	WS			SA	R	C	WY	PEB	1
	Remarks: Gravel, some very small green ?andesite chips.																
T 22633	6200	81300	0.50	5532	SOKS	DEC.91	MARG 5	3834	WS			SA	R	C	WY	PEB	2
	Remarks: Looks similar to T22632.																
T 22634	6200	81275	0.50	5532	SOKS	DEC.91	MARG 5	3834	WS			SA	RT	C	AW	PEB	3
	Remarks: Similar to T22630.																
T 22635	6200	81250	0.50	5532	SOKS	DEC.91	MARG 5	3834	WS			SA	R	C	O	CYPEB	2
	Remarks: Small hb-andesite fragments.																
T 22636	6200	81225	1.30	5532	SOKS	DEC.91	MARG 5	3834	WS			SA	R	BC	OG	CYSN	1
	Remarks: Minor very small green chips (andesite).																
T 22637	6200	81200	0.60	5532	SOKS	DEC.91	MARG 5	3834	WS			SA	R	BC	UO	CYSN	1
	Remarks: Numerous very small ?andesite chips.																
T 22638	6200	81175	0.60	5532	SOKS	DEC.91	MARG 5	3834	WS			SA	R	C	60	CYSN	1
	Remarks: Very small green rock chips (andesite).																



## PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	EAST metres	DEPTH metres	CODE	SAMPLR	DATE	MAP	REF	GRID	QCONT	VEGCON	KIND	SOIL	UNIT	COLOUR	COMPOS	SLOPE
T 22666	6000	81500	1.00	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	BC	AT	CYPEB	5
T 22667	6000	81525	0.50	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	NRWU	CYPEB	4
T 22668	5400	81000	0.10	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	UT	SNPEB	2
T 22669	5400	81025	0.30	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	UT	SILPEB	1
T 22670	5400	81050	0.80	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	RNU	CYPEB	1
T 22671	5400	81075	0.30	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	BC	TGW	CYPEB	1
T 22672	5400	81100	1.20	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	UAR	SILPEB	3
T 22673	5400	81125	1.00	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	ATO	SILPEB	3
T 22674	5400	81150		5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	RC			AU		2
T 22675	5400	81175	1.20	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	UT	CYSIL	1
T 22676	5400	81200	1.20	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	RUT	SILPEB	4
T 22677	5400	81225	0.70	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	OUG	SILPEB	1
T 22678	5400	81250	1.20	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	B	RAT	CY	1
T 22679	5400	81275	0.80	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	T	C	ROU	SILPEB	1
Remark: Sample taken in bottom of creek.																	
T 22680	5400	81300	1.20	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	B	ROT	CY	2
T 22681	5400	81325	1.20	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	TW	CYSIL	1
T 22682	5400	81350	0.50	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	URO	CYPEB	3
T 22683	5400	81375	1.20	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	OTU	SILPEB	3
T 22684	5400	81400	1.10	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	UT	SILPEB	1
T 22685	5400	81425	1.20	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	B	RTU	CY	1
T 22686	5400	81450	1.20	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	B	TD	CY	2
T 22687	5400	81475	1.00	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	RUT	SILPEB	2
T 22688	5400	81500	1.00	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	NRT	SILPEB	3
T 22689	5400	81525	0.40	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	NTU	SILPEB	3
T 22690	5600	81075	0.90	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	RTA	SILPEB	1
T 22691	5600	81000	0.40	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	AGU	SILPEB	1
T 22692	5600	81025	0.50	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	ATU	SILPEB	1
T 22693	5600	81050	1.00	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	RUT	SILPEB	1
T 22694	5600	81100	0.40	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	UTW	SILPEB	1
T 22695	5600	81125	0.60	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	WT	SILPEB	1
T 22696	5600	81150	1.00	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	AUT	SILPEB	1
T 22697	5600	81175	1.00	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	RT	SILPEB	1
T 22698	5600	81200	0.80	5532	CC	DEC.91	MINE	5 3834	WS		TTB 1	SA	R	C	NRT	SILPEB	1



NAME:CODE

5532 Queenstown (E.L. 102/87)

NAME:COLOUR

1 Dark  
A Grey  
G Green  
R Red  
W White

2 Medium  
C Cream  
N Black  
T Tan  
Y Yellow

3 Light  
F Pink  
O Orange  
U Brown

NAME:COMPOS

COB Cobbly  
SIL Silty

CY Clayey  
SN Sandy

PEB Pebbly

NAME:GRID

WS West Sedgwick Grid

NAME:KIND

RC Rock chip sample

SA Soil auger sample

NAME:MAP

MARG 5 Margaret Sheet Scale 1:5000

MINE 5 Mine Sheet Scale 1:5000

NAME:QCONT

STD Standard

NAME:REF

3834 1:25000 Scale Sheet #

NAME:SAMPLR

CC Christopher Cooney  
RU Robyn Duncan

ND Keith Cameron-Smith  
SD Scott Douglas

PB Paul Bancik  
SJ Steve Jenkins

069163

1 Flat: < 5 degrees.  
4 Steep: 20 - 30 degrees.

2 Gentle: 5 - 10 degrees.  
5 Very steep: > 30 degrees

3 Moderate: 10 - 20 degrees.

NAME:SOIL

G Glacial

R Residual

T Transported

NAME:UNIT

A Highly organic component

B Clay concentration

C Weathered bedrock

NAME:VEGCON

TTB 1 Secondary regrowth 0 to 20 %

069164



## PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	NORTH metres	EAST metres	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MG %	P %	TI PPM	V PPM	ER PPM	BA PPM
T 22536	345821	381388	237	21	97	-0.5	46	0.91	0.054	4850	280	180	478
T 22537	345816	381362	130	5	113	-0.5	47	0.71	0.053	5850	340	240	564
T 22538	345804	381337	77	5	82	-0.5	44	0.83	0.076	4800	280	200	728
T 22539	345804	381310	72	14	69	-0.5	34	0.65	0.034	4650	270	160	331
T 22540	345802	381289	147	522	88	-0.5	37	0.28	0.091	6500	370	230	399
T 22541	345805	381263	116	10	82	-0.5	30	0.58	0.041	4100	240	170	909
T 22542	345807	381243	42	8	27	-0.5	20	0.21	0.020	3800	190	100	160
T 22543	345807	381215	63	-6	151	-0.5	45	1.50	0.077	4450	260	160	990
T 22544	345806	381190	134	15	129	-0.5	55	1.25	0.066	5700	300	200	864
T 22545	345805	381165	105	20	60	-0.5	30	0.55	0.038	5750	300	200	406
T 22546	345805	381137	249	7	112	-0.5	61	1.41	0.050	4700	320	180	524
T 22547	345806	381114	106	9	53	-0.5	37	0.48	0.025	5400	280	190	457
T 22548	345805	381092	92	52	92	-0.5	40	0.62	0.056	4000	210	120	463
T 22549	345806	381063	89	71	112	-0.5	41	0.61	0.086	4000	250	150	930
T 22550			-5	5	-6	-0.5	5	0.03	-0.003	130	-5	8	-100
T 22551	345805	381038	82	10	42	-0.5	42	0.22	0.040	4800	260	190	938
T 22552	345805	381010	43	27	79	-0.5	20	0.28	0.021	3750	100	280	1450
T 22553	345806	380990	27	24	73	-0.5	18	0.31	0.024	3750	100	230	1090
T 22554	346345	381887	28	92	45	-0.5	18	0.44	0.026	2700	80	170	787
T 22555	346342	381859	32	121	53	-0.5	9	0.13	0.034	4050	85	140	427
T 22556	346341	381837	73	136	45	-0.5	20	0.78	0.062	4150	140	160	422
T 22557	346341	381812	51	115	29	-0.5	14	0.29	0.058	4550	200	190	472
T 22558	346342	381790	127	137	143	-0.5	43	1.38	0.103	4500	230	180	470
T 22559	346343	381764	68	163	57	-0.5	28	0.66	0.065	5000	320	200	382
T 22560	346343	381740	91	129	75	-0.5	31	0.72	0.102	5100	350	210	421
T 22561	346344	381709	100	88	70	-0.5	30	0.65	0.147	6000	350	210	568
T 22562	346344	381687	71	45	60	-0.5	24	0.39	0.091	5450	290	200	473
T 22563	346344	381664	70	40	47	-0.5	27	0.60	0.070	5400	340	200	315
T 22564	346343	381628	86	30	71	-0.5	31	0.76	0.068	5000	320	190	399
T 22565	346342	381609	82	47	67	-0.5	32	0.68	0.091	4850	280	180	370
T 22566	346341	381587	70	25	70	-0.5	33	1.00	0.109	5050	290	190	423
T 22567	346343	381565	102	33	151	-0.5	43	1.12	0.143	4450	310	170	472
T 22568	346344	381534	98	33	99	-0.5	37	0.97	0.093	4750	290	180	731
T 22569	346344	381514	49	37	26	-0.5	14	0.20	0.043	5650	200	180	135
T 22570	346343	381485	92	35	93	-0.5	28	0.95	0.045	3900	260	170	663

Laboratory:	ANALAB	BECCUE										
Method:	GA140	GX401	GX401	GX401	GX401	INAA30						
Det. Limit:	5.000	5.000	5.000	0.500	5.000	0.010	0.003	1.000	5.000	5.000		

PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	TNORTH metres	TEAST metres	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MG %	P %	TI PPM	V PPM	ZR PPM	BA PPM
T 22571	346547	381664	62	33	47	-0.5	25	0.38	0.029	5150	330	200	797
T 22572	346546	381641	72	84	36	-0.5	17	0.33	0.069	4300	190	180	527
T 22573	346547	381611	31	32	29	-0.5	15	0.32	0.037	4500	200	210	600
T 22574	346547	381585	62	56	51	-0.5	33	0.89	0.050	4950	330	200	599
T 22575	346548	381560	81	64	47	-0.5	34	0.55	0.076	4800	320	190	555
T 22576	346548	381536	73	45	44	-0.5	26	0.59	0.055	5150	300	160	285
T 22577	346546	381510	60	16	53	-0.5	31	0.67	0.051	5500	270	230	185
T 22578	346549	381489	40	30	60	-0.5	24	0.38	0.043	4650	210	230	197
T 22579	345992	381529	26	81	35	-0.5	11	0.32	0.030	3300	80	190	535
T 22580	345995	381508	77	48	53	-0.5	27	0.88	0.125	4950	260	190	908
T 22581	346149	381859	21	49	93	-0.5	16	0.80	0.026	2950	65	260	547
T 22582	346149	381836	18	25	34	-0.5	8	0.29	0.026	2600	25	200	919
T 22583	346152	381811	8	10	54	-0.5	14	0.69	0.023	4150	120	220	340
T 22584	346151	381788	20	17	64	-0.5	12	0.58	0.030	2850	45	260	804
T 22585	346153	381763	56	62	92	-0.5	27	1.21	0.079	5250	260	190	620
T 22586	346152	381736	90	112	76	-0.5	31	1.03	0.064	4350	220	220	820
T 22587	346151	381710	51	114	63	-0.5	24	0.86	0.063	5150	200	210	787
T 22588	346154	381686	45	140	40	-0.5	20	0.48	0.067	4450	200	200	1210
T 22589	346153	381662	75	114	47	-0.5	26	0.76	0.077	4150	220	210	1640
T 22590	346151	381636	86	82	50	-0.5	28	0.80	0.082	4200	240	210	1290
T 22591	346153	381605	46	81	56	-0.5	22	0.65	0.060	5550	230	230	552
T 22592	346153	381583	50	78	52	-0.5	20	0.46	0.084	5000	210	240	845
T 22593	346155	381563	28	31	31	-0.5	9	0.25	0.017	1450	16	150	381
T 22594	346155	381543	23	40	23	-0.5	6	0.22	0.012	1550	20	140	355
T 22595	346155	381512	18	168	19	-0.5	9	0.13	0.019	2400	65	180	716
T 22596	346154	381486	57	96	31	-0.5	12	0.27	0.067	3950	200	210	1570
T 22597	346155	381466	117	115	48	-0.5	25	0.88	0.071	5500	400	280	1350
T 22598	346155	381446	198	859	45	-0.5	27	0.43	0.059	6700	470	220	1630
T 22599	346155	381414	64	53	29	-0.5	10	0.31	0.034	5000	280	160	1520
T 22600			-5	-5	-5	-0.5	-5	0.02	-0.003	85	-5	13	-100
T 22601	346747	381500	7	15	5	-0.5	7	0.04	0.018	790	6	120	-100
T 22602	346745	381524	25	41	51	-0.5	15	0.39	0.039	2550	110	180	344
T 22603	346745	381543	30	69	63	-0.5	18	0.42	0.029	4100	190	200	407
T 22604	346744	381574	57	25	55	-0.5	31	1.84	0.056	4350	290	200	538
T 22605	346744	381596	76	145	158	-0.5	34	0.73	0.060	3700	280	200	538

Laboratory:	ANALAB	BECCQUE											
Method:	GA140	GA140	GA140	CA140	GA140	GA140	GA140	GX401	GX401	GX401	GX401	GX401	INAA30
Det. Limit:	5.000	5.000	5.000	0.500	5.000	5.000	0.010	0.003	1.000	5.000	5.000		

069167







## PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	TNORTH metres	TEAST metres	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MG %	P %	TI PPM	V PPM	ZR PPM	BA PPM
T 34812			55	5	115	-1.0	44	1.08	0.039	3400	250	160	
T 34813			120	40	240	-1.0	50	1.50	0.042	4500	300	210	
T 34814			88	37	105	-1.0	60	1.70	0.057	4500	310	260	
T 34815			4	-3	2	-1.0	-3	0.01	0.009	280	7	6	
T 34816			9	-3	45	-1.0	72	2.92	0.061	3800	95	310	

Laboratory:	ANALAB	BECOUE											
Method :	GA140	GX401	GX401	GX401	GX401	GX401	INAA30						
Det. Limit:	5.000	5.000	5.000	0.500	5.000	0.010	0.003	1.000	5.000	5.000	5.000		

069171

PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	CU PPM	AU PPB	HF PPM	IR PPB	FE %	LA PPM	LU PPM
T 22501	2.1	4	457	10	148	-1	259	43	1.5	-5	4	-20	6.46	43.7	0.3
T 22502	2.8	9	1880	72	117	5	131	29	2.1	-5	4	-20	8.56	70.5	0.4
T 22503	2.8	9	2020	21	178	6	91	34	2.0	8	5	-20	7.22	87.1	0.3
T 22504	1.7	6	292	3	193	1	163	53	1.8	-5	4	-20	5.91	71.4	0.1
T 22505	2.3	13	1040	47	140	4	129	19	1.4	-5	5	-20	6.08	62.5	0.4
T 22506	1.6	14	464	14	73	2	21	6	0.9	-5	4	-20	3.67	42.8	0.3
T 22507	2.0	17	381	45	69	2	15	3	0.9	-5	5	-20	3.44	32.1	0.3
T 22508	1.0	3	665	41	77	3	18	2	0.5	-5	4	-20	1.91	37.0	0.5
T 22509	1.7	8	353	79	28	3	39	7	-0.5	-5	6	-20	7.03	15.8	0.4
T 22510	0.9	4	394	39	102	3	13	4	1.2	-5	8	-20	4.08	45.0	0.6
T 22511	0.8	11	313	72	60	2	39	8	0.7	-5	3	-20	4.97	24.7	0.3
T 22512	0.9	9	146	157	23	1	14	2	-0.5	-5	4	-20	4.68	12.4	0.2
T 22513	1.3	13	543	41	79	4	28	14	1.1	6	5	-20	4.68	33.5	0.4
T 22514	0.7	8	277	170	35	1	26	6	0.6	-5	4	-20	5.53	14.5	0.2
T 22515	0.6	7	620	18	192	6	5	4	1.5	-5	13	-20	3.59	89.8	1.0
T 22516	1.5	14	481	181	24	1	22	4	0.8	-5	4	-20	6.70	12.9	0.3
T 22517	0.5	5	134	132	21	-1	17	2	0.5	-5	4	-20	4.57	12.2	0.2
T 22518	1.0	11	316	159	34	4	33	5	-0.5	-5	5	-20	6.23	12.5	0.3
T 22519	4.1	50	337	36	106	3	18	1	1.0	-5	4	-20	3.01	53.1	0.4
T 22520	1.7	38	248	12	117	1	10	-1	0.7	-5	3	-20	1.06	57.8	0.4
T 22521	2.5	33	687	12	149	2	-5	1	1.3	-5	5	-20	1.20	73.2	0.6
T 22522	2.3	69	559	10	108	4	16	-1	1.0	-5	4	-20	1.91	52.7	0.4
T 22523	2.5	14	573	12	132	5	24	-1	1.1	11	4	-20	1.11	62.7	0.4
T 22524	3.7	21	779	20	127	7	43	-1	1.3	266	5	-20	2.88	59.7	0.5
T 22525	1.7	12	695	8	361	2	117	189	1.4	-5	4	-20	7.12	39.4	0.3
T 22526	1.4	8	192	165	81	1	187	15	1.7	-5	6	-20	8.78	54.2	0.5
T 22527	1.3	7	314	77	130	2	245	26	0.8	-5	6	-20	8.19	16.9	0.2
T 22528	1.1	4	273	16	216	1	172	60	2.4	-5	6	-20	7.12	79.7	0.5
T 22529	1.1	7	363	51	251	2	206	33	1.5	-5	6	-20	7.60	50.7	0.4
T 22530	1.4	5	287	67	150	2	182	33	1.6	-5	5	-20	8.75	46.4	0.4
T 22531	1.8	14	1470	8	137	3	128	95	1.5	-5	4	-20	5.54	86.8	0.4
T 22532	1.5	12	710	35	77	2	113	18	1.4	-5	4	-20	5.70	43.6	0.3
T 22533	1.0	6	407	19	351	4	153	50	3.1	-5	5	-20	7.48	103.0	0.5
T 22534	1.5	10	245	8	150	6	132	56	1.4	-5	4	-20	9.08	45.3	0.4
T 22535	1.1	9	259	86	40	2	139	15	0.6	-5	5	-20	7.30	22.8	0.3

Laboratory Method	BECCQUE INAA30														
Upt. 1ml	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

