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Annual Report for the period February 1999 to April
2000 - Mt Roland
Sirocco Resources NL*
Close, R.J. EL25/1998

EL25/98 PT1
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SIROCCO RESOURCES NL
(A.C.N.003049714)

ANNUAL REPORT
FOR THE PERIOD February 1999 TO April 2000
EXPLORATION LICENCE 25 / 98 MT ROLAND.

Distribution

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Author: R.J. Close
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SUMMARY

Exploration for stockwork vein gold mineralisation in EL 25/98 south of Sheffield, has been focussed on an extensive quartz-sericite-haematite(pyrite) alteration zone at the Firetower prospect. Located at the western end of the Gog Range, this prospect was originally defined in EL10/88 by Noranda/Plutonic Resources who conducted detailed exploration including twenty-one diamond drillholes to define a surficial low-grade gold target.

Sirocco commenced exploration in early 1999 with a literature review of the previous work. This led to an exploration proposal to Mineral Resources Tasmania involving detailed evaluation of the prospect staged over a two-year period. Unfortunately, corporate budget constraints prevented the start of fieldwork until March 2000.

Recent Stage 1 exploration has incorporated the prospect in a new AMG grid, outcrop mapping has been completed and detailed soil-auger bedrock as well as rock chip geochemistry conducted. The previous IP and drill hole data has been re-evaluated and all relevant information except drill logs has been digitised and presented in attached figures, plans and Appendices.

The current fieldwork has promoted refinements to the Firetower exploration model of a strongly phyllic altered Cambrian quartz-phyric felsic volcanoclastic sedimentary sequence hosting a mesothermal east-west trending base metal-gold bearing quartz-sulphide-carbonate vein stockwork. The bulk of the mineralisation and surrounding pervasive alteration, appears to be structurally controlled in a boldly outcropping silicified tuffaceous sandstones and siltstones over a 300m by 50m Central area, adjacent to a NNW trending crosscutting dextral fault zone. This structure close to the old 24E grid line, may have been a reactivated minor growth fault that facilitated hydrothermal fluid access from an underlying subvolcanic rhyolite lava dome.

At Firetower, peak gold geochemistry (up to 5g/t in soils and rock chips) is associated with strong As-Pb-Zn-Cu anomalism and coincident IP chargeability anomalism. The mineralisation is related to generally steep dipping deformed stringer pyrite veins and a network of galena-sphalerite-chalcopyrite-arsenopyrite bearing quartz- carbonate veins.

Along strike up to 250 m from the Central drilled area, strong IP anomalism and moderate to weak geochemistry indicates good potential to extend the known mineralisation. However, east of the 6160E line, surficial mineralisation in scree-cover weakens markedly into narrow breccia-vein zones close to the rhyolite-volcanoclastic sediment contact. This appears to limit the bulk tonnage potential of the prospect in this direction.

Further east along the Gog Range, strong base metal anomalism with a weak gold-arsenic expression is associated with localised vein and fracture controlled mineralisation in the same stratigraphic sequence. This suggests there is low potential for structural repetitions of the Firetower prospect in this area.

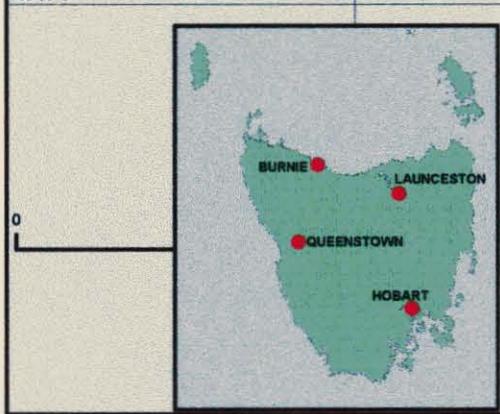
Proposed Stage 2 exploration will involve infill and extensional drill testing of the Central zone. The aim will be to locate high-grade shoots and ascertain the potential for significant tonnage of +3g/t Au open pit mineralisation, as well as testing shallow strike extensions for additional mineralisation.

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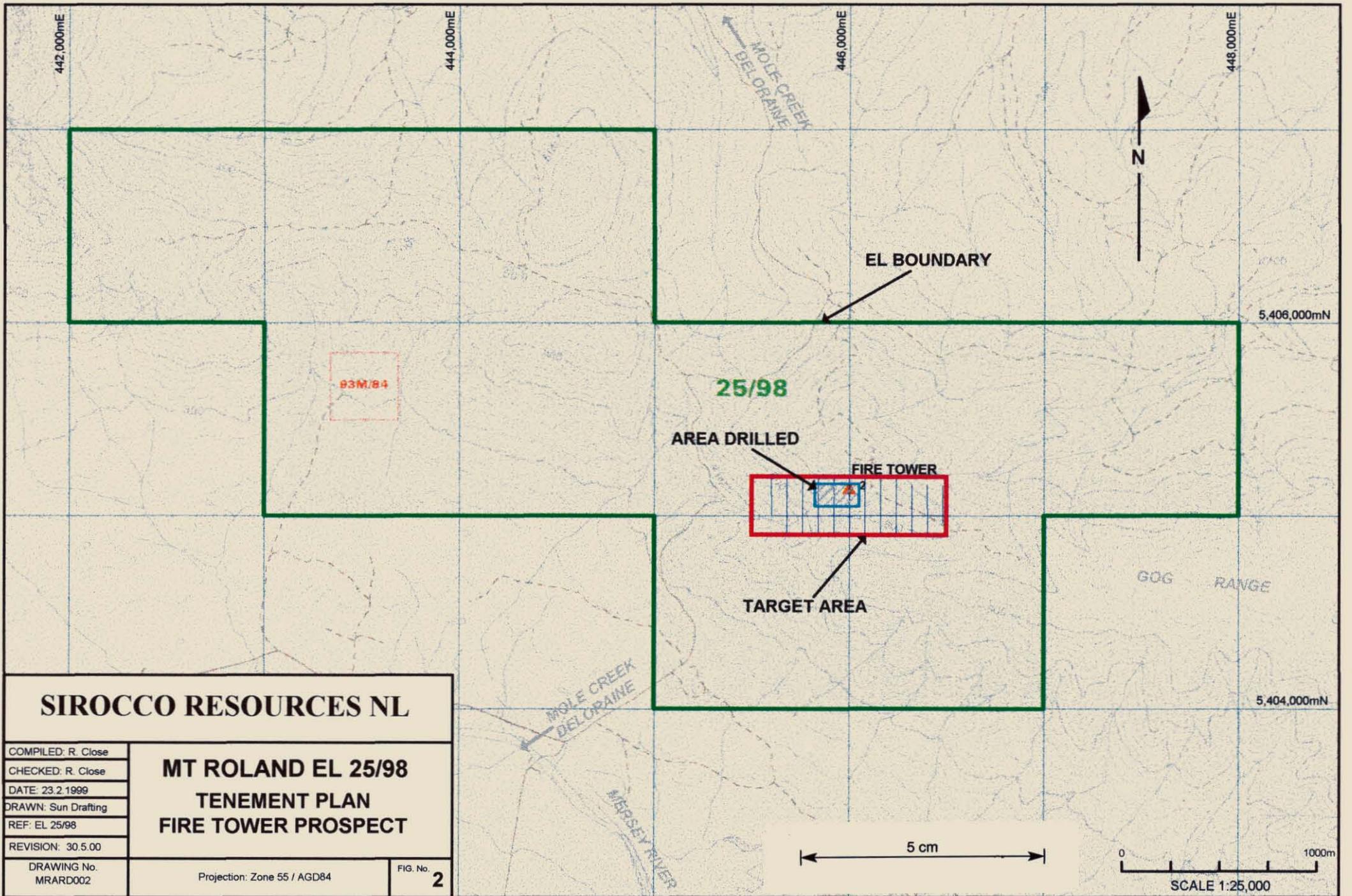
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SIROCCO RESOURCES NL		
COMPILED: R. Close	MT ROLAND EL 25/98 LOCATION MAP	
CHECKED: R. Close		
DATE: 12.2.1999		
DRAWN: SUN DRAFTING		
REF: EL 25/98		
REVISION: 30.5.00		
DRAWING No. MRARD001.WOR	Projection: Zone55 / AGD84	
		FIG. No 1



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**MT ROLAND EL 25/98
 TENEMENT PLAN
 FIRE TOWER PROSPECT**

DRAWING No. MRARD002	Projection: Zone 55 / AGD84	FIG. No. 2
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1.0 INTRODUCTION

EL 25/98 was granted to Sirocco Resources NL in February 1999 following a successful tender for ETA 492 in October 1998. The 10 sub-block licence east of MT Roland has a two-year expenditure commitment of \$510,000.

This report represents the first annual report on the project and discusses the results of gold-base metal exploration conducted principally at the Firetower gold prospect to April 2000.

2.0 LOCATION AND ACCESS

The licence area is well situated in the mid north of Tasmania, 30 kilometres south of Devonport the nearest airport. Located at approximately 445000mE and 5405000Mn (Figures 1 & 2), the tenement incorporates the western end of the Gog Range and spurs leading east off Mt Roland.

The area has good infrastructure with respect to power, water, transport and labour. It lies within a forestry setting and the high topographic position of the Firetower gold prospect enhances its open pit potential.

Excellent access to all parts of the EL is achieved by bitumen road south from Sheffield through Paradise as well as HEC and old forestry tracks.

The Firetower prospect can be reached directly by vehicle, however local access to other prospects and/or desirable drill sites can be problematic because of steep topography and forest terrain.

3.0 TENURE

Exploration Licence 25/98 shown in Figure 3 was previously a portion of EL 10/88 a joint venture between Plutonic Operations Ltd and Noranda Pty Ltd who were exploring for VHMS deposits. In 1992 Plutonic became the sole operator and licensee of the lease until it was assumed by Homestake Australia following its takeover of Plutonic in May, 1998. Homestake took no interest in the property and relinquished it in August, 1998.

The EL is subject to regional forestry agreements, State forest areas and several CAR reserves covering portions of Roland ridge and Gog Range. The Firetower prospect (Figure 2) where detailed exploration has been conducted is not subject to any particular environmental constraints.

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Photo 1. Firetower Hill (arrowed) and Gog Range to left from 5 km NE on Sheffield Road, note forestry clearing.



Photo 2. Firetower Hill prospect (arrowed) from 1 km west of Bridge Road.

4.0 REGIONAL GEOLOGY

Palaeozoic sequences within the EL mostly belong to the Lower-Middle Cambrian Mt Read Volcanics, which host five important gold-rich polymetallic VMS deposits in Western Tasmania. These include Mt Lyell, Hercules, Rosebery, Que River and Hellyer as well as the Henty gold deposit. In addition, there are numerous occurrences of sub-economic base metal and gold deposits skarn, vein mineralisation and VMS style alteration throughout the belt (Figure 1).

The majority of the above deposits occur in the Dundas Trough along the 150 kilometre long major north-south trending part of the volcanic belt which runs from Elliott bay to north of Hellyer. The Mt Read volcanics in Northern Tasmania occupy a subsidiary region the Fossey Mountain Trough that trends roughly east south easterly from north of Hellyer to beyond Deloraine (Figure 3).

Sequences in this region are not well correlated with the better-mineralised packages in Western Tasmania.

The volcanics and associated sediments of the Fossey Mountain Trough have an uncertain position within this stratigraphy because regional mapping has revealed significant differences between the volcanic sequences in the Dundas Trough and the Fossey Mountain Trough. However, recent Mineral Resources Tasmania regional mapping indicates the andesitic-basaltic volcanism and later quartz-feldspar phyric felsic volcanics / plutons in the Beulah-Gog Range area, may be time correlates of the mafic intermediate phase and subsequent felsic Tyndall Group /Southwell Subgroup sequences from Mt Lyell to Hellyer (M McClenaghan pers comm). This confirms Noranda's petrological data (Jones,1991) on the Gog Range felsic sequence which contains abundant large zircons which are a diagnostic feature of Dundas Group-Tyndall Group volcanics.

The relative ages of mineralising events in the Mt Read Volcanics are subject to considerable debate. This is due to the overprinting of alteration and subsequent multiple phases of deformation superimposed on initially complex inter-fingering relationships of volcanic packages associated with separate volcanic centres. Nevertheless, the relative paucity of volcanogenic mineralisation in the north suggests either a slightly different tectonic history has been operative here or the sequences are younger than the main phase of VHMS mineralisation. Based on available information the latter is most likely.

In the Fossey Mountain Trough the siliciclastic largely Precambrian-derived Roland Conglomerate and Moina Sandstone, of Late Cambrian-Ordovician age, unconformably overlie the Cambrian volcanics with small outliers of these younger rocks capping the volcanics in many places. An angular unconformity in many places including the Gog Range, indicates that there was a major compressional phase of deformation during the Late Cambrian, prior to the deposition of these terrestrial siliciclastics.

The Gordon Limestone overlying the siliciclastics were themselves folded, during the mid-Devonian Tabberabberan Orogeny during which time, some thrust faulting is believed to have taken place (Jennings, 1979).

Williams (1979) refers to two phases of mid-Devonian folding, earlier east-west "Loongana/Wilmot trend" folds with a half wavelength of 5km and later north-westerly to northerly "Deloraine/Railton trend" folds with a half wavelength of 2.5km. These two fold trends interfere in the Fossey Mountains, the later cleavage and fault trend being dominant in the Gog Range.

However, Woodward et al (1993), has highlighted the significance of thrusting during both late-Cambrian and mid-Devonian deformation. Recognition of thrust faulted contacts along portions of the southern margin of the Fossey Mountain Trough, indicate similar thrusts may be present in the Cambrian volcanic sequence particularly along the Gog Range.

Mid-Devonian deformation the north and west of Tasmania was followed by the intrusion of granitic batholiths such as the Dolcoath Granite. This intrusion was responsible for a number of relatively minor and possibly zoned base metal-gold mineral deposits in the Moina area west of Mt Roland. Intrusive bodies in the region of EL 25/98 include the Cambrian Beulah granite-diorite to the north of the Gog Range. Extensive Tertiary tholeiitic basalt lavas which originally infilled most topographic lows, now occupy topographic highs and cover prospective Cambrian volcanics and associated sediments in many parts of the northern belt.

Glaciation in the Quaternary has produced both glacial deposits and scree that is locally widespread and covers much of the slopes south of the Firetower prospect.

5.0 LOCAL GEOLOGY

This district currently lacks a good regional compilation map of the type produced for the Mount Read Volcanic Project. However, current MRT mapping in the area should radically change this situation. Within the tenement area Plutonic mapped the Gog Range at 1:2500 prospect scale, augmented by reconnaissance traverses and 1:500 scale outcrop mapping at Firetower compiled by Macdonald (1993).

The oldest recognised Cambrian strata in the Mt Roland district are moderately to steeply dipping sediments at Cethana in the west (Figure 3). These sediments comprise fine chloritic, pyritic siltstones and lesser sandstones with interbedded conglomeratic mass flows, which are haematite and magnetite bearing towards the top of the sequence.

The sediments are overlain by a package of felsic lavas, volcanoclastics (reworked tuffs) grading to fine tuffaceous sediments, which are all at least moderately sericite \pm chlorite \pm pyrite \pm haematite altered with increasing intensity up sequence to the north. This pervasively altered package is overlain by steeply dipping, unaltered greywackes and conglomerates of probable intermediate derivation, together with interbedded intermediate lavas towards Staverton.

The Gog Range ten kilometres to the east has a somewhat different geology (Macdonald and Tomlinson, 1992 and Jones, 1989). The Cambrian sequence strikes east - west, faces and dips steeply north with little evidence of folding except for a weak NW trending cleavage.

Regional mapping suggests a series of NNW dextral faults transect the district, and one of these faults displaces the mineralised sequence at Firetower.

The Gog Range stratigraphy (Plan 1) consists of a basal quartz-feldspar biotite porphyry/lava overlain by locally strongly phyllic altered interbedded felsic volcanoclastics and vitric tuffaceous siltstones. Along the western end of the range immediately north of the Firetower prospect the latter barren siltstones are overlain by chloritic quartz-feldspar phyllic immature sandstones, lapilli tuffs and lithic polymictic mass flow units grading to siltstones. On the northern slopes of Firetower hill and along Bridge Road to the west, the volcanoclastics are overlain by more quartz-feldspar porphyry units. Further north this package is apparently overlain by mafic-intermediate volcanics at Lower Beulah, with the contact zone the focus of strong alteration.

The "Gog range Formation" of volcanoclastic sediments was originally referred to by Jennings et al (1959) as "Gog Range Greywacke" overlain by "Minnow Keratophyre" overlain by "Benlay Formation. These terms are in the process of revision as a result of the ongoing regional mapping.

Macdonald (1993) suggested the Gog Range stratigraphy may actually be older than sequences at Cethana, because the Fire Tower prospect sequence has similar lithologies to the Bull Creek Formation west of Cethana as mapped by Pemberton and Vicary (1989).

The Gog Range volcanic sequence is cut off to the south by a low angle thrust, which places younger Cambrian Roland Conglomerate, outcropping along a sharp E-W ridge, against the basal "Gog Range Rhyolite" lava unit. The contact is hidden by scree slopes of siliceous haematitic boulders.

6.0 PREVIOUS WORK

The Gog Range area was initially explored in the 1970's by Asarco and CRAE who conducted regional stream sediment sampling at 2/km² and reconnaissance mapping. This program generated significant polymetallic base metal and locally gold drainage anomalism which was ignored in favour of stronger anomalism and VHMS alteration at Cethana to the west.

The Gog Range anomalism was finally followed up in the late 1980's by the Noranda / Plutonic joint venture within EL 10/88. They placed a regional 100 m line spaced grid over the Gog Range and undertook geological mapping and soil / rock chip sampling. This established a two kilometre long series of stratigraphically controlled CU-Pb-Zn anomalies in a felsic volcanic sequence, which is proximal and coarse-grained in the west becoming finer to the east.

This sequence was considered prospective for VHMS mineralisation (Jones, 1989) and the encouraging results led to detailed work on the westernmost anomaly below Firetower hill (Figure 2). This prospect was the most easily accessible and had coincident alteration and gold values typical of the major West Coast deposits.

During 1989-1992, the Firetower prospect was outcrop mapped, rock chip sampled and surveyed by 25 m spaced dipole-dipole IP, and then tested to shallow depth by 19 short (30 m) diamond drillholes and four longer (120-155 m) drill holes. (Macdonald and Tomlinson, 1992 ; Macdonald, 1993)

The majority of these drillholes, refer Table 1, intersected low-grade gold (1-5 g/t Au), plus base metal anomalous vein and fracture controlled mineralisation within silica-sericite-pyrite-carbonate altered quartz phyric volcanoclastic sandstones, lithic crystal tuffs and siltstones grading to vitric ashy tuffs. The alteration zone was identified over 300 metres of strike and up to 100 wide north of an underlying intrusive rhyolite porphyry suspected of being the source of the mineralising fluids (Plan 1).

Lead isotope and mineragraphic studies of the mineralisation indicated this Cambrian vein style deposit was very similar to several Western Tasmania prospects. These include the V24 mineralisation at Lewis River, Elliot Bay and the Ten Mile Creek / Anio Creek prospect which are thought to be genetically related to nearby quartz-feldspar-biotite porphyries.

At Firetower, considerable scope for an open pit resource target was indicated by highly encouraging outcrop values up to 11 m @ 4.94 g/t Au, and near surface drill results of 29m @ 3.24 g/t including 3m @ 21.4 g/t in GP-90-10 (Plan 2 and Figure 12). However, in 1992 Plutonic considered the tonnage potential was too small for a stand-alone project and was not prepared to fund further exploration whilst its main aim in Tasmania was discovery of a major VHMS base metal deposit.