069172

PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HF PPM	LR PPB	FE %	LA PPM	LU PPM
T 22536	1.1	5	478	22	678	3	125	91	1.4	-5	4	-20	5.66	48.1	0.3
T 22537	0.9	12	564	6	228	3	166	40	1.1	-5	5	-20	7.60	29.4	0.4
T 22538	1.7	12	726	8	381	2	112	177	1.3	-5	4	-20	6.72	35.7	0.3
T 22539	1.3	7	331	42	57	2	117	16	0.7	-5	3	-20	6.24	20.2	0.2
T 22540	1.2	11	399	26	126	2	132	28	1.4	-5	5	-20	4.90	200.0	0.4
T 22541	0.9	6	909	18	261	3	94	31	-0.5	-5	4	-20	5.08	13.3	0.2
T 22542	0.9	6	160	58	15	1	68	4	-0.5	-5	2	-20	4.87	9.5	-0.2
T 22543	0.7	5	990	8	227	3	122	69	10.1	-5	6	-20	7.85	388.0	1.2
T 22544	1.2	4	864	14	152	2	164	64	1.0	-5	4	-20	6.78	27.0	0.3
T 22545	1.3	8	406	98	61	4	124	11	0.8	-5	5	-20	8.08	23.2	0.4
T 22546	0.9	6	524	27	105	2	104	21	2.9	-5	4	-20	9.43	99.0	0.5
T 22547	1.3	7	457	38	21	10	95	8	0.6	-5	4	-20	7.30	13.1	0.3
T 22548	1.2	11	463	46	54	1	167	41	0.8	-5	3	-20	6.21	33.0	0.2
T 22549	1.9	28	930	33	88	3	249	31	1.7	-5	4	-20	7.77	71.6	0.3
T 22550	0.2	-2	-100	-2	-2	-1	11	-1	-0.5	-5	-1	-20	0.78	0.6	-0.2
T 22551	1.4	7	938	34	2060	2	139	173	0.7	-5	5	-20	5.56	37.8	0.3
T 22552	0.7	5	1450	41	26	8	39	4	0.6	-5	7	-20	6.43	20.8	0.5
T 22553	1.4	11	1090	28	37	4	35	2	0.6	-5	5	-20	5.03	23.6	0.4
T 22554	3.3	24	787	18	134	6	39	1	2.0	-5	5	-20	2.36	63.5	0.5
T 22555	2.3	19	427	26	164	2	49	1	1.6	-5	3	-20	0.73	87.3	0.3
T 22556	1.5	27	422	77	122	1	64	2	1.4	-5	4	-20	2.16	63.2	0.2
T 22557	2.6	29	472	44	70	2	48	1	1.0	-5	4	-20	3.94	37.4	0.2
T 22558	2.1	35	470	53	139	2	103	23	2.1	-5	4	-20	5.00	74.9	0.3
T 22559	2.0	42	382	198	123	6	124	2	1.6	-5	4	-20	5.24	67.6	0.4
T 22560	2.0	47	421	231	143	5	142	4	1.6	-5	5	-20	5.93	75.3	0.4
T 22561	1.8	64	568	245	152	4	142	4	1.8	-5	6	-20	5.88	74.9	0.4
T 22562	1.1	28	473	179	81	3	70	5	0.9	-5	5	-20	5.30	37.1	0.3
T 22563	1.3	17	315	185	118	2	64	6	1.4	-5	4	-20	5.35	69.9	0.4
T 22564	1.2	27	399	169	159	2	76	13	1.6	-5	5	-20	5.95	64.5	0.3
T 22565	1.4	20	370	211	124	2	77	12	1.5	-5	5	-20	5.21	64.8	0.3
T 22566	1.0	10	423	145	170	1	52	21	2.4	-5	4	-20	5.56	110.0	0.4
T 22567	1.3	19	472	50	217	3	43	120	4.2	-5	4	-20	6.18	126.0	0.5
T 22568	2.1	14	731	107	136	2	42	27	4.0	-5	4	-20	6.69	90.2	0.7
T 22569	1.3	9	136	90	43	-1	19	4	0.7	-5	4	-20	2.44	34.6	-0.2
T 22570	1.7	7	663	19	121	3	36	39	1.9	-5	4	-20	4.96	70.0	0.4

Laboratory	BECQUE														
Method	INAA30														
Det. Limi	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

069173

PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HF PPM	IR PPB	FE %	LA PPM	LU PPM
T 22571	2.2	39	797	82	87	5	122	5	0.9	-5	5	-20	5.43	55.3	0.3
T 22572	2.1	20	527	101	94	3	86	3	1.0	-5	4	-20	1.84	52.4	0.3
T 22573	1.8	18	600	51	86	5	125	1	1.0	-5	5	-20	2.65	49.5	0.3
T 22574	1.4	26	599	74	161	5	144	8	2.1	-5	4	-20	3.90	108.0	0.3
T 22575	1.6	43	555	207	136	4	155	6	1.7	-5	5	-20	7.07	78.5	0.3
T 22576	1.9	21	285	186	100	3	115	7	1.3	-5	4	-20	5.06	66.7	0.3
T 22577	0.8	11	185	95	75	3	92	9	1.1	-5	5	-20	5.53	57.9	0.3
T 22578	1.3	11	197	77	74	-1	83	7	0.9	-5	5	-20	5.53	57.9	0.3
T 22579	1.9	20	535	72	110	4	26	1	0.9	-5	5	-20	3.00	56.9	0.4
T 22580	1.4	26	908	130	197	3	107	14	2.1	-5	4	-20	5.30	110.0	0.4
T 22581	1.2	11	547	52	93	3	19	3	1.4	-5	7	-20	4.29	50.6	0.5
T 22582	0.7	14	919	34	108	3	16	2	1.3	-5	6	-20	1.99	57.5	0.5
T 22583	0.6	5	340	112	121	2	19	6	1.7	-5	6	-20	5.63	63.6	0.6
T 22584	0.7	5	804	33	184	1	18	22	1.8	-5	8	-20	3.27	86.0	0.7
T 22585	1.8	20	620	107	107	4	89	16	1.9	-5	5	-20	7.32	57.0	0.4
T 22586	2.4	26	820	63	158	5	102	16	1.9	-5	6	-20	6.49	72.4	0.4
T 22587	1.7	19	787	200	89	6	70	5	1.4	-5	5	-20	6.54	51.3	0.4
T 22588	2.6	27	1210	182	110	6	73	4	1.8	-5	5	-20	5.92	63.9	0.4
T 22589	3.4	30	1640	121	155	5	116	5	2.2	-5	5	-20	7.19	90.2	0.4
T 22590	2.8	32	1290	102	149	5	124	10	2.2	-5	5	-20	6.92	85.4	0.4
T 22591	1.8	30	552	111	111	4	93	18	1.8	-5	6	-20	6.61	55.9	0.4
T 22592	1.6	19	845	140	124	5	95	4	2.1	-5	6	-20	5.57	70.2	0.4
T 22593	2.1	15	381	20	76	3	6	1	0.9	-5	4	-20	2.65	41.4	0.4
T 22594	9.1	26	355	15	122	3	12	-1	1.3	-5	5	-20	2.31	68.6	0.5
T 22595	13.4	33	715	41	117	3	25	-1	1.3	-5	5	-20	3.10	67.0	0.5
T 22596	6.0	44	1570	24	167	5	131	1	2.5	-5	6	-20	5.64	46.9	0.4
T 22597	9.6	66	1350	313	217	5	232	-1	3.6	-5	7	-20	10.40	153.0	0.6
T 22598	4.6	38	1620	58	130	2	115	3	2.0	-5	5	-20	10.20	72.6	0.5
T 22599	2.8	22	1520	33	114	6	131	1	1.8	-5	4	-20	2.49	70.0	0.3
T 22600	0.3	-2	-100	-2	-2	-1	6	-1	-0.5	-5	-1	-20	0.38	-0.5	-0.2
T 22601	1.0	10	-100	8	12	-1	25	3	-0.5	-5	3	-20	1.38	10.5	-0.2
T 22602	2.0	30	344	29	79	2	46	2	1.1	-5	5	-20	2.61	46.9	0.3
T 22603	3.6	70	407	102	92	2	51	4	1.2	-5	5	-20	4.50	55.7	0.3
T 22604	1.5	22	538	55	83	1	48	19	0.9	-5	4	-20	8.50	47.9	0.3
T 22605	9.9	96	528	155	153	3	90	7	2.2	-5	5	-20	5.29	91.3	0.4

Laboratory Method	RECQUE INAA30														
Deg. Limi	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

069174

## PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HF PPM	IR PPB	FE %	LA PPM	LU PPM
T 22606	6.7	73	273	44	143	2	64	4	2.1	-5	4	-20	4.94	86.8	0.3
T 22607	2.0	16	462	21	93	2	43	2	1.1	-5	4	-20	1.83	54.7	0.3
T 22608	4.7	58	474	59	128	3	49	2	1.7	-5	5	-20	3.67	73.5	0.4
T 22609	4.8	47	616	20	113	7	49	2	1.4	-5	5	-20	4.65	64.9	0.5
T 22610	5.2	54	847	28	131	4	45	2	1.8	-5	4	-20	2.43	80.0	0.3
T 22611	6.0	88	712	66	124	6	67	3	1.7	-5	4	-20	4.93	73.5	0.4
T 22612	2.5	35	345	43	96	5	36	2	1.5	-5	5	-20	4.31	52.6	0.4
T 22613	4.5	171	491	187	163	4	84	3	2.2	-5	5	-20	6.05	98.1	0.4
T 22614	4.3	403	416	174	137	4	87	5	1.8	-5	5	-20	6.23	83.0	0.4
T 22615	1.7	32	333	44	72	2	36	-1	0.8	-6	4	-20	1.16	44.0	0.2
T 22616	1.4	11	164	29	69	2	23	-1	0.8	-6	5	-20	0.79	41.3	0.2
T 22617	2.0	12	441	12	78	4	36	-1	0.9	-5	4	-20	1.23	46.1	0.3
T 22618	1.8	9	297	27	53	2	46	2	0.6	-6	4	-20	1.03	34.6	0.2
T 22619	1.8	5	533	15	84	6	23	2	1.1	-5	5	-20	1.12	49.1	0.4
T 22620	1.5	5	385	28	124	3	19	4	1.2	-5	6	-20	2.18	74.4	0.4
T 22621	0.8	2	437	67	62	3	11	2	0.7	-5	4	-20	2.87	37.0	0.4
T 22622	0.6	4	397	106	34	3	27	10	1.0	-5	4	-20	6.56	18.9	0.4
T 22623	0.4	2	716	60	28	3	19	6	0.5	-5	5	-20	4.65	15.3	0.3
T 22624	0.6	4	612	19	30	4	27	22	1.0	-5	4	-20	9.93	19.2	0.3
T 22625	0.6	2	327	28	24	3	17	11	-0.5	-5	4	-20	5.35	11.4	0.3
T 22626	-0.2	3	355	98	25	11	18	13	0.8	-6	5	-20	7.37	16.2	-0.2
T 22628	0.9	9	3370	22	96	3	18	-1	1.2	-5	5	-20	4.08	54.4	0.5
T 22629	1.2	15	748	28	97	4	98	4	1.5	-5	4	-20	4.67	63.9	0.3
T 22630	0.9	15	733	21	138	4	117	2	1.9	-5	5	-20	2.24	84.2	0.4
T 22631	4.0	41	1010	7	40	5	44	-1	0.6	-5	6	-20	0.93	25.1	0.5
T 22632	0.7	11	605	17	57	5	9	1	0.7	-5	9	-20	2.20	32.7	0.6
T 22633	0.6	-2	1070	5	21	5	-5	-1	-0.5	-5	9	-20	1.33	11.1	0.5
T 22634	0.6	7	551	6	28	4	10	-1	-0.5	-5	9	-20	0.65	16.4	0.5
T 22635	2.3	11	381	100	102	2	171	13	1.7	-5	6	-20	8.21	69.2	0.4
T 22636	1.9	14	433	73	104	3	217	17	4.4	-5	7	-20	9.60	137.0	0.6
T 22637	1.3	10	316	49	167	3	170	52	1.3	7	4	-20	7.60	37.1	0.3
T 22638	2.8	10	162	35	237	1	105	92	1.1	-5	6	-20	6.49	32.8	0.3
T 22639	1.5	13	286	124	98	1	112	25	1.3	-5	4	-20	6.89	42.3	0.3
T 22640	0.9	23	1520	33	141	6	101	21	1.9	8	4	-20	7.82	95.1	0.3
T 22641	1.2	8	343	84	156	-1	122	16	1.3	-5	5	-20	7.36	60.8	0.3

Laboratory	BECQUE														
Method	INAA30														
Det. Limi	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	GS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HP PPM	IR PPB	FE %	LA PPM	LU PPM
T 22642	5.0	41	7950	13	237	6	306	-1	5.7	-5	5	-20	7.80	168.0	0.4
T 22643	0.9	9	3210	21	105	3	17	-1	1.1	-5	5	-20	3.73	47.0	0.5
T 22644	6.3	39	7060	10	97	3	104	2	1.1	-5	6	-20	2.96	44.8	0.5
T 22645	1.1	13	2750	14	115	2	13	1	1.3	-5	5	-20	2.35	49.5	0.5
T 22646	0.5	4	511	23	21	1	54	31	-0.5	-5	4	-20	14.30	18.1	0.4
T 22647	0.9	8	1000	23	50	4	32	8	0.8	-5	5	-20	6.08	47.5	0.4
T 22648	2.2	14	1890	23	30	6	153	1	-0.5	-5	6	-20	5.31	19.3	0.3
T 22649	1.1	7	1440	37	21	8	236	5	0.6	-5	4	-20	6.63	21.7	0.3
T 22650	0.9	3	788	17	60	6	153	24	5.9	-5	5	-20	5.82	199.0	0.7
T 22651	1.0	3	397	22	61	2	116	44	-0.5	-5	4	-20	7.89	11.7	0.2
T 22652	1.3	9	180	83	71	2	155	24	1.0	-5	5	-20	8.13	36.3	0.3
T 22653	1.3	7	1080	21	116	3	133	20	1.5	-5	5	-20	5.41	52.4	0.3
T 22654	1.5	15	631	83	92	2	160	9	1.2	-5	4	-20	6.85	46.0	0.3
T 22655	0.9	5	583	77	116	2	133	24	1.5	-5	4	-20	5.90	55.4	0.3
T 22656	0.9	6	485	115	137	3	175	32	1.3	-5	6	-20	5.82	50.1	0.4
T 22657	3.5	11	435	58	54	2	174	7	0.7	-5	5	-20	5.64	29.3	0.2
T 22658	1.8	12	267	56	231	1	162	23	1.3	-5	6	-20	7.23	44.0	0.4
T 22659	2.1	18	332	43	310	1	175	47	1.1	-5	5	-20	7.27	43.2	0.4
T 22660	1.7	13	404	44	207	2	187	41	1.4	-5	5	-20	7.96	46.6	0.4
T 22661	1.6	17	698	8	145	4	136	28	1.3	-5	4	-20	5.16	46.9	0.3
T 22662	1.7	24	499	18	258	2	106	61	1.8	-5	5	-20	6.52	53.7	0.3
T 22663	1.6	20	1090	41	277	4	281	14	4.0	-5	5	-20	5.39	151.0	0.4
T 22664	1.3	11	363	14	176	5	84	32	1.7	6	6	-20	4.55	31.7	0.4
T 22665	1.4	25	887	33	130	4	123	6	1.4	-5	6	-20	6.14	63.7	0.3
T 22666	2.2	31	1730	86	260	4	127	28	3.5	-5	5	-20	6.59	129.0	0.5
T 22667	1.2	11	1120	31	88	4	14	9	1.0	-5	5	-20	3.33	48.9	0.4
T 22668	1.4	1	706	9	128	3	-5	-1	1.5	-5	8	-20	1.02	57.5	0.6
T 22669	1.7	1	709	13	117	2	-5	-1	1.6	-5	9	-20	0.98	52.5	0.6
T 22670	2.2	8	1110	6	72	3	6	1	0.8	-5	10	-20	2.09	26.8	0.6
T 22671	0.7	13	856	19	65	3	15	1	1.1	-5	6	-20	5.31	43.2	0.5
T 22672	0.6	5	841	11	22	3	22	2	-0.5	-5	6	-20	10.10	14.6	0.3
T 22673	0.5	1	1400	3	117	5	55	-1	1.1	-5	7	-20	0.95	49.9	0.5
T 22674	1.8	5	468	14	385	-1	354	30	6.0	-5	6	-20	9.26	189.0	0.5
T 22675	14.8	490	847	5	148	7	52	-1	1.2	-5	7	-20	8.65	75.9	0.5
T 22676	0.7	30	738	37	41	2	122	17	0.8	-5	4	-20	12.40	11.5	0.4

Laboratory	BECQUE														
Method	INAA30														
Det. Limi	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

069176

PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HP PPM	IR PPB	FE %	LA PPM	LU PPM
T 22677	0.5	-1	1640	3	82	4	121	30	1.2	-5	5	-20	7.57	36.0	0.4
T 22678	1.0	2	555	26	19	3	117	11	0.5	-5	4	-20	6.39	11.7	0.3
T 22679	0.6	1	1770	3	131	5	98	14	2.1	-5	4	-20	6.78	62.9	0.4
T 22680	0.7	3	932	2	375	3	101	10	6.1	-5	6	-20	6.87	232.0	1.1
T 22681	1.5	3	532	23	58	1	115	21	1.6	-5	5	-20	6.88	39.5	0.4
T 22682	1.7	3	640	35	50	-1	94	25	0.8	-5	4	-20	6.50	22.8	0.3
T 22683	1.0	3	1040	25	35	1	123	22	0.9	-5	4	-20	7.20	21.7	0.3
T 22684	0.4	2	566	16	76	5	139	36	2.0	-5	6	-20	8.70	43.0	0.6
T 22685	1.3	3	-100	27	28	1	89	7	-0.5	-5	5	-20	9.71	5.9	0.3
T 22686	1.1	6	195	12	53	-1	133	5	1.3	-5	5	-20	13.40	46.8	0.4
T 22687	0.8	2	511	5	97	1	88	23	0.5	-5	4	-20	7.27	15.6	0.3
T 22688	1.6	3	585	16	89	4	110	29	0.8	-5	5	-20	7.14	27.8	0.3
T 22689	0.8	3	315	29	135	3	97	55	2.3	-5	4	-20	10.70	62.1	0.6
T 22690	1.3	5	1180	6	54	6	5	-1	0.8	-5	9	-20	2.62	23.0	0.5
T 22691	1.3	3	1470	18	22	5	5	3	-0.5	-5	11	-20	2.72	12.6	0.6
T 22692	1.2	1	1180	10	21	5	5	1	-0.5	-5	10	-20	2.55	8.1	0.6
T 22693	1.2	1	1450	2	864	5	6	1	-0.5	-5	11	-20	2.34	6.3	0.7
T 22694	1.3	8	792	6	120	4	8	-1	0.6	-5	10	-20	2.39	38.0	0.6
T 22695	1.6	12	1180	8	118	5	15	-1	0.6	-5	11	-20	0.88	24.1	0.6
T 22696	4.6	68	782	6	169	5	29	-1	1.1	-5	7	-20	5.29	87.1	0.5
T 22697	0.7	3	1320	29	33	2	131	11	0.6	-5	5	-20	7.31	21.1	0.3
T 22698	1.4	2	818	5	296	1	148	118	0.6	-5	5	-20	6.20	38.0	0.3
T 22699	2.9	47	1070	21	31	4	181	11	0.8	9	5	-20	9.36	17.7	0.3
T 22700	1.7	13	958	44	72	3	182	7	1.0	-5	5	-20	8.02	44.2	0.3
T 34801	0.6	1	216	3	7	1	44	2	-0.5	-5	2	-20	1.06	5.0	-0.2
T 34802	1.3	5	213	62	43	3	115	8	0.5	-5	5	-20	7.06	13.8	0.3
T 34803	1.5	5	312	20	51	2	124	25	0.7	7	5	-20	7.15	17.1	0.3
T 34804	1.5	8	354	55	32	3	146	10	0.5	-5	6	-20	7.47	8.4	0.4
T 34805	1.4	5	452	50	338	3	159	70	1.7	-5	5	-20	7.47	30.8	0.5
T 34806	1.5	4	388	109	71	2	131	16	0.9	-5	4	-20	7.17	15.4	0.3
T 34807	1.4	6	434	104	136	3	143	35	1.0	-5	5	-20	7.48	17.9	0.3
T 34808	1.5	4	679	5	300	2	121	122	1.6	-5	4	-20	7.65	40.9	0.3
T 34809	2.3	3	620	32	127	-1	124	32	1.4	-5	4	-20	5.24	32.9	0.4
T 34810	1.2	5	799	14	277	2	119	88	1.8	-5	4	-20	6.92	51.3	0.4
T 34811	0.9	6	1050	3	104	13	132	54	1.7	-5	3	-20	7.62	66.4	0.5