In 1997-1998 infill soil (Figures 5-9) and limited rock chip geochemistry was conducted in an attempt to extend the strike of known mineralisation at Firetower (Close and Reid, 1997; Dare, 1998). This work indicated definite strike potential to the east, for 300 metres beyond the Central drilled zone to the 28E line. Here, gossanous volcanoclastic float gave a value of 30.1g/t Au close to the contact with altered rhyolite and tuffs which assayed 1.92 g/t.

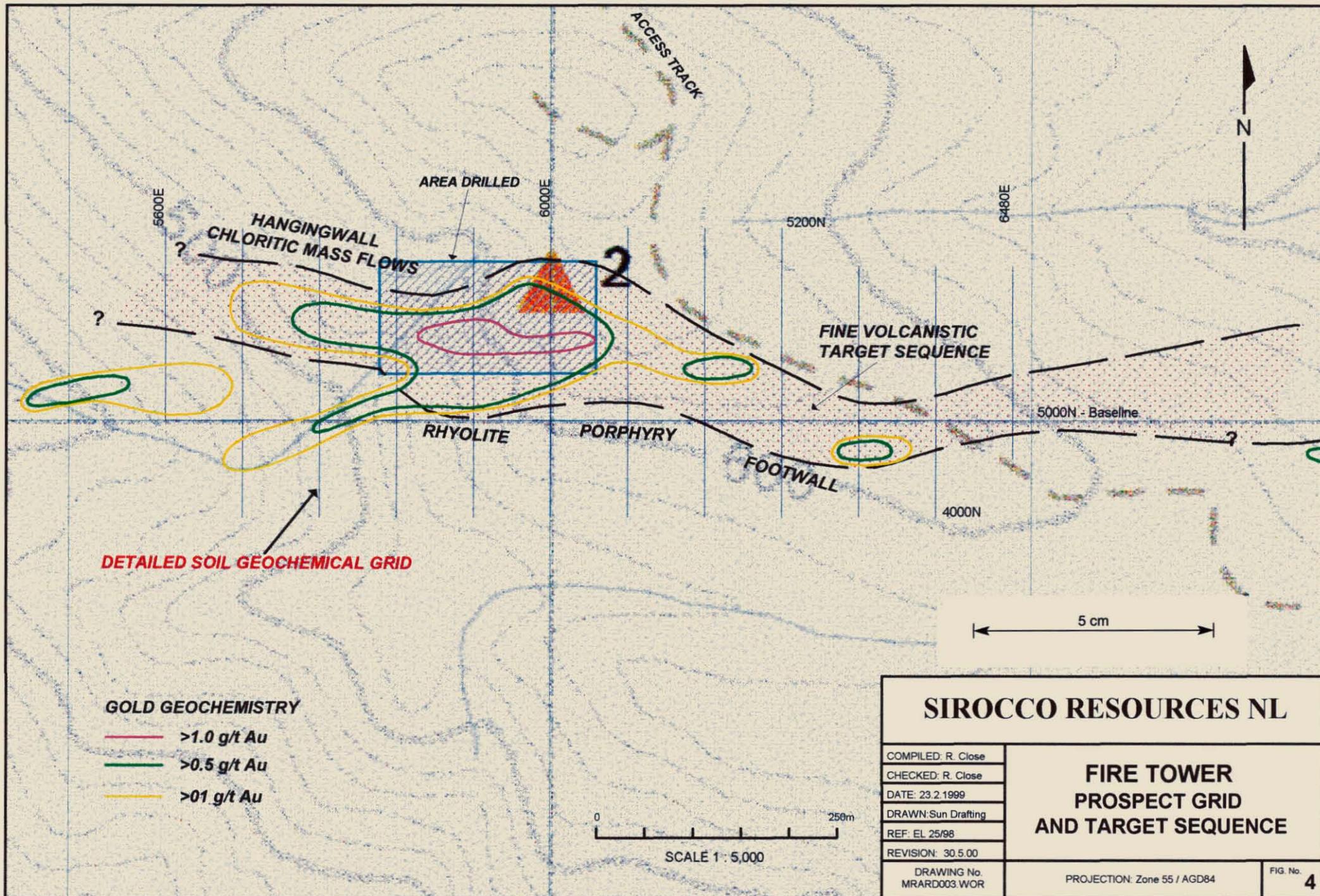
Table 1. Firetower Prospect. Significant Drillhole Intersections

Drillhole	Total Depth (m)	Declination/ Bearing	Interval (m) From	Interval (m) To	Thickness (m)	Gold g/t
GP-90-1	24.7	90	0	24	24	2.01
inc			0	8	8	2.69
inc			16	17	1	5.64
GP-90-2	25.8	90	0	26	26	0.64
inc			10	11	1	4.53
GP-90-3	24.6	65 / 84	0	25	25	1.85
inc			12	21	9	3.07
GP-0-4	27.2	55 / 174				
GP-90-5		50 / 174	20	30	10	0.96
GP-90-6		52 / 174	22	28	6	1.1
GP-90-7		51 / 174	2	31	29	0.86
inc			2	8	6	2.81
GP-90-8	30.15	55 / 174	1	5	4	1.03
GP-90-9	30.45	49 / 174	29	30.5	1.5	1.07
GP-90-10	30.25	45 / 174	1	30	29	3.24
inc			7	24	17	5.37
inc			10	13	3	21.38
GP-90-11	30.45	44 / 354	16	19	3	1.18
GP-90-12	30.3	60 / 174	20	21	1	1.09
GP-90-13	30.6	45 / 354	27	29	2	0.7
GP-90-14	32.3	60 / 174	9	10	1	1.19
GP-90-15	30.85	55 / 174				
GP-90-16	30.75	55 / 174	28	30.75	2.75	2.25
GP-90-17	30.35	55 / 174	18	22	4	0.73
inc			25	29	4	0.81
FTD 1	145	45 / 174	48	56	8	2.27
inc			58	61	3	1.3
FTD 2	122.6	45 / 354	56	59	3	1.2
inc			76	81	5	2.22
FTD 3	121.5	45 / 354	74	76	2	7.69
inc			89	94	5	1.43
inc			104	107	3	1.8
FTD 4	153	45 / 354	44	54	10	0.92
inc			69	71	2	1.76
inc			140	145	5	1.9
inc			141	142	1	5.15

Eastwards along the Gog Range weak base metal mineralisation is associated with copper-bearing haematitic fracture fillings and quartz veins contained within the rhyolite porphyry, whereas localised lead-zinc-bearing quartz veins dominate in the adjacent volcanoclastics. Low levels of gold in samples from this eastern part of the grid, indicated no significant potential for gold mineralisation, thus no further exploration was undertaken.

Reconnaissance in the western portion of the tenement focussed on Roland Ridge where encouraging copper (0.23%) mineralisation was located in one of a series of ironstone fracture filling veins in rhyolite porphyry. However, subsequent limited soil sampling and detailed rock chips in old workings over the vein system failed to locate better values. The lack of gold-arsenic anomalism in the ironstone's indicated this system is unrelated to the Fire Tower style mineralisation, and thus did not warrant further work. The source of Au- base metal anomalism in drainage's south and east of the Roland Ridge was not found. It is possible there remains potential in this area to locate another prospect similar to Firetower.

Despite the encouragement of extensions at Firetower, no further work was approved by Plutonic, and the licence was subsequently relinquished by Homestake in August 1998.



GOLD GEOCHEMISTRY

- >1.0 g/t Au
- >0.5 g/t Au
- >0.1 g/t Au



SCALE 1 : 5,000

SIROCCO RESOURCES NL

COMPILED: R. Close
 CHECKED: R. Close
 DATE: 23.2.1999
 DRAWN: Sun Drafting
 REF: EL 25/98
 REVISION: 30.5.00

**FIRE TOWER
 PROSPECT GRID
 AND TARGET SEQUENCE**

DRAWING No.
 MRARD003 WOR

PROJECTION: Zone 55 / AGD84

FIG. No.

4

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7.0 EXPLORATION CONDUCTED

7.1 Introduction

Sirocco Resources has completed the following Stage1 work program:

1. Literature review of previous exploration and production of regional tenement and geological maps.
2. Digital compilation of all Firetower drill hole traces, mineralised intersections and mineralised rock chip geochemistry.
3. Establishment of an AMG grid at Firetower with a 4505000E base line one kilometre long and 80 m spaced, 300-m long cross lines. A total of 4.1 line kilometres of gridding was completed by tape and compass.
4. Collection of 135 B/C horizon soil-bedrock samples on the grid generally at 20 metre spacing except on the grid margins where samples were taken at 40-m intervals.
5. Collection of 43 rock chip or rarely chip channel samples in previously poorly sampled sections of the prospective altered stratigraphy, mainly east of the drilled area.
6. Examination of critical drillcore at the MRT core library to identify the essential mineralised lithologies and footwall - hangingwall sequences, and become familiar with the alteration styles and types of mineralisation.
7. Detailed outcrop mapping on the new grid to compliment the existing excellent map produced by Grant Macdonald in 1992.
8. Production of a digital basemap, interpretive geology and geochemical plans.
9. Compilation of this annual report detailing Stage1 exploration.

7.2 Gridding

An AMG datum of 5405000mN,446000mE central to the Firetower prospect was chosen to compliment the existing drilling data which is mostly N-S oriented with the deeper holes at approximately 40 metre spacing. Grid lines pegged at 20 metres were spaced at 80 metre intervals with some 40-m infill lines in the Central zone (Figure 4). Lines are generally 300 metres long to allow for adequate coverage of the hangingwall and footwall sequences. Initial control was established on the old grid and the old pegs were located so that all previous data could be incorporated in the new database and grid maps. The grid totalling 4.1 line kilometres was established over one week in early April by Ian Rogers and Associates. They used standard track cutting gear to allow a one metre walk space along lines particularly in jungle covered scree slopes in the topographically lower parts of the grid.



Photo 3. Bob Close mapping at Firetower Prospect.
Note Rhyolite outcrops on ridge.



Photo 4. Ian Rogers rockchip sampling along ridge

The geology of the Firetower prospect is well described by Macdonald and Tomlinson (1992) and Macdonald (1993). The current mapping and drill core examination has confirmed their overall interpretations of the sequence and the style of polymetallic gold-rich mineralisation. Recent outcrop and float mapping has however allowed more definite correlations of distinct units in the sequence and together with drillhole data has led to a revised lithological and structural interpretation of the prospect. This interpretation is discussed below and presented in Plan 1.

7.3.1 Stratigraphy and Structure

Mapped bedding orientations in siltstone-vitric tuff and grading in volcanoclastic outcrop as well as drill core define a northerly facing lithological sequence with moderate to steep dips ranging from 55° to 85°. Dip directions throughout the prospect are commonly in an arc from NNW to NNE. In the Central zone, dips are steep with local slight overturning to the south, and minor folding in siltstones is evident in the FTD1 drillcore and other drill sections. The sequence appears conformable despite considerable local high angle shearing and brecciation in outcrop and in drillcore marking the northern contact between mineralised volcanoclastics and barren overlying siltstones in the Central area.

It is evident the Central zone has been subject to considerably more brittle deformation and associated hydrothermal activity than areas along strike.

A set of shallow dipping, poorly mineralised quartz-carbonate-sulphide tensional gash veins which overprint the mineralised zone and adjacent barren rhyolite lava, could be related to a late tectonic event such as the Mid Devonian Tabberabberan Orogeny.

In general, the stratigraphy of the prospect relates to a virtual cross section through a rhyolite lava dome and its overlying proximally derived felsic volcanoclastics, grading out along strike into finer distal sediments.

Footwall Sequence

The basal felsic volcanic unit is a fine to medium grained, massive generally quartz-feldspar phyric rhyolite porphyry at least 150 metres thick. The lower unaltered part outcrops poorly in the southern scree slopes, however, the upper part outcrops boldly along a ridge south of the Central mineralised zone. The ridge comprises a carapace of pervasively altered cream-beige coloured massive aphyric rhyolite, and associated weakly quartz porphyritic vitric crystal tuff with rare lithic and pumice fragments.

The moderate to strongly silica-sericite-carbonate and weakly pyritic (tr-1%) alteration zone contains a fine network of quartz-carbonate veins up to 50 metres thick tailing off to approximately 10 metres elsewhere along strike.

This alteration is generally barren of gold-base metal mineralisation but has not been drill tested at depth.

The presence of localised quartz-haematite vein mineralisation to 0.4 g/t Au serves to suggest hydrothermal fluids may have passed through the rhyolite lava dome and up into the overlying strongly mineralised felsic volcanoclastics.

A pathway for hydrothermal fluids could be associated with a NNW oriented dextral cross fault zone that has been interpreted to displace the rhyolite up to 50 metres in outcrop between the 5840E and 5920E lines, refer Plan 1. It is possible that this structure lies close to the old 24E grid line because the steep cliffs of the Central zone start here.

This fault zone may be a reactivated growth fault because of the apparent greater thickness (50m) of the mineralised volcanoclastic sequence east of this structure compared to 25 metre thick exposures west of 5900E. Alternatively, the stronger mineralisation to the east could be merely a reflection of a greater degree of structural preparation and accompanying alteration by flexure of the sequence over the top of the rhyolite dome compared to its flanks.

Host Volcanoclastics

Overlying the rhyolite unit is the 50-100 metre thick variably altered and mineralised host volcanoclastic sequence, comprising lithic pumiceous crystal tuffs grading to quartz pyritic sandstones and tuffaceous siltstones with interbedded vitric-ashy tuffs.

The lower 15-40 metres of this package is generally barren and weak to moderately silica-sericite-(pyrite) and chlorite altered with common thin poorly sulphidic quartz-carbonate veins. Finer lithologies are dominant including a prominent black to grey siliceous siltstone up to 5 metres thick beside the drill access track at 6080E, 5080N. This near vertically bedded finer clastic sequence outcrops rarely in scree slopes but was intersected towards the bottom of drillhole FTD1.

All the other drillholes in the Central zone tested the upper generally coarser, lithic and strongly altered part of the volcanoclastic sequence.

The latter mineralised sequence contains mainly quartz-feldspar pyritic crystal lithic reworked tuffaceous sandstones, locally grading in mass flows from chloritic lithic, and pumiceous volcanic breccia to well bedded tuffaceous siltstones. Several mineralised black siltstone to green vitric tuff horizons intersected in drill holes GP-90-6/7/10 and FTD 2, 3, 4 provide a useful marker for drillhole correlation purposes.

The volcanoclastics are more pervasively altered, fractured and stockwork veined in the upper 30-50 metres where they form a prominent outcropping ridge from 5900E to 6050E, (Plate1).

To the east for 100 metres along strike sparse outcrops of the host sequence becomes progressively less phyllic altered, veined and mineralised. The sequence appears to merge laterally into relatively undeformed volcanoclastic sandstones and siltstones with a chloritic-propylitic assemblage typical of the rest of the Gog Range Formation.

To the west of the Central cross fault, across a steep gully, the mineralised sequence continues in outcrop with diminished thickness (20m) and alteration intensity for a further 150 metres until it cannot be traced in scree cover. This area exhibits less deformation, only minor sulphides and more chloritic alteration than the Central zone.

Hangingwall Sequence

The relatively unaltered and unmineralised hangingwall sequence can be subdivided into two zones. A lower 20-40 metre thick basal interbedded siltstone-chloritic vitric tuff and graded coarse to fine sandstone, overlain by thick horizons of coarser chloritic lithic and pumiceous mass flow tuffaceous quartz phyric sandstones and volcanic breccias with minor interbedded graded siltstones-sandstones. The coarse volcanoclastics that form the resistive ridge of Firetower Hill to the north are occasionally siliceous and contain minor haematite veining. This veining is generally N-S trending and steep whereas the cleavage is NNW trending and dipping to the south west parallel to the regional fault trend.

7.3.2 Mineralisation

Gold mineralisation at Firetower occurs within intensely fractured, stockwork veined and brecciated, silica-sericite-siderite-pyrite altered volcanoclastic sediments. Previous ore microscopy showed hypogene electrum of high fineness is localised as veinlets in chalcopyrite and in fractured pyrite within quartz-sulphide veins. The associated mineralogy includes iron-poor sphalerite, galena, arsenopyrite, pyrrhotite, bismuthinite and barite. Later quartz-carbonate veins contain galena and scheelite. In the oxidised – supergene zone from surface to 15 metres depth, lower fineness electrum occurs with quartz and iron hydroxides, mainly goethite and lepidocrocite after pyrite and chalcopyrite.

The better gold grades occur in the more sulphidic (>2% py), and snowflake textured carbonate altered breccia zones, that are poorly defined and probably irregularly distributed in broader east-west trending vein stockworks. Sulphide distribution is mainly veiniform, but in the more intensely altered zones, disseminated and blebby-stringer pyrite is present to 2-5% with minor accompanying galena, chalcopyrite or arsenopyrite. The highest gold grades, up to 30.0 g/t Au in GP-90-10, were encountered in the supergene zone.

This zone exhibits gossanous pyritic aggregates up to 10% and quartz-pyrite veins with chalcopyrite partially oxidised to malachite and other ferruginous supergene products.

The strongly veined and altered volcanoclastics extend in outcrop over a strike of 350 metres (5700E-6050E) and a width of 20-70 metres. On the basis of limited outcrops, scree mapping and IP chargeability data, the alteration zone clearly extends at least a further 100 metres to the east. This latter extension remains untested, and based on the significant mineralisation in FTD 1 (8m @ 2.3 g/t Au) beneath relatively subdued surface geochemistry, there remains good potential to increase the strike extent of the known mineralisation in this area.

Further east on the 8320E line, mineralisation appear to be confined to narrow shears or haematitic breccia zones close to the contact or within the altered rhyolite. The 30.1 g/t rock sample 15713 collected by Plutonic in this area appears to be an isolated zone with no size potential.

The western part of the mineralised sequence west of drill holes GP-90-11-14 on the 5840E line also remains untested. However, given the generally weak mineralisation in these holes and the diminishing IP, alteration intensity and soil geochemistry further west, it appears the system is gradually dying out along strike.

Nevertheless, the presence of rock chips to 1g/t near the western limit of outcrop at 5720E suggests this area may be worthy of more evaluation.

The Central zone where previous drilling has been focussed continues to be the key to the definition of a significant resource at Firetower.

Given the results of the deeper holes did not provide evidence of underground ore potential, exploration should concentrate on the open cut potential to 50 metres depth.

7.4 Geochemistry

Previous soil and rock chip channel sampling of the prospect had effectively defined the mineralised sequence and outlined the outcropping Central zone for subsequent drill evaluation (Plans 2 and 3). However, extensive areas along strike covered by scree may not have been properly tested given the presence of underlying IP anomalism (Figures 10 and 11) and occasional high gold values in rock chips.

Therefore, Sirocco conducted further detailed soil and rock sampling in these areas to define additional drilling targets.