Laboratory Method	BECQUE INAA30														
Det. Limi	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200

069177

PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	SB PPM	AS PPM	BA PPM	BR PPM	CE PPM	CS PPM	CR PPM	CO PPM	EU PPM	AU PPB	HF PPM	IR PPB	FE %	LA PPM	LU PPM
T 34812	0.6	1	1860	4	56	8	166	28	1.0	-5	3	-20	5.13	25.5	0.3
T 34813	0.8	5	1180	23	180	6	177	31	1.4	-5	4	-20	7.30	50.0	0.4
T 34814	1.8	8	369	43	117	-1	278	10	1.3	-5	6	-20	5.71	55.0	0.4
T 34815	0.4	-1	-100	-2	-0	-1	-5	-1	-0.5	-5	-0	-20	0.90	-0.5	-0.2
T 34816	0.2	4	615	-2	97	10	342	33	1.3	246	8	-20	5.59	45.2	0.5

Laboratory	BECQUE															
Method	INAA30															
Det. Lim	0.200	2.000		2.000	2.000	1.000	5.000	1.000	0.500	5.000	1.000	0.000	0.050	0.500	0.200	

069178

## PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 22501	-5	0.3	-20	6.0	37	-5	-5	0.27	1	20.4	-500	-2	4	1.9	475
T 22502	-5	1.0	65	8.1	32	-5	-5	0.12	1	25.0	-500	-2	4	2.1	307
T 22503	-5	1.6	68	8.8	29	7	-5	0.16	-1	31.5	-500	-2	6	2.0	249
T 22504	-5	0.2	-20	9.8	34	-5	-5	0.02	1	20.2	-500	-2	2	2.4	151
T 22505	-5	1.0	52	7.5	36	-5	-5	0.62	1	25.4	-500	-2	3	2.2	258
T 22506	-5	2.0	70	5.0	15	-5	-5	1.65	2	12.6	-500	-2	2	2.3	141
T 22507	-5	1.3	50	4.6	13	-5	-5	1.78	1	9.8	-500	-2	2	2.1	111
T 22508	-5	1.0	58	4.6	11	-5	-5	0.93	2	23.5	-500	-2	4	2.7	118
T 22509	-5	0.9	36	2.8	26	-5	-5	0.60	2	14.5	-500	-2	-2	2.5	122
T 22510	-5	1.3	71	7.5	16	-5	-5	0.47	1	20.3	-500	-2	3	4.1	110
T 22511	-5	0.9	32	4.0	20	-5	-5	0.99	1	11.3	-500	-2	2	1.7	133
T 22512	-5	0.6	-20	1.7	12	-5	-5	2.49	1	6.8	-500	-2	-2	1.4	-100
T 22513	-5	1.7	66	5.2	20	-5	-5	1.52	1	11.7	-500	-2	3	2.3	153
T 22514	-5	0.6	29	2.3	19	-5	-5	2.46	1	7.3	-500	-2	-2	1.3	119
T 22515	-5	1.9	126	12.0	18	-5	-5	0.10	1	33.3	-500	-2	3	6.8	151
T 22516	-5	0.9	25	2.0	21	-5	-5	2.00	-1	7.8	-500	-2	-2	1.6	126
T 22517	-5	0.6	-20	1.8	18	-5	-5	3.37	-1	6.3	-500	-2	-2	1.3	105
T 22518	-5	0.8	21	2.1	21	-5	-5	1.58	1	10.1	-500	-2	-2	1.7	129
T 22519	-5	1.3	55	6.2	9	-5	-5	0.51	2	22.5	-500	-2	-2	2.6	-100
T 22520	-5	0.8	43	6.2	1	-5	-5	0.27	1	12.4	-500	-2	-2	2.3	-100
T 22521	-5	1.9	89	7.8	6	-5	-5	0.45	2	25.9	-500	-2	3	3.5	-100
T 22522	-5	2.1	113	6.2	7	-5	-5	0.30	1	17.0	-500	-2	4	2.3	-100
T 22523	-5	2.2	122	7.8	9	-5	-5	0.06	1	18.0	-500	2	3	2.9	-100
T 22524	-5	3.1	143	8.0	13	-5	-5	0.06	-1	20.3	-500	2	2	3.3	-100
T 22525	-5	1.7	73	5.8	52	-5	-5	0.22	1	22.0	-500	-2	-2	2.2	177
T 22526	-5	0.4	-20	6.8	26	-5	-5	0.24	1	25.1	-500	-2	4	2.7	104
T 22527	-5	0.4	23	3.5	33	-5	-5	0.06	-1	25.9	-500	-2	5	2.1	119
T 22528	-5	0.3	41	12.0	52	-5	-5	0.47	-1	25.5	-500	-2	3	3.2	184
T 22529	-5	0.3	-20	7.5	47	-5	-5	0.13	-1	27.4	-500	-2	6	2.6	170
T 22530	-5	0.3	38	7.6	37	-5	-5	0.06	1	25.5	-500	-2	-2	2.8	142
T 22531	-5	1.1	46	7.6	36	-5	-5	1.45	1	20.6	512	-2	3	2.7	259
T 22532	-5	1.0	47	6.0	27	-5	-5	1.16	1	16.0	-500	-2	2	1.8	159
T 22533	-5	0.5	23	15.1	44	-5	-5	0.28	2	25.6	-500	-2	3	3.2	223
T 22534	-5	0.2	80	7.4	39	-5	-5	0.11	-1	17.0	-500	-2	3	2.8	182
T 22535	-5	0.7	-20	2.9	20	-5	-5	0.26	-1	18.9	-500	-2	4	1.8	106

Laboratory Method	BECQUE INAA30														
Det. Limi	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500		2.000	2.000	0.500	

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## PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 22536	-5	0.6	23	8.2	43	-5	-5	0.04	1	20.6	-500	-2	-2	2.1	177
T 22537	-5	1.1	89	5.5	45	-5	-5	0.05	-1	25.0	-500	-2	4	2.3	180
T 22538	-5	1.6	64	5.9	50	-5	-5	0.20	1	22.2	-500	-2	-2	2.2	166
T 22539	-5	0.6	31	3.5	23	-5	-5	0.12	-1	15.8	-500	-2	2	1.6	115
T 22540	-5	0.4	29	9.0	49	-5	-5	0.51	2	21.7	-500	-2	2	2.2	171
T 22541	-5	1.5	85	2.6	34	-5	-5	0.06	-1	16.8	-500	-2	2	1.6	145
T 22542	-5	-0.2	-20	1.3	11	-5	-5	0.15	-1	8.8	-500	-2	2	0.9	-100
T 22543	-5	0.8	46	43.5	48	-5	-5	1.28	2	18.7	-500	-2	-2	8.1	273
T 22544	-5	0.9	41	5.1	49	-5	-5	1.06	-1	18.9	-500	-2	4	2.3	222
T 22545	-5	0.3	21	4.1	27	-5	-5	0.24	1	21.2	-500	-2	2	2.2	111
T 22546	-5	0.5	34	14.7	38	-5	-5	0.06	-1	14.9	-500	-2	2	3.1	177
T 22547	-5	0.9	122	2.4	25	-5	-5	0.07	-1	17.8	-500	-2	2	1.8	104
T 22548	-5	0.6	37	4.8	22	-5	-5	0.21	-1	14.6	-500	-2	2	1.4	125
T 22549	-5	0.4	26	7.8	25	-5	-5	0.51	1	16.0	-500	-2	-2	1.9	166
T 22550	-5	-0.2	-20	-0.2	0	-5	-5	-0.01	-1	-0.5	-500	-2	-2	-0.5	-100
T 22551	-5	-0.2	20	3.1	45	-5	-5	0.04	-1	19.0	-500	-2	4	1.6	129
T 22552	-11	2.9	166	2.4	18	-5	-5	0.16	-1	28.1	-500	-2	5	3.2	121
T 22553	-5	1.8	90	3.1	16	-5	-5	0.19	1	18.6	-500	-2	3	2.7	105
T 22554	-5	2.7	145	10.1	13	-5	-5	0.20	-1	19.2	-500	-2	2	3.3	-100
T 22555	-5	1.0	49	8.9	20	-5	-5	0.87	1	13.2	-500	-2	2	1.5	111
T 22556	-5	0.6	-20	6.7	18	-5	-5	1.26	1	16.2	-500	-2	-2	1.4	112
T 22557	-5	1.4	65	4.1	21	-5	-5	0.49	-1	13.8	-500	-2	2	1.3	-100
T 22558	-5	1.0	33	8.9	23	-5	-5	0.93	-1	22.6	-500	-2	-2	2.1	190
T 22559	-5	1.5	94	6.8	30	-5	-5	0.36	-1	24.5	-500	-2	4	1.9	122
T 22560	-5	1.2	66	7.9	30	-5	-5	0.35	-1	29.8	590	-2	4	2.4	143
T 22561	-11	1.0	63	8.3	27	-5	-5	0.41	1	27.8	-500	-2	6	1.8	112
T 22562	-5	0.7	44	4.5	25	-5	-5	0.33	-1	25.4	-500	-2	3	1.6	106
T 22563	-5	1.0	39	6.3	22	-5	-5	0.74	1	25.8	-500	-2	3	1.9	-100
T 22564	-12	1.0	32	6.7	30	-5	-5	0.30	1	35.4	-500	-2	6	2.2	118
T 22565	-5	0.9	52	7.1	27	-5	-5	0.41	1	28.6	-500	-2	2	1.9	122
T 22566	-5	1.0	43	10.6	25	-5	-5	0.67	1	28.2	-500	-2	3	2.1	133
T 22567	-5	1.1	57	17.2	30	-5	-5	0.55	2	25.0	665	-2	3	3.6	211
T 22568	-5	1.1	43	17.9	31	-5	-5	0.75	1	25.1	547	-2	4	4.4	162
T 22569	-5	0.5	-20	3.7	12	-5	-5	1.09	1	10.8	-500	-2	2	1.2	-100
T 22570	-11	1.6	102	8.1	26	-5	-5	0.84	-1	22.9	544	-2	5	2.5	139

Laboratory Method	BECCUE INAA30															
Det. Limi	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500		2.000	2.000	0.500		

## PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 22571	-5	2.0	92	5.5	37	-5	-5	0.29	-1	26.2	-500	-2	5	1.8	110
T 22572	-5	1.6	85	5.5	19	-5	-5	0.38	-1	15.9	-500	-2	3	1.6	-100
T 22573	-5	1.9	101	5.0	21	-5	-5	0.71	1	18.6	-500	-2	3	1.7	-100
T 22574	-5	1.4	79	10.1	30	-5	-5	0.82	-1	25.0	-500	-2	3	1.9	122
T 22575	-5	1.2	76	7.9	32	-5	-5	0.40	1	28.5	-500	-2	4	1.9	105
T 22576	-5	0.9	51	6.3	24	-5	-5	0.36	1	23.3	-500	-2	5	1.7	-100
T 22577	-5	0.6	51	5.9	22	-5	-5	0.24	-1	23.4	-500	-2	4	1.9	104
T 22578	-5	0.2	-20	4.0	14	-5	-5	0.48	-1	22.4	-500	-2	4	1.4	102
T 22579	-5	0.7	57	6.0	10	-5	-5	0.62	2	19.3	-500	-2	4	2.4	-100
T 22580	-5	1.1	39	10.7	23	-5	-5	0.59	-1	24.0	-500	-2	4	1.9	114
T 22581	-5	1.6	70	7.1	15	-5	-5	0.83	2	16.3	-500	-2	3	3.5	161
T 22582	-5	2.4	78	7.9	10	-5	-5	1.40	1	14.7	-500	-2	-2	3.1	-100
T 22583	-5	0.9	-20	9.1	18	-5	-5	0.69	1	18.9	-500	-2	2	4.0	-100
T 22584	-5	1.7	41	11.8	18	-5	-5	0.98	2	30.1	-500	-2	2	4.6	131
T 22585	-5	1.9	75	7.3	34	-5	-5	0.67	2	19.5	-500	-2	2	2.6	155
T 22586	-5	2.1	95	8.6	33	-5	-5	0.45	1	27.2	-500	-2	3	2.6	147
T 22587	-5	2.1	72	5.7	25	-5	-5	0.54	1	20.0	-500	-2	2	2.6	114
T 22588	-5	2.2	113	7.2	23	-5	-5	0.34	1	20.1	-500	-2	5	2.7	101
T 22589	-5	2.1	99	10.6	32	-5	-5	0.34	1	27.0	-500	-2	-2	2.9	125
T 22590	-5	2.2	97	9.7	32	-5	-5	0.39	1	26.6	-500	-2	3	2.7	130
T 22591	-5	1.7	78	7.1	29	-5	-5	0.32	2	22.6	-500	-2	2	2.5	124
T 22592	-5	2.0	102	8.4	28	-5	-5	0.19	1	22.6	-500	-2	2	2.6	-100
T 22593	-5	3.0	134	4.3	7	-5	-5	0.05	1	27.0	-500	-2	3	3.0	-100
T 22594	-5	1.5	78	6.6	6	-5	-5	0.15	1	25.8	-500	-2	2	3.1	-100
T 22595	-5	2.3	121	6.8	11	-5	-5	0.16	1	25.4	-500	-2	2	3.0	-100
T 22596	-5	2.6	137	10.8	28	-5	-5	0.11	1	25.6	-500	-2	4	2.8	106
T 22597	-5	1.6	46	14.5	56	-5	-5	1.30	-1	47.6	-500	-2	10	3.0	171
T 22598	-5	1.0	45	9.1	51	-5	-5	0.10	1	28.2	-500	-2	3	3.5	130
T 22599	-5	3.2	149	7.7	45	-5	-5	0.18	1	17.9	-500	-2	-2	2.0	126
T 22600	-5	-0.2	-20	-0.2	0	-5	-5	0.01	-1	-0.5	-500	-2	-2	-0.5	-100
T 22601	-5	0.4	-20	1.4	1	-5	-5	0.05	-1	2.6	-500	-2	-2	0.9	-100
T 22602	-5	1.1	49	5.0	13	-5	-5	0.32	1	12.7	-500	-2	2	1.9	-100
T 22603	-5	1.0	26	5.9	18	-5	-5	0.71	1	20.2	-500	-2	2	2.2	108
T 22604	-5	1.0	-20	4.3	19	-5	-5	3.01	1	26.7	-500	-2	3	1.8	141
T 22605	-5	1.7	44	9.8	32	-5	-5	0.37	-1	30.1	-500	-2	2	2.7	247

Laboratory Method	BECCQUE INAA30														
Det. Limit	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500		2.000	2.000	0.500	

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## PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TR PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 22606	-5	1.0	41	8.8	22	-5	-5	0.41	1	19.3	-500	-2	2	2.2	156
T 22607	-5	1.6	70	5.8	13	-5	-5	0.58	1	15.6	-500	-2	2	2.0	101
T 22608	-5	1.7	74	8.0	19	-5	-5	0.58	1	21.5	-500	-2	3	2.6	131
T 22609	-5	3.6	189	7.5	15	-5	-5	0.13	1	22.5	-500	-2	3	3.0	157
T 22610	-5	2.0	102	7.9	24	-5	-5	0.35	2	20.0	-500	-2	3	2.3	130
T 22611	-5	1.8	98	8.0	27	-5	-5	0.23	1	19.9	-500	-2	2	2.6	143
T 22612	-5	2.6	159	7.0	19	-5	-5	0.29	2	14.9	-500	-2	2	2.8	-100
T 22613	-5	1.4	59	10.1	31	-5	-5	0.13	-1	28.8	-500	-2	5	2.4	140
T 22614	-5	1.1	46	8.6	31	-5	-5	0.17	-1	26.7	-500	-2	3	2.3	136
T 22615	-5	1.0	49	4.3	14	-5	-5	0.21	-1	10.4	-500	-2	-2	1.4	-100
T 22616	-5	1.2	46	4.1	8	-5	-5	0.28	1	11.3	-500	-2	2	1.6	-100
T 22617	-5	2.5	111	5.2	9	-5	-5	0.05	1	14.3	-500	-2	2	2.2	-100
T 22618	-5	1.1	30	3.3	11	-5	-5	0.62	1	12.7	-500	-2	2	1.5	-100
T 22619	-5	2.1	100	5.5	14	-5	-5	0.71	1	18.5	-500	-2	3	2.8	102
T 22620	-5	1.8	69	7.3	14	-5	-5	0.55	2	23.5	-500	-2	2	2.8	109
T 22621	-5	2.1	79	3.9	9	-5	-5	0.92	1	16.2	-500	-2	-2	2.3	-100
T 22622	-5	1.8	36	2.9	24	-5	-5	1.55	1	10.4	-500	-2	-2	2.1	146
T 22623	-5	2.1	65	2.4	20	-5	-5	1.61	1	10.3	-500	-2	-2	2.3	118
T 22624	-5	1.5	44	4.0	37	-5	-5	1.84	2	8.4	-500	-2	-2	1.9	229
T 22625	-5	2.3	65	1.9	26	-5	-5	1.61	1	7.6	-500	-2	-2	1.7	164
T 22626	-5	1.7	42	2.1	24	-5	-5	5.07	4	6.9	-500	-2	-2	1.4	202
T 22628	-5	2.0	88	6.8	13	-5	-5	0.24	1	16.6	-500	-2	3	3.4	-100
T 22629	-5	2.3	100	6.3	31	-5	-5	0.57	1	18.0	-500	-2	4	2.2	126
T 22630	-5	2.4	116	9.3	29	-5	-5	0.08	1	17.7	-500	-2	3	2.3	107
T 22631	-5	2.9	131	2.5	16	-5	-5	0.07	1	13.8	-500	-2	4	3.1	-100
T 22632	-5	2.1	125	4.0	11	-5	-5	0.18	1	17.9	-500	-2	4	3.8	-100
T 22633	-5	2.7	150	1.8	8	-5	-5	0.30	1	15.3	-500	-2	3	3.3	-100
T 22634	-5	2.0	100	1.9	12	-5	-5	0.28	1	12.5	-500	-2	4	3.3	-100
T 22635	-5	0.8	-20	7.2	36	-5	-5	0.47	-1	28.0	-500	-2	4	2.6	141
T 22636	-5	0.7	51	18.9	60	-5	-5	0.05	2	27.9	-500	-2	3	3.7	213
T 22637	-5	0.8	41	5.5	53	-5	-5	0.12	1	18.6	-500	-2	4	2.3	187
T 22638	-5	0.5	22	4.8	51	-5	-5	0.10	-1	25.2	-500	-2	4	2.5	139
T 22639	-5	0.4	24	5.1	30	-5	-5	0.59	1	19.6	-500	-2	2	2.0	145
T 22640	-5	3.1	168	9.1	54	-5	-5	0.09	-1	26.9	-500	-2	6	2.0	211
T 22641	-11	0.6	24	7.1	38	-5	-5	0.42	-1	25.9	-500	-2	6	2.0	127

Laboratory	BECQUE														
Method	INAA30														
Det. Limi	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500			2.000	2.000	0.500

PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 22642	-5	3.0	169	19.6	50	-5	-5	0.05	-1	29.7	-500	-2	-2	2.6	117
T 22643	-5	1.7	80	6.7	12	-5	-5	0.22	1	16.1	-500	-2	2	3.3	-100
T 22644	17	2.3	121	6.7	15	-5	-5	0.07	1	19.8	-500	-2	5	3.2	-100
T 22645	-5	1.8	79	8.2	14	-5	-5	0.19	1	13.9	-500	-2	2	3.1	-100
T 22646	-5	0.9	49	2.7	39	-5	-5	0.09	-1	13.2	-500	-2	2	2.1	212
T 22647	-5	2.1	108	4.4	25	-5	-5	0.08	-1	22.8	-500	-2	4	2.3	109
T 22648	-12	2.1	107	2.5	29	-5	-5	0.05	-1	26.9	-500	-2	6	2.1	105
T 22649	-5	3.0	157	2.7	42	-5	-5	0.07	-1	19.3	-500	-2	4	1.9	202
T 22650	-5	1.6	98	25.7	43	-5	-5	0.12	-1	22.9	-500	-2	-2	5.5	188
T 22651	-5	1.1	44	2.3	39	-5	-5	0.06	1	23.2	-500	-2	4	1.8	136
T 22652	-5	0.5	29	4.4	28	-5	-5	0.35	-1	21.6	-500	-2	4	2.0	124
T 22653	-5	2.0	100	7.0	33	-5	-5	1.06	1	21.4	-500	-2	3	2.2	166
T 22654	-5	1.0	46	5.7	28	-5	-5	1.49	1	23.7	-500	-2	4	1.9	139
T 22655	-5	0.5	27	7.3	28	-5	-5	1.96	2	21.8	-500	-2	-2	2.0	140
T 22656	-5	0.5	36	6.5	30	-5	-5	1.02	1	28.0	-500	-2	2	2.3	201
T 22657	-5	0.7	34	3.2	52	-5	-5	0.22	1	21.7	-500	-2	5	1.6	172
T 22658	-5	0.3	29	6.2	43	-5	-5	0.18	1	27.4	-500	-2	4	2.4	200
T 22659	-5	0.5	29	6.5	48	-5	-5	0.48	2	26.7	-500	-2	4	2.4	200
T 22660	-5	0.5	35	7.2	46	-5	-5	0.26	2	23.9	-500	-2	4	2.6	177
T 22661	-11	1.2	69	6.0	37	-5	-5	0.28	-1	23.5	-500	-2	6	2.3	158
T 22662	-13	0.7	48	7.2	42	-5	-5	0.14	1	32.0	-500	-2	6	2.5	190
T 22663	-5	2.5	137	17.5	36	-5	-5	0.26	1	29.4	-500	4	3	2.4	139
T 22664	-5	1.8	109	6.6	24	-5	-5	0.04	1	18.4	-500	-2	4	2.4	140
T 22665	-12	1.6	97	7.3	29	-5	-5	0.14	1	29.3	-500	3	6	2.1	123
T 22666	-16	1.2	49	15.5	33	-5	-5	0.53	-1	29.1	-500	-2	8	3.2	145
T 22667	-5	1.0	55	5.5	9	-5	-5	0.94	1	27.5	-500	-2	4	2.6	126
T 22668	-5	2.2	100	9.2	8	-5	-5	0.34	-1	22.2	-500	-2	3	4.0	-100
T 22669	-5	1.9	99	8.2	9	-5	-5	0.41	1	26.8	-500	-2	4	4.0	-100
T 22670	-5	2.5	130	3.9	10	-5	-5	0.08	1	28.1	-500	-2	4	3.7	-100
T 22671	-5	1.7	81	6.3	14	-5	-5	0.77	1	15.2	-500	-2	3	3.3	104
T 22672	-16	1.9	110	1.8	13	-5	-5	0.07	1	33.9	-500	-2	8	2.3	-100
T 22673	-18	2.8	157	7.6	6	-5	-5	0.05	2	42.4	-500	3	9	3.6	-100
T 22674	-5	-0.4	-20	26.7	65	-5	-5	0.49	2	40.6	-500	-2	3	3.5	229
T 22675	-26	2.9	136	7.0	30	-5	-5	0.10	1	36.4	-500	-2	14	3.0	106
T 22676	-5	1.2	47	2.4	47	-5	-5	0.04	-1	21.0	-500	-2	4	2.5	227

Laboratory Method	BECCQUE INAA30														
Det. Limi	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500		2.000	2.000	0.500	

069183

PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RB PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 22677	-5	1.8	74	6.5	37	-5	-5	0.14	1	19.3	-500	-2	-2	2.6	171
T 22678	-10	1.0	59	2.7	40	-5	-5	0.04	-1	22.7	-500	-2	5	2.0	195
T 22679	-5	2.4	122	9.2	36	-5	-5	0.05	-1	15.7	-500	-2	-2	2.7	246
T 22680	-5	1.0	24	27.7	51	-5	-5	0.10	2	22.6	-500	-2	-2	7.3	182
T 22681	-5	0.8	47	7.0	40	-5	-5	0.08	-1	20.4	-500	-2	4	2.4	165
T 22682	-5	1.0	34	4.2	34	-5	-5	0.15	-1	18.8	-500	-2	3	2.1	137
T 22683	-5	1.8	59	4.4	39	-5	-5	0.15	1	21.4	-500	-2	3	2.2	121
T 22684	-5	1.8	90	8.0	48	-5	-5	0.10	2	24.9	-500	-2	4	3.8	166
T 22685	-5	0.3	-20	2.0	46	-5	-5	0.04	-1	19.0	-500	-2	2	2.0	118
T 22686	-5	0.3	36	7.0	45	-5	-5	0.04	1	21.5	-500	-2	-2	2.8	115
T 22687	-5	1.0	51	2.8	41	-5	-5	0.05	1	18.9	-500	-2	4	2.2	113
T 22688	-5	1.3	81	4.8	44	-5	-5	0.05	-1	20.6	-500	-2	2	2.3	153
T 22689	-5	0.4	33	10.6	48	-5	-5	0.13	1	18.9	-500	-2	3	3.7	265
T 22690	-10	2.4	127	3.7	13	-5	-5	0.04	1	29.8	-500	-2	5	3.5	-100
T 22691	-13	2.3	126	2.0	10	-5	-5	0.22	1	24.3	-500	-2	7	3.8	109
T 22692	-5	2.1	121	1.9	11	-5	-5	0.04	1	28.6	-500	-2	5	4.4	-100
T 22693	-14	2.3	139	1.6	14	-5	-5	0.04	1	28.7	-500	-2	7	4.6	-100
T 22694	-10	1.8	122	4.1	14	-5	-5	0.07	1	35.0	-500	-2	5	4.1	-100
T 22695	-5	2.0	116	4.0	11	-5	-5	0.07	1	56.8	-500	-2	4	4.2	-100
T 22696	-13	2.0	89	8.2	19	-5	-5	0.14	-1	29.4	-500	-2	7	3.1	-100
T 22697	-5	0.8	43	2.8	35	-5	-5	0.04	-1	22.1	-500	-2	4	1.8	130
T 22698	-5	0.4	-20	3.5	60	-5	-5	0.03	1	27.0	-500	-2	2	2.2	101
T 22699	-5	1.3	69	3.4	43	-5	-5	0.03	-1	20.5	-500	-2	3	2.1	127
T 22700	-5	0.9	47	4.6	34	-5	-5	0.04	1	23.2	-500	-2	2	1.9	104
T 34801	-5	0.3	20	0.7	9	-5	-5	0.04	-1	6.1	-500	-2	-2	0.7	-100
T 34802	-5	0.5	30	2.5	30	-5	-5	0.09	-1	19.2	-500	-2	4	2.0	-100
T 34803	-5	0.6	32	3.2	42	-5	-5	0.05	-1	23.2	-500	-2	4	2.2	211
T 34804	-5	0.5	26	2.2	37	-5	-5	0.06	1	27.5	-500	-2	4	2.3	138
T 34805	-5	0.8	37	7.4	45	-5	-5	0.15	2	25.3	-500	-2	3	3.2	174
T 34806	-5	0.6	23	3.9	30	-5	-5	0.30	1	21.7	-500	-2	2	2.3	114
T 34807	-10	0.6	44	4.6	33	-5	-5	0.20	1	24.5	-500	-2	5	2.5	126
T 34808	-5	0.9	54	7.1	54	-5	-5	0.25	1	21.8	-500	-2	-2	2.3	169
T 34809	-5	0.9	28	5.6	34	-5	-5	0.93	-1	18.0	-500	-2	2	2.4	167
T 34810	-5	1.4	55	8.2	44	-5	-5	0.80	1	17.8	-500	-2	2	2.6	190
T 34811	-5	0.7	163	9.6	41	-5	-5	1.02	1	15.2	-500	-2	-2	3.7	246

Laboratory Method	BEQUE INAA30														
Det. Limi	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500		2.000	2.000	0.500	

069184

## PROJECT: WEST SEDGWICK AREA - SOIL SAMPLING PROGRAMME

SAMPLE NUMBER	MO PPM	K %	RE PPM	SM PPM	SC PPM	SE PPM	AG PPM	NA %	TA PPM	TH PPM	SN PPM	W PPM	U PPM	YB PPM	ZN PPM
T 34812	-5	2.2	123	4.8	41	-5	-5	1.69	-1	14.4	-500	-2	-2	2.3	198
T 34813	-5	1.5	94	6.6	44	-5	-5	0.43	-1	19.7	-500	-2	3	2.4	311
T 34814	-5	-0.2	-20	7.2	33	-5	-5	1.85	1	26.1	-500	-2	3	2.5	175
T 34815	-5	-0.2	-20	-0.2	0	-5	-5	0.01	-1	-0.5	-500	-2	-2	-0.5	-100
T 34816	-5	1.1	111	8.1	13	-5	-5	1.21	1	17.5	-500	4	-2	3.4	107

Laboratory	BECQUE														
Method	INAA30														
Det. Limi	5.000	0.200	0.000	0.200	5.000	5.000	5.000	0.050	1.000	0.500		2.000	2.000	0.500	

069186

APPENDIX 5

WS4 Drill Log

WEST SEDGWICK

DIAMOND DRILLHOLE : WSO04

PROJECT IDEN : WEST\_SEDGW START DATE : 11 JAN 87 COMPLETION DATE : 27 NOV 87 LOGGED BY: SCOTT HALLEY  
 COLLAR NORTHING: 346903.50 COLLAR EASTING : 381385.81 COLLAR ELEVATION: 527.40 GRID AZIMUTH : 0.00  
 DRILLED BY : W.HOWE TOTAL LENGTH : 229.80 CORE/HOLE SIZE : NQ

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING	ELEVATION
000	0.00		45.00	-59.00	346903.50	381385.81	527.40
001	22.50		45.50	-58.00			
002	65.00		46.00	-55.50			
003	105.00		46.00	-54.25			
004	145.00		47.00	-52.00			
005	185.00		47.00	-52.00			
006	229.80		47.00	-52.00			

R HED  
 R HED  
 R HED  
 R HED

This hole was drilled to test for massive sulphide or high grade Cu and/or Ag and/or Au mineralisation associated with an EM anomaly 100m beneath 381400E, 7000N (Comstock grid), adjacent to inferred Sedgwick fault.

	Interval From (m) To (m)	Description	Unit
	0.00 12.40	OVERBURDEN.	
R	0.00 39.00	HQ	
R	0.00 12.40	Owen Conglomerate scree	
	12.40 99.60	HORNBLLENDE PHYRIC FELDSPAR PHYRIC PORPHYRITIC ANDESITE: darker green. TEXTURE: weakly foliated, fractured, porphyritic.	
R	12.40 99.60	Massive andesite with hornblende phenocrysts up to 10mm and 10% plagioclase phenocrysts. Contains occasional clasts (xenoliths?). Weakly cleaved with weak pervasive propylitic alteration. The hornblende cannot be distinguished where the cleavage is more penetrative.	
R	12.40 99.60		
	12.40 - 33.00	100% PORPHYRITIC ANDESITE. ALTERATION: strongly weathered.	
R	39.00 229.80	NQ	
	99.60 99.70	FAULT.	
	99.70 188.70	FELDSPAR PHYRIC PORPHYRITIC ANDESITE: darker green. TYPIFYING MINERALS: chlorite. STRUCTURE: moderately broken core with minor pug zones. TEXTURE: weakly foliated, fine grained.	

069187

R.G.C. Exploration Pty Ltd  
WEST SEDGWICK  
DIAMOND DRILLHOLE : W5004 (CONTINUED)

	Interval		Description	Unit
	From (m)	To (m)		
			MINERALOGY: 1% veins of carbonate, patchy chlorite, 0.1% veins of haematite.	
R	99.70	188.70	Massive fine grained andesite, moderately cleaved. 116.00 - 141.00 100% PORPHYRITIC ANDESITE. STRUCTURE: strongly broken core with minor pug zones. 183.20 - 183.40 100% FAULT.	
	188.70	193.80	FAULT: purple green. TYPIFYING MINERALS: silicified. STRUCTURE: strongly broken core with prominent pug zones. TEXTURE: strongly foliated.	
R	188.70	193.80	Major fault zone with patchy pink silicification and pale green sericitic alteration between major pug zones.	
R	188.70	193.80		
	193.80	202.60	SILTY EPICLASTIC: light grey. STRUCTURE: moderately broken core. MINERALOGY: 2.5% veins of carbonate.	
	202.60	209.10	FELDSPAR PHYRIC SANDY ANDESITIC EPICLASTIC: grey green. STRUCTURE: moderately broken core.	
R	202.60	209.10	Contains reworked shale clasts	
	209.10	210.80	LINESTONE: light red. TYPIFYING MINERALS: hematite, silicified.	
R	209.10	210.80	Pink hematitic limestone with cherty silicification.	
	210.80	229.80	HORNBLENDE PHYRIC FELDSPAR PHYRIC PORPHYRITIC ANDESITE: dark red. TYPIFYING MINERALS: hematite. TEXTURE: brecciated, porphyritic. MINERALOGY: 10% breccia fillings of carbonate.	

**OPEN FILE**

E.L.'s 102/87 & 55/89  
QUEENSTOWN - MT. DARWIN AREA  
ANNUAL REPORT FOR THE PERIOD  
APRIL 1991 to MARCH 1992

**MICROFILMED**

VOLUME 2

92-3373.