7.4.1 Soils

The entire new AMG grid (Figure 4) was sampled at 20 to 40 metre intervals with the closer spaced sampling over the prospective host

652022

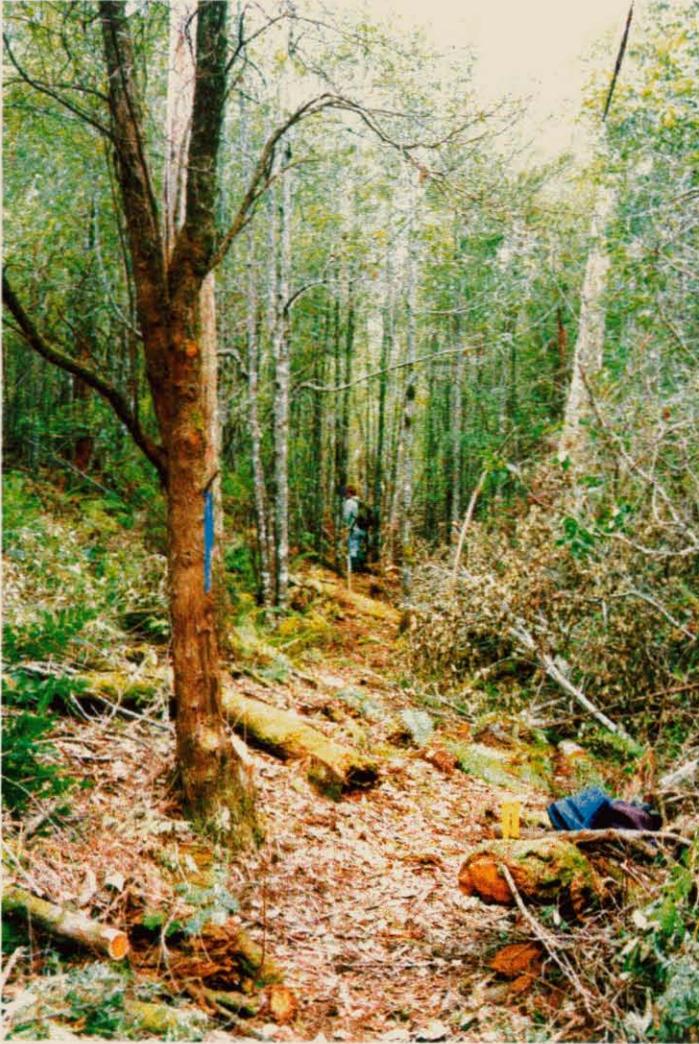


Photo 5.

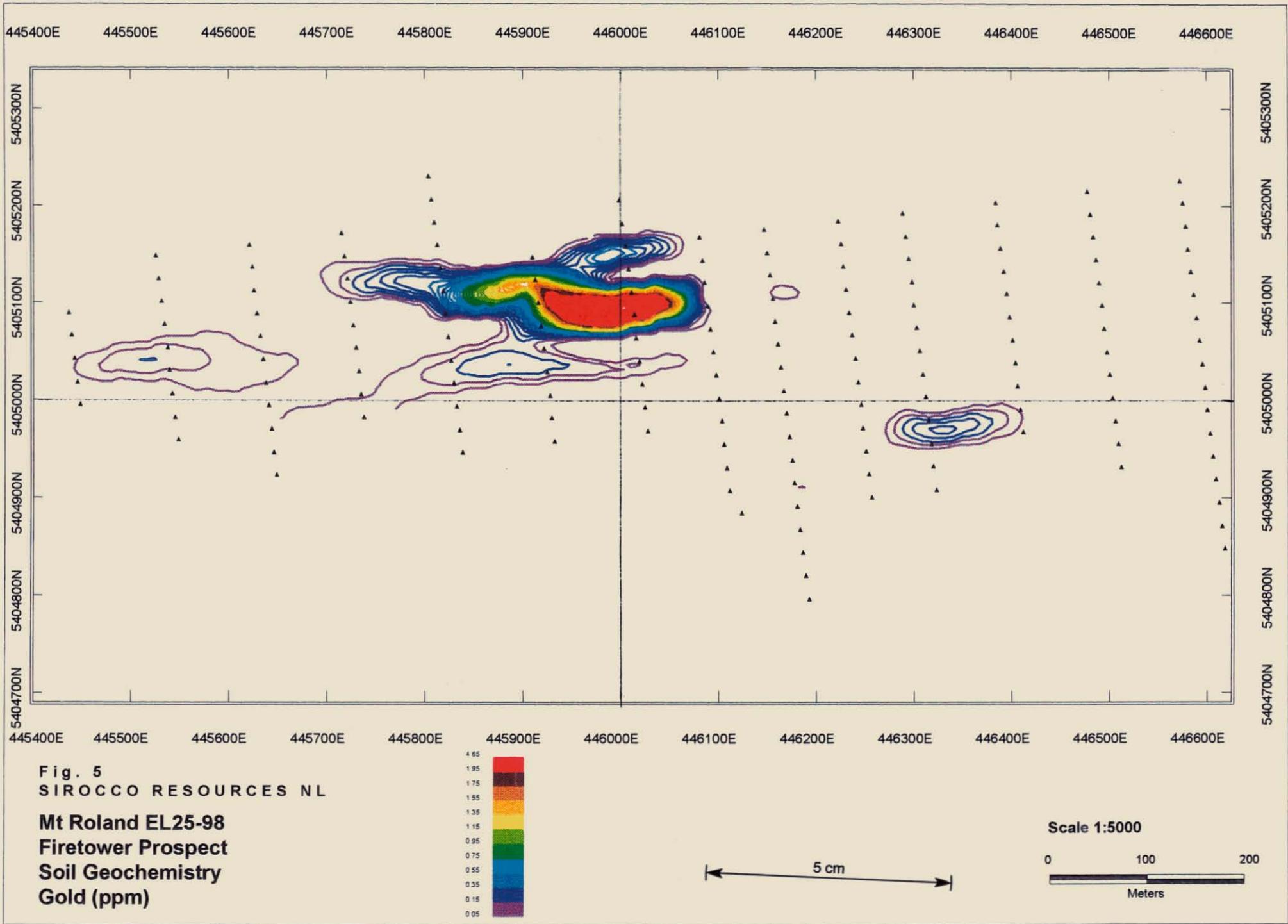
Typical gridline in scree slopes in western grid area 5680E line.

Photo 6.

Soil sampling below Rhyolite ridge outcrop 6080E line.



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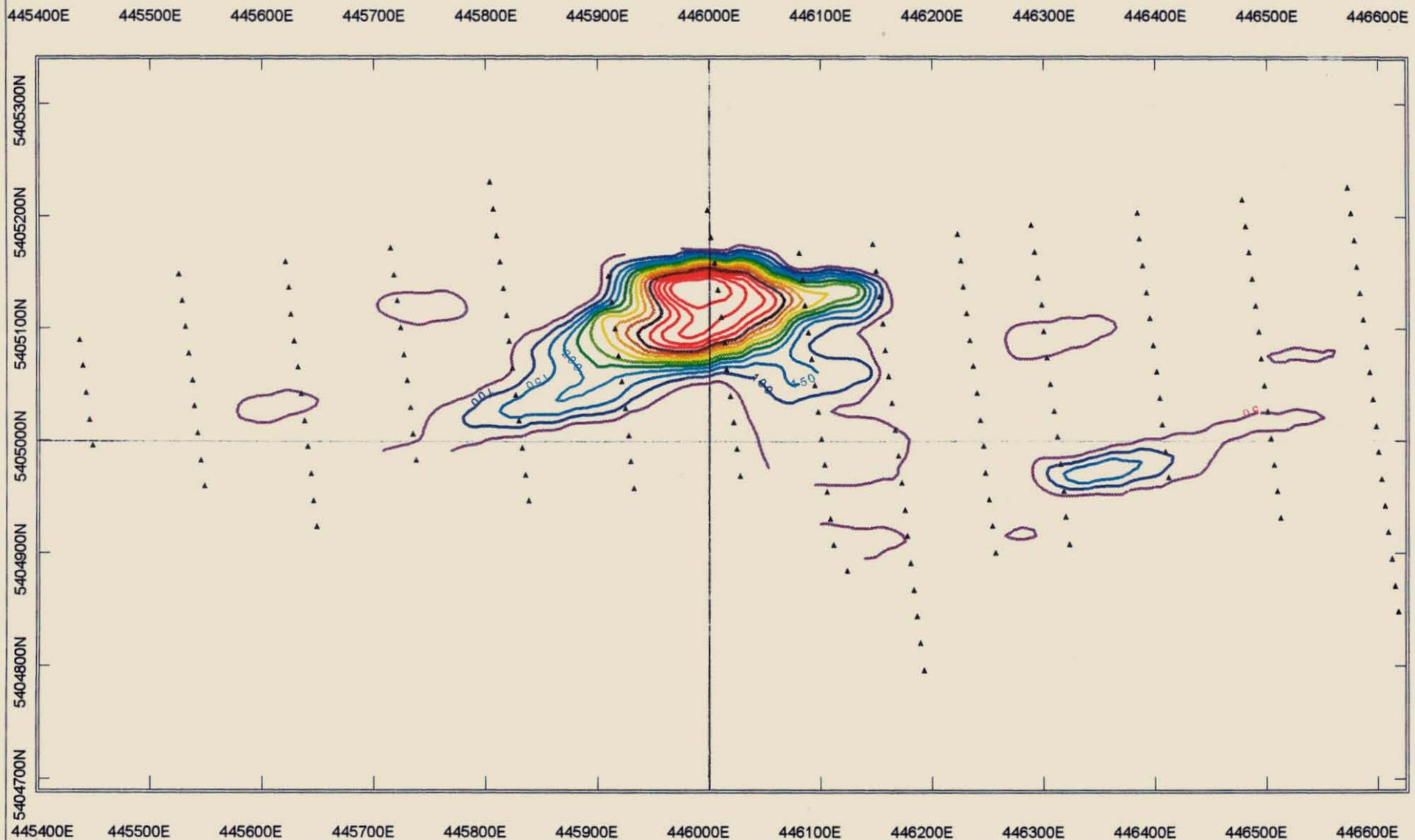
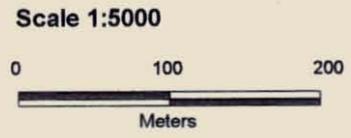
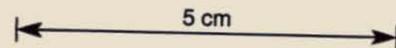
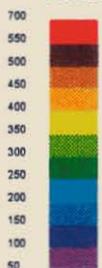
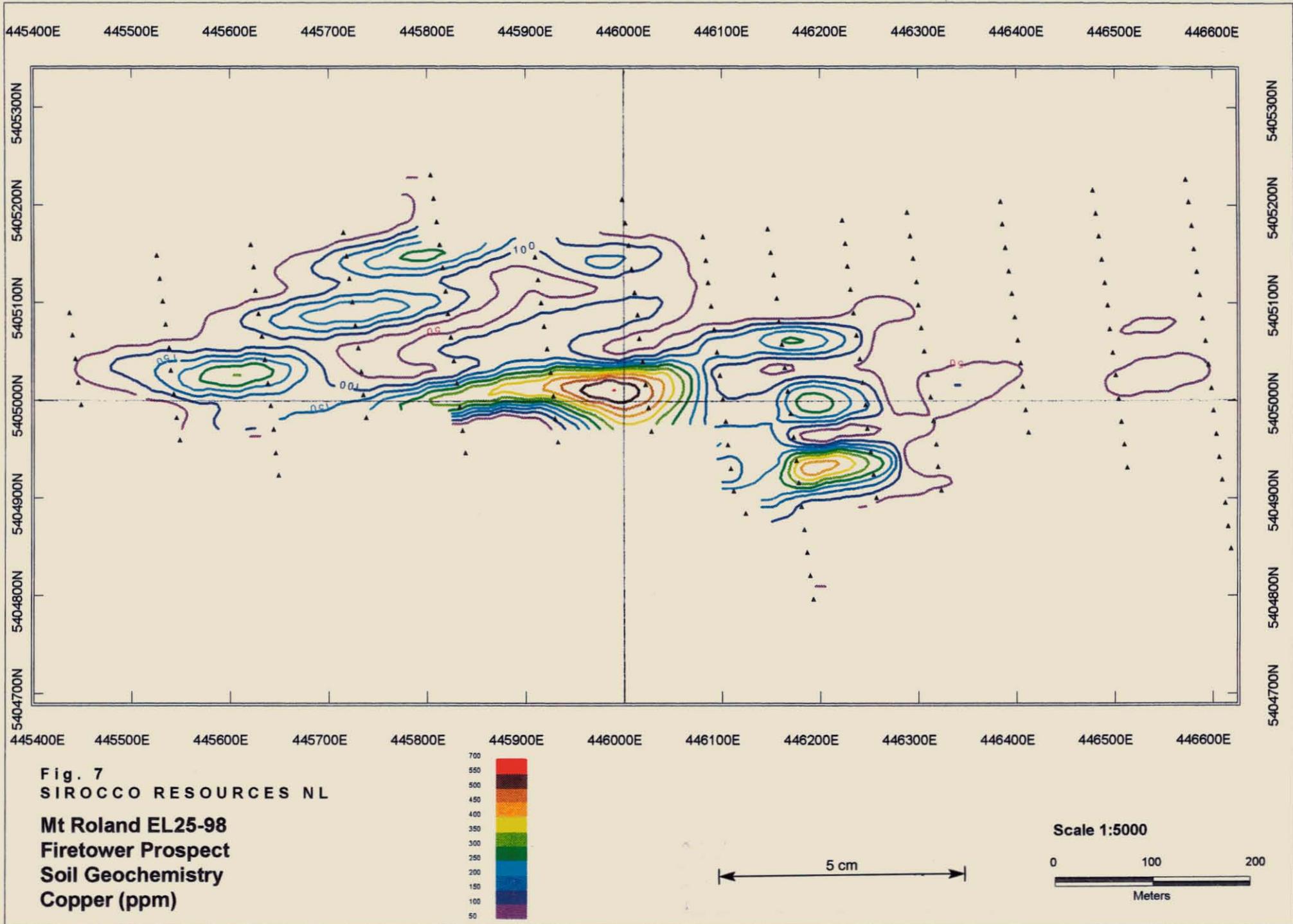


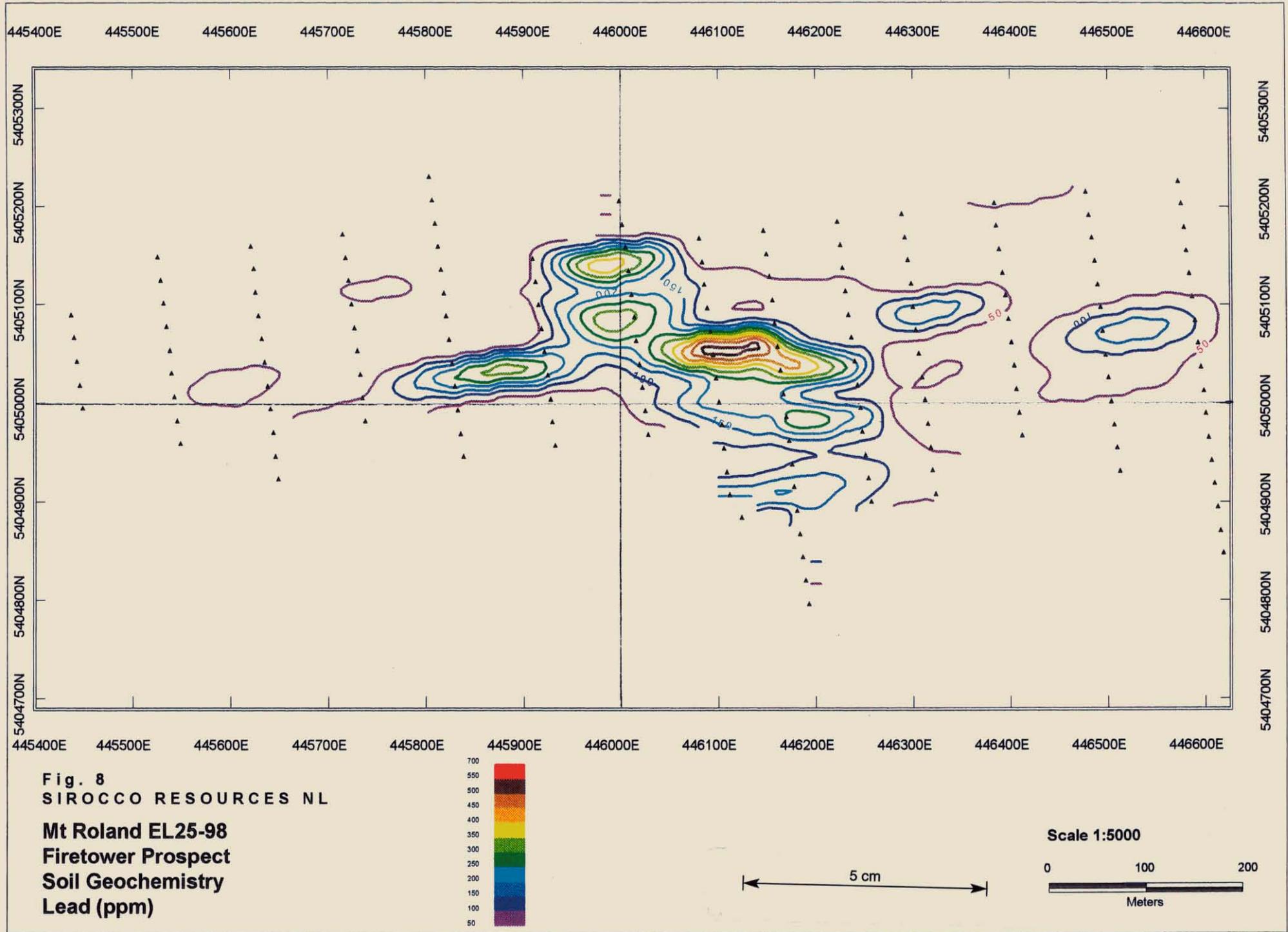
Fig. 6
SIROCCO RESOURCES NL
Mt Roland EL25-98
Firetower Prospect
Soil Geochemistry
Arsenic (ppm)



652025



652026



652027

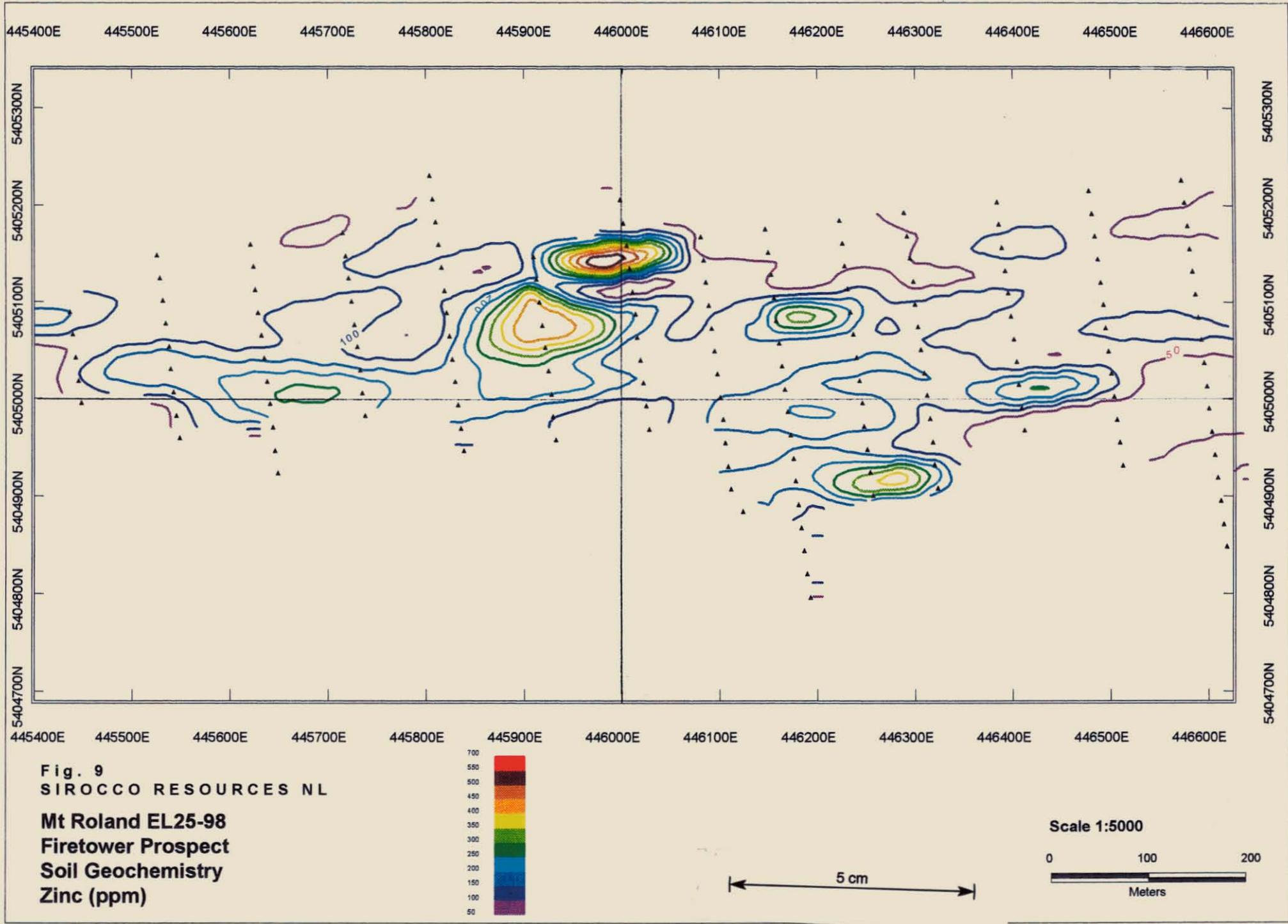
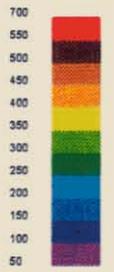


Fig. 9
SIROCCO RESOURCES NL
Mt Roland EL25-98
Firetower Prospect
Soil Geochemistry
Zinc (ppm)



sequence. Sample locations, descriptions and results are presented in Appendix 1 and shown in Plans 3 & 4 and Figures 5 and 6.