<b>MINES</b>	
File Ref.	
17 JUL 1992	
Doc. Ref.	
Action Officer	Initials
Covering Letter	
EL102/87 Folio 29	
EL55/89 Folio 107	
Resubmit to	Date

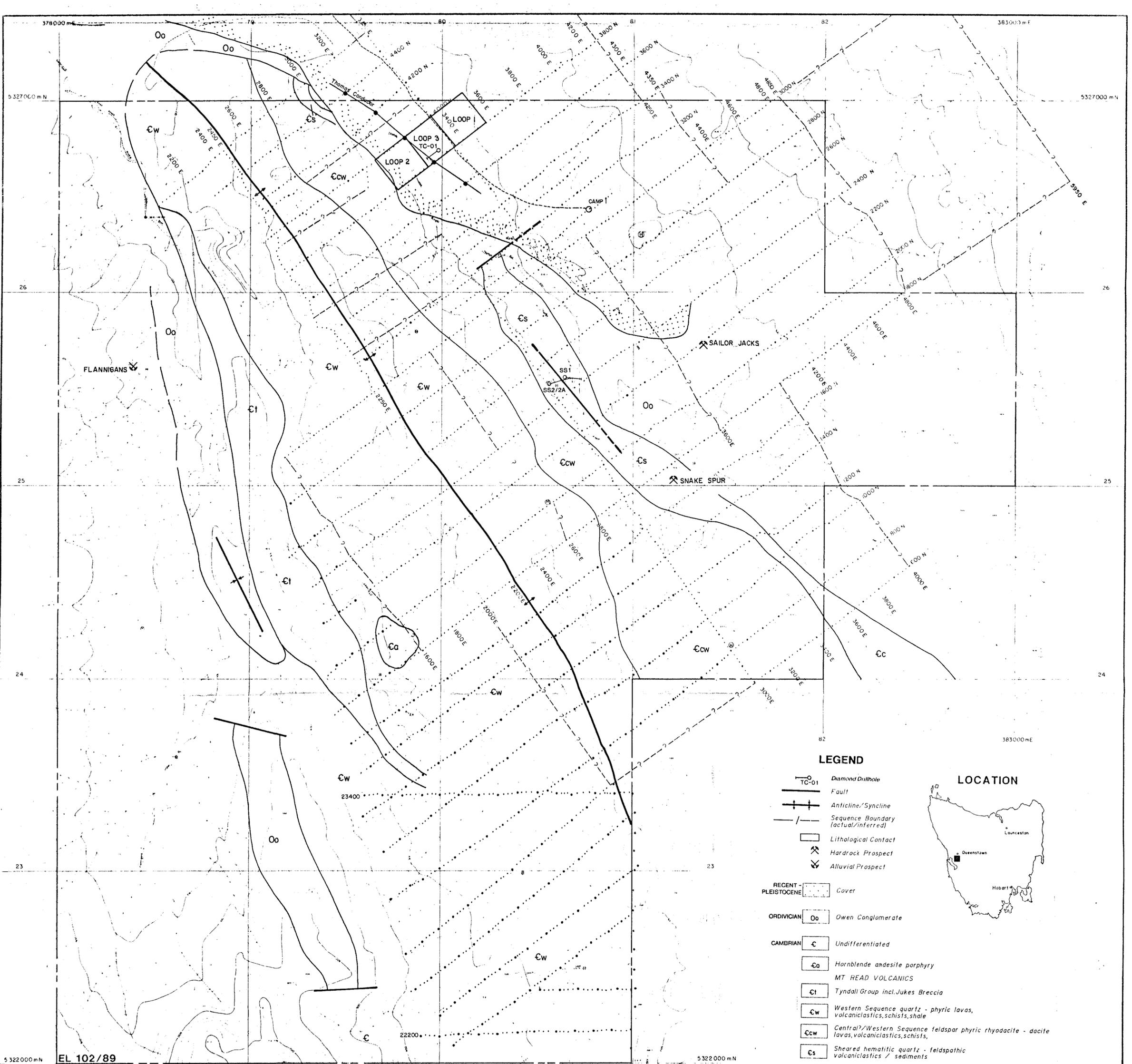
Compiled by: S.W. Halley  
 Geologist

Endorsed by: M.J. Fleming  
 Senior Exploration Geologist

June, 1992

Report no.: T/92/13

- Distribution:
- o RGCE Hobart
  - o RGCE Zeehan
  - o BHPM Melbourne
  - Dept. of Mines Tas.



**LEGEND**

- Diamond Drillhole
- Fault
- Anticline/Syncline
- Sequence Boundary (actual/inferred)
- Lithological Contact
- Hardrock Prospect
- Alluvial Prospect
- RECENT - PLEISTOCENE Cover
- ORDIVICIAN Owen Conglomerate
- CAMBRIAN Undifferentiated
- Hornblende andesite porphyry
- MT READ VOLCANICS
- Tyndal Group incl. Jukes Breccia
- Western Sequence quartz - phytic lavas, volcanoclastics, schists, shale
- Central/Western Sequence feldspar phytic rhyodacite - dacite lavas, volcanoclastics, schists, shales
- Sheared hematitic quartz - feldspathic volcanoclastics / sediments
- Central Sequence - Mt Darwin rhyolite lavas and volcanoclastics



SCALE 1:10000  
0 500 1000 metres

**92-3373**

069190

PLATE 1

BHP-Utah Minerals International Asia Pacific Division - Exploration Department		
EL 102/87, GARFIELD, TASMANIA		
Drill Hole Location Down Hole EM Loop Location and Summary Geology		
Prepared J.Cameron	Date Oct 91	Centre Melb 91
Drawn Everyone	Project No.	Drawing No.
Checked J.Cameron		<b>A1- 2498</b>

EL 102/89

**LOCATION**



**LEGEND**

**DRILLHOLE GRAPHIC LOG GEOLOGY**

- GLACIAL Glacial
- Clay
- GORDON LIMESTONE Limestone
- Limey Shale
- Limey Siltstone
- OWEN CONGLOMERATE Quartzite
- Sandstone

**INTERPRETED CROSS SECTION GEOLOGY**

- PLEISTOCENE Glacial Moraine, outwash gravels
- ORDOVICIAN Gordon Limestone
- Owen Conglomerate - siliceous hematite stained quartz rich boulder conglomerate and pink quartz sandstone

**MT READ VOLCANICS**

- Sheared hematitic fine grained quartzo-feldspathic epiclastics, sandstone, siltstone and minor shale
- CAMBRIAN Feldspar + quartz phyrlic blocky - columnar jointed rhyodacite - dacite lavas. Minor rhyolite.
- Feldspar dominant + quartz phyrlic fine - coarse grained crystal - lithic volcanoclastics including pumic debris, ash, tuff and rare ignimbrite

Fault (actual/inferred)

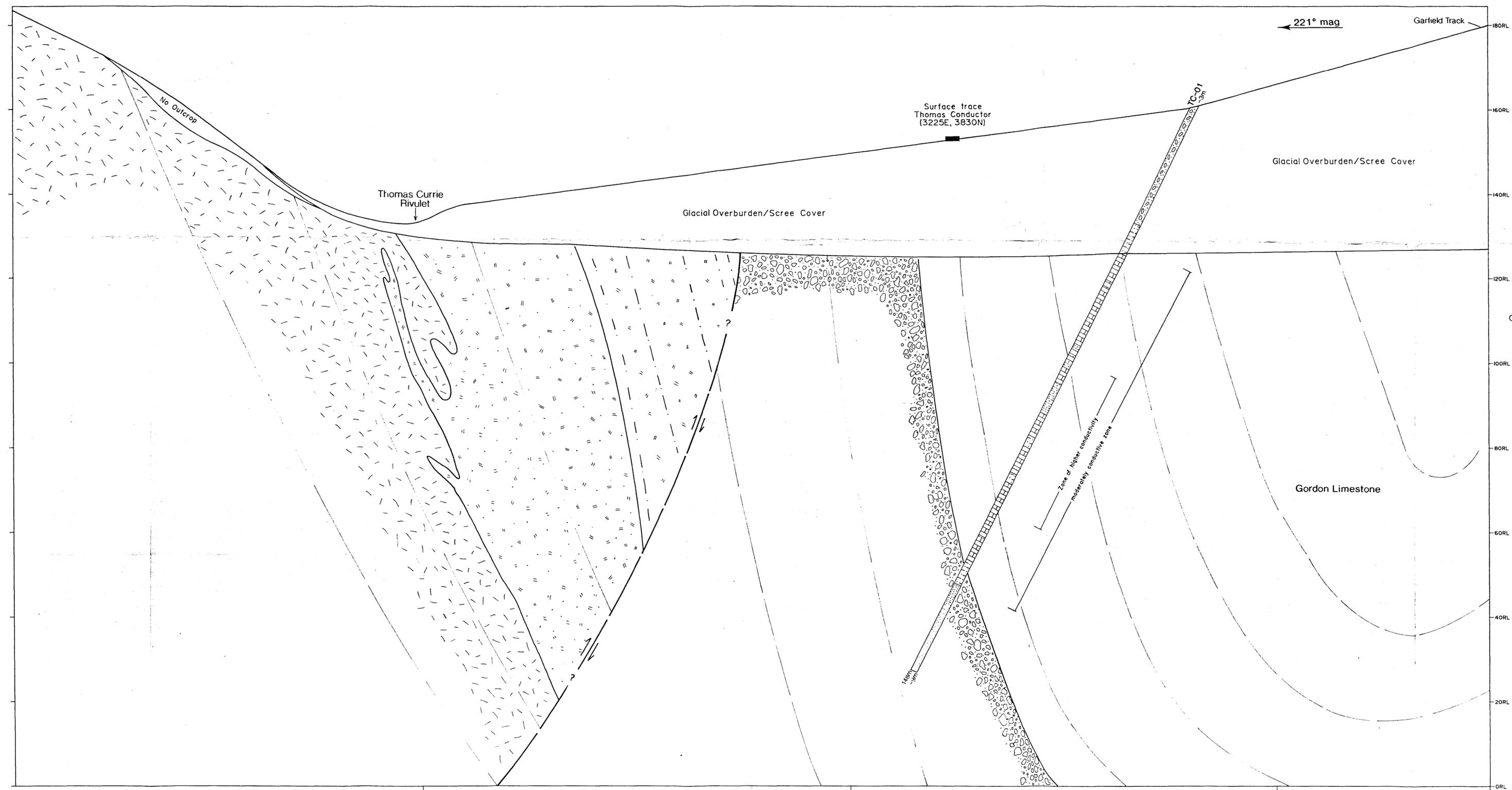
Scale 1:500  
0 10 20 30 40 metres

**92-3373.06919**

**BHP Minerals**  
Asia Pacific Division

**GARFIELD BASE METALS, TASMANIA**  
**DRILLHOLE TC-01 WITH ROCKTYPE**  
**and CROSS-SECTION 3830N**

Prepared: J. Cameron	Date: Oct. 1991	Centre: Melbourne
Drawn: F. Barlow/ustn	Project No.: B57	<b>Plate 2</b>
Checked:	Drawing No.: AI-2499	



3200E

3200E

3300E

0RL

20RL

40RL

60RL

80RL

100RL

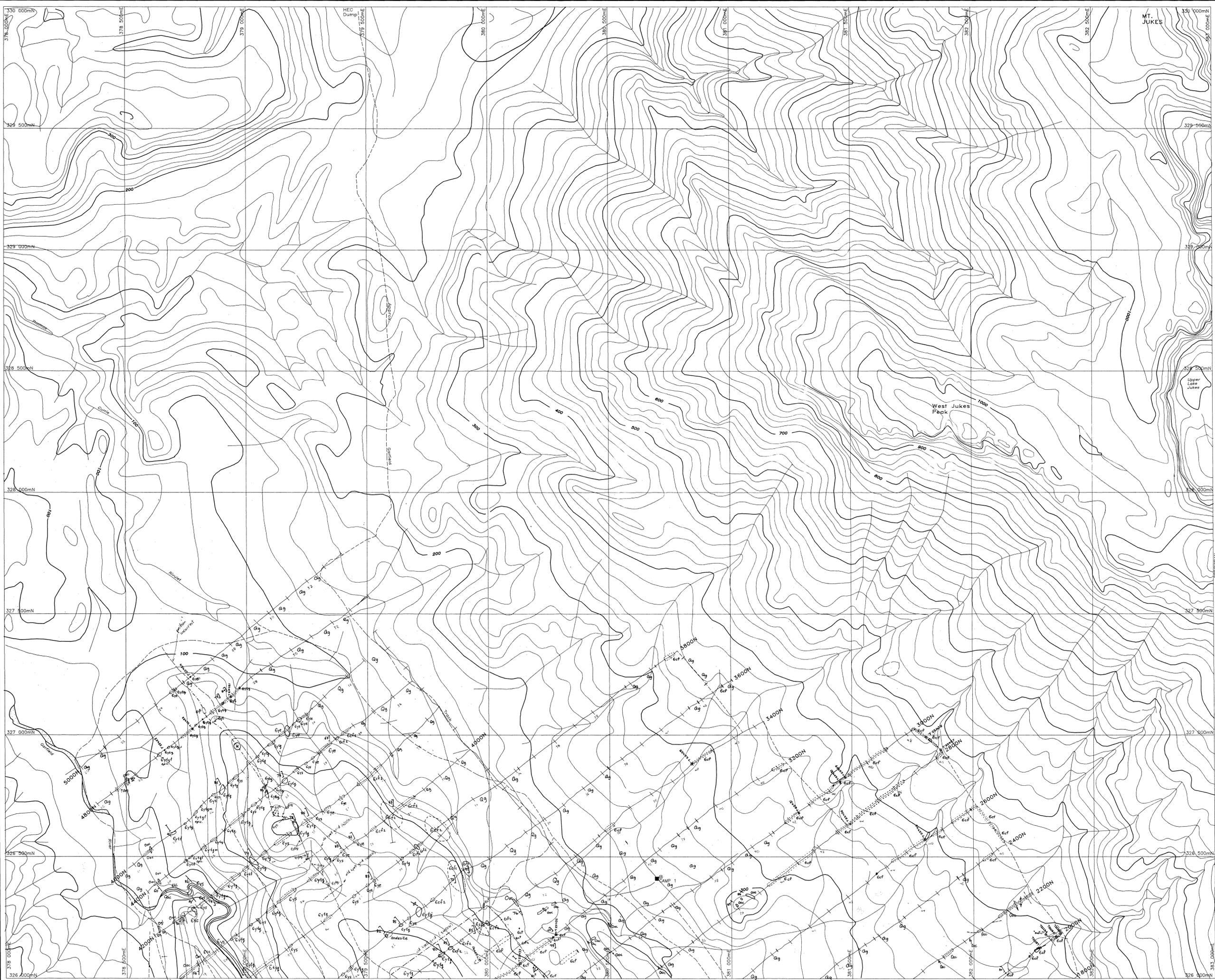
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140RL

160RL

180RL

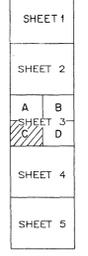
IBORL



**LEGEND**

Qg	ALLUVIUM, SCREE, TALUS AND GLACIAL DEPOSITS
Qgl	CORDON LIMESTONE, COMMONLY WEATHERS TO BLACK "PUG"
Qoc	OWEN CONGLOMERATE AND SANDSTONE
etc	COARSE VOLCANICLASTIC CONGLOMERATE AND SANDSTONE
eta	BROWN-WEATHERING ANDESITIC ROCKS, FELDSPAR & HORNBLENDE PHYRIC
eyt	VOLCANICLASTIC GREYWACKE, SANDSTONE AND MUDSTONE
eyf	FINE-GRAINED WHITE LAVA, INTRUSIVES & JUVENILE VOLCANICLASTICS (a) QUARTZ PHYRIC (Y) FELDSPAR PHYRIC (m) MUSCOVITE PHYRIC
eyg	GREEN CRYSTAL-RICH EPICLASTIC FELDSPAR-PHYRIC WITH SUBORDINATE QUARTZ & SMALL LITHIC FRAGMENTS, INTERBEDDED WITH DARK GREY SHALES
ecf	MASSIVE FELSIC FELDSPAR-PHYRIC LAVA, UNDIFFERENTIATED
ecf1	CRYSTAL-RICH, GRANULAR FELDSPAR-RICH GROUNDMASS, LACKING COARSE PHENOCRYSTS
ecf2	SPARSE COARSE-GRAINED FELDSPAR PHENOCRYSTS IN FINE-GRAINED GROUNDMASS
ecf3	GRANULAR CRYSTAL-RICH GROUNDMASS WITH SPARSE COARSE-GRAINED FELDSPAR PHENOCRYSTS
eca	DARK GREY, BEDDED SHALES

**SHEET LAYOUT**



060102

**RGC EXPLORATION PTY. LIMITED**  
INCORPORATED IN NEW SOUTH WALES

E.L. 102/87 CLARK VALLEY

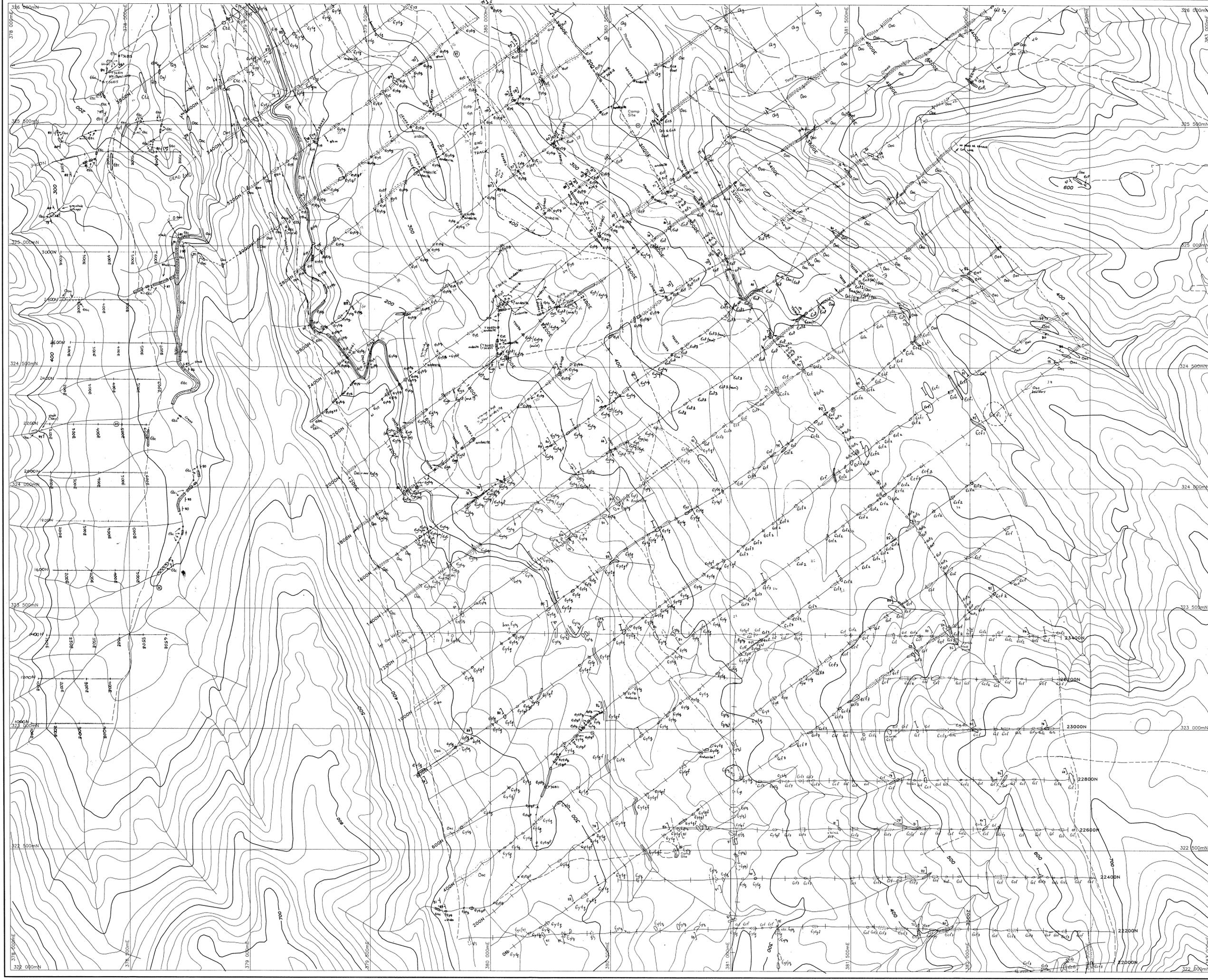
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COMPILED \_\_\_\_\_  
DRAWN - M.O.W.  
DATE \_\_\_\_\_  
CHECKED \_\_\_\_\_

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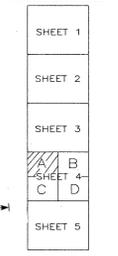
PLAN 2



**LEGEND**

QUATERNARY		Og	ALLUVIUM, SCREE, TALUS AND GLACIAL DEPOSITS
QUATERNARY		Og1	GORDON LIMESTONE, COMMONLY WEATHERS TO BLACK "PUFF"
QUATERNARY		Ooc	OWEN CONGLOMERATE AND SANDSTONE
TERTIARY	Yellowish River	Etc	COARSE VOLCANICLASTIC CONGLOMERATE AND SANDSTONE
		Eta	BROWN-WEATHERING ANDESITIC ROCKS, FELDSPAR & HORNBLENDE PHYRIC
CAMPBELLIAN	Yellowish River	Eys	VOLCANICLASTIC GREYWACKE, SANDSTONE AND MUDSTONE
		Ey1	FINE-GRAINED WHITE LAVA, INTRUSIVES & JUVENILE VOLCANICLASTICS (Q) QUARTZ PHYRIC (F) FELDSPAR PHYRIC (M) MUSCOVITE PHYRIC
		Eys	GREEN CRYSTAL-RICH EPIDOLASTIC, FELDSPAR PHYRIC WITH SUBORDINATE QUARTZ & SMALL LITHIC FRAGMENTS, INTERBEDDED WITH DARK GREY SHALES
		Ecf	MASSIVE FELSIC FELDSPAR-PHYRIC LAVA, UNDIFFERENTIATED
CAMPBELLIAN	Cultural/Archaeological	Ecf1	CRYSTAL-RICH, GRANULAR FELDSPAR-RICH GROUNDMASS, LACKING COARSE PHENOCRYSTS
		Ecf2	SPARSE COARSE-GRAINED FELDSPAR PHENOCRYSTS IN FINE-GRAINED GROUNDMASS
		Ecf3	GRANULAR CRYSTAL-RICH GROUNDMASS WITH SPARSE, COARSE-GRAINED FELDSPAR PHENOCRYSTS
		Ecs	DARK GREY, BEDDED SHALES

**SHEET LAYOUT**



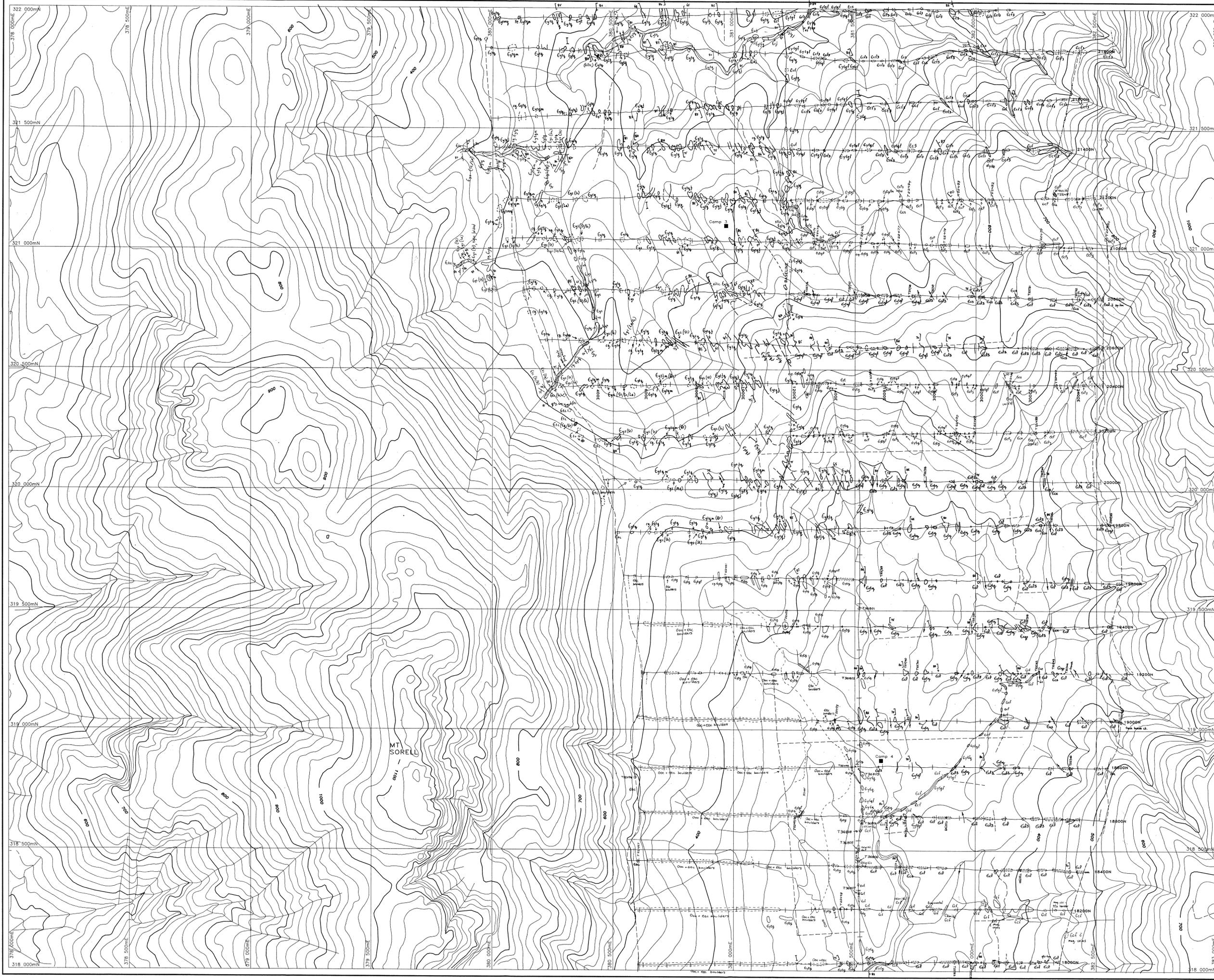
069193

**RGC EXPLORATION PTY. LTD**

COMPILED	E.L. 102/87 CLARK VALLEY
DRAWN	M. WALTER
DATE	JAN 1991
CHECKED	
SCALE	1:5000

**FACT. GEOLOGY**  
**92-3373.**

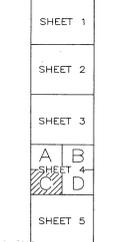
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**LEGEND**

CONTINENTAL SHEETS	
Qg	ALLUVIUM, SCREE, TALUS AND GLACIAL DEPOSITS
Ogl	GORDON LIMESTONE, COMMONLY WEATHERS TO BLACK 'PUFF'
Ooc	OWEN CONGLOMERATE AND SANDSTONE
GORDONIAN	
Etc	COARSE VOLCANICLASTIC CONGLOMERATE AND SANDSTONE
Eta	BROWN-WEATHERING ANDESITIC ROCKS, FELDSPAR ± HORNBLENDE PHYRIC
Ety	VOLCANICLASTIC GREYWACKE, SANDSTONE AND MUDSTONE
Eyt	FINE-GRAINED WHITE LAVA, INTRUSIVES & JUVENILE VOLCANICLASTICS (a) QUARTZ PHYRIC (f) FELDSPAR PHYRIC (n) MUSCOVITE PHYRIC
Eys	GREEN CRYSTAL-RICH EPICLASTIC, FELDSPAR PHYRIC WITH SUBORDINATE QUARTZ & SMALL LITHIC FRAGMENTS, INTERBEDDED WITH DARK GREY SHALES
CAMBRIAN	
Ecf	MASSIVE FELSIC FELDSPAR-PHYRIC LAVA, UNDIFFERENTIATED
Ecf1	CRYSTAL-RICH, GRANULAR FELDSPAR-RICH GROUNDMASS, LACKING COARSE PHENOCRYSTS
Ecf2	SPARSE COARSE-GRAINED FELDSPAR PHENOCRYSTS IN FINE-GRAINED GROUNDMASS
Ecf3	GRANULAR CRYSTAL-RICH GROUNDMASS WITH SPARSE COARSE-GRAINED FELDSPAR PHENOCRYSTS
Ecf4	DARK GREY, BEDDED SHALES

**SHEET LAYOUT**



069194

**RGC EXPLORATION PTY. LTD**

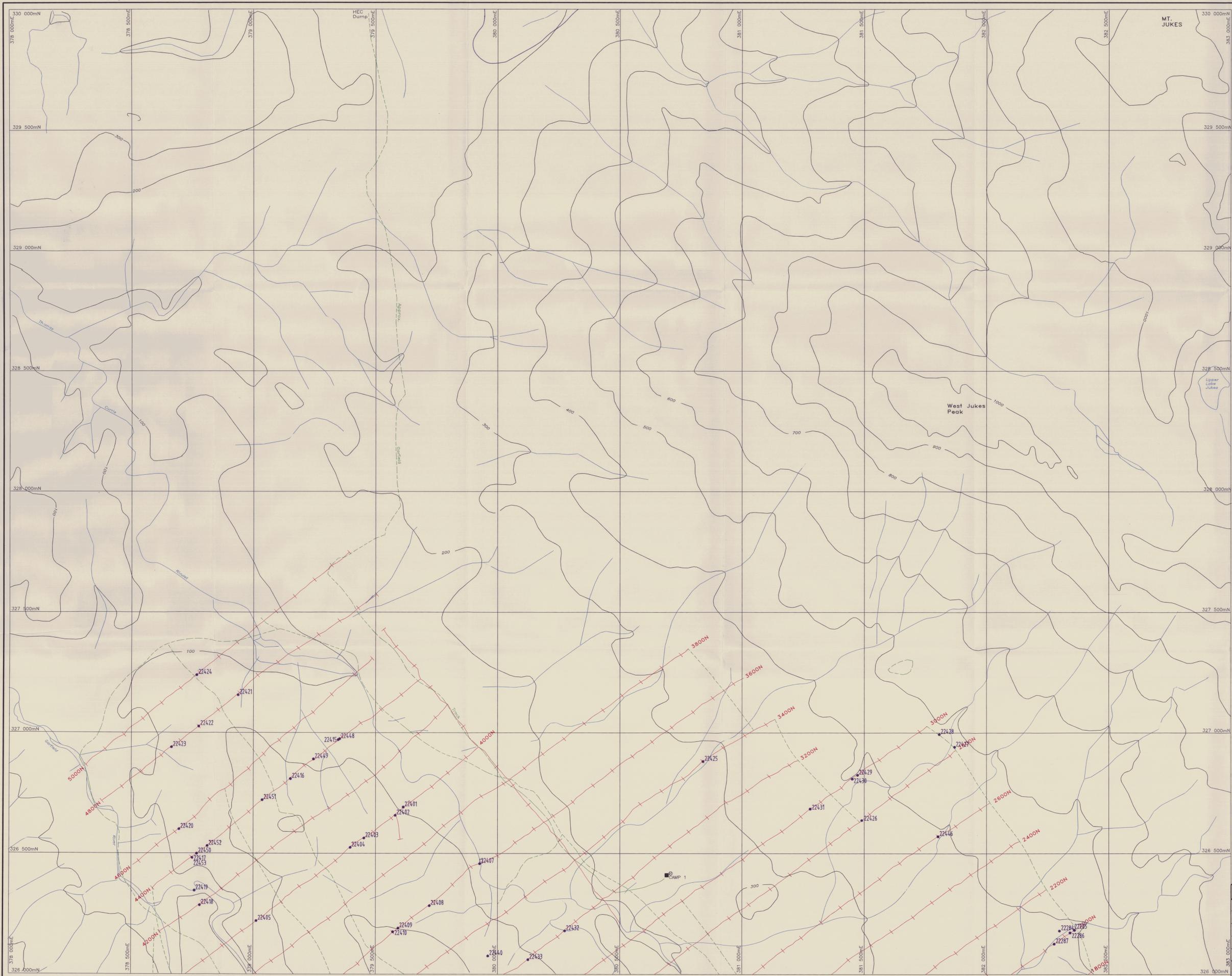
CLARK VALLEY E.L. 102/87

COMPILED S.H. J.C. M.F.  
 DRAWN M.O.W.  
 DATE 2/92  
 CHECKED  
 SCALE 1:5000

**FACT. GEOLOGY**  
**92-3373.**

DRAWING ID. 5532/135





SHEET LAYOUT

SHEET 1	
SHEET 2	
A	B
SHEET 3	
A	D
SHEET 4	
A	C
SHEET 5	

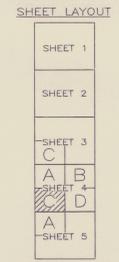
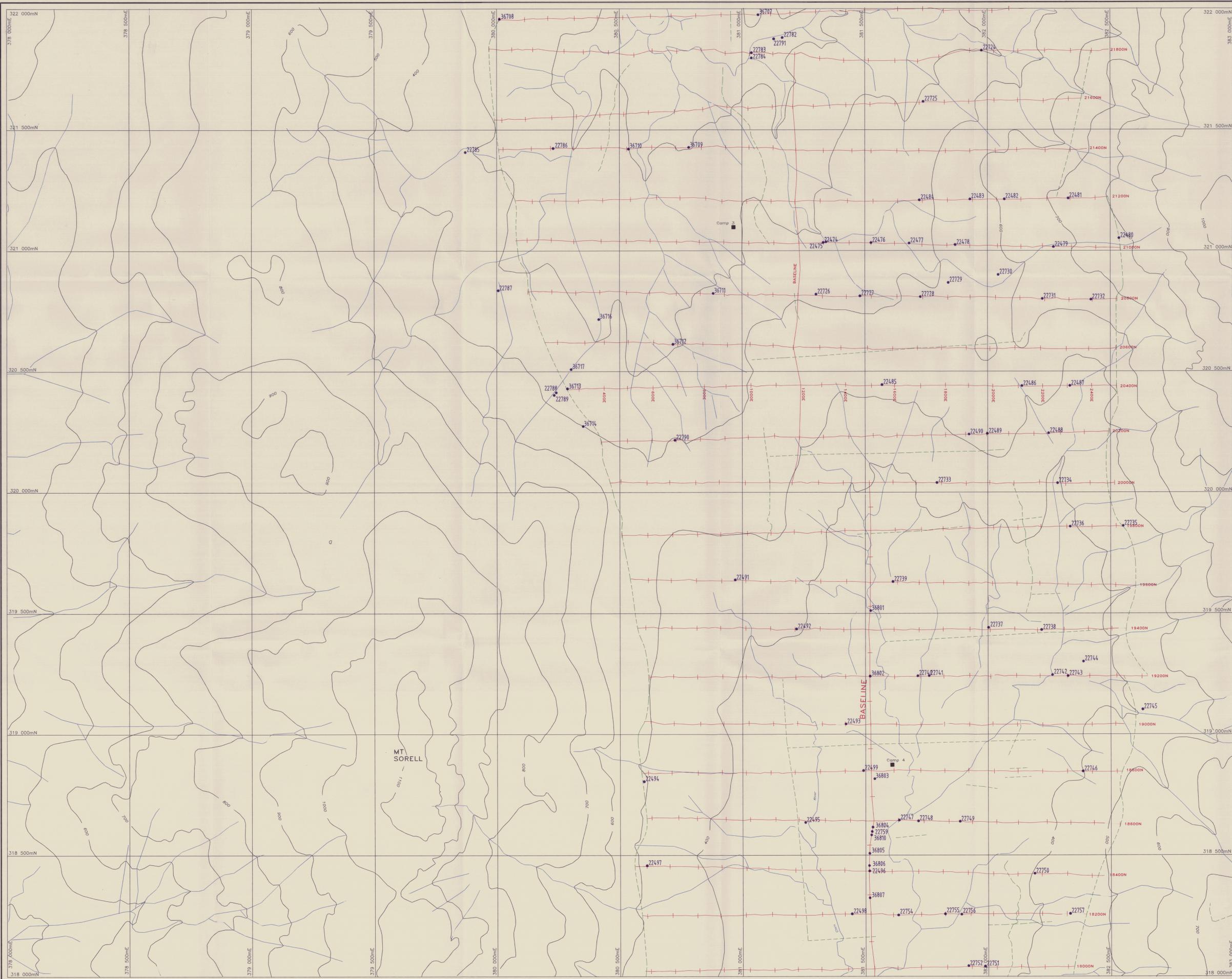
069196

5m

**RGC EXPLORATION PTY. LTD.**

COMPILED	E.L. 102/B7 CLARK VALLEY
DRAWN	M.O.W.
DATE	JAN 1992
CHECKED	
SCALE 1:5000	<b>ROCKCHIP SAMPLE LOCATION</b>
	<b>92-3373.</b>
DRAWING ID: 5532/005	PLAN 6