A total of 135 B-C horizon (insitu) samples (FT1000-1134) were taken just above bedrock, sieved on site to -20# and sent to the nearby Analabs facility at Burnie. These samples as part of job no BUO17752 were processed and analysed in exactly the same standard manner as the original Plutonic samples to allow direct comparison of the data sets. Samples were dried, sieved to -80#, then analysed for gold by fire assay method F650 and for arsenic by AAS method 102.

The other base metals were not assayed because the original geochemistry showed As had the best correlation with Au, and the preliminary Au results matched very well with the previous data thus making additional Cu, Pb, and Zn values superfluous.

As expected, the best gold results were in the Central zone, where 10 values were >0.5 g/t with a maximum of 5.25 g/t Au in the western part of the Central ridge close to outcropping mineralisation of 1-5 g/t Au. (Figure 5 and Plans 2 & 3.)

Gold distribution and values are on a par with earlier work, which has now been validated. No new zones were located but slightly anomalous east and west strike extensions to the main zone were defined which correlate with mapped alteration and rock geochemistry. Gold soil geochemistry from Sirocco and Plutonic surveys is plotted in Figure 5.

Arsenic values are closely tied to gold and reach a maximum of 540 ppm on top of the ridge in the Central zone above the high grades in drillhole GP-90-10.

The only significant values >50 ppm outside the Central zone lie along strike east to 6160E. Clearly, this area shown in Figure 6 and Plan 4 represents a priority exploration target.

The base metal results from Plutonic work are considered highly relevant and have therefore been digitised and presented in Appendix 3 and as Cu, Pb and Zn contour plots in Figures 7 - 9.

7.4.2 Rocks

A total of 43 rock chip samples, numbered FT2000-2042 were collected from prospective strike extensions of the known mineralisation. The majority of these were taken in the eastern part of the Central area at 6040E to 6320E where previous sampling had achieved encouraging values including 30.1 g/t and 2.2 g/t Au. All main lithologies and alteration types were sampled to provide better control of the mineralised target zones. The 2-4 kg samples were processed at Analabs in Burnie and assayed for Au by method F650 and for Cu, Pb, Zn, As by AAS 102.

Results presented in Appendix 2 and Plans 1 & 2 were generally disappointing with only four values greater than 0.5 g/t Au.

The best value at 11.2 g/t was a repeat sample of Plutonic gossan no 15713, which assayed 30.1 g/t and no extensions were found to this small isolated outcrop despite surrounding sampling.

The gold soil geochemistry also indicates this is an isolated anomaly within a background base metal anomalous trend along the alteration zone around the contact of the rhyolite and volcanoclastics.

The potential eastern extension of Firetower has now been demonstrated to exhibit weakly anomalous gold and base metal anomalism in rock chips as well as soils. Peak values of 0.23 and 0.27 g/t Au in samples FT 2017 & 2020 are associated with Cu-170 ppm, Pb-1175 ppm, Zn-1033 ppm and As-130 ppm. These results indicate limited potential for near surface mineralisation but scope at depth if the Central zone plunges east beneath relatively barren cover.

The footwall altered and quartz veined rhyolite to the south east is locally mineralised with sample FT 2026 on the 6240E line grading 0.49 g/t Au and low base metals. This result matches a nearby Plutonic sample no 15711 which gave 0.46 g/t Au and serves to highlight the presence of mineralising fluids in this eastern area.

The western target area has provided more interest with two contiguous rock chip channels FT2002-03 over 5 metres which gave 0.97 g/t and 0.66 g/t Au with low base metals, particularly arsenic. These samples were taken from almost the last outcrop on the western end of the mapped target zone at 5720E about 120 metres west from the nearest drilling. This geochemistry confirms the poor base metal expression in soils over this area and together with the low sulphide content in drillholes GP-90-13 & 14 suggests a peripheral style of mineralisation is present in the western area.

However, the highly anomalous rock Au values suggest more detailed sampling and perhaps drilling is warranted to fully test this area.

7.5 Geophysics

In 1990, Surtec Geosurveys conducted a six line of 25-metre dipole-dipole IP survey over 600 metres of strike encompassing the Firetower prospect. Supervised by John Bishop of Mitre Geophysics, the survey produced good data that demonstrates a major chargeability anomaly up to five times background centred over the known mineralisation. This ESE trending linear anomaly up to 100 metres wide encompasses the strike extensions of the altered host sequence from 5700E to 6250E (23E-27E) with a gradual but definite weakening of anomalous response towards both ends of the survey area.

Detailed interpretation of the survey by Bishop and others (Jones, 1990 & 1991) defined two sub-parallel IP trends and partly coincident resistivity zones referred to as the northern and southern zones. Subsequent work has shown the northern trend was related to the upper strongly sulphidic mineralised volcanoclastics and their abrupt northern contact with the unaltered hangingwall sequence. The southern trend is associated with the altered footwall rhyolite and overlying weakly mineralised fine-grained volcanoclastics.

Sirocco digitised the IP data, presented in Appendix 5, and produced chargeability and resistivity images shown in Figures 10 & 11. Due to the 25-m electrode spacing of the survey, depth penetration is limited to perhaps 50 metres or less, therefore there was no value in attempting any modern depth slice modelling of this data.

Peak IP and associated resistivity responses occur on the 25E-25.8E lines and are clearly related silica-pyrite alteration in the outcropping Central mineralised zone to the north, and the southern ridge of footwall altered vitric tuffs and rhyolite.

The eastern extensions of these zones for several hundred metres remain untested and represent an obvious target for discovery of further mineralisation

The barren rhyolite porphyry to the south has no IP response and is only weakly resistive, whereas the hangingwall coarse clastics on Firetower hill exhibit strong resistivity presumably related to pervasive silica-chlorite alteration.

The resistivity data provides support for the existence of cross faults, particularly at the western end of the Central zone where a resistive high over the silicified ridge cuts out and its possible extension is offset to the north west over the western mineralised trend.

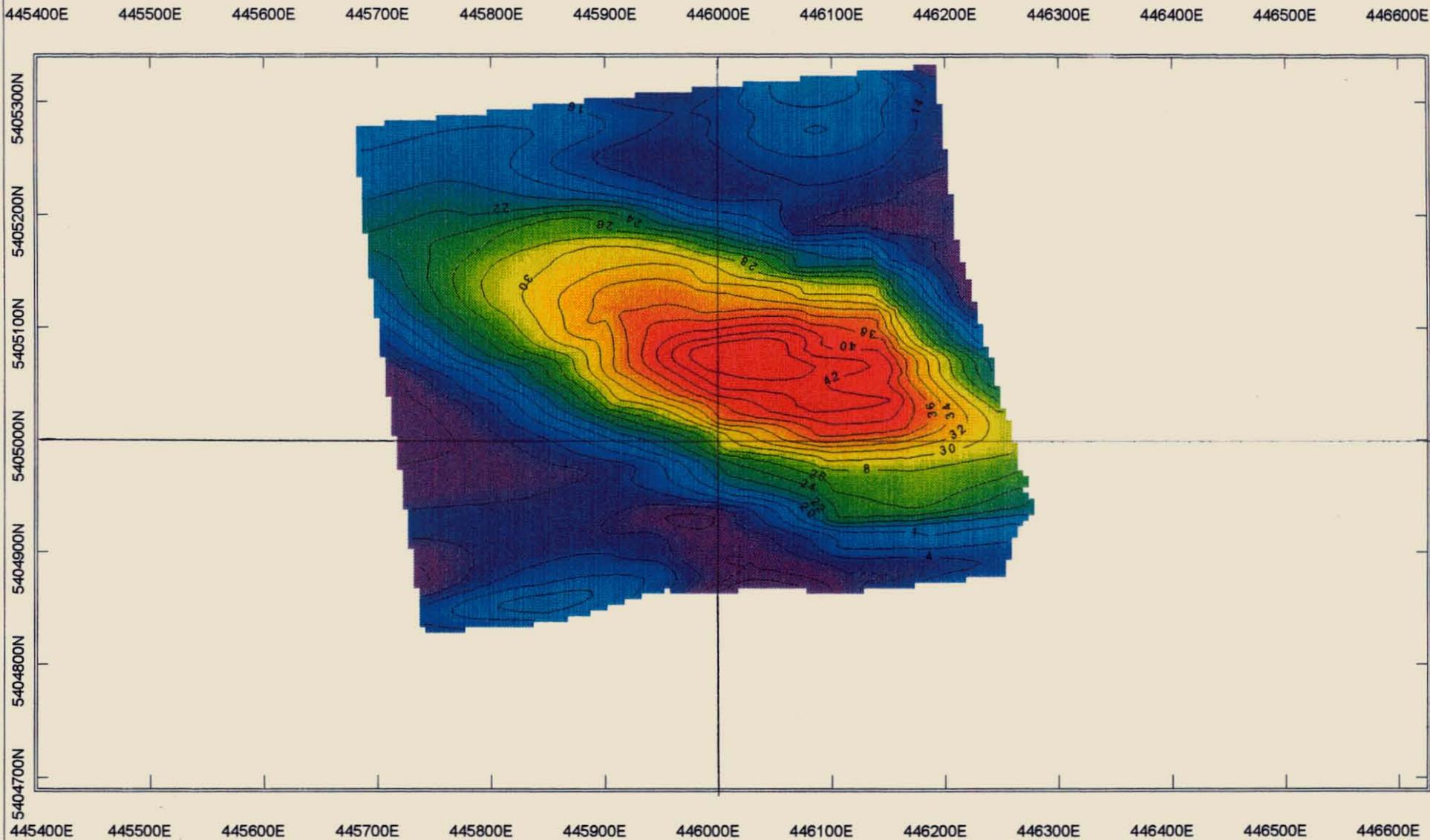
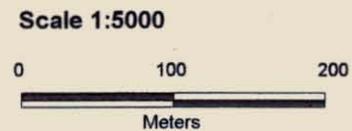
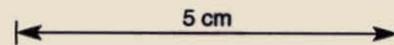
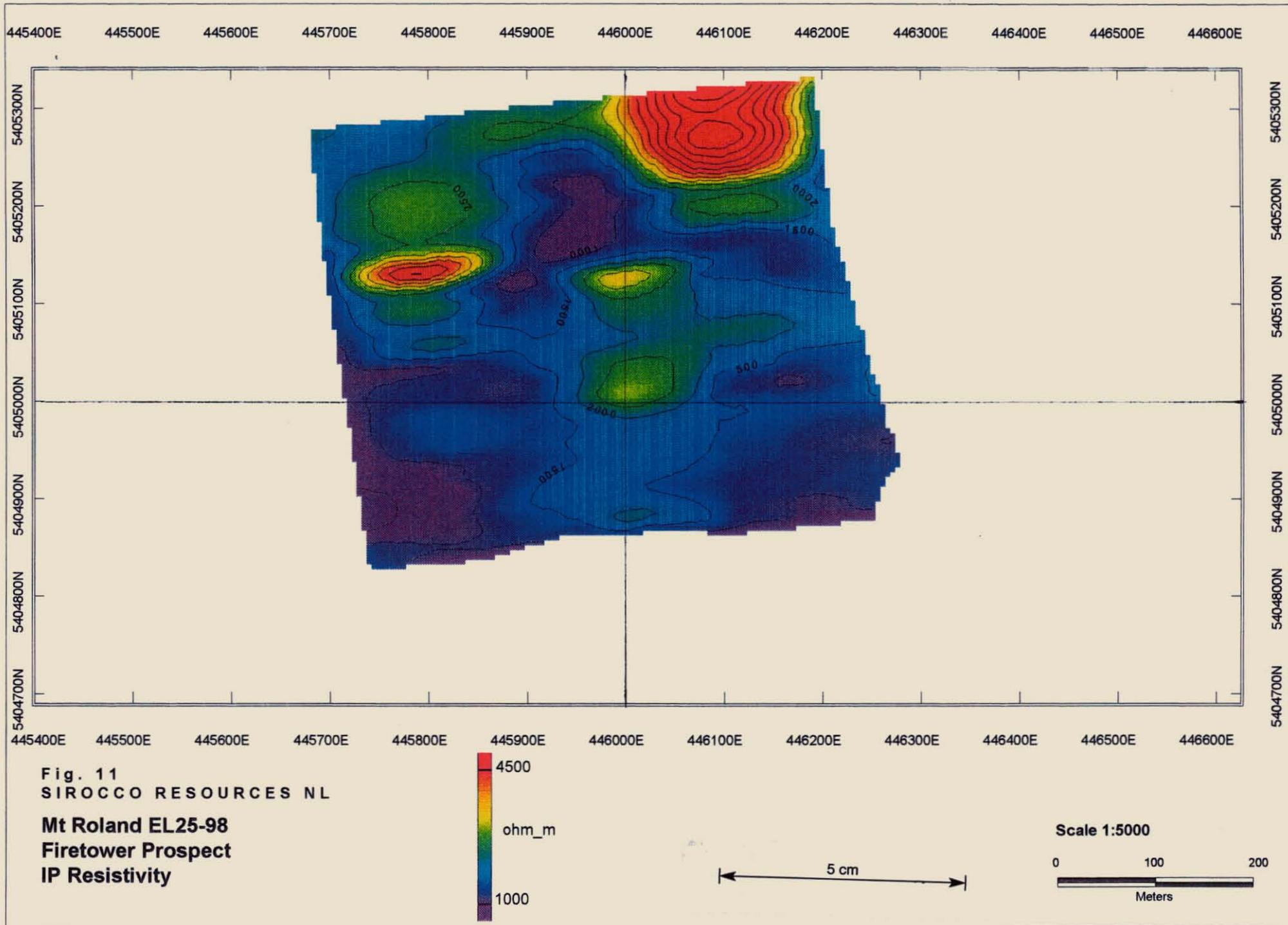


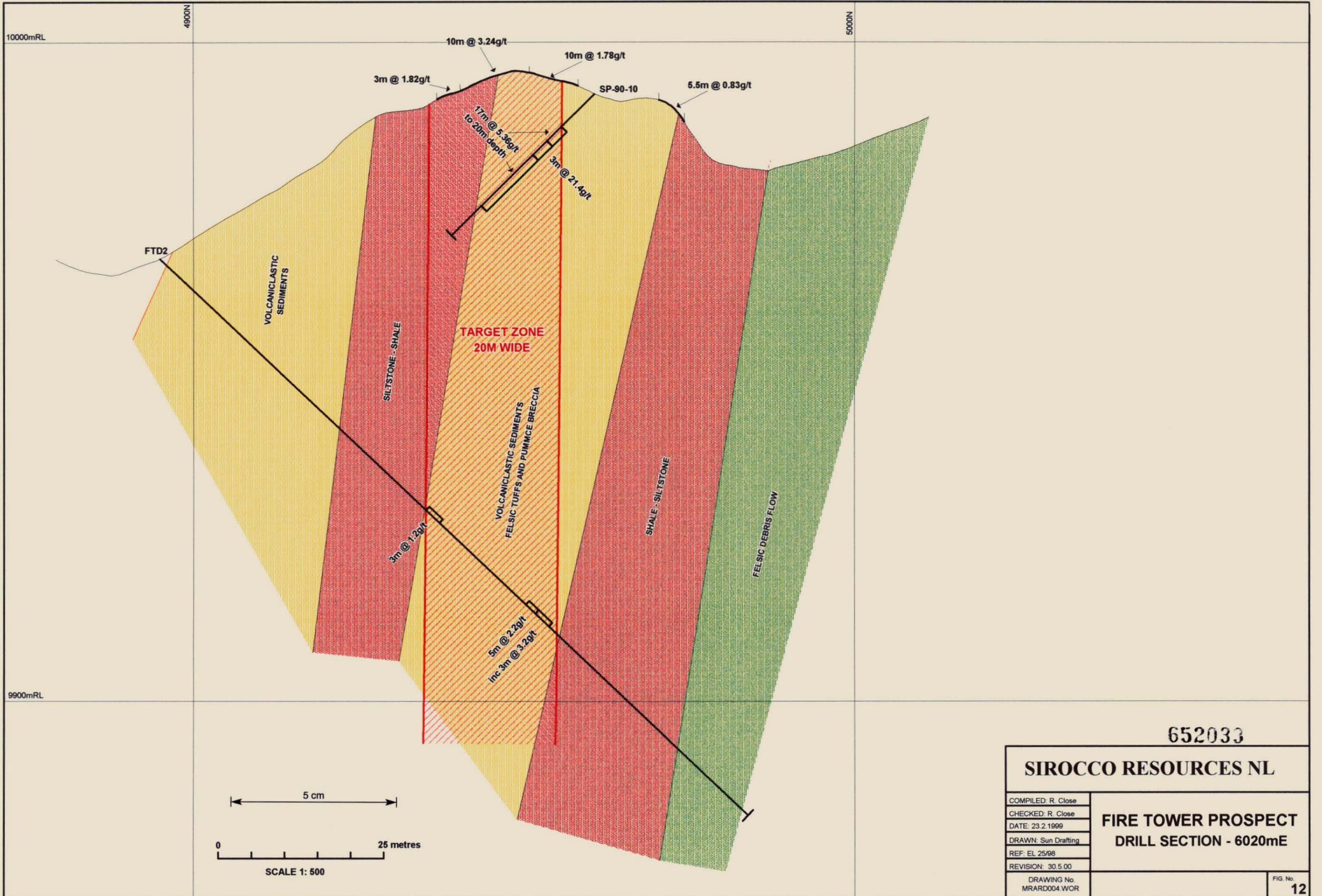
Fig. 10
SIROCCO RESOURCES NL
Mt Roland EL25-98
Firetower Prospect
IP Chargeability



652031

652032





652033

SIROCCO RESOURCES NL

COMPILED: R. Close
 CHECKED: R. Close
 DATE: 23.2.1999
 DRAWN: Sun Drafting
 REF: EL 25/98
 REVISION: 30.5.00

**FIRE TOWER PROSPECT
 DRILL SECTION - 6020mE**

DRAWING No.
 MRARD004.WOR

FIG. No.
12

8.0 CONCLUSIONS

The Firetower prospect contains a broadly stratabound 350m x 30-70m quartz-carbonate-sulphide mesothermal vein stockwork within a pervasive silica-sericite-carbonate envelope hosted by felsic volcanoclastic tuffaceous sandstones and siltstones. The prospect is well exposed on a high ridge and has a coincident strong Au - As (Cu-Pb-Zn) geochemistry and IP anomalism related to the sulphides.