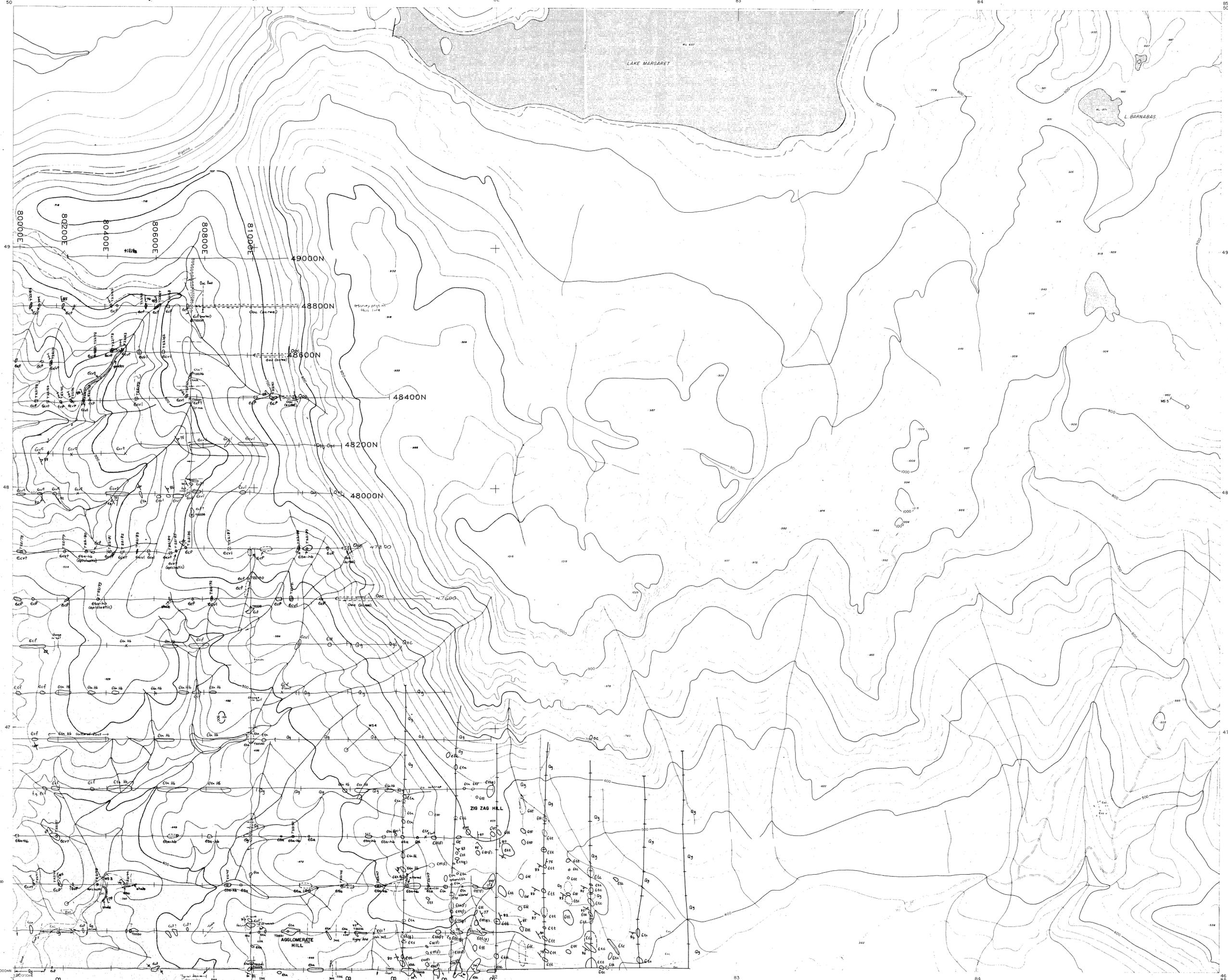


069198

**RGC EXPLORATION PTY. LTD**

COMPILED	S.H. J.C.	CLARK VALLEY E.L. 102/R7
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DATE	2/92	<b>ROCKCHIP SAMPLE LOCATION</b>
CHECKED		<b>92-3373.</b>
SCALE	1:5000	DRAWING ID. 5532/134
		PLAN B



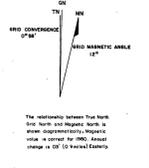


**LEGEND**

QUATERNARY	Qg	alluvium, scree, talus and glacial deposits
ORDOVICIAN	Ooc	Owen conglomerate
TINDALL GROUP	Etc	coarse volcaniclastic conglomerate and sandstone
	Ett	crystal-rich quartz-feldspar phytic volcaniclastic, ± lithic clasts, includes some shales
	Ete(f)	extremely crystal-rich, feldspar-phytic, lithic or no quartz
	Ets	shale, siltstone, sandstone
CENTRAL VOLCANIC COMPLEX	Eta	andesite lavas and associated volcaniclastics
	Eta(Hb)	andesite, coarsely hornblende-phytic, high level intrusive
	Ecf	massive felsic feldspar-phytic lava and volcaniclastics, undifferentiated
CAMBRIAN	Ecvl	massive felsic feldspar-phytic lava
	Ecvt	fine-grained felsic volcaniclastic rocks including well-bedded shale and siltstone

**SHEET INDEX**

Langdon	Debie	Spoor
Yolande	MARGARET	Bodroa
Diamond	Mine	Lyell



069200

GOLD FIELDS EXPLORATION PTY LIMITED

MT. LYELL AREA

MARGARET SHEET

FACT. GEOLOGY

**92-3373.**

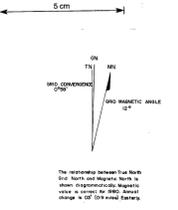
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DRAWN BY F.G.F.  
DRAFTSMAN T.G.D.S.  
DATE May 1964  
REVISIONS 5532/145  
FILE NO.  
PLAN 10



LEGEND  
see Margaret Sheet

SHEET INDEX		
YOLANDIE	MARGARET	BEATRICE
DIAMOND	LYELL	
AIRPORT	TOWNSHIP	PRINCESS

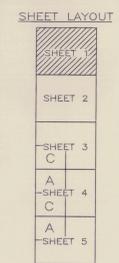
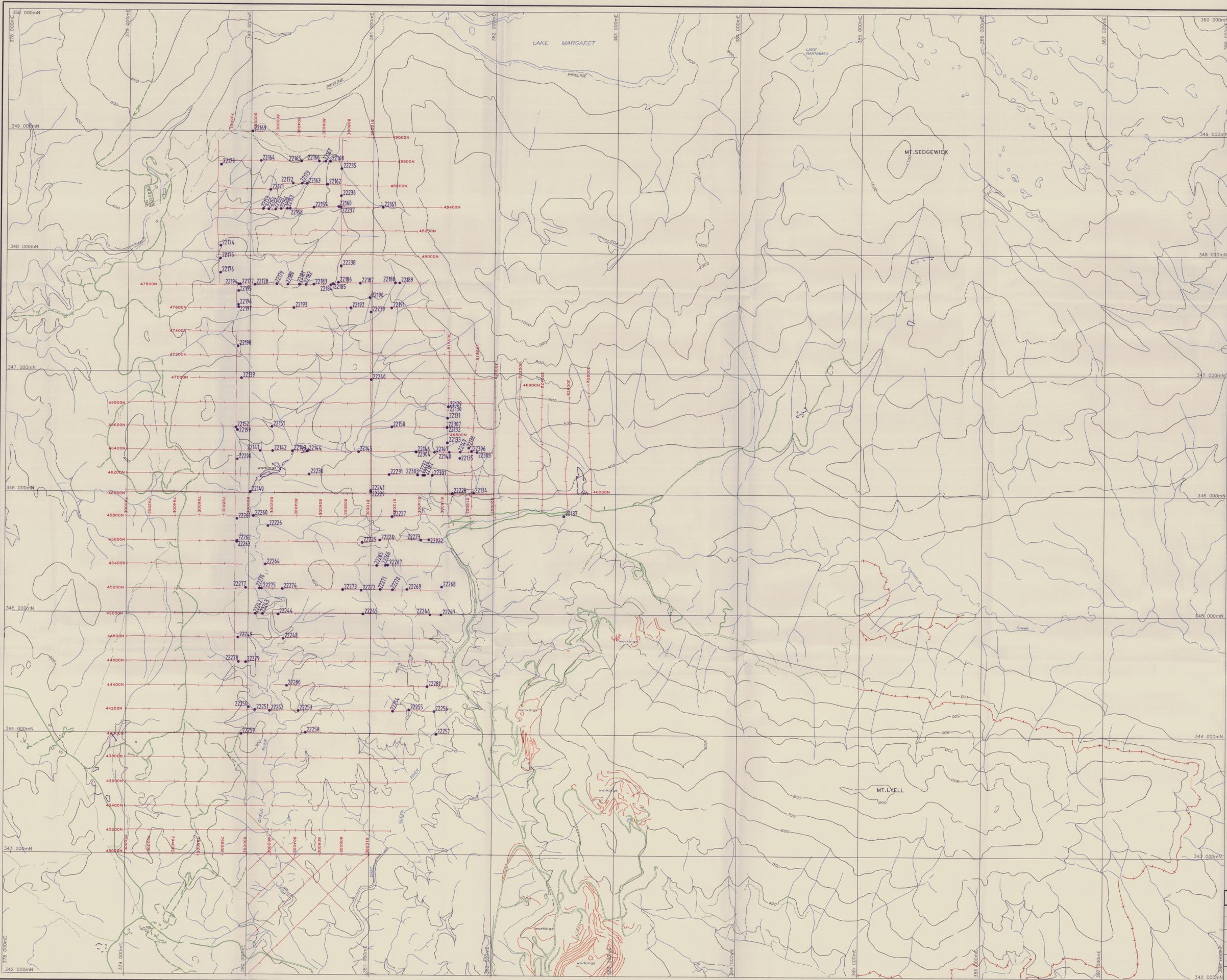


069201  
GOLD FIELDS EXPLORATION PTY LIMITED

MT. LYELL AREA  
MINE SHEET  
FACT. GEOLOGY  
**92-3373.**

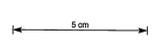
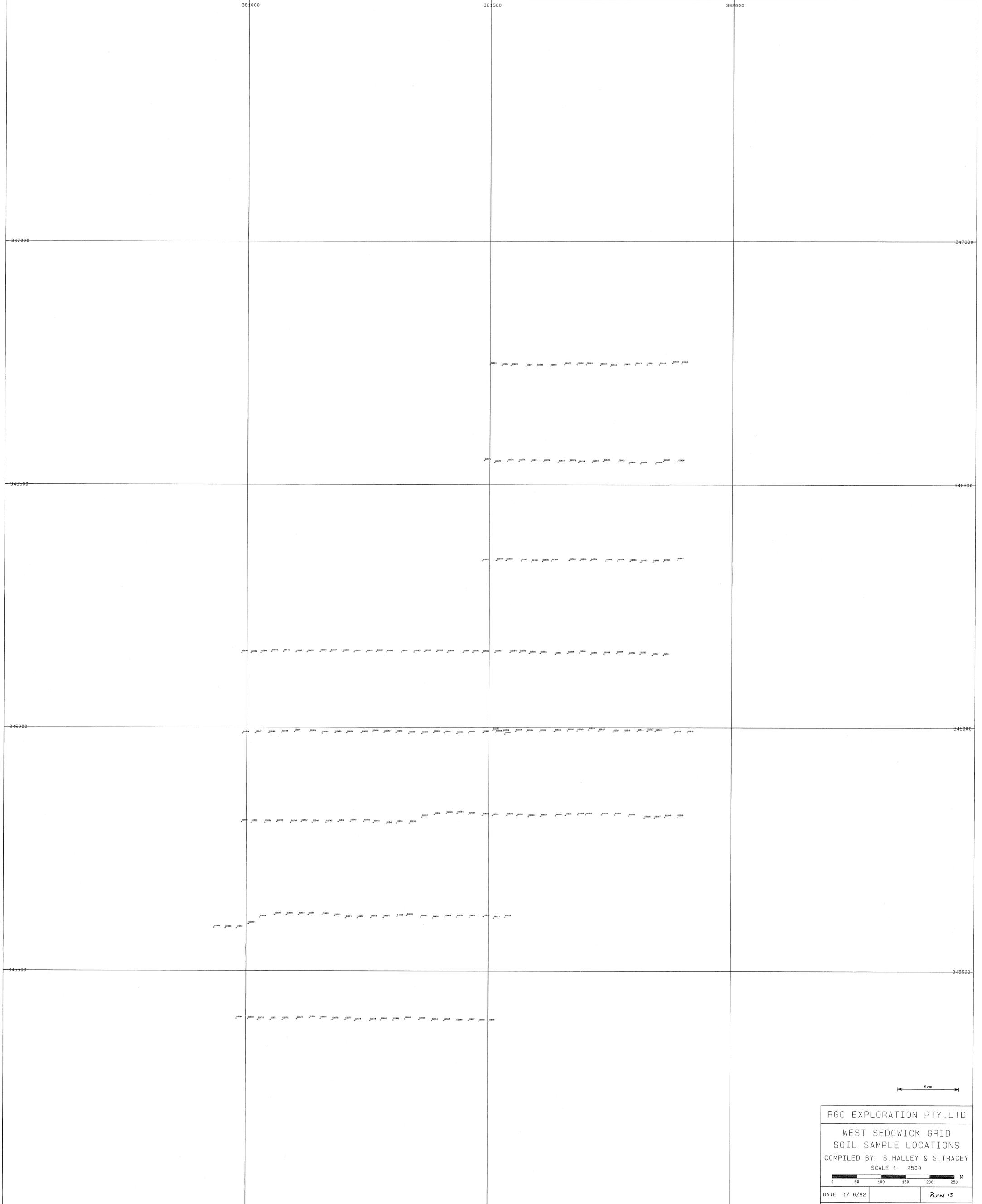
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DRAFTSMAN T.G.D.S.  
DATE May 1986  
REVISIONS 8532/140  
FILE NO.  
PLAN II



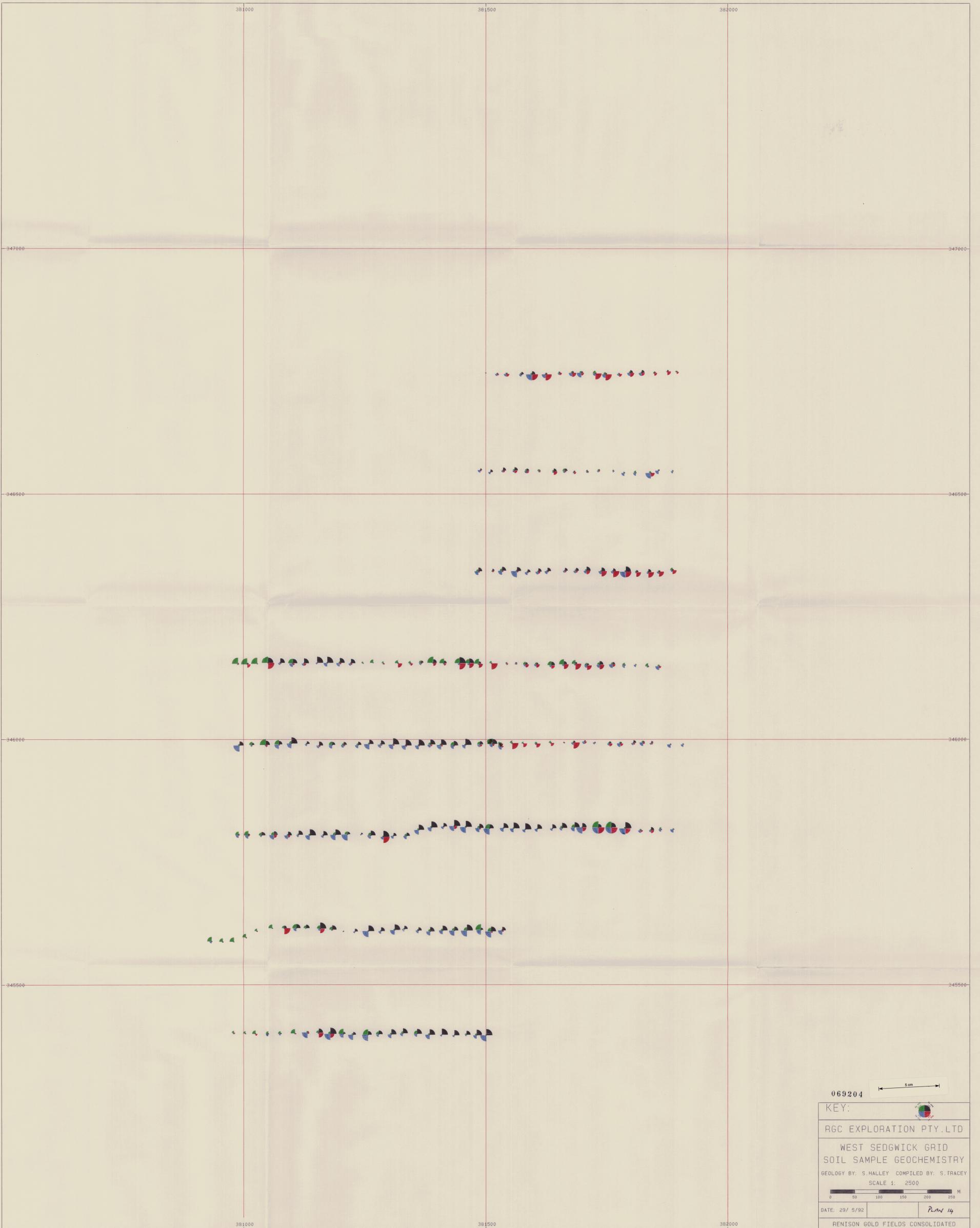
RGC EXPLORATION PTY. LTD	
PREPARED BY S.H.	E.L. 102/87 COMSTOCK
DRAWN BY M.O.W.	
DATE MAY 1992	ROCKCHIP SAMPLE LOCATION
CHECKED	<b>92-3373.</b>
SCALE 1:10,000	
0 100 200 400m	
DRAWING ID. 8532/001	PLAN 12

069202

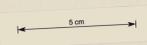
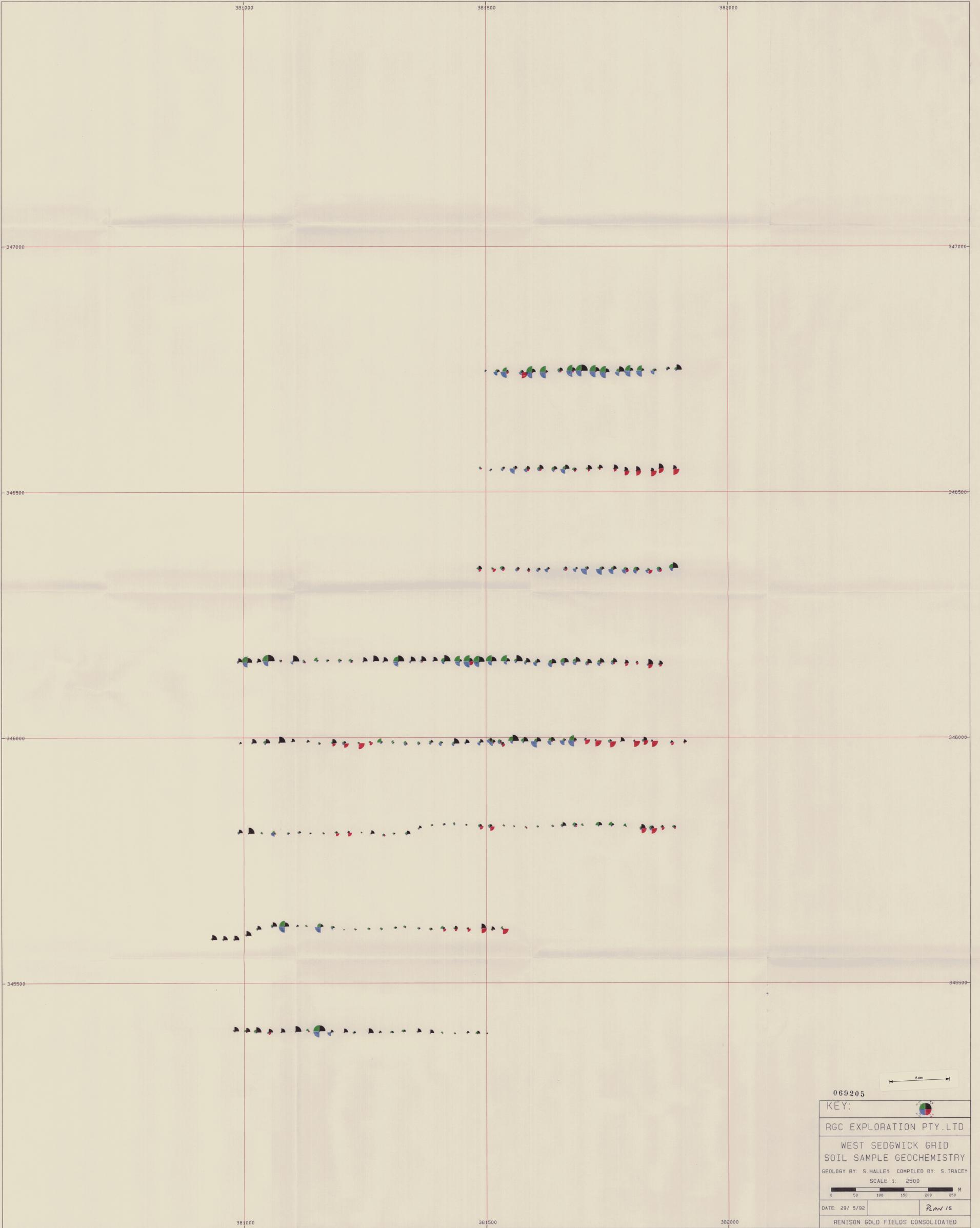