Exploration conducted by Sirocco during the period has confirmed previous mapping and geochemical data, which indicated a definite weakening of alteration intensity and associated gold-base metal anomalism away from the previously drilled Central zone.

There is sufficient evidence however, from float mapping, Au-(As) geochemistry and the IP data, to establish strike continuation of the sulphidic target zone for at least one hundred metres east and west of the known mineralisation. These extensions represent critical exploration targets for definition of a significant resource at Firetower.

Better grade (>2 g/t Au) mineralisation in the Central zone is structurally controlled within steeply dipping vein sets that are insufficiently tested to be well correlated or to define the presence of high-grade shoots. The existing +5 g/t Au drill intersections are relatively narrow (1-3 metres) and the best - 3m @ 21.4 g/t at 10 metres depth in GP-90-10 probably represents a supergene enriched zone.

Evidence from the four deeper diamond holes over a strike of 120 metres, indicates the mineralisation is patchy and the tenor does not change at 50-70 metres depth. This suggests that the prospect has limited high-grade tonnage potential and currently there is insufficient data to calculate a resource.

On the basis of existing drilling and surface geochemistry the Central target area is estimated to contain open-cut mineralisation down to 50 metres (200x20x50x2.5 (SG)) in the order of 500,000 tonnes @ 2g/t Au (35,000 ozs).

Further drill evaluation should concentrate on defining the shallow open-pit resource potential of the Central zone and its immediate extensions up to 100 metres along strike.

There is scope for definition of higher-grade breccia-hosted zones within the steeply dipping low-grade (1-3 g/t) halos of stockwork vein mineralisation, however, it is most important to initially establish overall continuity of mineralised zones by conducting broad-spaced infill drilling.

9.0 RECOMMENDATIONS

It is proposed that five 80 metre long infill drillholes at 40 m centres is adequate to initially test the continuity for bulk tonnage 2-3 g/t mineralisation in the Central zone down to 50 metres depth. Three to four additional holes would be required to evaluate the shallow strike extensions.

It is recommended that this work be undertaken using a combination of track mounted reverse circulation diamond drilling rig for the easily accessible eastern holes, and a lightweight diamond rig in the steeper forest terrain to minimise environmental disturbance.

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EXPENDITURE STATEMENT October 1998 TO April 2000

	\$
Tenement	750
Geology	12,710
Gridding	5,353
Geochemistry	6855
Drafting	5353
Travel & Accommodation	5549
Overheads (10%)	3364
<hr/>	
TOTAL	\$37,006

APPENDIX 1
Sirocco Soil Geochemistry

652038

Northing	AMGE	AMGN	Sample No (FT)	Horizon	Depth (M)	Colour	Mesh#	Analabs Job No	As ppm A102	Au ppm F650	Au ppm Repeats
								L Dect Lim	50	0.01	0.01
								U dect Lim	5000	10000	10000
5200	446080	5405200	1000	A-B	0.5	Dk Br	-80	BUO17752	<50	<0.01	-
5160	446080	5405160	1001	B-C	0.8	Lt Br	-80	BUO17752	<50	<0.01	-
5140	446080	5405140	1002	B-C	0.4	Lt Br	-80	BUO17752	<50	0.02	-
5120	446080	5405120	1003	B-C	0.4	Lt Br	-80	BUO17752	<50	0.05	-
5100	446080	5405100	1004	B-C	0.3	Lt Br	-80	BUO17752	460	0.66	0.66
5080	446080	5405080	1005	B-C	0.2	Lt Br-Gy	-80	BUO17752	<50	0.12	-
5060	446080	5405060	1006	B-C	0.3	Lt Br-Gy	-80	BUO17752	<50	0.06	-
5040	446080	5405040	1007	B	0.2	Dk Br-Gy	-80	BUO17752	<50	<0.01	-
5020	446080	5405020	1008	B	0.2	Dk Br	-80	BUO17752	<50	<0.01	-
4980	446080	5404980	1009	B-C	0.2	Lt-Dk Br	-80	BUO17752	<50	0.03	-
4940	446080	5404940	1010	B-C	0.4	Lt-Dk Br	-80	BUO17752	<50	0.04	-
4900	446080	5404900	1011	B-C	0.3	Dk Br-Gy	-80	BUO17752	<50	0.02	-
5200	446160	5405200	1012	B	0.3	Dk Br	-80	BUO17752	<50	0.04	-
5160	446160	5405160	1013	B-C	0.2	Dk Br	-80	BUO17752	<50	0.02	-
5140	446160	5405140	1014	A-B	0.3	Dk Br	-80	BUO17752	<50	<0.01	-
5120	446160	5405120	1015	B-C	0.4	Br	-80	BUO17752	<50	<0.01	-
5100	446160	5405100	1016	B-C	0.4	Lt Br	-80	BUO17752	<50	<0.01	0
5080	446160	5405080	1017	B	0.4	Dk Br	-80	BUO17752	<50	0.02	-
5060	446160	5405060	1018	B-C	0.5	Dk Br	-80	BUO17752	180	0.05	-

652039

Northing	AMGE	AMGN	Sample No (FT)	Horizon	Depth (M)	Colour	Mesh#	Analabs Job No	As ppm A102	Au ppm F650	Au ppm Repeats
5040	446160	5405040	1019	B	0.4	Dk Br	-80	BUO17752	65	0.04	-
5020	446160	5405020	1020	B	0.2	Br	-80	BUO17752	<50	0.06	-
5000	446160	5405000	1021	B	0.5	Dk Br	-80	BUO17752	<50	0.02	-
4980	446160	5404980	1022	B-C	0.4	Dk Br	-80	BUO17752	<50	0.03	0.04
4960	446160	5404960	1023	B	0.4	Dk Br	-80	BUO17752	<50	0.01	-
4940	446160	5404940	1024	B	0.3	Dk Br	-80	BUO17752	<50	0.01	-
4900	446160	5404900	1025	B-C	0.4	Lt Br-Gy	-80	BUO17752	<50	0.02	-
4900	446240	5404900	1026	B-C	0.5	Lt-Dk Br	-80	BUO17752	<50	0.02	-
4940	446240	5404940	1027	B-C	0.3	Lt-Dk Br	-80	BUO17752	<50	0.01	-
4960	446240	5404960	1028	B-C	0.3	Lt-Dk Br	-80	BUO17752	<50	0.01	-
4980	446240	5404980	1029	B-C	0.3	Lt-Dk Br	-80	BUO17752	<50	0.02	-
5000	446240	5405000	1030	B-C	0.3	Lt-Dk Br	-80	BUO17752	<50	0.05	-
5020	446240	5405020	1031	B	0.5	Dk Br	-80	BUO17752	<50	0.02	-
5040	446240	5405040	1032	B-C	0.2	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5060	446240	5405060	1033	B-C	0.3	Dk Br	-80	BUO17752	<50	0.01	-
5080	446240	5405080	1034	B-C	0.3	Dk Br	-80	BUO17752	<50	0.01	-
5120	446240	5405120	1035	B	0.5	Dk Br	-80	BUO17752	<50	0.01	-
5160	446240	5405160	1036	B-C	0.6	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5200	446240	5405200	1037	B-C	0.6	Lt-Dk Br	-80	BUO17752	<50	0.01	-
5140	446320	5405140	1038	B-C	1.2	Lt Br-Or	-80	BUO17752	<50	<0.01	-
5100	446320	5405100	1039	B-C	0.2	Lt-Dk Br	-80	BUO17752	<50	0.01	-
5060	446320	5405060	1040	B-C	0.4	Lt-Dk Br	-80	BUO17752	<50	<0.01	0
5200	445920	5405200	1041	B-C	0.5	Rd Br	-80	BUO17752	<50	0.01	-
5160	445920	5405160	1042	B-C	0.6	Rd Br	-80	BUO17752	<50	0.01	IS
5140	445920	5405140	1043	B-C	0.3	Lt-Dk Br	-80/+80	BUO17752	110	0.77/0.26	0.84

652040

Northing	AMGE	AMGN	Sample No (FT)	Horizon	Depth (M)	Colour	Mesh#	Analabs Job No	As ppm A102	Au ppm F650	Au ppm Repeats
5120	445920	5405120	1044	B-C	0.4	Lt-Dk Br	-80/+80	BUO17752	185	2.4/1.42	2.3
5100	445920	5405100	1045	B-C	0.3	Lt-Dk Br	-80/+80	BUO17752	165	5.25/2.30	5.05
5080	445920	5405080	1046	B-C	0.6	Dk Br-Bk	-80/+80	BUO17752	395	0.88/0.49	-
5060	445920	5405060	1047	B-C	0.2	Lt-Dk Br	-80	BUO17752	95	0.26	-
5040	445920	5405040	1048	B-C	0.5	Rd-Dk Br	-80	BUO17752	190	0.4	-
5020	445920	5405020	1049	B-C	0.3	Gy	-80	BUO17752	<50	0.03	-
4980	445920	5404980	1050	B-C	0.3	Lt-Dk Br	-80	BUO17752	<50	0.02	-
4940	445920	5404940	1051	B-C	0.3	Lt Br	-80	BUO17752	<50	<0.01	-
4900	445920	5404900	1052	B-C	0.4	Lt Br	-80	BUO17752	<50	<0.01	-
4900	445840	5404900	1053	B-C	0.3	Lt Br	-80	BUO17752	<50	<0.01	-
4940	445840	5404940	1054	B-C	0.4	Lt Br	-80	BUO17752	<50	<0.01	-
4980	445840	5404980	1055	B-C	0.3	Lt Br	-80	BUO17752	<50	<0.01	-
5020	445840	5405020	1056	B-C	0.4	Lt-Dk Br	-80	BUO17752	215	0.34	-
5040	445840	5405040	1057	B-C	0.4	Lt-Dk Br	-80	BUO17752	200	0.2	-
5060	445840	5405060	1058	NS	0	NS	-80	BUO17752	SNR	<0.01	0
5080	445840	5405080	1059	NS	0	NS	-80	BUO17752	SNR	<0.01	0
5100	445840	5405100	1060	B-C	0.3	Lt-Dk Br	-80	BUO17752	<50	3	-
5120	445840	5405120	1061	B-C	0.3	Lt-Dk Br	-80	BUO17752	<50	0.03	-
5140	445840	5405140	1062	B-C	0.2	Lt-Dk Br	-80	BUO17752	<50	0.03	-
5160	445840	5405160	1063	B-C	0.5	Lt-Dk Br	-80	BUO17752	<50	0.07	-
5200	445840	5405200	1064	B-C	0.3	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5200	445760	5405200	1065	B	0.5	Lt Br	-80	BUO17752	<50	0.03	-
5160	445760	5405160	1066	B	0.3	Lt-Dk Br	-80	BUO17752	<50	0.04	0.02
5140	445760	5405140	1067	B	0.3	Lt-Dk Br	-80	BUO17752	<50	0.26	-
5120	445760	5405120	1068	A	0.2	Dk Br	-80/+80	BUO17752	<50	0.12/2.0	-
5100	445760	5405100	1069	B-C	0.5	Lt-Dk Br	-80	BUO17752	<50	0.25	-

652041

Northing	AMGE	AMGN	Sample No (FT)	Horizon	Depth (M)	Colour	Mesh#	Analabs Job No	As ppm A102	Au ppm F650	Au ppm Repeats
5080	445760	5405080	1070	B-C	0.4	Lt-Dk Br	-80	BUO17752	<50	0.01	-
5060	445760	5405060	1071	B	0.4	Lt-Dk Br	-80	BUO17752	<50	0.02	-
5040	445760	5405040	1072	B-C	1	Lt-Dk Br	-80	BUO17752	<50	0.03	-
5020	445760	5405020	1073	B-C	0.9	Lt-Dk Br	-80	BUO17752	<50	0.04	-
4980	445760	5404980	1074	B	0.5	Lt-Dk Br	-80	BUO17752	<50	0.01	-
4940	445760	5404940	1075	B	0.3	Dk Br	-80	BUO17752	<50	<0.01	-
4900	445760	5404900	1076	B	0.4	Dk Br	-80	BUO17752	<50	<0.01	-
4900	445680	5404900	1077	B	0.3	Gy	-80	BUO17752	<50	<0.01	-
4940	445680	5404940	1078	B	0.4	Dk Br	-80	BUO17752	<50	<0.01	-
4980	445680	5404980	1079	C	0.7	Lt Br-Yw	-80	BUO17752	<50	0.02	-
5020	445680	5405020	1080	B-C	0.7	Lt-Dk Br	-80	BUO17752	<50	0.02	-
5060	445680	5405060	1081	B	0.5	Lt-Dk Br	-80	BUO17752	<50	0.07	0.08
5100	445680	5405100	1082	B	0.4	Lt Br	-80	BUO17752	<50	0.09	-
5140	445680	5405140	1083	B-C	0.4	Lt-Dk Br	-80	BUO17752	<50	0.01	-
5180	445680	5405180	1084	B	0.4	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5200	445680	5405200	1085	B-C	0.4	Lt Br	-80	BUO17752	<50	<0.01	-
5200	445600	5405200	1086	B	0.4	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5160	445600	5405160	1087	B-C	0.6	Lt Br	-80	BUO17752	<50	<0.01	-
5120	445600	5405120	1088	B	0.4	Lt Br	-80	BUO17752	<50	<0.01	-
5080	445600	5405080	1089	B-C	0.3	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5040	445600	5405040	1090	B-C	0.4	Lt-Dk Br	-80	BUO17752	<50	0.04	-
5000	445600	5405000	1091	B-C	0.6	Lt-Dk Br	-80	BUO17752	<50	0.11	0.11
4900	446000	5404900	1092	B	0.3	Dk Br	-80	BUO17752	<50	0.02	-
4940	446000	5404940	1093	B	0.6	Dk Br	-80	BUO17752	<50	<0.01	-
4980	446000	5404980	1094	B	0.2	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5020	446000	5405020	1095	B	0.8	Lt Br-Gy	-80	BUO17752	<50	0.03	-

652042

Northing	AMGE	AMGN	Sample No (FT)	Horizon	Depth (M)	Colour	Mesh#	Analabs Job No	As ppm A102	Au ppm F650	Au ppm Repeats
5040	446000	5405040	1096	B-C	0.5	Lt-Dk Br	-80	BUO17752	<50	0.06	-
5060	446000	5405060	1097	B-C	0.4	Lt Br-Or	-80	BUO17752	70	0.26	-
5080	446000	5405080	1098	B-C	0.5	Lt Br-Or	-80/+80	BUO17752	360	1.81/0.64	1.76
5100	446000	5405100	1099	A-B	0.2	Lt-Dk Br	-80/+80	BUO17752	205	0.67/0.51	-
5120	446000	5405120	1100	B-C	0.6	Lt Br-Or	-80/+80	BUO17752	465	1.48/0.84	-
5140	446000	5405140	1101	N S	0	N S	-80	BUO17752	SNR	<0.01	0
5160	446000	5405160	1102	B-C	0.6	Lt Br-Or	-80	BUO17752	<50	0.04	-
5200	446000	5405200	1103	B-C	0.3	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5040	446320	5405040	1104	B-C	0.3	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5020	446320	5405020	1105	B-C	0.6	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5000	446320	5405000	1106	B-C	0.4	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
4980	446320	5404980	1107	B-C	0.8	Lt Br-Or	-80	BUO17752	<50	<0.01	-
4960	446320	5404960	1108	B-C	0.6	Lt-Dk Br	-80	BUO17752	<50	0.06	-
4940	446320	5404940	1109	B-C	0.6	Lt Br-Or	-80	BUO17752	<50	0.04	-
4900	446320	5404900	1110	B-C	0.7	Lt Br-Or	-80	BUO17752	<50	<0.01	-
4900	446400	5404900	1111	B	0.5	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
4940	446400	5404940	1112	B	0.5	Lt Br-Gy	-80	BUO17752	<50	<0.01	-
4980	446400	5404980	1113	B	0.6	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5020	446400	5405020	1114	B-C	0.5	Dk Br	-80	BUO17752	<50	<0.01	-
5060	446400	5405060	1115	A-B	0.3	Dk Br	-80	BUO17752	<50	<0.01	-
5100	446400	5405100	1116	B	0.5	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5140	446400	5405140	1117	B	0.7	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5140	446480	5405140	1118	B	0.4	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5120	446480	5405120	1119	B	0.4	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5080	446480	5405080	1120	B	0.5	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5040	446480	5405040	1121	B-C	0.9	Lt-Dk Br	-80	BUO17752	<50	0.02	-

652043

Northing	AMGE	AMGN	Sample No (FT)	Horizon	Depth (M)	Colour	Mesh#	Analabs Job No	As ppm A102	Au ppm F650	Au ppm Repeats
5000	446480	5405000	1122	B	0.2	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5040	446040	5405040	1123	NS	0	NS	-80	BUO17752	SNR	<0.01	0
5060	446040	5405060	1124	B-C	0.4	Lt Br-Or	-80	BUO17752	<50	0.02	-
5080	446040	5405080	1125	B-C	0.8	Lt Br-Or	-80	BUO17752	110	0.35	-
5100	446040	5405100	1126	B-C	0.3	Lt Br-Or	-80	BUO17752	260	0.38	-
5120	446040	5405120	1127	B-C	0.5	Lt-Dk Br	-80/+80	BUO17752	540	1.4/1.02	-
5140	446040	5405140	1128	B-C	0.4	Lt Br-Gy	-80	BUO17752	<50	0.12	-
5040	446120	5405040	1129	B-C	0.6	Lt-Dk Br	-80	BUO17752	<50	<0.01	-
5060	446120	5405060	1130	B-C	0.6	Lt Br-Or	-80	BUO17752	<50	0.1	-
5080	446120	5405080	1131	B-C	0.6	Lt Br-Or	-80	BUO17752	<50	0.04	0
5100	446120	5405100	1132	B-C	0.4	Lt-Dk Br	-80	BUO17752	70	0.03	-
5120	446120	5405120	1133	B-C	0.5	Lt-Dk Br	-80	BUO17752	105	<0.01	-
5140	446120	5405140	1134	B-C	0.3	Lt-Dk Br	-80	BUO17752	<50	<0.01	-