RGC EXPLORATION PTY. LTD  
WEST SEDGWICK GRID  
SOIL SAMPLE LOCATIONS  
COMPILED BY: S. HALLEY & S. TRACEY  
SCALE 1: 2500  
DATE: 1/ 6/92  
RENISON GOLD FIELDS CONSOLIDATED

92-3373



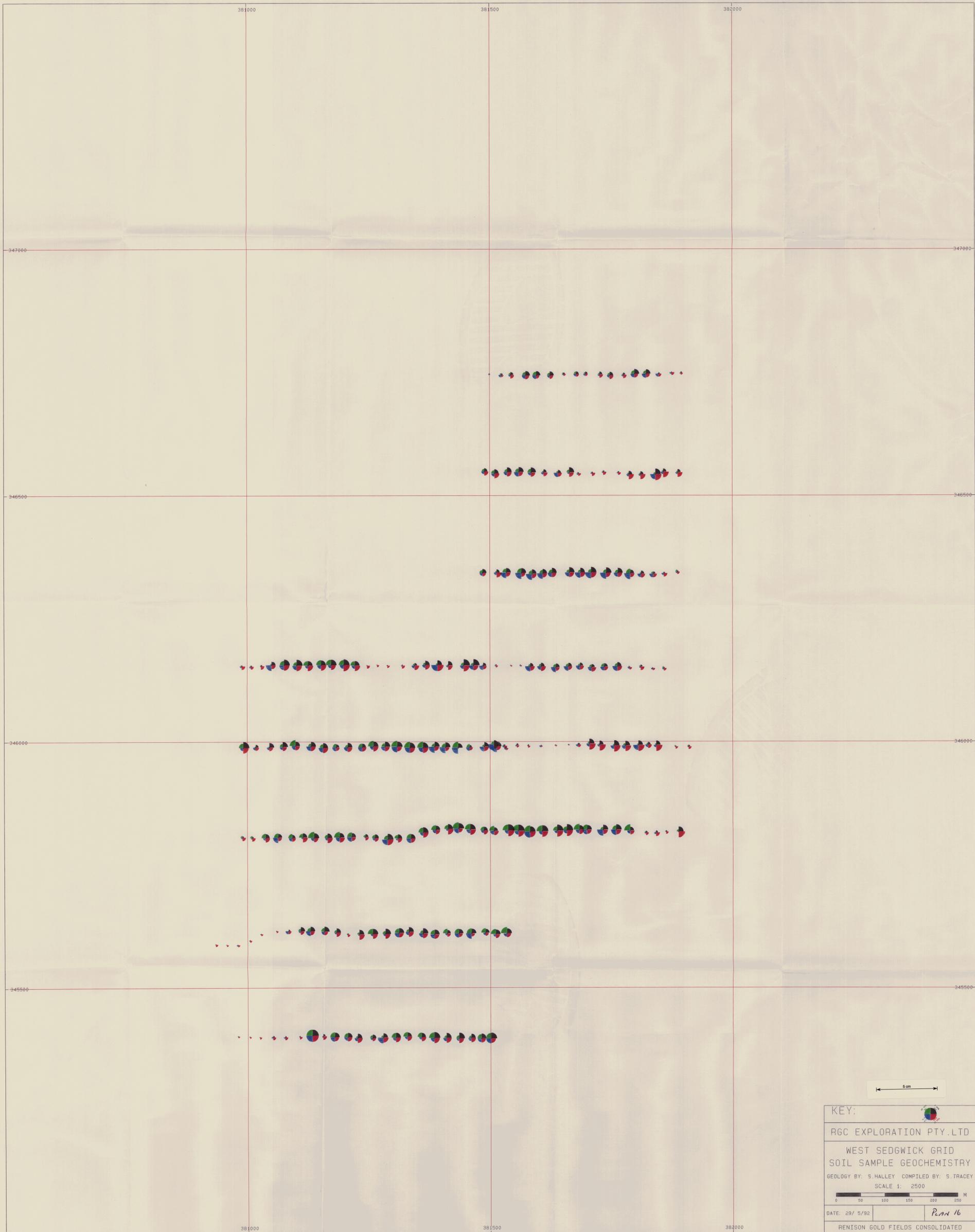
92-3373.



069205

KEY:		
RGC EXPLORATION PTY. LTD		
WEST SEDGWICK GRID		
SOIL SAMPLE GEOCHEMISTRY		
GEOLOGY BY: S. HALLEY COMPILED BY: S. TRACEY		
SCALE 1: 2500		
DATE: 29/ 5/92		Plan 15
RENISON GOLD FIELDS CONSOLIDATED		

92-3373.

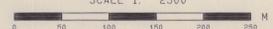


KEY: 

RGC EXPLORATION PTY. LTD

WEST SEDGWICK GRID  
SOIL SAMPLE GEOCHEMISTRY

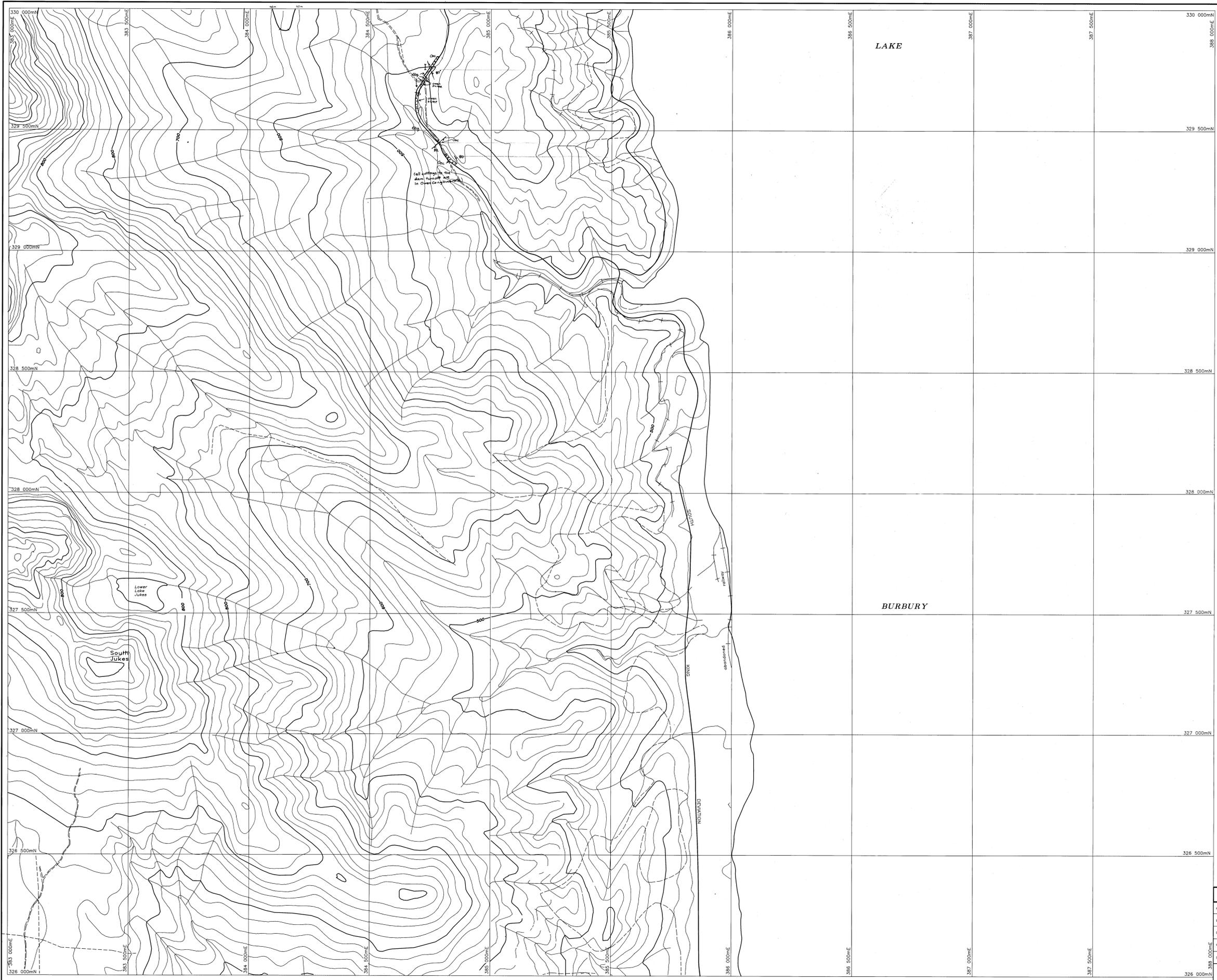
GEOLOGY BY: S. HALLEY COMPILED BY: S. TRACEY  
SCALE 1: 2500



DATE: 29/ 5/92 Plan 16

RENISON GOLD FIELDS CONSOLIDATED

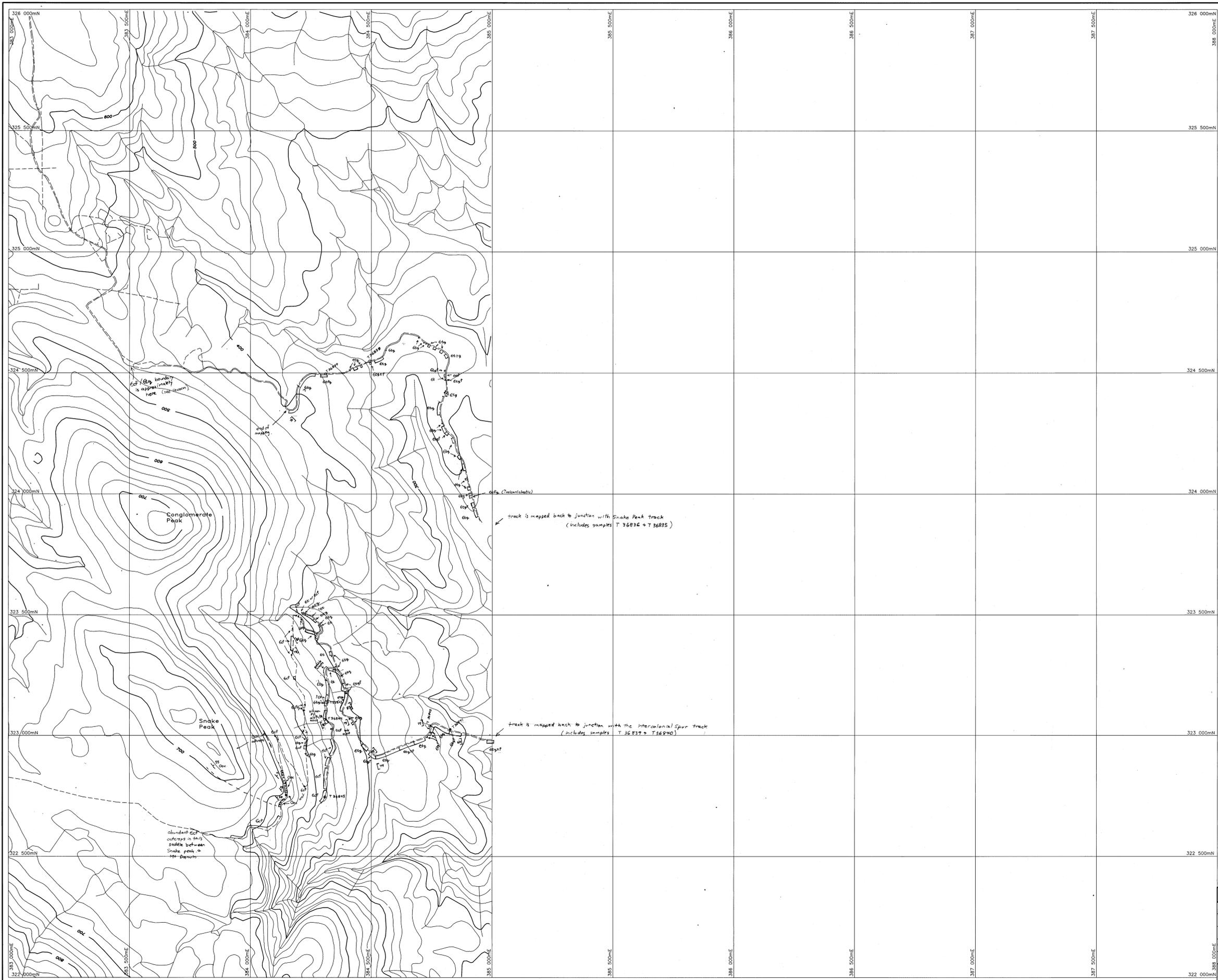
069206  
**92-3373.**



SHEET LAYOUT

SHEET 1
SHEET 2
SHEET 3
A B
SHEET 4
A C
A
SHEET 5

RGC EXPLORATION PTY. LTD		
COMPILED	M.G.W.	E.L. 102/87 CLARK VALLEY
DRAWN	M.G.W.	
DATE	4/92	
CHECKED		
SCALE	1:5000	
		<b>FACT. GEOLOGY</b>
		DRAWING ID. 5532/139

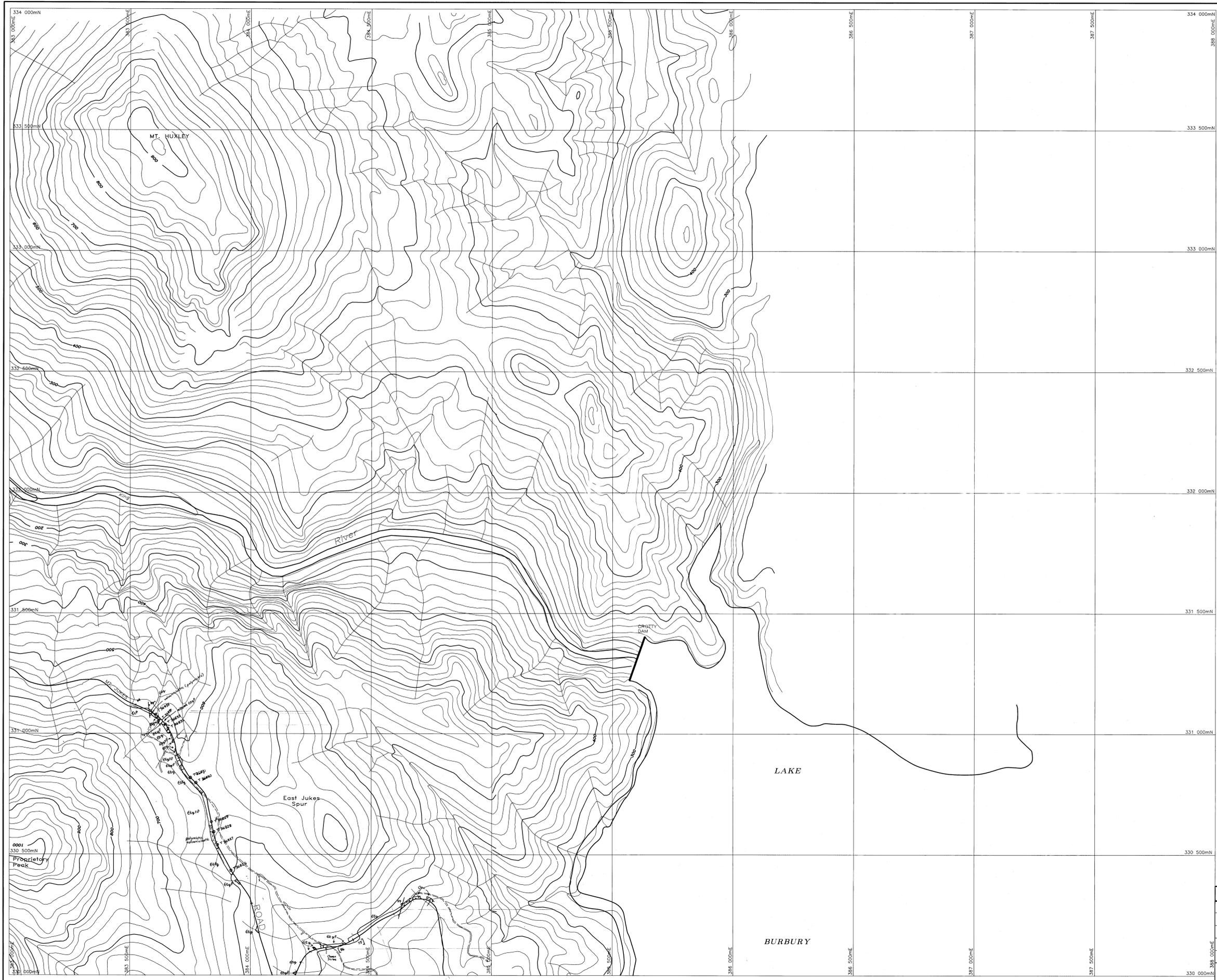


5m

SHEET LAYOUT

SHEET 1
SHEET 2
SHEET 3
C D
A
C
A
SHEET 5

<b>RGC EXPLORATION PTY. LTD</b>	
COMPILED	E.L. 102/87 CLARK VALLEY
DRAWN	M.O.W.
DATE	4/92
CHECKED	
SCALE	1:5000
<b>FACT. GEOLOGY</b>	
DRAWING ID. 5532/140	

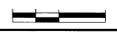


5m

SHEET LAYOUT



RGC EXPLORATION PTY. LTD		
COMPILED	J.C.	E.L. 102/87 CLARK VALLEY
DRAWN	M.O.W.	
DATE	4/92	
CHECKED		
SCALE 1:5000		



DRAWING ID. 5532/144