APPENDIX 2
Sirocco Rock Geochemistry

Prospect	AMGE	AMGN	Sample No (FT)	Rock Type	Alteration	Comments	Cu ppm A102	PB ppm A102	Zn ppm A102	As ppm A102	Au ppm F650	Au ppm Repeats
						Lower Detect Limit	2	3	2	50	0.01	0.01
						Upper Detect Limit	5000	5000	5000	5000	10000	10000
Firetower	446065	5405110	2000	Qv-V/clastic	Str Sil-Ser-Hm	(2m) FTD1 Min Hz	41	599	191	95	0.7	0.61
Firetower	446060	5405115	2001	Qv-V/c sst	Str Sil-Ser-Hm	(1m) FTD1 Min Hz	42	185	235	235	0.14	0.09
Firetower	445725	5405150	2002	Qv-V/c sst	ModSil-Ser-Hm	(3m)W ext Target Hz	153	9	106	<50	0.96	0.89
Firetower	445720	5405150	2003	Qv-V/c sst	ModSil-Ser-Hm	(2m) W ext Target Hz	172	8	145	<50	0.65	0.66
Firetower	445710	5405160	2004	Qv-V/c sst	WkSil-Ser-Hm	(1m) W ext Target Hz	58	<3	73	<50	<0.01	-
Firetower	446070	5405120	2005	Vc-Sl	ModSil-Ser-Hm	FTD1 upper Targ Hz	103	80	170	355	0.03	-
Firetower	446085	5405107	2006	Vc-Sl-sst	ModSil-Ser-Hm	FTD1 lower Targ Hz	38	105	186	890	0.02	-
Firetower	446095	5405115	2007	Vc-Sl	ModSil-Ser-Hm	E ext FTD1 Targ Hz	37	607	638	<50	<0.01	-
Firetower	446120	5405120	2008	Vc sst-Sl-Vt	Mod Chl	Hw seq = start FTD1	133	101	222	<50	<0.01	-
Firetower	446120	5405100	2009	Qv-Vc-Vt	Mod Sil-Ser Hm	E ext FTD1 Targ Hz	150	142	428	210	0.06	0.07
Firetower	446112	5405082	2010	Qv-Vc-BxVt	Mod Sil-Ser Hm	E ext FTD1 Targ Hz	143	4580	1900	<50	<0.01	-
Firetower	446100	5405075	2011	Sl-Vt	Mod Sil-Ser Hm	Fw part of Targ Hz	22	1030	18	<50	<0.01	-
Firetower	446108	5405065	2012	Ary-Vt	Str Sil-Ser-Hm	Fw Rhy Lava -Tuff	68	127	59	<50	<0.01	-
Firetower	446085	5405087	2013	Vc-sst	Mod Sil-Ser-Hm	E ext FTD1 base Targ	51	684	122	<50	<0.01	-
Firetower	446065	5405100	2014	Qv/Vc-sst	Mod Sil-Ser-Hm	FTD1 Targ Hz	210	3590	795	520	0.16	-
Firetower	446160	5405072	2015	Sl-Vt Bdd	Wk Sil-Ser-Hm	Eastern Targ Hz	86	213	205	140	0.05	0.03
Firetower	446170	5405067	2016	Vc-sst/HmBx	Mod Sil-Ser-Hm	Eastern Targ Hz	407	48	475	<50	0.02	-
Firetower	446140	5405075	2017	Qv-Vc-sst	Mod Sil-Ser-Hm	Eastern Targ Hz	170	1175	1035	130	0.23	0.19
Firetower	446175	5405050	2018	Qv-Vc-sst	Mod Sil-Ser-Hm	Eastern Targ Hz-base	74	320	712	<50	0.05	-
Firetower	446180	5405043	2019	Qv ARy-Vt	Mod Sil-Ser-Hm	Eastern Targ Hz-base	30	696	296	<50	0.06	-
Firetower	446200	5405045	2020	Qv-Vc-sst	Mod Sil-Ser-Hm	Eastern Targ Hz-base	64	1120	551	<50	0.27	0.27
Firetower	446150	5405050	2021	Qv-Ary-QERy	Mod Sil-Ser-Hm	Eastern Targ Hz-base	38	42	217	<50	<0.01	-
Firetower	446163	5405076	2022	Vc-sst-Bx	Str Sil-Ser-Hm	Eastern Targ Hz-top	121	984	857	460	<0.01	-

Prospect	AMGE	AMGN	Sample No (FT)	Rock Type	Alteration	Comments	Cu ppm A102	PB ppm A102	Zn ppm A102	As ppm A102	Au ppm F650	Au ppm Repeats
Firetower	446243	5405023	2023	Vc-sst	Wk Chl	Hangingwall Seds	10	7	152	<50	<0.01	0
Firetower	446245	5405005	2024	Vc-sst+ARy	Mod Sil-Ser-Hm	Eastern Targ Hz	92	168	183	50	0.17	-
Firetower	446220	5405015	2025	Vc-sst+Sl	Mod Sil-Ser-Hm	Eastern Targ Hz	59	141	299	<50	0.05	-
Firetower	446240	5404985	2026	ARy-QERy	Mod Sil-Ser	Footwall Lava	40	87	461	<50	0.49	0.49
Firetower	446280	5405015	2027	Qv-Vc-Bx	Mod Sil-Ser	Eastern Targ Hz	13	7	62	<50	<0.01	-
Firetower	446310	5405025	2028	Qv-Vc-Bx	Wk Sil-Chl-Hm	Hangingwall Seds	55	6	47	<50	<0.01	-
Firetower	446325	5404973	2029	Gs Vc	Str-Ser-Hm	East Targ Hz-cf 15713	214	98	106	4470	11.2	11.3
Firetower	446328	5404970	2030	Qv ARy-Vt	Str Sil-Ser-Hm	East Targ Hz-cf 15714	20	16	38	110	0.07	-
Firetower	446333	5404977	2031	Qv-Vc-sst	Str Sil-Ser-Hm	East Targ Hz	21	23	45	<50	<0.01	-
Firetower	446305	5404965	2032	Qv ARy-QRy	Mod Sil-Ser-Hm	Footwall Lava	18	15	23	<50	<0.01	-
Firetower	446320	5405000	2033	Qv Vc-sst	Mod Sil-Chl-Hm	Hangingwall Seds?	28	5	53	<50	<0.01	-
Firetower	446380	5405000	2034	Qv Vc-sst-Sl	Mod Sil-Chl-Hm	Hangingwall Seds?	51	74	194	<50	<0.01	0
Firetower	446430	5405010	2035	Qv Sl+Vc	Mod Sil-Ser-Hm	East ext Targ Hz-base	44	513	71	<50	<0.01	-
Firetower	446470	5405005	2036	Qv Sl+Vc	Mod Sil-Ser-Hm	East ext Targ Hz-base	42	107	408	75	<0.01	-
Firetower	446045	5405125	2037	Qv Sl+Vc	Mod Sil-Ser-Hm	Targ Hz GP 90-9 top	107	18	148	340	0.1	-
Firetower	446037	5405127	2038	Qv Vc-sst	Mod Sil-Ser-Hm	Targ Hz GP 90-10 top	197	24	39	855	0.12	-
Firetower	446050	5405097	2039	Qv Vc-sst	Mod Sil-Ser-Hm	Targ Hz FTD1 base	62	486	193	<50	0.22	0.22
Firetower	446047	5405065	2040	Qv Sl	Mod Sil-Ser-Hm	Targ Hz FTD2 base	31	286	18	<50	<0.01	-
Firetower	446042	5405075	2041	Vc-sst-Vt	Mod Sil-Ser-Hm	Targ Hz FTD2 base	39	60	51	<50	<0.01	-
Firetower	446065	5405080	2042	Vc-sst-Vt	Mod Sil-Ser-Hm	Targ Hz FTD1 base	25	411	62	<50	<0.01	-

APPENDIX 3

Plutonic Soil Geochemistry

652048

Prospect	Easting	Northing	AMGE	AMGN	Cu_ppm A102	PB_ppm A102	Zn_ppm _A102	As_ppm _A102	Au_ppm _F650
Firetower	G18	5000	445342	5405077	14	12	35	3	0.02
Firetower	G18	4975	445344	5405053	7	6	27	1	0
Firetower	G18	4950	445347	5405030	6	5	13	1	0
Firetower	G18	4925	445350	5405006	3	4	22	1	0
Firetower	G19	5000	445436	5405088	11	32	91	3	0
Firetower	G19	4975	445439	5405065	7	2	170	1	0
Firetower	G19	4950	445442	5405041	27	14	50	1	0
Firetower	G19	4925	445445	5405017	15	13	29	4	0
Firetower	G19	4900	445448	5404994	6	6	26	1	0
Firetower	G20	5050	445525	5405147	15	10	75	2	0
Firetower	G20	5025	445528	5405123	15	3	75	1	0
Firetower	G20	5000	445531	5405100	25	3	80	2	0
Firetower	G20	4975	445534	5405076	30	5	75	6	0
Firetower	G20	4950	445537	5405052	10	5	60	3	0
Firetower	G20	4925	445539	5405029	125	30	180	28	0.16
Firetower	G20	4900	445542	5405005	110	20	165	7	0.025
Firetower	G20	4875	445545	5404981	<5	5	20	5	0
Firetower	G20	4850	445548	5404958	<5	3	15	3	0
Firetower	G21	5050	445620	5405158	15	2	80	1	0
Firetower	G21	5025	445623	5405135	20	2	75	1	0.01
Firetower	G21	5000	445625	5405111	15	3	60	1	0
Firetower	G21	4975	445628	5405087	30	3	70	1	0
Firetower	G21	4950	445631	5405064	100	25	80	19	0.04
Firetower	G21	4925	445634	5405040	85	20	90	34	0.055
Firetower	G21	4900	445637	5405016	310	65	195	63	0.095
Firetower	G21	4875	445640	5404993	140	55	225	20	0.03
Firetower	G21	4850	445643	5404969	140	15	175	11	0.03
Firetower	G21	4825	445645	5404945	5	3	20	12	0
Firetower	G21	4800	445648	5404922	5	5	30	12	0.01
Firetower	G22	5050	445714	5405170	15	10	55	6	0
Firetower	G22	5025	445717	5405146	20	5	45	9	0
Firetower	G22	5000	445720	5405123	135	15	95	36	0.05
Firetower	G22	4975	445723	5405099	90	45	85	48	0.05
Firetower	G22	4950	445726	5405075	245	30	140	18	0.015
Firetower	G22	4925	445729	5405052	85	15	115	9	0.01
Firetower	G22	4900	445732	5405028	50	15	120	8	0.01
Firetower	G22	4875	445734	5405004	90	10	240	13	0.01
Firetower	G22	4850	445737	5404981	180	95	215	60	0.085
Firetower	G23	5100	445803	5405229	<5	5	35	4	0
Firetower	G23	5075	445806	5405205	60	5	40	6	0
Firetower	G23	5050	445809	5405181	30	20	50	31	0
Firetower	G23	5025	445812	5405158	110	20	130	8	0.005
Firetower	G23	5000	445815	5405134	270	15	115	16	0.015
Firetower	G23	4975	445818	5405110	105	40	75	27	0.36
Firetower	G23	4950	445820	5405087	175	25	95	20	0.15
Firetower	G23	4925	445823	5405063	35	5	70	17	0.02
Firetower	G23	4900	445826	5405039	105	10	110	54	0.025

Prospect	Easting	Northing	AMGE	AMGN	Cu_ppm A102	PB_ppm A102	Zn_ppm A102	As_ppm_ A102	Au_ppm F650
Firetower	G23	4875	445829	5405016	65	230	160	160	0.135
Firetower	G23	4850	445832	5404992	340	60	175	36	0.015
Firetower	G23	4825	445835	5404968	40	50	150	7	0
Firetower	G23	4800	445838	5404945	25	15	90	7	0
Firetower	G24	5000	445909	5405145	150	25	110	33	0.005
Firetower	G24	4975	445912	5405122	60	20	100	16	0.005
Firetower	G24	4950	445915	5405098	20	45	160	137	1.65
Firetower	G24	4925	445918	5405074	55	65	360	360	1.045
Firetower	G24	4900	445921	5405051	135	35	425	231	0.145
Firetower	G24	4875	445924	5405027	175	305	250	162	0.2
Firetower	G24	4850	445927	5405003	420	70	245	9	0
Firetower	G24	4825	445929	5404980	140	25	130	1	0
Firetower	G24	4800	445932	5404956	45	10	100	2	0
Firetower	G25	5050	445998	5405204	5	5	35	1	0
Firetower	G25	5025	446001	5405180	25	70	75	12	0
Firetower	G25	5000	446004	5405157	40	30	105	15	0.005
Firetower	G25	4975	446007	5405133	170	400	575	777	0.425
Firetower	G25	4950	446010	5405109	55	185	35	669	0.225
Firetower	G25	4925	446013	5405086	145	320	200	648	4.45
Firetower	G25	4900	446015	5405062	55	270	215	212	0.245
Firetower	G25	4875	446018	5405038	80	130	110	17	0
Firetower	G25	4850	446021	5405015	510	75	160	24	0.01
Firetower	G25	4825	446024	5404991	475	50	85	20	0.01
Firetower	G25	4800	446027	5404967	315	20	75	9	0.01
Firetower	G25/8	5000	446080	5405166	10	5	35	6	0
Firetower	G25/8	4975	446083	5405142	15	15	55	11	0
Firetower	G25/8	4950	446085	5405119	40	70	70	420	0.005
Firetower	G25/8	4925	446088	5405095	30	85	90	200	0.065
Firetower	G25/8	4900	446091	5405071	30	100	95	110	0.05
Firetower	G25/8	4875	446094	5405048	185	535	145	160	0.03
Firetower	G25/8	4850	446097	5405024	85	250	135	65	0.02
Firetower	G25/8	4825	446100	5405000	105	235	140	90	0.01
Firetower	G25/8	4800	446103	5404977	115	150	170	90	0.01
Firetower	G25/8	4775	446105	5404953	210	90	125	41	0
Firetower	G25/8	4750	446108	5404929	95	75	140	44	0
Firetower	G25/8	4725	446111	5404906	235	215	180	87	0
Firetower	G25/9	4700	446123	5404883	110	60	130	19	0
Firetower	G26	5000	446146	5405174	20	15	52	33	0
Firetower	G26	4975	446149	5405150	8	12	33	7	0
Firetower	G26	4950	446152	5405127	6	23	46	11	0
Firetower	G26	4925	446155	5405103	12	84	58	19	0
Firetower	G26	4900	446157	5405079	20	79	329	-99	0
Firetower	G26	4875	446160	5405056	268	190	136	-99	0.01
Firetower	G26	4850	446163	5405032	45	413	147	-99	0.02
Firetower	G26	4825	446166	5405008	242	127	156	26	0
Firetower	G26	4800	446169	5404985	253	291	209	31	0
Firetower	G26	4775	446172	5404961	13	134	150	39	0
Firetower	G26	4750	446175	5404937	435	117	175	10	0

Prospect	Easting	Northing	AMGE	AMGN	Cu_ppm A102	PB_ppm A102	Zn_ppm A102	As_ppm_ A102	Au_ppm F650
Firetower	G26	4725	446177	5404914	254	185	205	39	0.04
Firetower	G26	4700	446180	5404890	70	145	100	4	0
Firetower	G26	4675	446183	5404866	57	107	92	3	0
Firetower	G26	4650	446186	5404843	63	104	121	9	0.01
Firetower	G26	4625	446189	5404819	61	47	112	8	0
Firetower	G26	4600	446192	5404795	7	9	21	1	0
Firetower	G27	5000	446222	5405183	15	40	40	7	0.02
Firetower	G27	4975	446225	5405159	10	25	30	7	0
Firetower	G27	4950	446227	5405136	35	35	40	5	0
Firetower	G27	4925	446230	5405112	30	55	100	14	0
Firetower	G27	4900	446233	5405088	75	85	125	23	0.03
Firetower	G27	4875	446236	5405065	30	65	100	21	0
Firetower	G27	4850	446239	5405041	30	65	165	13	0
Firetower	G27	4825	446242	5405017	20	55	125	9	0
Firetower	G27	4800	446245	5404994	35	55	150	13	0
Firetower	G27	4775	446247	5404970	85	65	125	21	0.019
Firetower	G27	4750	446250	5404946	50	75	110	16	0
Firetower	G27	4725	446253	5404923	90	85	385	54	0.009
Firetower	G27	4700	446256	5404899	25	45	150	23	0
Firetower	G28	5000	446288	5405191	35	30	75	5	0.008
Firetower	G28	4975	446291	5405167	20	30	45	4	0
Firetower	G28	4950	446294	5405144	15	35	50	6	0
Firetower	G28	4925	446297	5405120	25	25	40	9	0
Firetower	G28	4900	446299	5405096	45	195	135	97	0
Firetower	G28	4875	446302	5405073	35	55	100	7	0
Firetower	G28	4850	446305	5405049	20	45	125	8	0
Firetower	G28	4825	446308	5405025	90	50	150	17	0
Firetower	G28	4800	446311	5405002	60	40	95	10	0
Firetower	G28	4775	446314	5404978	35	35	70	190	0.292
Firetower	G28	4750	446317	5404954	25	50	60	23	0
Firetower	G28	4725	446319	5404931	45	70	120	22	0
Firetower	G28	4700	446322	5404907	45	60	105	33	0
Firetower	G29	5000	446383	5405202	30	70	95	13	0
Firetower	G29	4975	446385	5405179	20	25	80	2	0
Firetower	G29	4950	446388	5405155	30	30	130	4	0
Firetower	G29	4925	446391	5405131	15	30	75	4	0
Firetower	G29	4900	446394	5405108	25	30	100	6	0
Firetower	G29	4875	446397	5405084	15	30	65	5	0
Firetower	G29	4850	446400	5405060	15	50	80	7	0
Firetower	G29	4825	446403	5405037	35	45	70	24	0
Firetower	G29	4800	446405	5405013	5	50	266	42	0
Firetower	G29	4775	446408	5404989	40	45	35	80	0
Firetower	G29	4750	446411	5404966	20	40	35	27	0
Firetower	G30	5000	446477	5405214	25	35	75	8	0
Firetower	G30	4975	446480	5405190	25	25	85	8	0
Firetower	G30	4950	446483	5405167	20	35	40	6	0
Firetower	G30	4925	446486	5405143	30	35	95	11	0
Firetower	G30	4900	446489	5405119	15	35	55	12	0

Prospect	Easting	Northing	AMGE	AMGN	Cu_ppm A102	PB_ppm A102	Zn_ppm A102	As_ppm_ A102	Au_ppm F650
Firetower	G30	4875	446492	5405096	25	70	70	19	0
Firetower	G30	4850	446494	5405072	55	185	125	56	0
Firetower	G30	4825	446497	5405048	35	90	70	7	0.012
Firetower	G30	4800	446500	5405025	80	65	60	56	0.04
Firetower	G30	4775	446503	5405001	30	30	40	25	0
Firetower	G30	4750	446506	5404977	15	15	30	15	0
Firetower	G30	4725	446509	5404954	30	15	30	41	0
Firetower	G30	4700	446512	5404930	20	15	70	8	0
Firetower	G31	5000	446572	5405225	16	20	86	9	0
Firetower	G31	4975	446575	5405202	8	4	45	1	0
Firetower	G31	4950	446578	5405178	12	3	50	3	0
Firetower	G31	4925	446580	5405154	18	29	53	29	0
Firetower	G31	4900	446583	5405131	33	23	101	14	0
Firetower	G31	4875	446586	5405107	25	34	61	-99	0.02
Firetower	G31	4850	446589	5405083	26	34	82	29	0.01
Firetower	G31	4825	446592	5405060	36	27	101	37	0
Firetower	G31	4800	446595	5405036	19	17	28	16	0
Firetower	G31	4775	446598	5405012	22	21	23	11	0
Firetower	G31	4750	446600	5404989	19	7	12	21	0
Firetower	G31	4725	446603	5404965	19	46	56	8	0
Firetower	G31	4700	446606	5404941	11	29	50	11	0
Firetower	G31	4675	446609	5404918	12	19	51	1	0
Firetower	G31	4650	446612	5404894	21	19	52	3	0
Firetower	G31	4625	446615	5404870	17	12	71	9	0
Firetower	G31	4600	446618	5404847	16	8	73	13	0

APPENDIX 4
Plutonic Rock Geochemistry

Sample No	Rock Type	Alteration	Comments	Analabs Job No	Cu ppm A102	PB ppm A102	Zn ppm A102	As ppm A102	Au ppm F650
15459	V/clastic	Ssc-Hm/py	Str Min	BUO14262	1016	2011	>5000	1.68%	8.26
15706	V/clastic	Ssc-Hm	Wk alt	BUO14474	42	227	830	<50	<0.01
15707	Siltst-Vt	Ssc	Wk alt	BUO14474	37	94	82	<50	0.02
15708	Siltst-Vt	Ssc/Qv	Mod alt	BUO14474	19	17	154	<50	0.02
15709	V/c Sst-Qv	Ssc/Qv	Str Alt	BUO14474	90	55	178	325	2.21
15710	Ry-Qpor	Ssc	Mod alt	BUO14474	27	198	150	<50	0.03
15711	Vc/Ary	Ssc-Qv	Mod alt	BUO14474	122	248	322	<50	0.46
15712	Ry-Qpor	Ssc	Mod alt	BUO14474	46	23	54	<50	0.02
15713	Gs Vc-ARy	Hm-Ssc	Str alt	BUO14474	284	138	232	4992	30.1
15714	Ary-?Vc	Hm-Ssc	Mod alt	BUO14474	151	29	32	2207	1.92
15715	Hm-Vc/Ry	Hm-Ssc	Mod alt	BUO14474	162	993	2001	<50	0.05
15716	Hm-Vc/Ry	Hm-Ssc	Mod alt	BUO14474	1001	801	3505	<50	0.01
15717	Vc-sst	Hm-Ssc	Str alt	BUO14474	100	97	160	533	0.03
15718	Vc-sst/Sl	Hm-Ssc	Mod alt	BUO14474	24	29	142	<50	0.12
15719	Vc-sst/Sl	Hm-Ssc	Mod alt	BUO14474	32	396	372	<50	0.01

APPENDIX 5

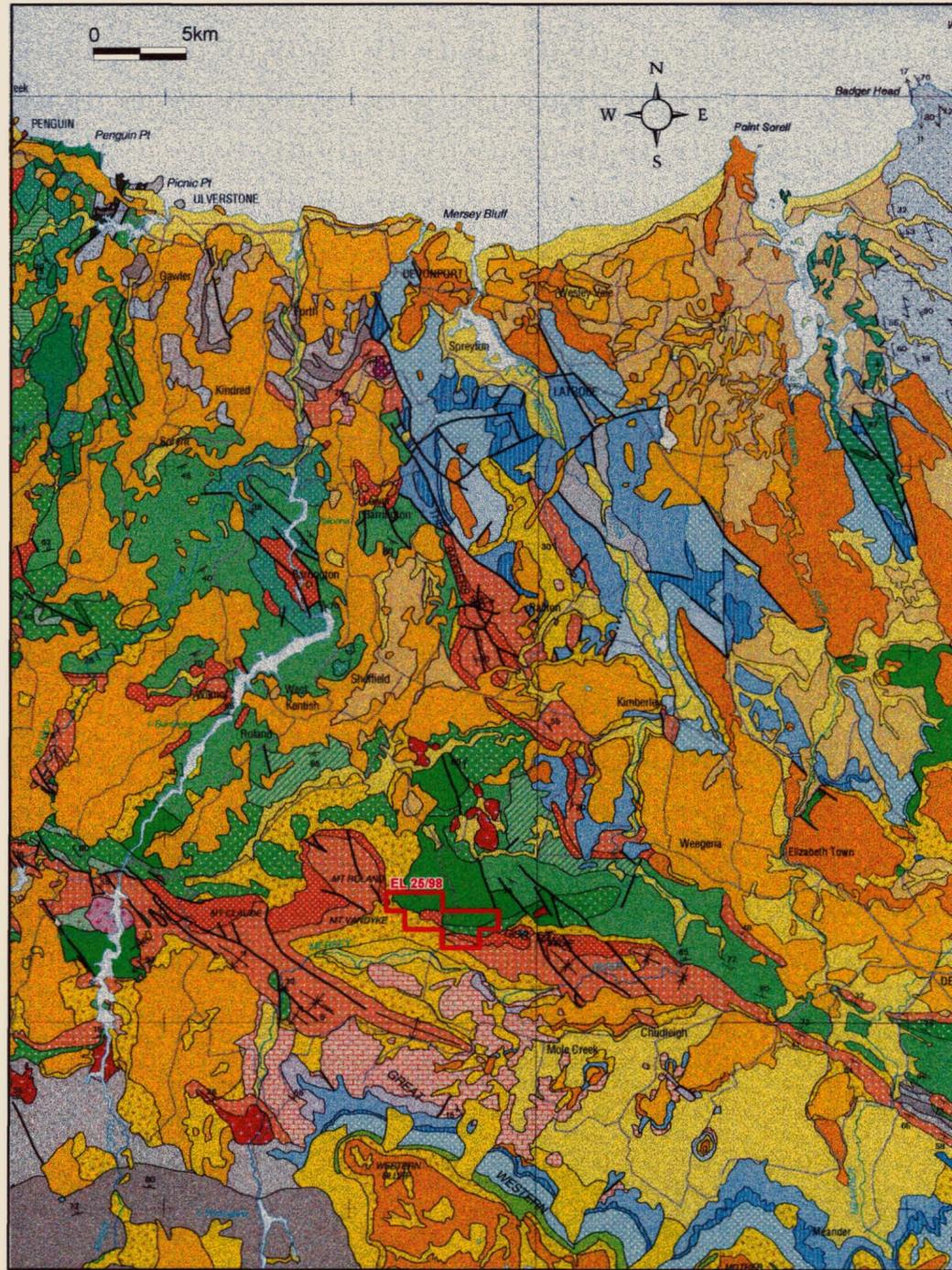
Plutonic IP Data

east	north	AMGE	AMGN	IP	Res
2300	4838	447159	5401654	11.65	1427.47
2300	4850	447081	5401628	12.24	1220.53
2300	4863	446996	5401599	13.84	1159.49
2300	4875	446918	5401573	14.65	1121.53
2300	4888	446834	5401545	16.02	1073.83
2300	4900	446755	5401519	18.02	1784.69
2300	4913	446671	5401491	19.69	2081.67
2300	4925	446593	5401465	22.44	1824.49
2300	4938	446508	5401436	24.84	2279.39
2300	4950	446430	5401410	25.84	2415.11
2300	4963	446346	5401382	27.03	2351.47
2300	4975	446268	5401356	27.83	3689.08
2300	4988	446183	5401328	28.15	5021.33
2300	5000	446105	5401302	27.97	3913.13
2300	5013	446021	5401273	27.07	2552.04
2300	5025	445943	5401247	25.95	2573.77
2300	5038	445858	5401219	24.82	2737.53
2300	5050	445780	5401193	22.88	2746.73
2300	5063	445695	5401165	21.64	2778.53
2300	5075	445617	5401139	20.69	2611.88
2300	5088	445533	5401110	19.54	2319.65
2300	5100	445455	5401084	19.18	2042.24
2300	5113	445370	5401056	18.73	1896.71
2300	5125	445292	5401030	18.45	1909.14
2300	5138	445208	5401002	17.21	1754.47
2400	4688	447917	5402630	14.45	1138.57
2400	4700	447839	5402604	15.19	1501.28
2400	4713	447754	5402576	14.09	1610.26
2400	4725	447676	5402550	13	1688.51
2400	4738	447592	5402521	12.58	1681.83
2400	4750	447514	5402495	11.29	1628.27
2400	4763	447429	5402467	10.82	1442.31
2400	4775	447351	5402441	12.29	1392.26
2400	4788	447266	5402413	13.79	1458.68
2400	4800	447188	5402387	14.2	1404.66
2400	4813	447104	5402358	14.11	1380.81
2400	4825	447026	5402332	16.43	1422.67
2400	4838	446941	5402304	19.13	1354.47
2400	4850	446863	5402278	21.53	1272.95
2400	4863	446779	5402250	25.55	1268.75
2400	4875	446701	5402224	28.67	1422.46
2400	4888	446616	5402195	31.47	1605.25
2400	4900	446538	5402169	33.51	1543.87
2400	4913	446454	5402141	33.69	1372.21
2400	4925	446376	5402115	34.65	1190.07
2400	4938	446291	5402087	35.66	1015.33
2400	4950	446213	5402061	34.82	925.69
2400	4963	446128	5402032	34.48	923.13
2400	4975	446050	5402006	33.44	1097.29
2400	4988	445966	5401978	31.51	1234.35

east	north	AMGE	AMGN	IP	Res
2400	5000	445888	5401952	30.66	1307.37
2400	5013	445803	5401924	29.23	1369.92
2400	5025	445725	5401898	26.52	1571.1
2400	5038	445641	5401869	25.47	1861.29
2400	5050	445563	5401843	21.53	1721.45
2400	5063	445478	5401815	17	1552.47
2400	5075	445400	5401789	15.66	1605.04
2400	5088	445316	5401761	14.14	1612.64
2400	5100	445237	5401735	14.75	2094.24
2400	5113	445153	5401706	16.59	2579.6
2400	5125	445075	5401680	16.66	2571.86
2400	5138	444990	5401652	15.06	2200.03
2500	4688	447699	5403280	5.66	1110.03
2500	4700	447621	5403254	9.37	1901.89
2500	4713	447537	5403226	9.92	1933.01
2500	4725	447459	5403200	10.37	1675.26
2500	4738	447374	5403172	11.02	1489.17
2500	4750	447296	5403146	12.03	1607.49
2500	4763	447212	5403117	12.91	1698.33
2500	4775	447134	5403091	16.33	1806.53
2500	4788	447049	5403063	20.43	1774.29
2500	4800	446971	5403037	21.93	1850.35
2500	4813	446887	5403009	24.74	1980.11
2500	4825	446808	5402983	28.21	2358.23
2500	4838	446724	5402954	30.65	2979.99
2500	4850	446646	5402928	35.27	2890.92
2500	4863	446561	5402900	38.09	2701.65
2500	4875	446483	5402874	40.72	2566.11
2500	4888	446399	5402846	43.47	2087.68
2500	4900	446321	5402820	44.69	1932.51
2500	4913	446236	5402791	45.54	2134.15
2500	4925	446158	5402765	42.19	2309.63
2500	4938	446074	5402737	38.36	2486.28
2500	4950	445996	5402711	35.78	2949.26
2500	4963	445911	5402683	34.56	3173.49
2500	4975	445833	5402657	32.5	2185.23
2500	4988	445748	5402628	30.44	1139.68
2500	5000	445670	5402602	27.54	941.47
2500	5013	445586	5402574	22.92	966.99
2500	5025	445508	5402548	19.09	909.2
2500	5038	445423	5402520	15.29	913.65
2500	5050	445345	5402494	13.21	1136.38
2500	5063	445261	5402465	12.87	1284.99
2500	5075	445183	5402439	12.74	1762.04
2500	5088	445098	5402411	13.3	2251.88
2500	5100	445020	5402385	13.87	2600.56
2500	5113	444936	5402357	13.77	3104.58
2500	5125	444858	5402331	14.21	3272.67
2500	5138	444773	5402302	12.74	2953.33
2580	4688	447526	5403801	11.75	792.37

east	north	AMGE	AMGN	IP	Res
2700	4863	446127	5404201	22.93	1378.71
2700	4875	446049	5404175	21.79	1461.57
2700	4888	445964	5404146	21.05	1618.13
2700	4900	445886	5404120	17.68	1571.89
2700	4913	445801	5404092	15.66	1563.94
2700	4925	445723	5404066	13.08	1517.38
2700	4938	445639	5404038	10.3	1391.82
2700	4950	445561	5404012	10.45	1427.24
2700	4963	445476	5403983	9.96	1463.28
2700	4975	445398	5403957	10.24	1522.87
2700	4988	445314	5403929	11.12	1688.46
2700	5000	445236	5403903	11.39	1778.07
2700	5013	445151	5403875	12.16	1804.47
2700	5025	445073	5403849	11.68	1574.84
2700	5038	444989	5403820	10.42	1304.56
2700	5050	444911	5403794	11.59	1432.07
2700	5063	444826	5403766	12.16	1686.69
2700	5075	444748	5403740	11.84	1906.8
2700	5088	444663	5403712	12.41	2121.74
2700	5100	444585	5403686	12.52	2193.26
2700	5113	444501	5403657	13.1	2161.65
2700	5125	444423	5403631	13.4	2258.14
2700	5138	444338	5403603	10.42	3058.07

460 000mE

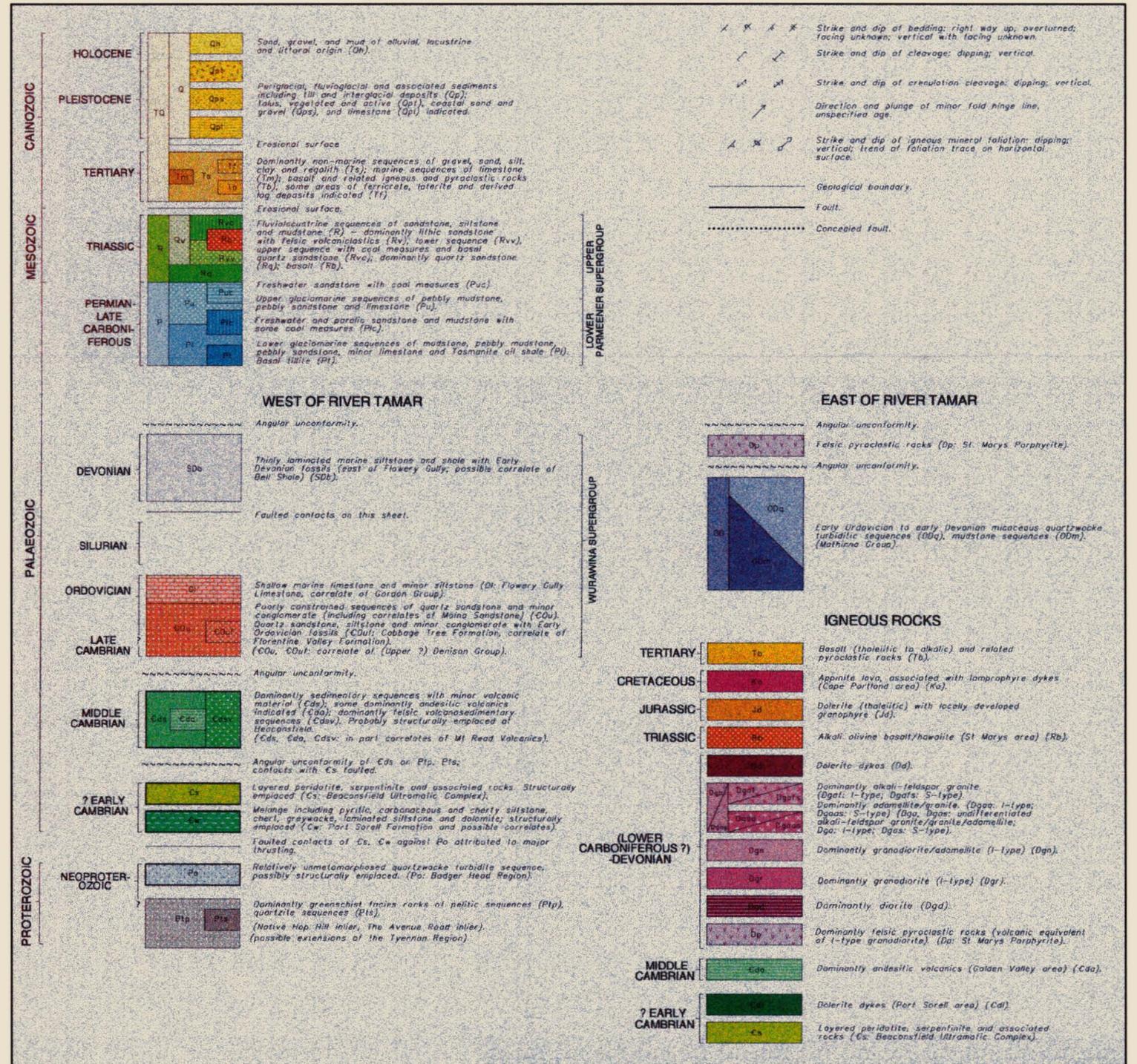


Regional Geology and legend from Geology of Northwest and Northeast Tasmania
 Tasmanian Geological Survey 1 : 250 000
 Mineral Resources Tasmania

5 cm

5,450,000mN

5,400,000mN

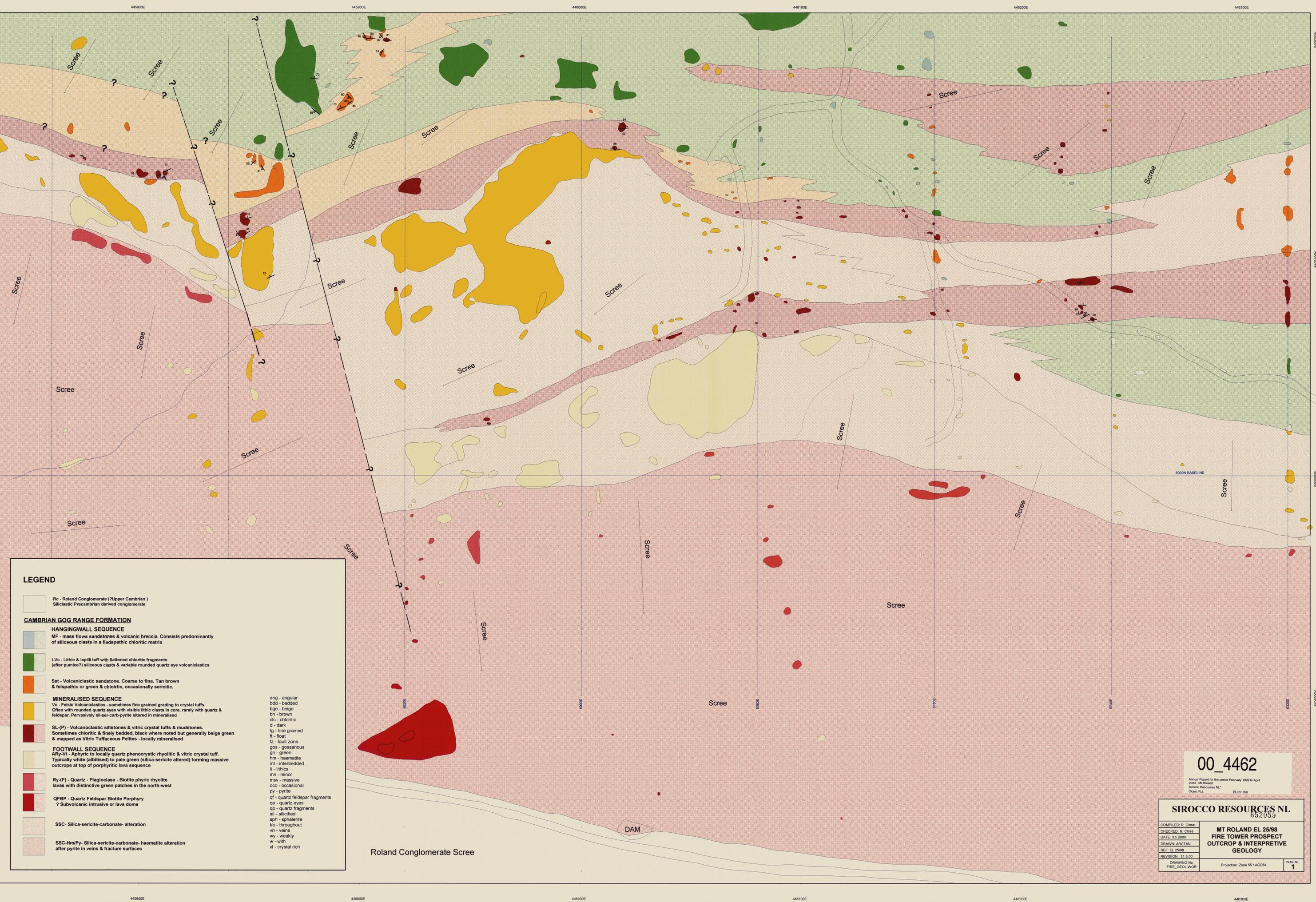


00_4462

Annual Report for the period February 1999 to April
 2000 - Mt Roland
 Sirocco Resources NL*
 Close, R.J. EL25/1998

652058

SIROCCO RESOURCES NL	
COMPILED: R. Close	MT ROLAND EL 25/98 REGIONAL GEOLOGY
CHECKED: R. Close	
DATE: 23.2.1999	
DRAWN: Sun Drafting	
REF: EL 25/98	
REVISION: 30.5.00	
DRAWING No. MRARD005.WOR	Projection: Zone 55 / AGD84
	FIG. No. 3



LEGEND

- Rc - Roland Conglomerate (Upper Cambrian)
Siliclastic Precambrian derived conglomerate
 - CAMBRIAN GOG RANGE FORMATION**
 - HANGINGWALL SEQUENCE**
 - MF - mass flows sandstones & volcanic breccia. Consists predominantly of siliceous clasts in a feldspathic chloritic matrix
 - LVc - Lithic & lapilli tuff with flattened chloritic fragments (after pumice?) siliceous clasts & variable rounded quartz eye volcanoclastics
 - Sst - Volcaniclastic sandstone. Coarse to fine. Tan brown & feldspathic or green & chloritic, occasionally sericitic.
 - MINERALISED SEQUENCE**
 - Vc - Felsic Volcanoclastics - sometimes fine grained grading to crystal tuffs. Often with rounded quartz eyes with visible lithic clasts in core, rarely with quartz & feldspar. Pervasively sil-ser-carb-pyrite altered in mineralised
 - SL-(P) - Volcanoclastic siltstones & vitric crystal tuffs & mudstones. Sometimes chloritic & finely bedded, black where noted but generally beige green & mapped as Vitric Tuffaceous Pelites - locally mineralised
 - FOOTWALL SEQUENCE**
 - ARy-Vt - Aphyric to locally quartz phenocrystic rhyolitic & vitric crystal tuff. Typically white (albitised) to pale green (silica-sericite altered) forming massive outcrops at top of porphyritic lava sequence
 - Ry-(F) - Quartz - Plagioclase - Biotite phyrlic rhyolite lavas with distinctive green patches in the north-west
 - QFBP - Quartz Feldspar Biotite Porphyry
? Subvolcanic intrusive or lava dome
 - SSC - Silica-sericite-carbonate- alteration
 - SSC-Hm/Py - Silica-sericite-carbonate- haematite alteration after pyrite in veins & fracture surfaces
- ang - angular
 - bdd - bedded
 - bge - beige
 - bn - brown
 - cic - chloritic
 - d - dark
 - fg - fine grained
 - ft - float
 - fz - fault zone
 - gos - gossanous
 - gn - green
 - hm - haematite
 - int - interbedded
 - li - lithics
 - mn - minor
 - msv - massive
 - occ - occasional
 - py - pyrite
 - qf - quartz feldspar fragments
 - qe - quartz eyes
 - qp - quartz fragments
 - sil - silicified
 - sph - sphalerite
 - t/o - throughout
 - vn - veins
 - wy - weakly
 - w - with
 - xl - crystal rich

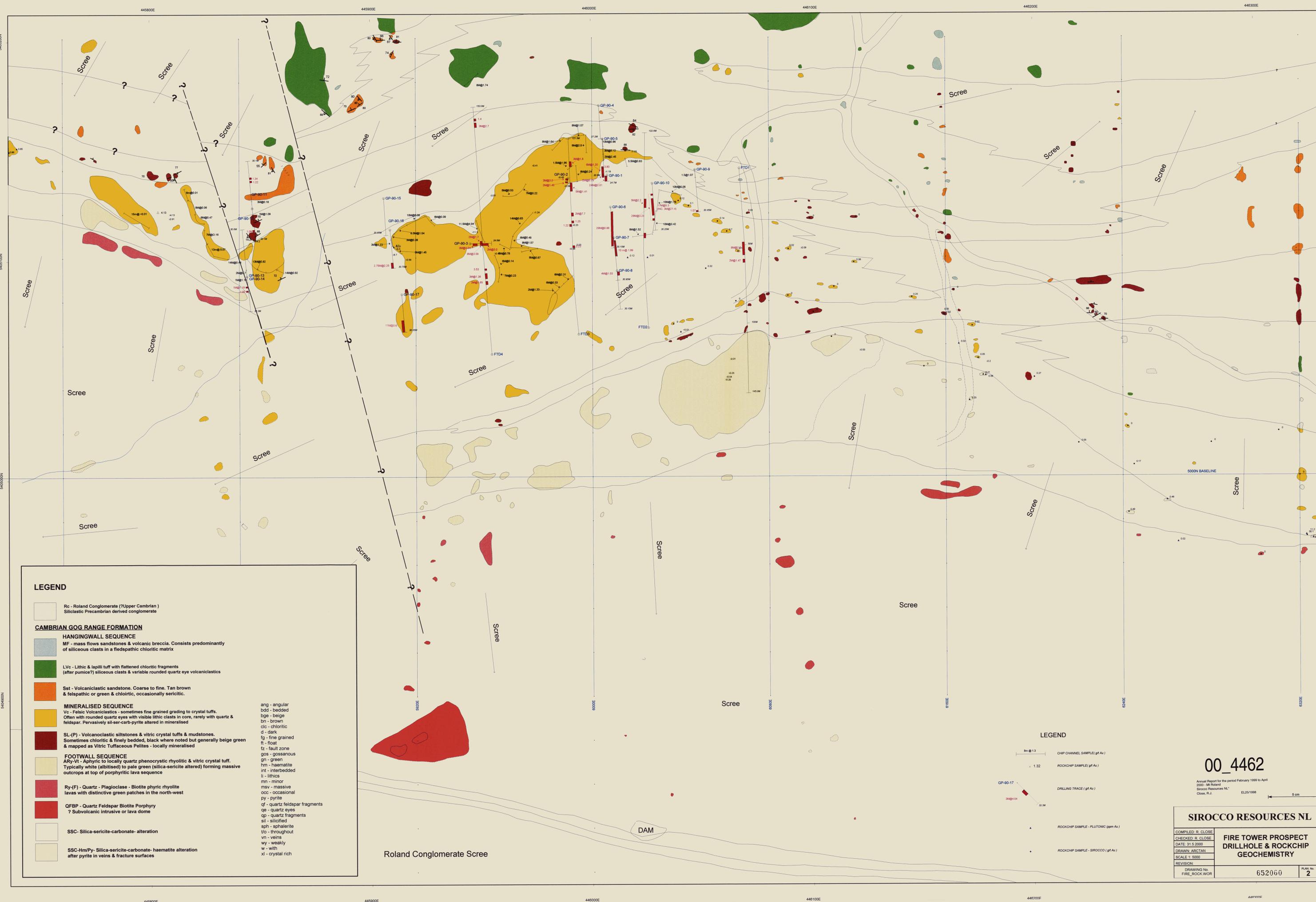
Roland Conglomerate Scree

DAM

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Annual Report for the period February 1999 to April 2000 - Mt Roland
Sirocco Resources NL
Cresk, P.J. EL25/1998

SIROCCO RESOURCES NL 652059	
COMPILED: R. Close	MT ROLAND EL 25/98 FIRE TOWER PROSPECT OUTCROP & INTERPRETIVE GEOLOGY
CHECKED: R. Close	
DATE: 3.5.2000	
DRAWN: ARCTAN	
REF: EL 25/98	
REVISION: 31.5.00	Projection: Zone 55 / AGD84
DRAWING No. FIRE_GEOLOGY	PLAN No. 1



LEGEND

Rc - Roland Conglomerate (Upper Cambrian)
Siliclastic Precambrian derived conglomerate

CAMBRIAN GOG RANGE FORMATION

HANGINGWALL SEQUENCE

MF - mass flows sandstones & volcanic breccia. Consists predominantly of siliceous clasts in a feldspathic chloritic matrix

LVC - Lithic & lapilli tuff with flattened chloritic fragments (after pumice?) siliceous clasts & variable rounded quartz eye volcanoclastics

Sst - Volcaniclastic sandstone. Coarse to fine. Tan brown & feldspathic or green & chloritic, occasionally sericitic.

MINERALISED SEQUENCE

Vc - Felsic Volcaniclastics - sometimes fine grained grading to crystal tuffs. Often with rounded quartz eyes with visible lithic clasts in core, rarely with quartz & feldspar. Pervasively sil-ser-carb-pyrite altered in mineralised

SL-(P) - Volcanoclastic siltstones & vitric crystal tuffs & mudstones. Sometimes chloritic & finely bedded, black where noted but generally beige green & mapped as Vitric Tuffaceous Pelites - locally mineralised

FOOTWALL SEQUENCE

ARY-Vt - Aphyric to locally quartz phenocrystic rhyolitic & vitric crystal tuff. Typically white (albitised) to pale green (silica-sericite altered) forming massive outcrops at top of porphyritic lava sequence

Ry-(F) - Quartz - Plagioclase - Biotite phyric rhyolite lavas with distinctive green patches in the north-west

QFBP - Quartz Feldspar Biotite Porphyry
? Subvolcanic intrusive or lava dome

SSC - Silica-sericite-carbonate-alteration

SSC-Hm/Py - Silica-sericite-carbonate-haematite alteration after pyrite in veins & fracture surfaces

- ang - angular
- bdd - bedded
- bge - beige
- bn - brown
- clc - chloritic
- d - dark
- fg - fine grained
- ft - float
- fz - fault zone
- gos - gossanous
- gn - green
- hm - haematite
- int - interbedded
- li - lithics
- mn - minor
- msv - massive
- occ - occasional
- py - pyrite
- qf - quartz feldspar fragments
- qe - quartz eyes
- qp - quartz fragments
- sil - silicified
- sph - sphalerite
- t/o - throughout
- vn - veins
- wy - weakly
- w - with
- xl - crystal rich

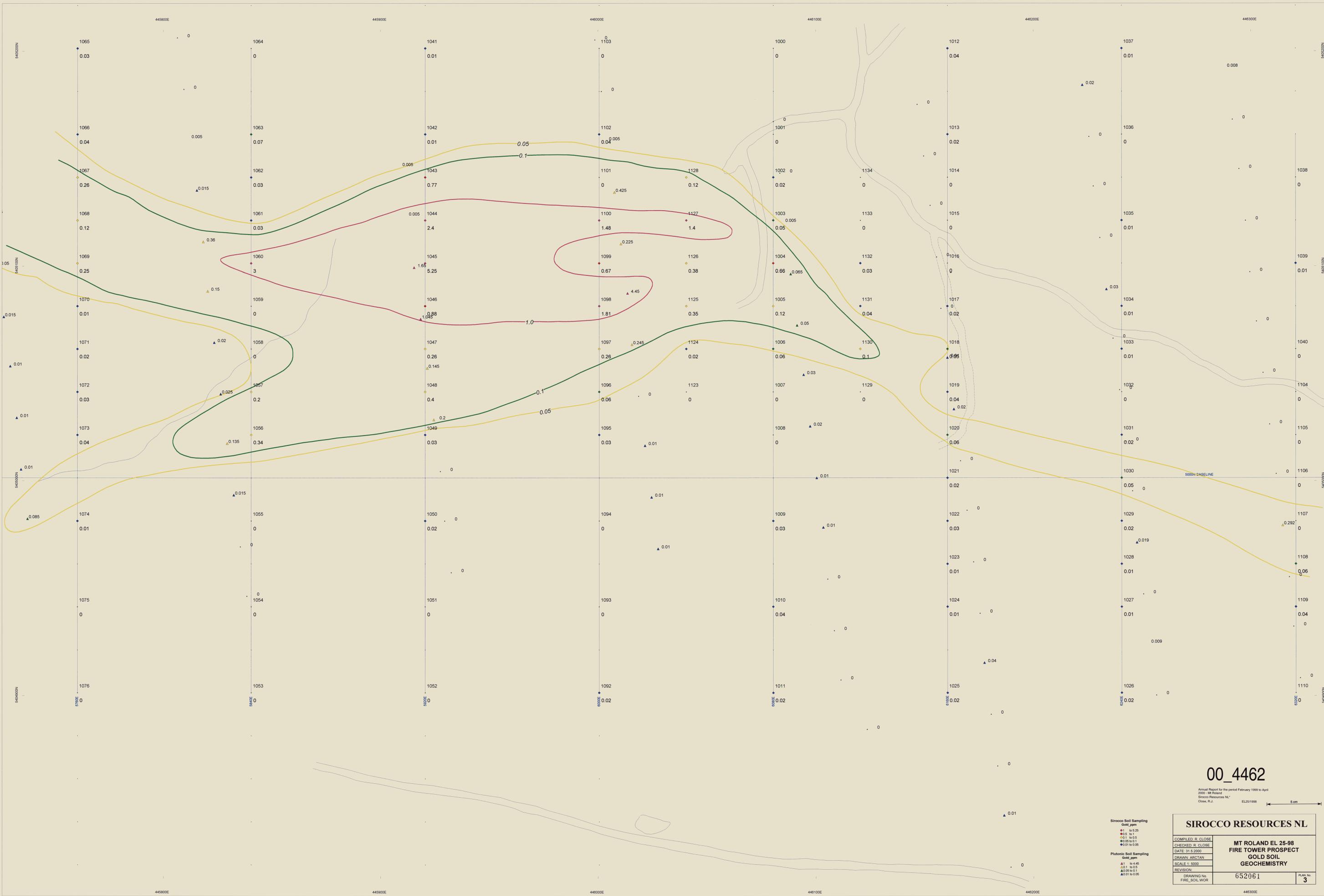
LEGEND

- 5m @ 1:3
1:32
GP-90-17
3MAG 04
22.3M
- CHP CHANNEL SAMPLE (g Au)
- ROCKCHIP SAMPLE (g Au)
- DRILLING TRACE (g Au)
- ROCKCHIP SAMPLE - PLUTONIC (ppm Au)
- ROCKCHIP SAMPLE - SIROCCO (g Au)

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Close, R.J.
EL25/1998

SIROCCO RESOURCES NL	
COMPILED: R. CLOSE	FIRE TOWER PROSPECT DRILLHOLE & ROCKCHIP GEOCHEMISTRY
CHECKED: R. CLOSE	
DATE: 31.5.2000	
DRAWN: ARCTAN	
SCALE: 1:5000	
REVISION:	PLAN No. 2
DRAWING No. FIRE_ROCK_WOR	652060



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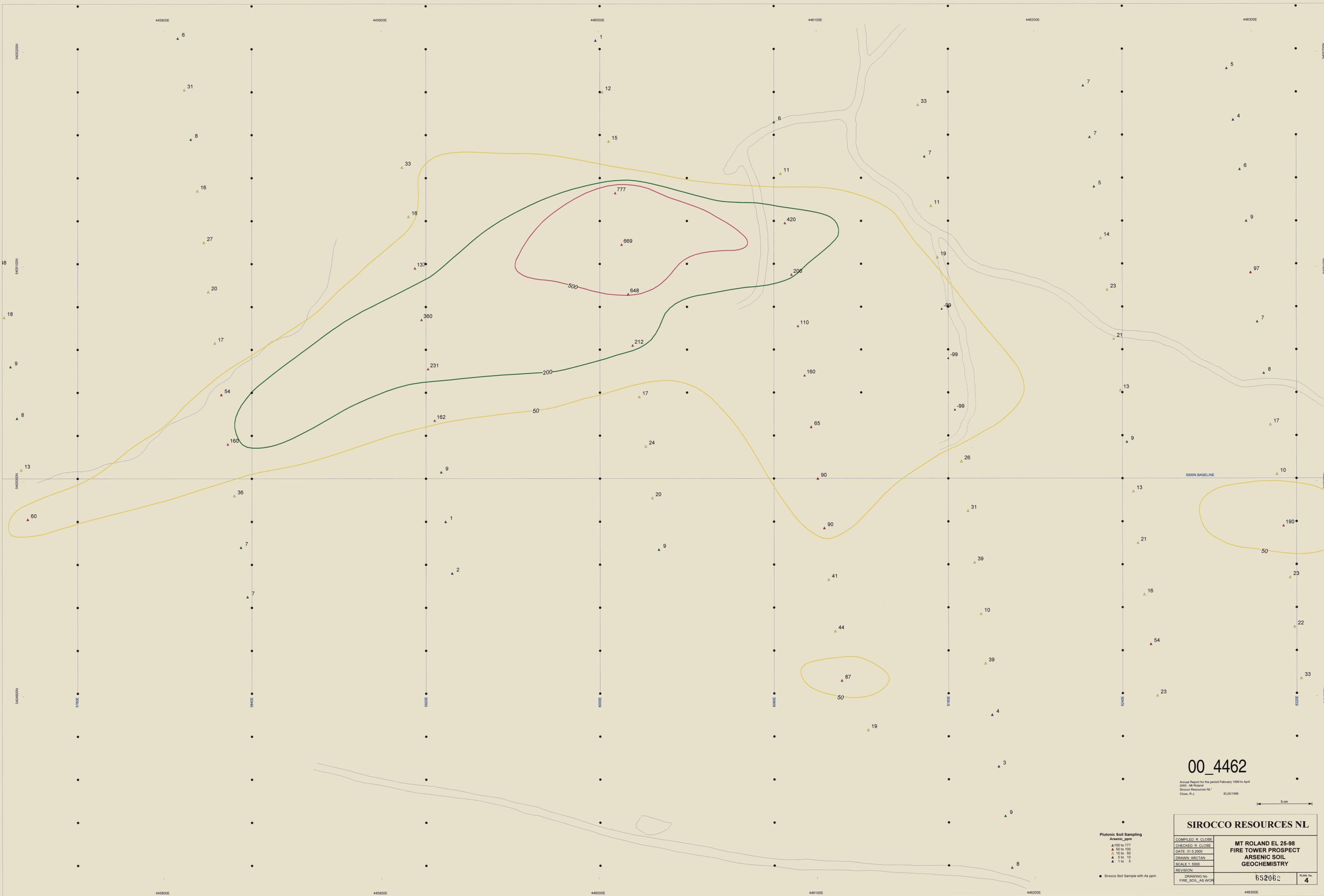
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 EL25/1998

5 cm

Sirocco Soil Sampling
 Gold ppm
 ● 1 to 5.25
 ● 0.1 to 1
 ● 0.1 to 0.5
 ● 0.05 to 0.1
 ● 0.01 to 0.05

Plutonic Soil Sampling
 Gold ppm
 ▲ 1 to 4.45
 ▲ 0.1 to 0.5
 ▲ 0.05 to 0.1
 ▲ 0.01 to 0.05

SIROCCO RESOURCES NL		
COMPILED R. CLOSE	MT ROLAND EL 25-98 FIRE TOWER PROSPECT GOLD SOIL GEOCHEMISTRY	
CHECKED R. CLOSE		
DATE: 31.5.2000		
DRAWN: JACTIAN		
SCALE: 1:5000		
REVISION	PLAN No.	
DRAWING No. FIRE_SOIL_WOR	652061	3



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Plutonic Soil Sampling
Arsenic_ppm
▲ 100 to 777
▲ 50 to 100
▲ 10 to 50
▲ 5 to 10
▲ 1 to 5
● Sirocco Soil Sample with As ppm

SIROCCO RESOURCES NL	
COMPILED: R. CLOBE	MT ROLAND EL 25-98 FIRE TOWER PROSPECT ARSENIC SOIL GEOCHEMISTRY
CHECKED: R. CLOBE	
DATE: 31.5.2000	
DRAWN: ARCTAN	
SCALE: 1:5000	
REVISION:	PLAN No. 4
DRAWING No. 652062	
FIRE_SOIL_AS WOR	